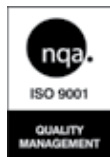


**ANCHOR  
FLUID POWER**

## **SELECTION GUIDE**

### **SAE HYDRAULIC 4-BOLT AND SPLIT FLANGED FITTINGS**

IN CARBON STEEL AND STAINLESS STEEL



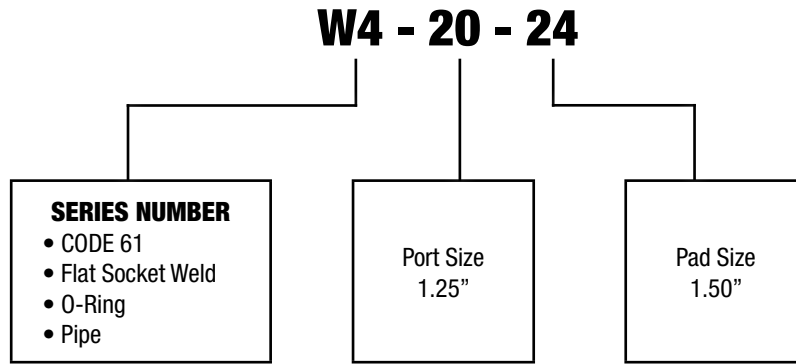
**866-FLANGES | 513.527.4444 | Fax 513.527.4449**

[sales@anchorfluidpower.com](mailto:sales@anchorfluidpower.com) | [anchorfluidpower.com](http://anchorfluidpower.com)

**QUICK SELECTION GUIDE**  
SAE HYDRAULIC 4 BOLT AND SPLIT FLANGED FITTINGS

# Ordering System

Our basic part numbering system is easy to use. The explanation of our part numbering system is detailed below. The series number provides the greatest amount of information pertaining to the flange product. The port size and pad size simply refer to size only, with all sizes based on 1/16 of an inch.



**NOTE #1** - All items available with mounting kit by simply adding suffix letter "U" to the W series and the letter "O" to our split flange series. Example: W4-20-24U & 16SFXO would include all appropriate hardware.

**NOTE #2** - All items available in stainless steel material by simply adding the suffix letters "SS". Stainless steel flanges may vary in shape and/or design from carbon steel flanges. Please consult factory for dimensions.

| CODE 61 METRIC<br>MOUNTING OPTION |                             |
|-----------------------------------|-----------------------------|
| PAD<br>SIZE                       | METRIC TAPPED<br>BOLT HOLES |
| 8                                 | M8 X 1.25                   |
| 12                                | M10 X 1.50                  |
| 16                                | M10 X 1.50                  |
| 20                                | M10 X 1.50                  |
| 24                                | M12 X 1.75                  |
| 32                                | M12 X 1.75                  |
| 40                                | M12 X 1.75                  |
| 48                                | M16 X 2.00                  |
| 56                                | M16 X 2.00                  |
| 64                                | M16 X 2.00                  |

We offer the quality that you have come to expect from Anchor Fluid Power with prompt delivery on these special requirements.

| CODE 62 METRIC<br>MOUNTING OPTION |                             |
|-----------------------------------|-----------------------------|
| PAD<br>SIZE                       | METRIC TAPPED<br>BOLT HOLES |
| 8                                 | M8 X 1.25                   |
| 12                                | M10 X 1.50                  |
| 16                                | M12 X 1.75                  |
| 20                                | M12 X 1.75                  |
| 24                                | M16 X 2.00                  |
| 32                                | M20 X 2.50                  |
| 40                                | M24 X 3.00                  |
| 48                                | M30 X 3.50                  |

Due to the infinite number of flange combinations, materials and finishes available, we make no attempt to catalog all of the items we stock or have the capability to manufacture. Instead, we catalog only our most popular standard flanges.

**Please contact us for your special requirements.**

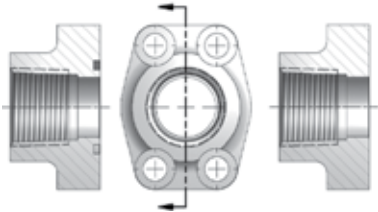


## W-Series

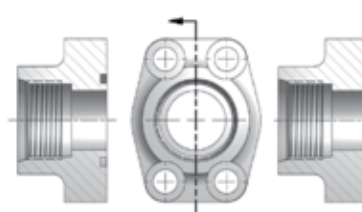


Note- All dimensions are in inches.

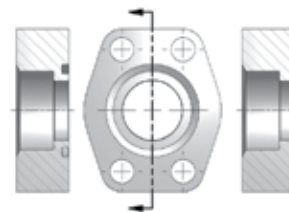
| DASH NUMBER | NOMINAL SIZE | SIZE OF PORT IN FLANGE         |              |           |           |
|-------------|--------------|--------------------------------|--------------|-----------|-----------|
|             |              | THREAD OR SOCKET SPECIFICATION |              |           |           |
|             |              | NPTF                           | SAE ST. THD. | PIPE SOC. | TUBE SOC. |
| -04         | 1/4          | 1/4-18                         | 7/16-20      | .565      | .252      |
| -06         | 3/8          | 3/8-18                         | 9/16-18      | .687      | .377      |
| -08         | 1/2          | 1/2-14                         | 3/4-16       | .855      | .502      |
| -12         | 3/4          | 3/4-14                         | 1 1/16-12    | 1.062     | .752      |
| -16         | 1            | 1-11 1/2                       | 1 5/16-12    | 1.328     | 1.002     |
| -20         | 1 1/4        | 1 1/4-11 1/2                   | 1 5/8-12     | 1.672     | 1.252     |
| -24         | 1 1/2        | 1 1/2-11 1/2                   | 1 7/8-12     | 1.922     | 1.502     |
| -32         | 2            | 2-11 1/2                       | 2 1/2-12     | 2.406     | 2.002     |
| -40         | 2 1/2        | 2 1/2-8                        | 3-12         | 2.906     | 2.502     |
| -48         | 3            | 3-8                            | 3 1/2-12     | 3.547     | 3.002     |
| -56         | 3 1/2        | 3 1/2-8                        | NA           | 4.047     | 3.502     |
| -64         | 4            | 4-8                            | 4 1/2-12     | 4.578     | 4.002     |
| -80         | 5            | NA                             | NA           | 5.641     | 5.002     |



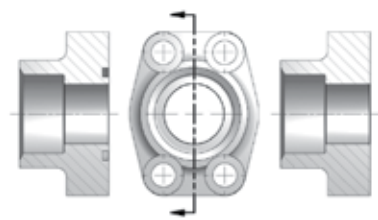
| NPTF THREAD |                 |           |
|-------------|-----------------|-----------|
| O-RING      | PRESSURE RATING | FLAT FACE |
| W43         | CODE 61         | W104      |
| W44         | CODE 62         | W45       |



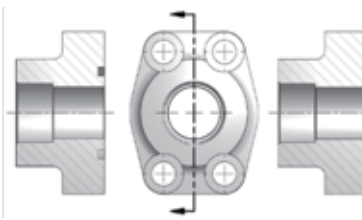
| SAE STRAIGHT THREAD |                 |           |
|---------------------|-----------------|-----------|
| O-RING              | PRESSURE RATING | FLAT FACE |
| W46                 | CODE 61         | W106      |
| W48                 | CODE 62         | W49       |



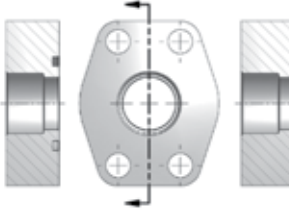
| FLAT SOCKET WELD PIPE |                 |           |
|-----------------------|-----------------|-----------|
| O-RING                | PRESSURE RATING | FLAT FACE |
| W4                    | CODE 61         | W61       |
| W59                   | CODE 62         | W60       |
| W72                   | CODE 61         | W91       |



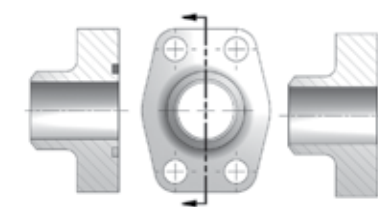
| DEEP SOCKET WELD PIPE |                 |           |
|-----------------------|-----------------|-----------|
| O-RING                | PRESSURE RATING | FLAT FACE |
| W31                   | CODE 61         | W3        |
| W81                   | CODE 62         | W80       |



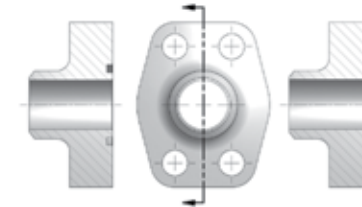
| DEEP SOCKET WELD TUBE |                 |           |
|-----------------------|-----------------|-----------|
| O-RING                | PRESSURE RATING | FLAT FACE |
| W51                   | CODE 61         | W5        |
| W83                   | CODE 62         | W82       |



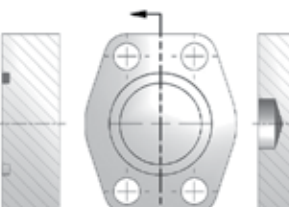
| FLAT SOCKET WELD TUBE |                 |           |
|-----------------------|-----------------|-----------|
| O-RING                | PRESSURE RATING | FLAT FACE |
| W6                    | CODE 61         | W62       |
| W58                   | CODE 62         | W63       |
| W71                   | CODE 61         | W90       |



| BUTT WELD CODE 61 |                 |           |
|-------------------|-----------------|-----------|
| O-RING            | PRESSURE RATING | FLAT FACE |
| W35               | SCH.40          | W34       |
| W24               | SCH.80          | W23       |
| W27               | SCH.160         | W25       |



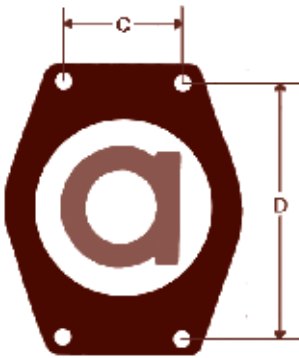
| BUTT WELD CODE 62 |                 |           |
|-------------------|-----------------|-----------|
| O-RING            | PRESSURE RATING | FLAT FACE |
| W28               | SCH.80          | W26       |
| W30               | SCH.160         | W29       |
| W33               | SCH.XXS         | W32       |



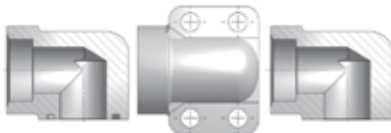
| BLANKING |                 |           |
|----------|-----------------|-----------|
| O-RING   | PRESSURE RATING | FLAT FACE |
| W36      | CODE 61         | W37       |
| W38      | CODE 62         | W39       |

# QUICK SELECTION GUIDE

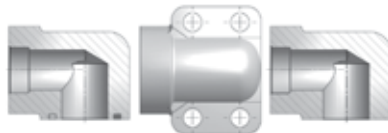
## W-Series



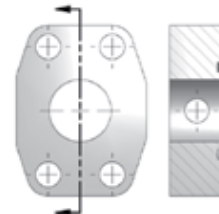
| BASIC FLANGE PAD |              |              |       |         |              |       |         |
|------------------|--------------|--------------|-------|---------|--------------|-------|---------|
| DASH NUMBER      | NOMINAL SIZE | CODE 61      |       |         | CODE 62      |       |         |
|                  |              | BOLT CENTERS |       | THREAD  | BOLT CENTERS |       | THREAD  |
|                  |              | DIM C        | DIM D |         | DIM C        | DIM D |         |
| -08              | 1/2          | .688         | 1.500 | 5/16-18 | .718         | 1.594 | 5/16-18 |
| -12              | 3/4          | .875         | 1.875 | 3/8-16  | .937         | 2.000 | 3/8-16  |
| -16              | 1            | 1.031        | 2.062 | 3/8-16  | 1.093        | 2.250 | 7/16-14 |
| -20              | 1 1/4        | 1.188        | 2.312 | 7/16-14 | 1.250        | 2.625 | 1/2-13  |
| -24              | 1 1/2        | 1.406        | 2.750 | 1/2-13  | 1.437        | 3.125 | 5/8-11  |
| -32              | 2            | 1.688        | 3.062 | 1/2-13  | 1.750        | 3.812 | 3/4-10  |
| -40              | 2 1/2        | 2.000        | 3.500 | 1/2-13  | 2.311        | 4.874 | 7/8-9   |
| -48              | 3            | 2.438        | 4.188 | 5/8-11  | 2.811        | 6.000 | 1 1/8-7 |
| -56              | 3 1/2        | 2.750        | 4.750 | 5/8-11  | NA           | NA    | NA      |
| -64              | 4            | 3.062        | 5.125 | 5/8-11  | NA           | NA    | NA      |
| -80              | 5            | 3.625        | 6.000 | 5/8-11  | NA           | NA    | NA      |



| SOCKET WELD PIPE ELBOW |                 |           |
|------------------------|-----------------|-----------|
| O-RING                 | PRESSURE RATING | FLAT FACE |
| W176                   | CODE 61         | W169      |
| W186                   | CODE 62         | W189      |

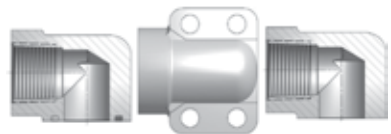


| SOCKET WELD TUBE ELBOW |                 |           |
|------------------------|-----------------|-----------|
| O-RING                 | PRESSURE RATING | FLAT FACE |
| W172                   | CODE 61         | W177      |
| W182                   | CODE 62         | W187      |

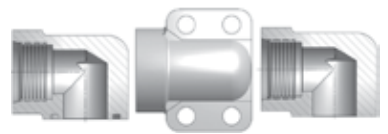


| GAUGE PORT SPACER BLOCK |                 |
|-------------------------|-----------------|
| O-RING                  | PRESSURE RATING |
| AS-GP                   | CODE 61         |
| ASX-GP                  | CODE 62         |

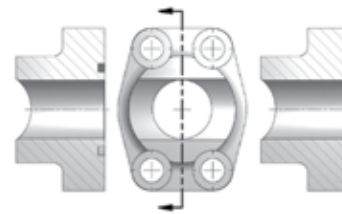
Flanges include both 1/4" NPTF & #4 SAE ports.



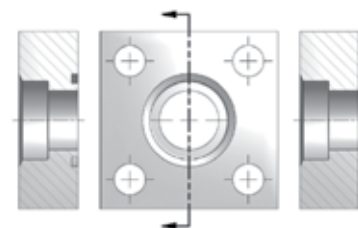
| NPTF THREAD ELBOW |                 |           |
|-------------------|-----------------|-----------|
| O-RING            | PRESSURE RATING | FLAT FACE |
| W168              | CODE 61         | W170      |
| W188              | CODE 62         | W180      |



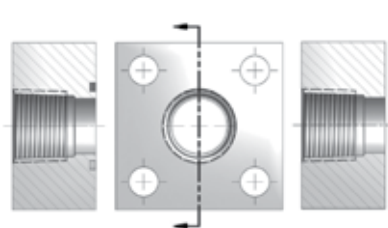
| SAE STRAIGHT THREAD ELBOW |                 |           |
|---------------------------|-----------------|-----------|
| O-RING                    | PRESSURE RATING | FLAT FACE |
| W164                      | CODE 61         | W165      |
| W184                      | CODE 62         | W185      |



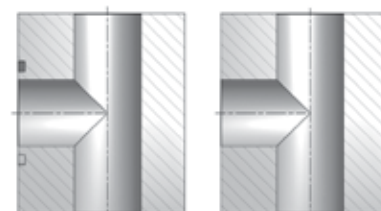
| SADDLE WELD |           |           |
|-------------|-----------|-----------|
| O-RING      | PIPE/TUBE | FLAT FACE |
| W8          | PIPE      | W7        |
| W87         | TUBE      | W69       |



| SQUARE PATTERN SOCKET WELD |                 |           |
|----------------------------|-----------------|-----------|
| O-RING                     | PRESSURE RATING | FLAT FACE |
| W66                        | 3000 PSI        | W76       |
| W56                        | 6000 PSI        | W57       |



| SQUARE PATTERN NPTF THREAD |                 |           |
|----------------------------|-----------------|-----------|
| O-RING                     | PRESSURE RATING | FLAT FACE |
| W65                        | 3000 PSI        | W75       |



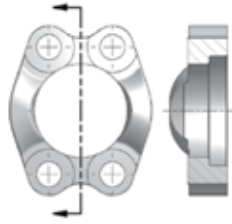
| TEE JUNCTION BLOCK |                 |           |
|--------------------|-----------------|-----------|
| O-RING             | PRESSURE RATING | FLAT FACE |
| W17                | CODE 61         | W16       |
| W19                | CODE 62         | W18       |



## SPLIT & CAPTIVE FLANGES



| SAE J518 SPLIT FLANGE |                 |          |
|-----------------------|-----------------|----------|
| HALF ONLY             | PRESSURE RATING | KIT FORM |
| SF-2                  | CODE 61         | *SFO     |
| SFX-2                 | CODE 62         | *SFXO    |



| SAE J518 CAPTIVE FLANGE |                 |                   |
|-------------------------|-----------------|-------------------|
| DRILLED BOLT HOLES      | PRESSURE RATING | THREAD BOLT HOLES |
| SFW                     | CODE 61         | SFTW              |
| SFXW                    | CODE 62         | SFTXW             |



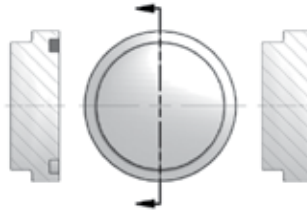
| CAT STYLE SPLIT FLANGE                |          |
|---------------------------------------|----------|
| HALF ONLY                             | KIT FORM |
| PTX-2                                 | *PTXO    |
| NO O-RING INCLUDED IN THIS SERIES KIT |          |

\* When ordering this part # you will receive the kit: (2) split flange halves, (4) hex head bolts and flat washers, and (1) Buna N O-ring.

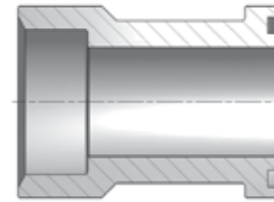
## FLANGED HEAD FITTINGS



| TUBE FLANGE HEAD FITTING |                 |           |
|--------------------------|-----------------|-----------|
| O-RING                   | PRESSURE RATING | FLAT FACE |
| T-SF                     | CODE 61         | T-SFN     |
| T-SFX                    | CODE 62         | T-SFXN    |



| FLANGE PLUG |                 |           |
|-------------|-----------------|-----------|
| O-RING      | PRESSURE RATING | FLAT FACE |
| FOP         | CODE 61         | FP        |
| FOPX        | CODE 62         | FPX       |



| SOCKET WELD TO FLANGE HEAD |                 |       |
|----------------------------|-----------------|-------|
| PIPE                       | PRESSURE RATING | TUBE  |
| P-WSF                      | CODE 61         | T-WSF |
| W53                        | CODE 62         | W54   |

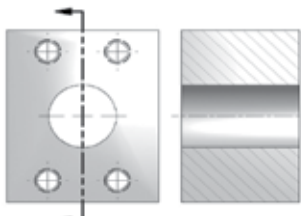


| BUTT WELD TO FLANGE HEAD |                 |           |
|--------------------------|-----------------|-----------|
| O-RING                   | PRESSURE RATING | FLAT FACE |
| P-BWSF                   | CODE 61         | P-BWSFN   |
| P-BWSFX                  | CODE 62         | P-BWSFNX  |

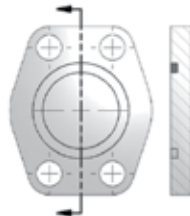


Available for the following schedules of pipe:  
Code 61 - 40, 80, 160 Code 62 - 80, 160, XXS

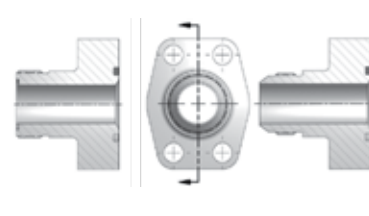
## FLANGE PRODUCTS



| CONNECTOR BLOCKS |                 |
|------------------|-----------------|
| FLAT FACE        | PRESSURE RATING |
| ACB              | CODE 61         |
| ACBX             | CODE 62         |



| SHIPPING PLATES (0 PSI) |                 |
|-------------------------|-----------------|
| O-RING & FLAT FACE      | PRESSURE RATING |
| SP                      | CODE 61         |
| SPX                     | CODE 62         |



| MALE THREAD |                 |      |
|-------------|-----------------|------|
| ORFS        | PRESSURE RATING | JIC  |
| W304        | CODE 61         | W300 |
| W604        | CODE 62         | W600 |

## **OFF-THE-SHELF AVAILABILITY. ENGINEERED FOR PERFORMANCE.**



Anchor's broad range of hydraulic flange configurations provides design engineers and shop assembly personnel with total flexibility in the plumbing of hydraulic systems. Our wide variety of standard configurations are available OFF-THE-SHELF to meet today's reduced lead time requirements.

Anchor's commitment to quality continues to grow while serving today's global market. State-of-the-art equipment, together with full implementation of SPC manufacturing procedures, ensures the highest, most consistent quality throughout the entire product line.

Competitive pricing has long been a trademark of Anchor Fluid Power. This commitment to value continues on our complete line of hydraulic flanges. For our detailed catalog containing specifications on more than 1,200 sizes and configurations call, fax, or visit us on the web at [www.anchorfluidpower.com](http://www.anchorfluidpower.com).



**866-FLANGES | 513.527.4444 | Fax 513.527.4449**  
sales@anchorfluidpower.com | anchorfluidpower.com

**FLOW CONTROL,  
NEEDLE & CHECK  
VALVES**



**HYDRAULIC  
BALL VALVES**



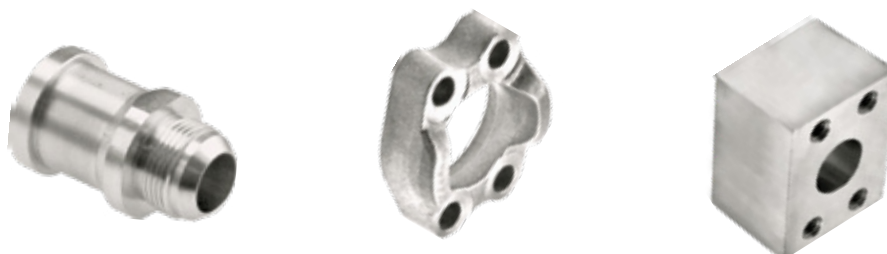
**QUICK COUPLINGS**



**WELD COUPLINGS**



**FLANGES -  
CARBON STEEL**



**FLANGES -  
STAINLESS STEEL**



# INLINE VALVES



**ANCHOR  
FLUID POWER**

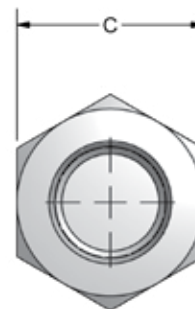
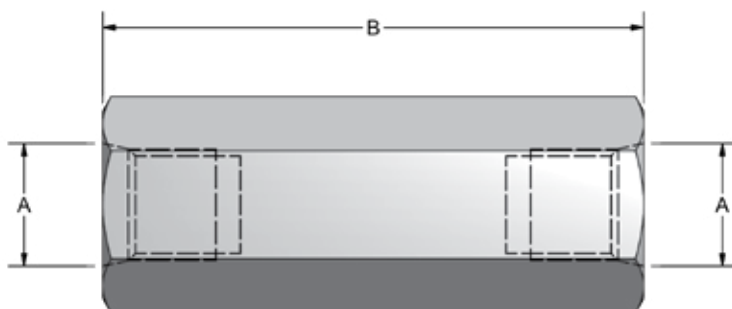
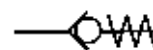
866-FLANGES | 513.527.4444 | Fax 513.527.4449  
sales@anchorfluidpower.com | anchorfluidpower.com

|                                          |           |
|------------------------------------------|-----------|
| <b>Carbon Steel Check Valves</b>         | <b>4</b>  |
| <b>Stainless Steel Check Valves</b>      | <b>6</b>  |
| <b>Carbon Steel Flow Control Valves</b>  | <b>8</b>  |
| <b>Carbon Steel Needle Valves</b>        | <b>10</b> |
| <b>Carbon Steel Gauge Shutoff Valves</b> | <b>12</b> |

# Check Valves - Carbon Steel



- NPTF & SAE Connections
- Carbon Steel with Zinc Chromate Plating (RoHS Compliant)
- Available in 7 PSI & 65 PSI Spring Cracking Pressures
- Metal to Metal Seat
- Hardened Poppet
- Temperature Range -4°F to +176°F
- For hydraulic use only. Consult factory for fluid compatibility.



| NPTF CHECK VALVES |      |      |         |              |
|-------------------|------|------|---------|--------------|
| A                 | B    | C    | MAX PSI | MAX FLOW GPM |
| 1/4"              | 2.17 | .75  | 5700    | 4            |
| 3/8"              | 2.68 | .95  | 5700    | 8            |
| 1/2"              | 2.95 | 1.06 | 5700    | 13           |
| 3/4"              | 3.48 | 1.38 | 5700    | 23           |
| 1"                | 4.33 | 1.61 | 5000    | 40           |
| 1 1/4"            | 4.72 | 2.17 | 5000    | 50           |
| 1 1/2"            | 5.43 | 2.56 | 5000    | 80           |
| 2"                | 5.43 | 2.95 | 4500    | 110          |

| SAE CHECK VALVES |      |      |         |              |
|------------------|------|------|---------|--------------|
| A                | B    | C    | MAX PSI | MAX FLOW GPM |
| #4               | 2.17 | 0.75 | 5700    | 4            |
| #6               | 2.28 | 0.75 | 5700    | 8            |
| #8               | 2.72 | .95  | 5700    | 13           |
| #12              | 3.48 | 1.38 | 5700    | 23           |
| #16              | 4.33 | 1.61 | 5000    | 40           |
| #20              | 4.72 | 2.17 | 5000    | 50           |
| #24              | 5.43 | 2.56 | 5000    | 80           |
| #32              | 5.43 | 2.95 | 4500    | 110          |





# Check Valves - Carbon Steel

## Model Code Breakdown

C N 1/2 - 1 - 7

VALVE SERIES

THREAD TYPE

|    |                     |
|----|---------------------|
| N  | NPTF Pipe Thread    |
| S# | SAE Straight Thread |

THREAD SIZE

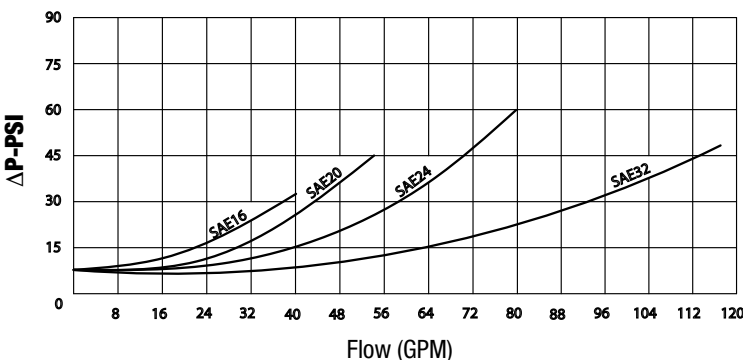
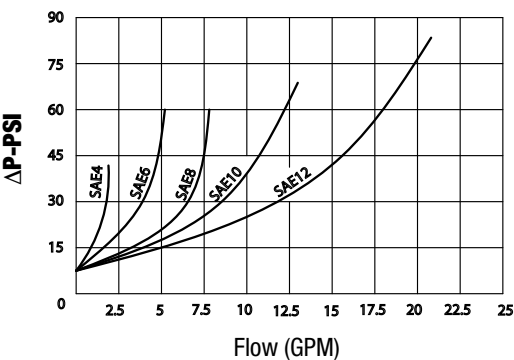
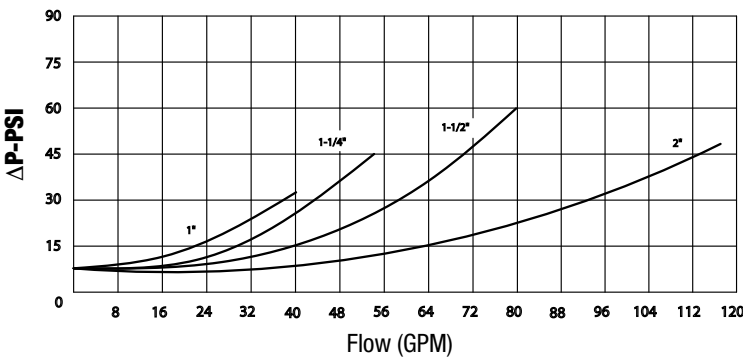
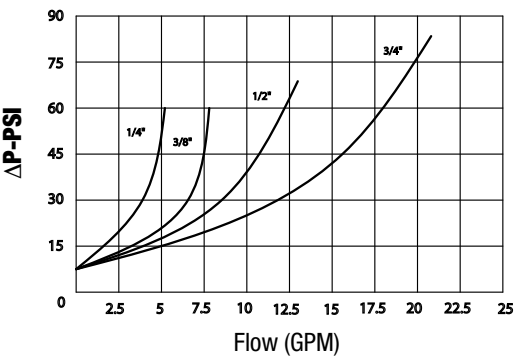
|         |      |
|---------|------|
| Example | N1/2 |
|         | S#8  |

CRACKING PRESSURE

|    |        |
|----|--------|
| 7  | 7 PSI  |
| 65 | 65 PSI |

MATERIAL

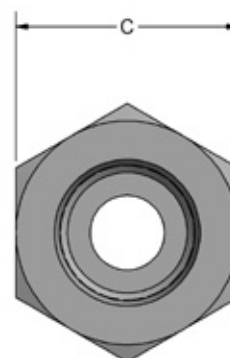
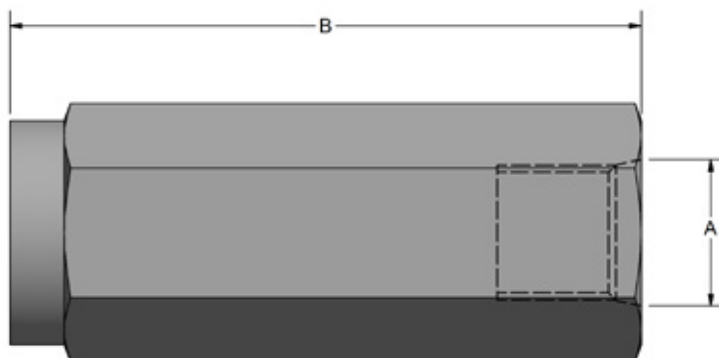
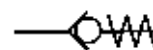
|   |              |
|---|--------------|
| 1 | Carbon Steel |
|---|--------------|



# Check Valves - Stainless Steel



- NPTF & SAE Connections
- 316L stainless steel
- Metal to Metal Seat
- Temperature Range -22°F to +212°F
- For hydraulic use only. Consult factory for fluid compatibility.



| NPTF CHECK VALVES |      |      |         |              |
|-------------------|------|------|---------|--------------|
| A                 | B    | C    | MAX PSI | MAX FLOW GPM |
| 1/4"              | 2.28 | 0.75 | 5800    | 4            |
| 3/8"              | 2.72 | 0.95 | 5800    | 8            |
| 1/2"              | 2.95 | 1.06 | 5800    | 13           |
| 3/4"              | 3.48 | 1.38 | 5800    | 24           |
| 1"                | 4.33 | 1.61 | 5075    | 40           |
| 1 1/4"            | 4.72 | 2.17 | 5075    | 53           |
| 1 1/2"            | 5.43 | 2.36 | 5075    | 80           |
| 2"                | 5.43 | 2.95 | 5075    | 114          |

| SAE CHECK VALVES |      |      |         |              |
|------------------|------|------|---------|--------------|
| A                | B    | C    | MAX PSI | MAX FLOW GPM |
| #4               | 2.17 | 0.75 | 5800    | 4            |
| #6               | 2.28 | 0.95 | 5800    | 8            |
| #8               | 2.71 | 0.95 | 5800    | 13           |
| #12              | 3.48 | 1.38 | 5800    | 24           |
| #16              | 4.33 | 1.61 | 5075    | 40           |
| #20              | 4.72 | 2.17 | 5075    | 53           |
| #24              | 5.43 | 2.36 | 5075    | 80           |
| #32              | 5.43 | 2.95 | 5075    | 114          |



# Check Valves - Stainless Steel

## Model Code Breakdown

C N 1/2 - 2 - 7

VALVE SERIES

THREAD TYPE

|    |                     |
|----|---------------------|
| N  | NPTF Pipe Thread    |
| S# | SAE Straight Thread |

THREAD SIZE

|         |      |
|---------|------|
| Example | N1/2 |
|         | S#8  |

CRACKING PRESSURE

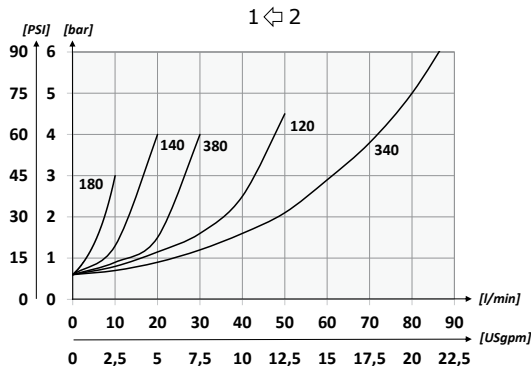
|   |       |
|---|-------|
| 7 | 7 PSI |
|---|-------|

MATERIAL

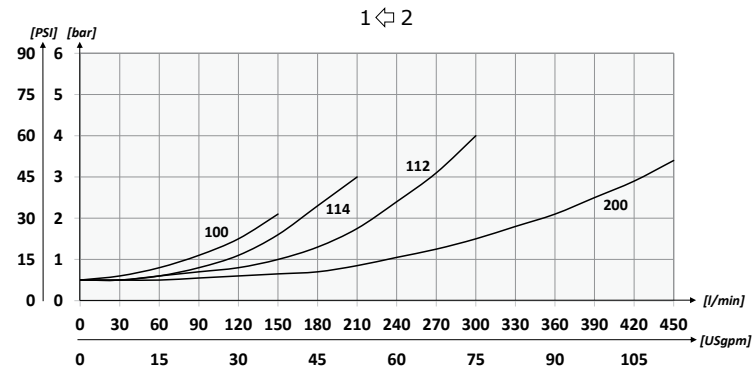
|   |                 |
|---|-----------------|
| 2 | Stainless Steel |
|---|-----------------|

## PRESSURE DROPS

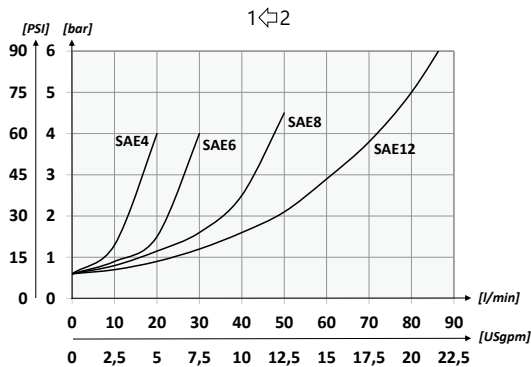
NPTF



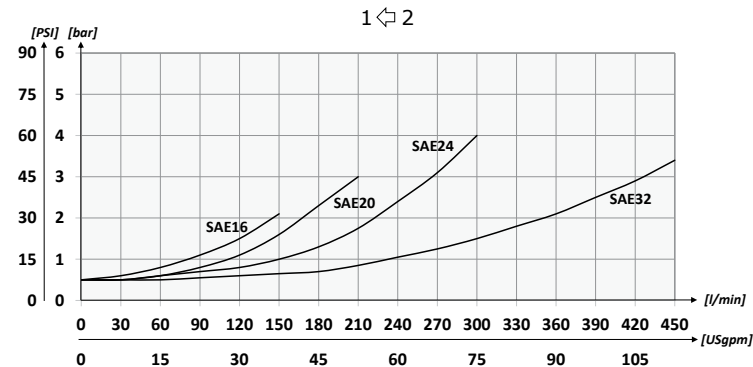
NPTF



SAE



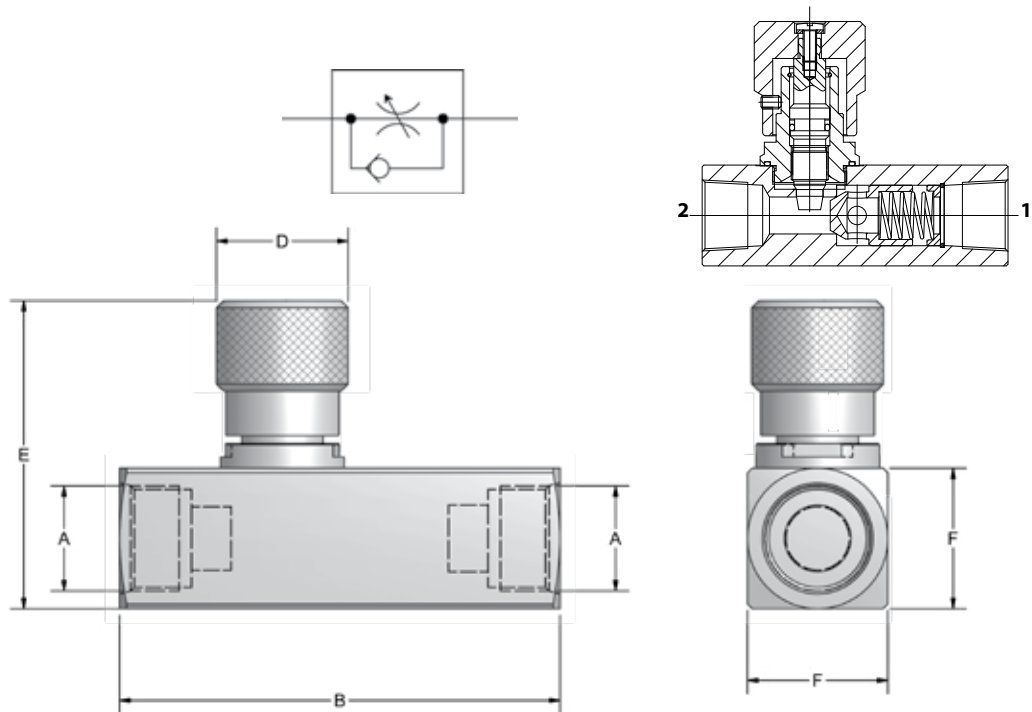
SAE



# Flow Control Valves - Carbon Steel



- NPTF & SAE Connections
- Carbon Steel with Zinc Chromate Plating (RoHS Compliant)
- Set Screw Allows Knob to be Locked into Position
- Graduated Knob & Spindle for Accurate Flow Control
- 7 PSI Standard Spring Setting
- Buna O-Ring / PTFE Stem Packing
- Temperature Range -4°F to +176°F
- These valves are for control of flow only. Not to be used as isolation or shut-off valves
- For hydraulic use only. Consult factory for fluid compatibility.



| FLOW CONTROL VALVES |     |      |      |      |      |         |              |             |
|---------------------|-----|------|------|------|------|---------|--------------|-------------|
| A                   |     | B    | D    | E    | F    | MAX PSI | MAX FLOW GPM | WEIGHT (LB) |
| NPTF                | SAE |      |      |      |      |         |              |             |
| 1/4                 | #4  | 2.60 | 1.18 | 2.67 | 0.98 | 5700    | 4            | 0.83        |
| 3/8                 | #6  | 3.00 | 1.18 | 2.67 | 0.98 | 5700    | 8            | 0.86        |
| 1/2                 | #8  | 3.58 | 1.29 | 2.79 | 1.18 | 5700    | 13           | 1.4         |
| 3/4                 | #12 | 4.43 | 1.65 | 3.70 | 1.57 | 5700    | 21           | 3.0         |
| 1                   | #16 | 5.55 | 1.65 | 3.93 | 1.77 | 5700    | 40           | 4.2         |
| 1-1/4               | #20 | 6.10 | 2.08 | 4.78 | 2.16 | 5000    | 50           | 7.0         |
| 1-1/2               | #24 | 6.61 | 2.08 | 5.17 | 2.55 | 5000    | 80           | 10.0        |



# BALL VALVES

## QUICK COUPLINGS

# WELD COUPLINGS

## SUCTION AND RETURN

## C/S FLANGES

## S/S FLANGES

|   |              |
|---|--------------|
| 1 | Carbon Steel |
|---|--------------|

|         |      |
|---------|------|
| Example | N1/2 |
|         | S#8  |

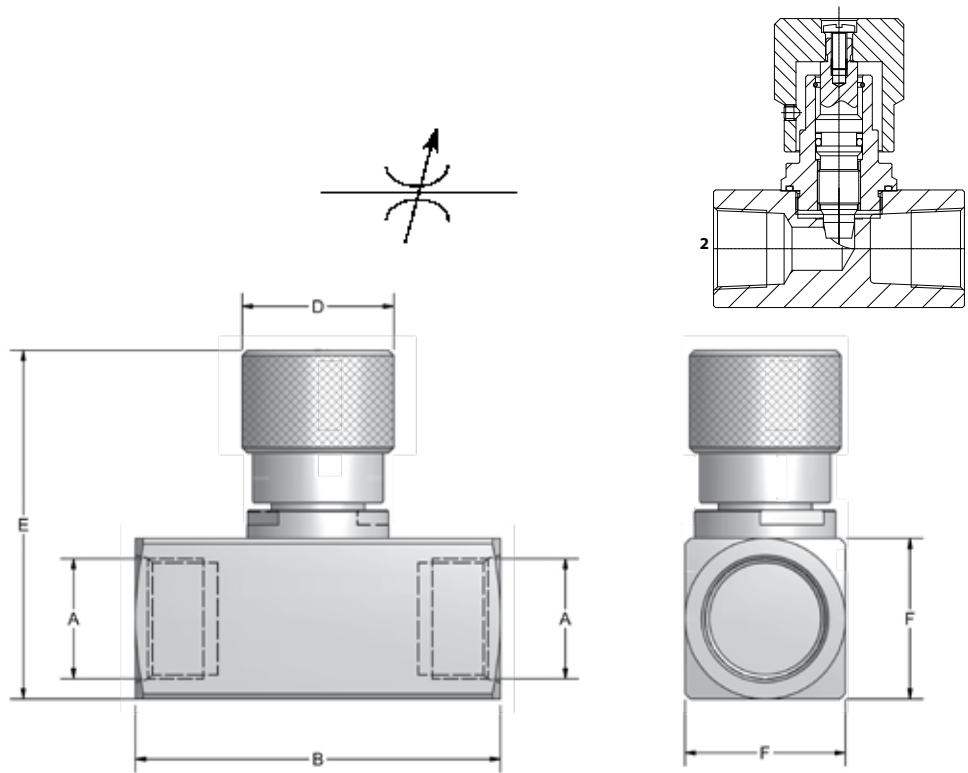
**SAE**



# Needle Valves - Carbon Steel



- NPTF & SAE Connections
- Carbon Steel with Zinc Chromate Plating (RoHS Compliant)
- Set Screw Allows Knob to be Locked into Position
- Graduated Knob & Spindle for Accurate Flow Control
- Buna O-Ring / PTFE Stem Packing
- Temperature Range -4°F to +176°F
- These valves are for control of flow only. Not to be used as isolation or shut-off valves
- For hydraulic use only. Consult factory for fluid compatibility.



| NEEDLE VALVES |     |      |      |      |      |         |              |             |
|---------------|-----|------|------|------|------|---------|--------------|-------------|
| A             |     | B    | D    | E    | F    | MAX PSI | MAX FLOW GPM | WEIGHT (LB) |
| NPTF          | SAE |      |      |      |      |         |              |             |
| 1/4           | #4  | 2.12 | 1.18 | 2.67 | 0.98 | 5700    | 4            | 0.70        |
| 3/8           | #6  | 2.12 | 1.18 | 2.67 | 0.98 | 5700    | 8            | 0.66        |
| 1/2           | #8  | 2.51 | 1.29 | 2.85 | 1.18 | 5700    | 13           | 1.0         |
| 3/4           | #12 | 3.19 | 1.65 | 3.70 | 1.57 | 5700    | 21           | 2.3         |
| 1             | #16 | 4.00 | 1.65 | 3.93 | 1.77 | 5700    | 40           | 3.2         |
| 1-1/4         | #20 | 4.02 | 2.08 | 4.78 | 2.16 | 5000    | 50           | 5.0         |
| 1-1/2         | #24 | 4.02 | 2.08 | 5.17 | 2.55 | 5000    | 80           | 6.5         |



# Needle Valves - Carbon Steel

## Model Code Breakdown

N N 1/2 - 1

Valve Series •

• Material

Thread Type •

1 Carbon Steel

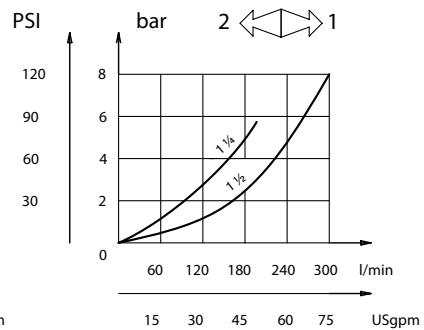
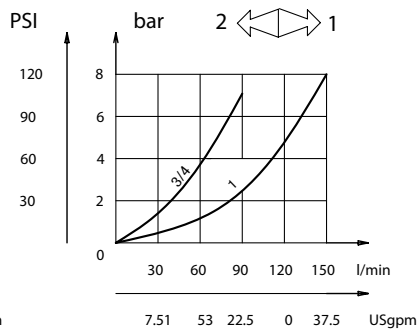
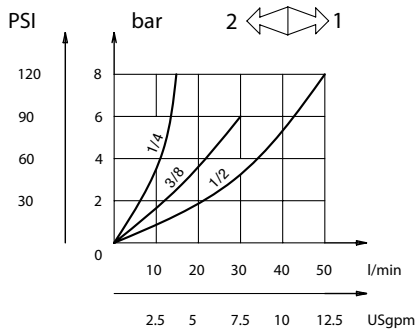
|    |                     |
|----|---------------------|
| N  | NPTF Pipe Thread    |
| S# | SAE Straight Thread |

• Thread Size

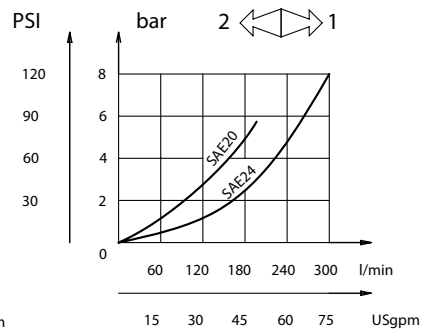
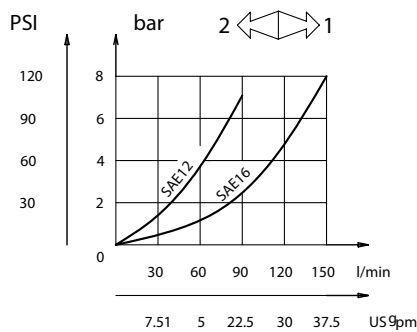
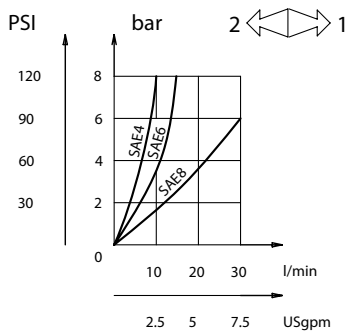
Example N1/2

S#8

### NPTF



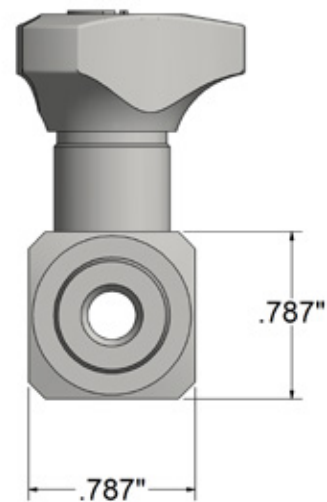
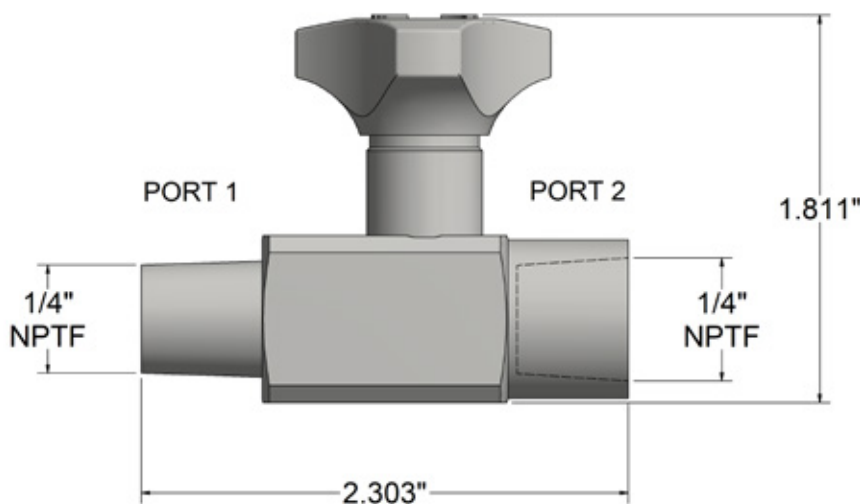
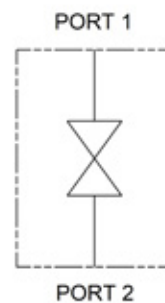
### SAE



## Gauge Shutoff - Carbon Steel



- Part Number: GSN1/4-1
- Temperature Range -4°F to +176°F
- Max Pressure 5800 PSI
- Weight 0.33 lb
- Buna O-Ring
- For hydraulic use only. Consult factory for fluid compatibility.



# BALL VALVES

## QUICK COUPLINGS

# WELD COUPLINGS

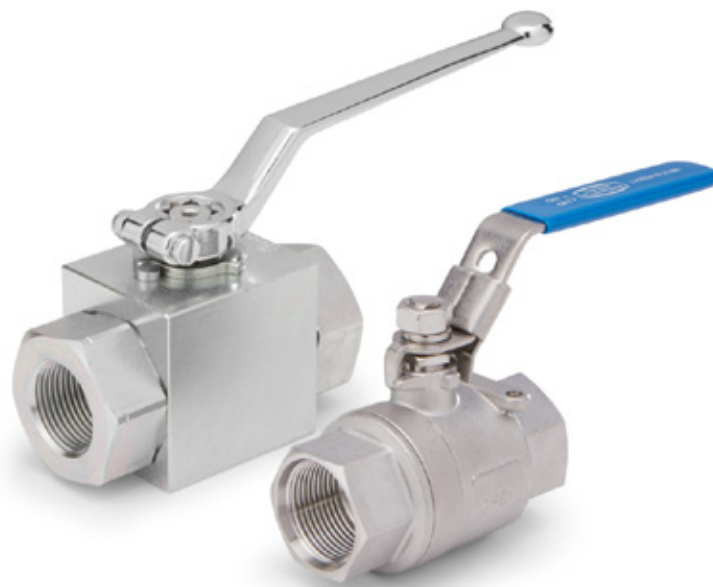
## SUCTION AND RETURN

## C/S FLANGES

## S/S FLANGES

[illegible]

# BALL VALVES



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sales@anchorfluidpower.com | anchorfluidpower.com

|                                                            |           |
|------------------------------------------------------------|-----------|
| <b>AE2 / Two-Way Block Body Threaded</b>                   | <b>16</b> |
| <b>AB2 / Two-Way Round Body Threaded</b>                   | <b>18</b> |
| <b>AV2 / Two-Way Excavator Style</b>                       | <b>20</b> |
| <b>AV3 / Three-Way Excavator Style</b>                     | <b>22</b> |
| <b>AE3 / Three-Way Block Body Threaded</b>                 | <b>24</b> |
| <b>AE3K / “True” Three-Way Block Body Threaded</b>         | <b>26</b> |
| <b>AB3 / Three-Way Body Threaded</b>                       | <b>28</b> |
| <b>AES / Two-Way Block Body Flange Head</b>                | <b>30</b> |
| <b>ABS / Two-Way Round Body Flange Head</b>                | <b>32</b> |
| <b>AEF / Two-Way Block Body Flat Faced</b>                 | <b>34</b> |
| <b>ABF / Two-Way Round Body Flat Faced</b>                 | <b>36</b> |
| <b>AES/F &amp; ABS/F / Two-Way Flange Head X Flat Face</b> | <b>38</b> |
| <b>ARS Series / Two-Way Direct Mount</b>                   | <b>40</b> |
| <b>APK / Two-Way Manifold Mount</b>                        | <b>42</b> |
| <b>Locking Kits</b>                                        | <b>44</b> |
| <b>Handles</b>                                             | <b>45</b> |
| <b>LV2B / 1000 WOG Two-Way Stainless Steel</b>             | <b>46</b> |
| <b>MV2B / 2000 WOG Two-Way Stainless Steel</b>             | <b>47</b> |

#### **BALL VALVE PRESSURE SPECIFICATIONS**

Anchor Fluid Power ball valves are tested in accordance with API 598-B16.34-API602 standards. End connections are manufactured in accordance with one or more of the following specifications.

**SAE J1926-1**

**SAE J518-1**

**ISO 6162-1**

**SAE J514**

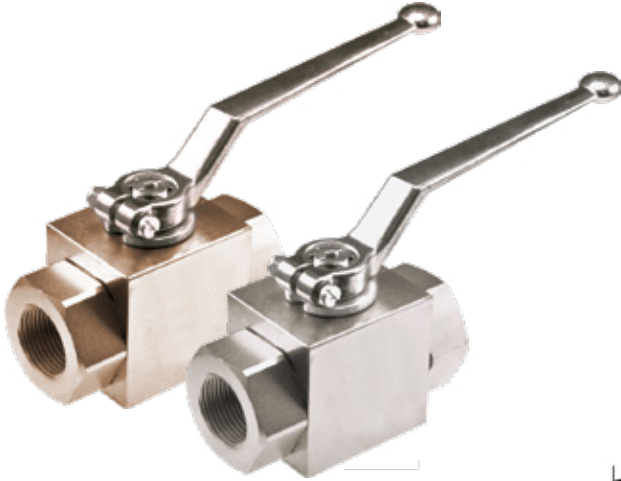
**SAE J518-2**

**ISO 6162-2**

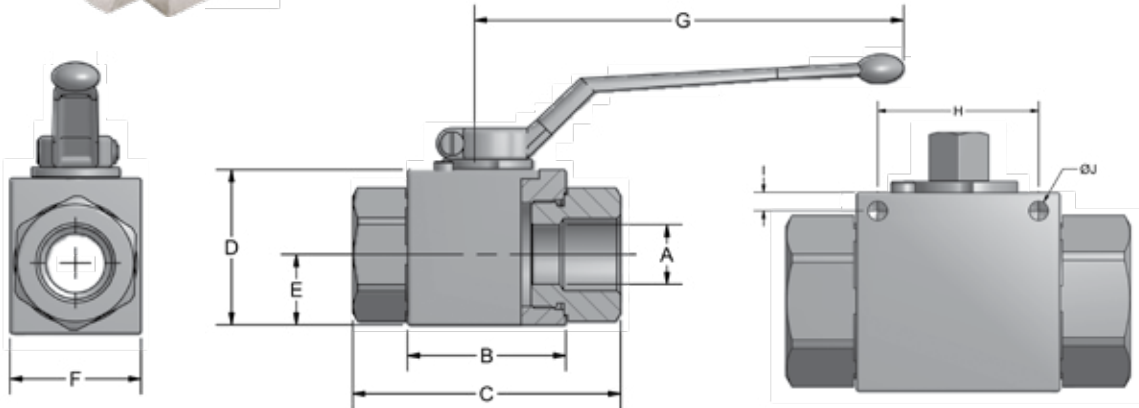
**ANSI B.1.20.1**

## BALL VALVES

# AE2 Series - Two-Way Block Body Threaded



- Carbon Steel with Zinc Chromate Plating (RoHS Compliant)
- 316 stainless steel available from stock
- Unrestricted bore up to 1" size
- POM seats & Buna O-rings standard on carbon steel valves
- Optional seal materials available for extreme temperature applications & fluid compatibility (Consult Factory)



Standard handles supplied are:  
Refer to page 45 for details.

1/8" - 1/2"  
3/4" - 1"

C1010ZB  
C1200ZB

Optional Mounting Holes

| AE2 SERIES FULL BORE |          |            |        |      |      |      |      |        |           |      |      |     |     |         |
|----------------------|----------|------------|--------|------|------|------|------|--------|-----------|------|------|-----|-----|---------|
| SERIES               |          | PSI<br>MAX | A BORE | B    | C    | D    | E    | F      |           | G    | H    | I   | J   | WEIGHT  |
| NPT                  | SAE      |            |        |      |      |      |      | CARBON | STAINLESS |      |      |     |     |         |
| AE2 N1/8             | N/A      | 7250       | .16    | 1.67 | 2.80 | 1.38 | .57  | 1.18   | C/F       | 4.33 | 1.34 | .18 | .21 | 1.1 LBS |
| AE2 N1/4             | AE2 S#4  | 7250       | .24    | 1.67 | 2.80 | 1.38 | .57  | 1.18   | 1.38      | 4.33 | 1.34 | .18 | .21 | 1.1 LBS |
| AE2 N3/8             | AE2 S#6  | 7250       | .39    | 1.75 | 2.87 | 1.57 | .69  | 1.38   | 1.57      | 4.33 | 1.34 | .18 | .21 | 1.4 LBS |
| AE2 N1/2             | AE2 S#8  | 7250       | .51    | 1.90 | 3.27 | 1.69 | .71  | 1.46   | 1.77      | 4.33 | 1.42 | .20 | .21 | 1.7 LBS |
| AE2 N3/4             | AE2 S#12 | 6090       | .79    | 2.46 | 3.74 | 2.17 | .92  | 1.77   | 1.929     | 7.09 | 1.97 | .24 | .25 | 3.3 LBS |
| AE2 N1               | AE2 S#16 | 6090       | .98    | 2.62 | 4.41 | 2.56 | 1.16 | 2.17   | 2.56      | 7.09 | 1.97 | .24 | .25 | 5.0 LBS |

| AE2 SERIES REDUCED BORE |           |            |        |      |      |        |           |      |        |           |      |      |     |     |         |
|-------------------------|-----------|------------|--------|------|------|--------|-----------|------|--------|-----------|------|------|-----|-----|---------|
| SERIES                  |           | PSI<br>MAX | A BORE | B    | C    | D      |           | E    | F      |           | G    | H    | I   | J   | WEIGHT  |
| NPT                     | SAE       |            |        |      |      | CARBON | STAINLESS |      | CARBON | STAINLESS |      |      |     |     |         |
| AE2 N1-1/4R             | AE2 S#20R | 6090       | .98    | 2.62 | 4.72 | 2.56   | 2.56      | 1.16 | 2.17   | 2.56      | 7.09 | 1.97 | .24 | .25 | 5.2 LBS |
| AE2 N1-1/2R             | AE2 S#24R | 6090       | .98    | 2.62 | 4.88 | 2.56   | 2.56      | 1.16 | 2.17   | 2.56      | 7.09 | 1.97 | .24 | .25 | 5.5 LBS |



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# AE2 Series - Two-Way Block Body Threaded

## Model Code Breakdown

AE2 N1/2 \_ - 1 1 D B \_ \_ \_

### VALVE SERIES

### CONNECTION TYPE/SIZE

|   |                     |
|---|---------------------|
| N | NPT Pipe Thread     |
| S | SAE Straight Thread |
| B | BSPP Thread         |

### BORE RESTRICTION

|       |                   |
|-------|-------------------|
| blank | Unrestricted Bore |
| R     | Restricted Bore   |

### BODY & ADAPTER MATERIAL

|   |                     |
|---|---------------------|
| 1 | Carbon Steel        |
| 2 | 316 Stainless Steel |

### BALL & STEM MATERIAL

|   |                     |
|---|---------------------|
| 1 | Carbon Steel        |
| 2 | 316 Stainless Steel |

### OPTIONAL MOUNTING HOLE

|    |                |
|----|----------------|
| MH | Mounting Holes |
|----|----------------|

### LOCKING KIT OR

**OPTIONAL HANDLE CODE**  
(See pages 44 & 45)

### ADAPTER & STEM SEALS

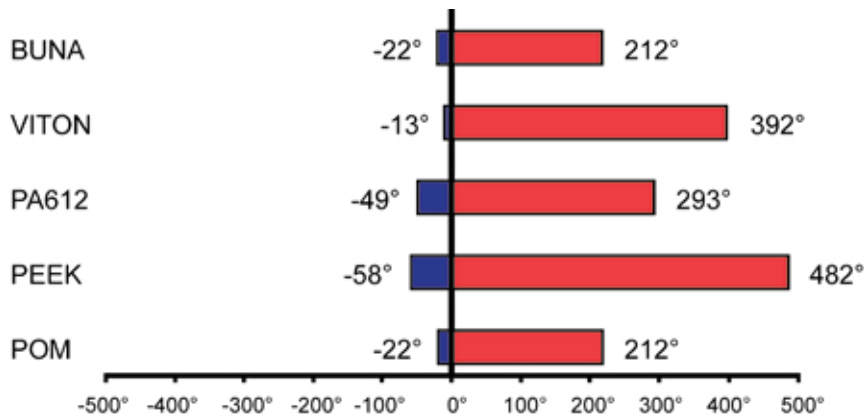
|   |                    |
|---|--------------------|
| B | Buna- Standard     |
| V | Viton (Std on S/S) |

### BALL & STEM SEATS

|   |               |
|---|---------------|
| D | POM- Standard |
| P | PEEK          |

Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

## MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS

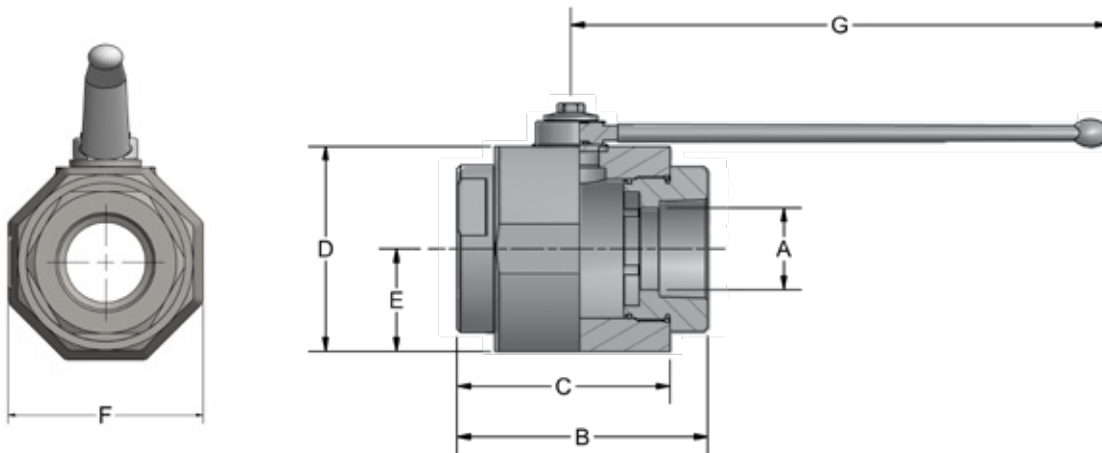




## AB2 Series - Two-Way Round Body Threaded



- Carbon Steel with Zinc Chromate Plating (RoHS Compliant)
- 316 stainless steel available from stock
- Unrestricted bore available through 2" size
- POM seats & Buna O-rings standard on carbon steel valves
- Optional seal materials available for extreme temperature applications & fluid compatibility (Consult Factory)



Standard handle supplied is C81302BSW17. Refer to page 45 for details.

| AB2 SERIES FULL BORE |          |         |        |      |      |      |      |      |       |           |
|----------------------|----------|---------|--------|------|------|------|------|------|-------|-----------|
| NPT                  | SAE      | PSI MAX | A BORE | B    | C    | D    | E    | F    | G     | WEIGHT    |
| AB2 N1-1/4           | AB2 S#20 | 6090    | 1.26   | 4.53 | 2.95 | 3.50 | 1.67 | 3.35 | 12.20 | 9.60 LBS  |
| AB2 N1-1/2           | AB2 S#24 | 6090    | 1.57   | 5.16 | 3.35 | 4.17 | 2.07 | 4.13 | 12.20 | 14.95 LBS |
| AB2 N2               | AB2 S#32 | 6090    | 1.89   | 5.51 | 3.95 | 4.55 | 2.30 | 4.61 | 12.20 | 18.11 LBS |

NPT threads in accordance with ANSI B.1.20.1 specifications.  
SAE threads in accordance with SAE J1926-1 specifications.



# AB2 Series - Two-Way Round Body Threaded

## Model Code Breakdown

AB2 N1 1/2 \_ - 1 1 D B \_

### VALVE SERIES

### CONNECTION TYPE/SIZE

|   |                     |
|---|---------------------|
| N | NPT Pipe Thread     |
| S | SAE Straight Thread |
| B | BSPP Thread         |

### BORE RESTRICTION

|       |                   |
|-------|-------------------|
| blank | Unrestricted Bore |
| R     | Restricted Bore   |

### BODY & ADAPTER MATERIAL

|   |                     |
|---|---------------------|
| 1 | Carbon Steel        |
| 2 | 316 Stainless Steel |

### BALL & STEM MATERIAL

|   |                     |
|---|---------------------|
| 1 | Carbon Steel        |
| 2 | 316 Stainless Steel |

**LOCKING KIT OR  
OPTIONAL HANDLE CODE**  
(See pages 44 & 45)

### ADAPTER & STEM SEALS

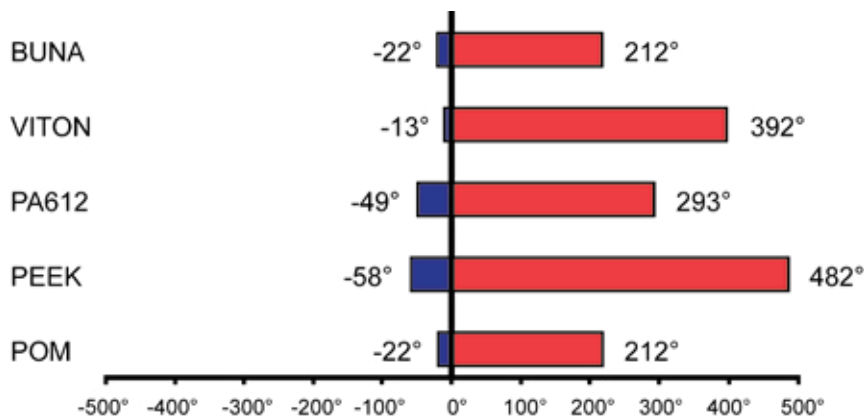
|   |                    |
|---|--------------------|
| B | Buna- Standard     |
| V | Viton (Std on S/S) |

### BALL & STEM SEATS

|   |               |
|---|---------------|
| D | POM- Standard |
| P | PEEK          |

Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

## MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS

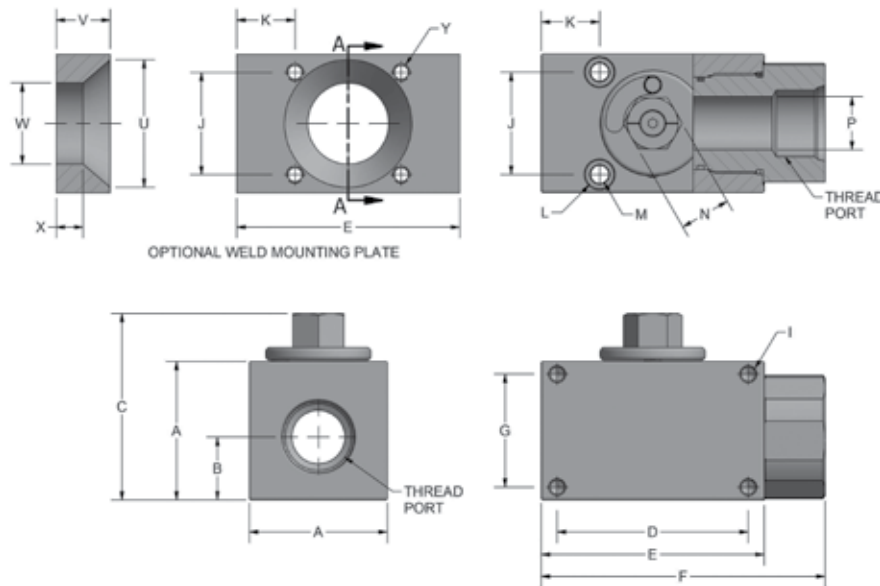


All temperatures are in degrees Fahrenheit.

# AV2 Series - Two-Way Excavator Style



- Carbon Steel with Zinc Chromate Plating (RoHS Compliant)
- Hex stem eliminates need for attached handle
- Detented stop washer prevents accidental actuation
- Mounting holes standard
- Max pressure of 7250 PSI on all sizes
- No handle available for this series
- Optional weld mounting plates sold separately



\*Weld Plate Mounting Pattern Matches "J" Dimension (Top of Valve)

| AV2 SERIES |          |      |      |      |      |      |      |      |           |      |      |      |      |      |      |          |
|------------|----------|------|------|------|------|------|------|------|-----------|------|------|------|------|------|------|----------|
| NPT        | SAE      | A    | B    | C    | D    | E    | F    | G    | H         | I    | J    | K    | L    | M    | N    | WEIGHT   |
| AV2N1/2    | AV2S#8   | 1.77 | 0.79 | 2.46 | 2.52 | 3.15 | 4.07 | 1.30 | M8 X 1.25 | 1.26 | 0.91 | 0.41 | 0.25 | 0.75 | 0.51 | 2.9 LBS  |
| AV2N3/4    | AV2S#12  | 2.17 | 0.92 | 3.05 | 3.15 | 3.98 | 5.10 | 1.69 | M8 X 1.25 | 1.57 | 1.00 | 0.53 | 0.32 | 0.94 | 0.79 | 5.3 LBS  |
| AV2N1      | AV2S#16  | 2.56 | 1.16 | 3.44 | 3.54 | 4.13 | 5.26 | 2.09 | M8 X 1.25 | 1.89 | 1.08 | 0.53 | 0.32 | 0.94 | 0.98 | 7.6 LBS  |
| AV2N1-1/4R | AV2S#20R | 2.56 | 1.16 | 3.44 | 3.54 | 4.13 | 5.26 | 2.09 | M8 X 1.25 | 1.89 | 1.08 | 0.53 | 0.32 | 0.94 | 0.98 | 7.2 LBS  |
| AV2N1-1/4  | AV2S#20  | 3.15 | 1.32 | 4.07 | 3.39 | 4.13 | 5.26 | 2.52 | M8 X 1.25 | 2.36 | 0.96 | 0.53 | 0.32 | 1.26 | 1.26 | 11.0 LBS |

| WELD MOUNTING PLATES |                     |      |      |      |     |                |                   |
|----------------------|---------------------|------|------|------|-----|----------------|-------------------|
| PART #               | VALVE SIZE          | U    | V    | W    | X   | Y              | KIT INCLUDED SHCS |
| *WP-AV#8U            | 1/2"                | N/A  | 1.00 | N/A  | N/A | M6 X 1.00      | M6 X 50 MM        |
| WP-AV#12U            | 3/4"                | 1.97 | 1.00 | 1.50 | .50 | 5/16-18 UNC-2B | 5/16 X 2.25"      |
| WP-AV#16U            | 1" & 1 1/4" REDUCED | 2.36 | 1.00 | 1.50 | .50 | 5/16-18 UNC-2B | 5/16 X 2.75"      |
| WP-AV#20U            | 1 1/4" FULL         | 2.86 | 1.00 | 1.50 | .50 | 5/16-18 UNC-2B | 5/16 X 3.25"      |

\*No internal weld hole on this size weld plate



# AV2 Series - Two-Way Block Body Threaded

## Model Code Breakdown

AV2 N1/2 \_ - 1 1 D V

### VALVE SERIES

### CONNECTION TYPE/SIZE

|   |                     |
|---|---------------------|
| N | NPT Pipe Thread     |
| S | SAE Straight Thread |

### BORE RESTRICTION

|       |                   |
|-------|-------------------|
| blank | Unrestricted Bore |
| R     | Restricted Bore   |

### BODY & ADAPTER MATERIAL

|   |              |
|---|--------------|
| 1 | Carbon Steel |
|---|--------------|

### ADAPTER & STEM SEALS

|   |                  |
|---|------------------|
| V | Viton (Standard) |
|---|------------------|

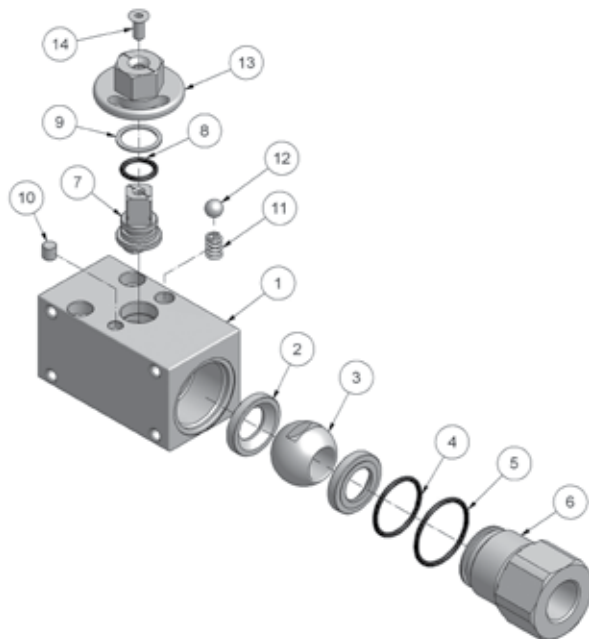
### BALL & STEM SEATS

|   |     |
|---|-----|
| D | POM |
|---|-----|

### BALL & STEM MATERIAL

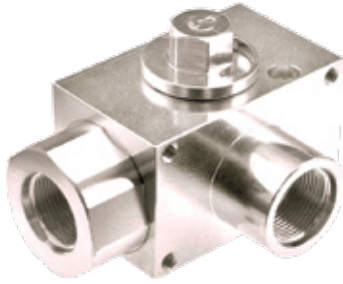
|   |              |
|---|--------------|
| 1 | Carbon Steel |
|---|--------------|

Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

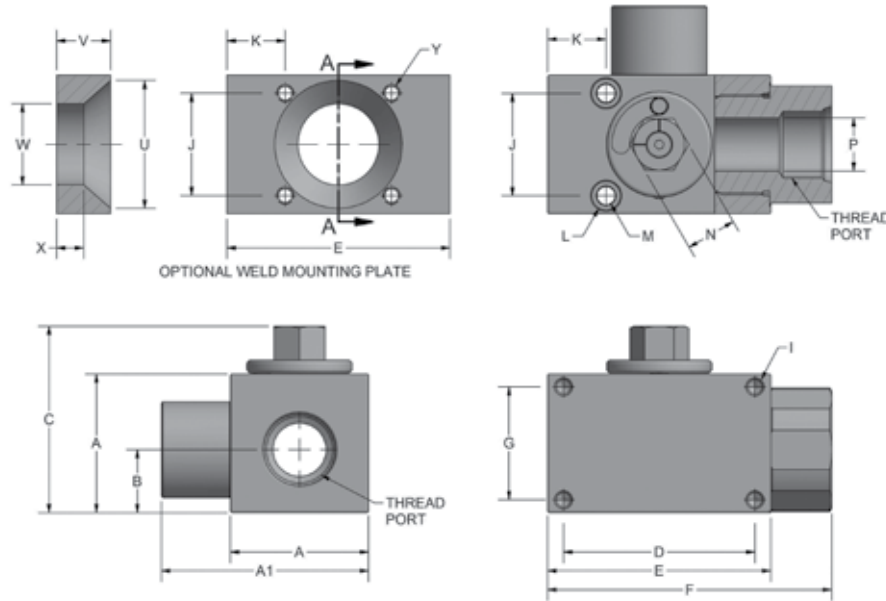


| Parts List |     |                        |
|------------|-----|------------------------|
| ITEM       | QTY | PART NUMBER            |
| 1          | 1   | AV2 Valve Body         |
| 2          | 2   | Ball Seats             |
| 3          | 1   | Ball                   |
| 4          | 1   | Adapter O-Ring (Small) |
| 5          | 1   | Adapter O-Ring (Large) |
| 6          | 1   | Adapter                |
| 7          | 1   | Stem                   |
| 8          | 1   | Stem O-Ring            |
| 9          | 1   | Stem Seat              |
| 10         | 1   | Stop Pin               |
| 11         | 1   | Spring                 |
| 12         | 1   | Detent Ball            |
| 13         | 1   | Alignment Stop         |
| 14         | 1   | Screw                  |

# AV3 Series - Three-Way Excavator Style



- Carbon Steel with Zinc Chromate Plating (RoHS Compliant)
- Hex stem eliminates need for attached handle
- No handle available for this series
- Detented stop washer prevents accidental actuation
- Mounting holes standard
- Max pressure of 5075 PSI on all sizes
- Optional weld mounting plates sold separately



\*Weld Plate Mounting Pattern Matches "J" Dimension (Top of Valve)

| AV3 SERIES  |           |      |      |      |      |      |      |      |      |           |      |      |      |      |      |      |          |
|-------------|-----------|------|------|------|------|------|------|------|------|-----------|------|------|------|------|------|------|----------|
| NPT         | SAE       | A    | A1   | B    | C    | D    | E    | F    | G    | I         | J    | K    | L    | M    | N    | P    | WEIGHT   |
| AV3LN1/2    | AV3LS#8   | 1.77 | 2.62 | 0.79 | 2.74 | 2.52 | 3.15 | 4.07 | 1.30 | M8 X 1.25 | 1.26 | 0.91 | 0.41 | 0.25 | 0.75 | 0.51 | 3.0 LBS  |
| AV3LN3/4    | AV3LS#12  | 2.17 | 3.35 | 0.92 | 2.89 | 3.15 | 3.98 | 5.10 | 1.69 | M8 X 1.25 | 1.57 | 1.00 | 0.53 | 0.32 | 0.94 | 0.79 | 5.5 LBS  |
| AV3LN1      | AV3LS#16  | 2.56 | 3.84 | 1.16 | 3.29 | 3.54 | 4.13 | 5.26 | 2.09 | M8 X 1.25 | 1.89 | 1.08 | 0.53 | 0.32 | 0.94 | 0.98 | 7.9 LBS  |
| AV3LN1-1/4R | AV3LS#20R | 2.56 | 3.90 | 1.16 | 3.29 | 3.54 | 4.13 | 5.26 | 2.09 | M8 X 1.25 | 1.89 | 1.08 | 0.53 | 0.32 | 0.94 | 0.98 | 7.7 LBS  |
| AV3LN1-1/4  | AV3LS#20  | 3.15 | 4.65 | 1.32 | 3.88 | 3.39 | 4.13 | 5.26 | 2.52 | M8 X 1.25 | 2.36 | 0.96 | 0.53 | 0.32 | 1.26 | 1.26 | 11.7 LBS |

| WELD MOUNTING PLATES |                     |      |      |      |     |                |                   |
|----------------------|---------------------|------|------|------|-----|----------------|-------------------|
| PART #               | VALVE SIZE          | U    | V    | W    | X   | Y              | KIT INCLUDED SHCS |
| *WP-AV#8U            | 1/2"                | N/A  | 1.00 | N/A  | N/A | M6 X 1.00      | M6 X 50 MM        |
| WP-AV#12U            | 3/4"                | 1.97 | 1.00 | 1.50 | .50 | 5/16-18 UNC-2B | 5/16 X 2.25"      |
| WP-AV#16U            | 1" & 1 1/4" REDUCED | 2.36 | 1.00 | 1.50 | .50 | 5/16-18 UNC-2B | 5/16 X 2.75"      |
| WP-AV#20U            | 1 1/4" FULL         | 2.86 | 1.00 | 1.50 | .50 | 5/16-18 UNC-2B | 5/16 X 3.25"      |

\*No internal hole on this size weld plate.



# AV3 Series - Three-Way Excavator Style

## Model Code Breakdown

AV3L N1/2 \_ - 1 1 D B

### VALVE SERIES

### CONNECTION TYPE/SIZE

|   |                     |
|---|---------------------|
| N | NPT Pipe Thread     |
| S | SAE Straight Thread |

### BORE RESTRICTION

|       |                   |
|-------|-------------------|
| blank | Unrestricted Bore |
| R     | Restricted Bore   |

### BODY & ADAPTER MATERIAL

|   |              |
|---|--------------|
| 1 | Carbon Steel |
|---|--------------|

### ADAPTER & STEM SEALS

|   |                  |
|---|------------------|
| V | Viton (Standard) |
|---|------------------|

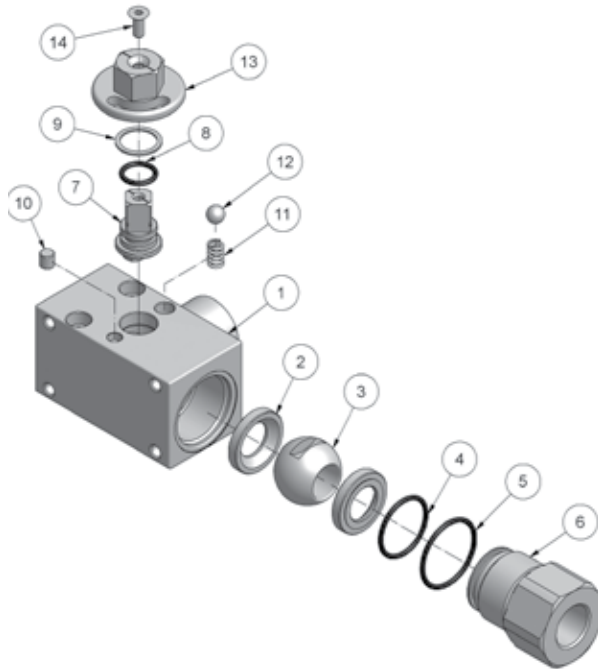
### BALL & STEM SEATS

|   |     |
|---|-----|
| D | POM |
|---|-----|

### BALL & STEM MATERIAL

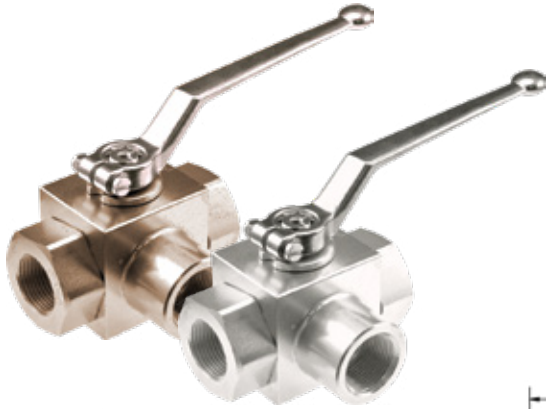
|   |              |
|---|--------------|
| 1 | Carbon Steel |
|---|--------------|

Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

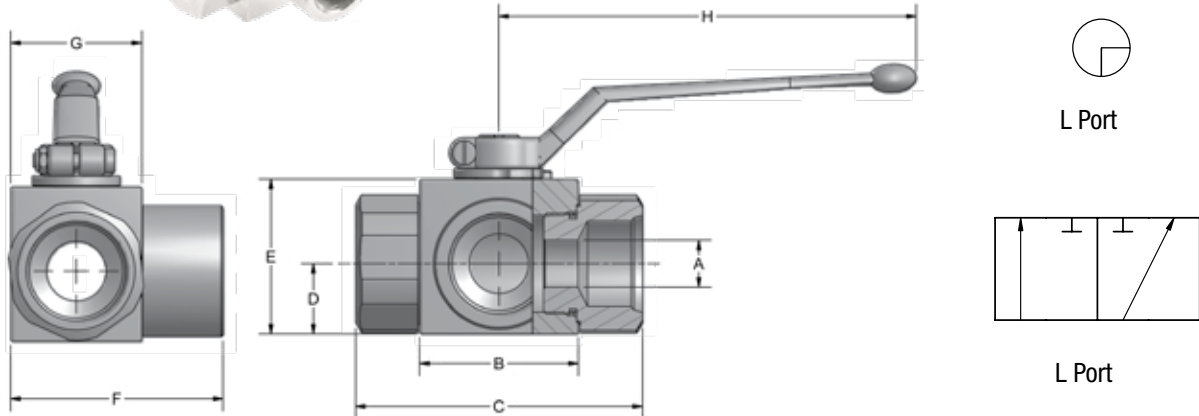


| Parts List |     |                        |
|------------|-----|------------------------|
| ITEM       | QTY | PART NUMBER            |
| 1          | 1   | AV3 Valve Body         |
| 2          | 2   | Ball Seats             |
| 3          | 1   | Ball                   |
| 4          | 1   | Adapter O-Ring (Small) |
| 5          | 1   | Adapter O-Ring (Large) |
| 6          | 1   | Adapter                |
| 7          | 1   | Stem                   |
| 8          | 1   | Stem O-Ring            |
| 9          | 1   | Stem Seat              |
| 10         | 1   | Stop Pin               |
| 11         | 1   | Spring                 |
| 12         | 1   | Detent Ball            |
| 13         | 1   | Alignment Stop         |
| 14         | 1   | Screw                  |

## AE3 Series - Three-Way Block Body Threaded



- Carbon Steel with Zinc Chromate Plating (RoHS Compliant)
- 316 stainless steel available from stock
- POM seats & Buna O-rings standard on carbon steel valves
- Optional seal materials available for extreme temperature applications & fluid compatibility (Consult Factory)



Standard handles supplied are: 1/8" - 1/2" C1010ZB  
Refer to page 45 for details. 3/4" - 1" C1200ZB

| AE3 SERIES FULL BORE |            |         |        |      |      |      |      |      |      |      |         |
|----------------------|------------|---------|--------|------|------|------|------|------|------|------|---------|
| NPT                  | SAE        | PSI MAX | A BORE | B    | C    | D    | E    | F    | G    | H    | WEIGHT  |
| AE3 L N1/8           | N/A        | 7250    | .16    | 1.70 | 2.80 | .57  | 1.38 | 1.91 | 1.18 | 4.33 | 1.2 LBS |
| AE3 L N1/4           | AE3 L S#4  | 7250    | .24    | 1.70 | 2.80 | .57  | 1.38 | 1.91 | 1.18 | 4.33 | 1.2 LBS |
| AE3 L N3/8           | AE3 L S#6  | 7250    | .39    | 1.75 | 2.87 | .67  | 1.57 | 2.15 | 1.38 | 4.33 | 1.5 LBS |
| AE3 L N1/2           | AE3 L S#8  | 7250    | .51    | 1.91 | 3.27 | .71  | 1.69 | 2.30 | 1.46 | 4.33 | 1.8 LBS |
| AE3 L N3/4           | AE3 L S#12 | 5800    | .79    | 2.46 | 3.74 | .92  | 2.17 | 2.95 | 1.77 | 7.09 | 3.5 LBS |
| AE3 L N1             | AE3 L S#16 | 6090    | .98    | 2.62 | 4.41 | 1.16 | 2.56 | 3.44 | 2.17 | 7.09 | 5.3 LBS |

| AE3 SERIES REDUCED BORE |             |         |        |      |      |      |      |      |      |      |         |
|-------------------------|-------------|---------|--------|------|------|------|------|------|------|------|---------|
| NPT                     | SAE         | PSI MAX | A BORE | B    | C    | D    | E    | F    | G    | H    | WEIGHT  |
| AE3 L N1-1/4R           | AE3 L S#20R | 6090    | .98    | 2.62 | 4.72 | 1.16 | 2.56 | 3.44 | 2.17 | 7.09 | 5.7 LBS |
| AE3 L N1-1/2R           | AE3 L S#24R | 6090    | .98    | 2.62 | 4.88 | 1.16 | 2.56 | 3.44 | 2.17 | 7.09 | 6.1 LBS |

Only pressurize center port. Side ports should not be pressurized or be exposed to back pressure that is greater than the inlet pressure. Failure to follow these guidelines will result in internal leakage through the valve. For applications requiring pressure applied to side ports, please refer to AE3K Series valves on page 26.

NPT threads in accordance with ANSI B.1.20.1 specifications.  
SAE threads in accordance with SAE J1926-1 specifications.



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# AE3 Series - Three-Way Block Body Threaded

## Model Code Breakdown

AE3 L N \_ - 1 1 D B

### VALVE SERIES

### PORT TYPE

|   |                   |
|---|-------------------|
| L | "Diverter" L-Port |
|---|-------------------|

### CONNECTION TYPE/SIZE

|   |                     |
|---|---------------------|
| N | NPT Pipe Thread     |
| S | SAE Straight Thread |

### BORE RESTRICTION

|       |                   |
|-------|-------------------|
| blank | Unrestricted Bore |
| R     | Restricted Bore   |

### BODY & ADAPTER MATERIAL

|   |                     |
|---|---------------------|
| 1 | Carbon Steel        |
| 2 | 316 Stainless Steel |

### BALL & STEM MATERIAL

|   |                     |
|---|---------------------|
| 1 | Carbon Steel        |
| 2 | 316 Stainless Steel |

**LOCKING KIT OR  
OPTIONAL HANDLE CODE**  
(See pages 44 & 45)

### ADAPTER & STEM SEALS

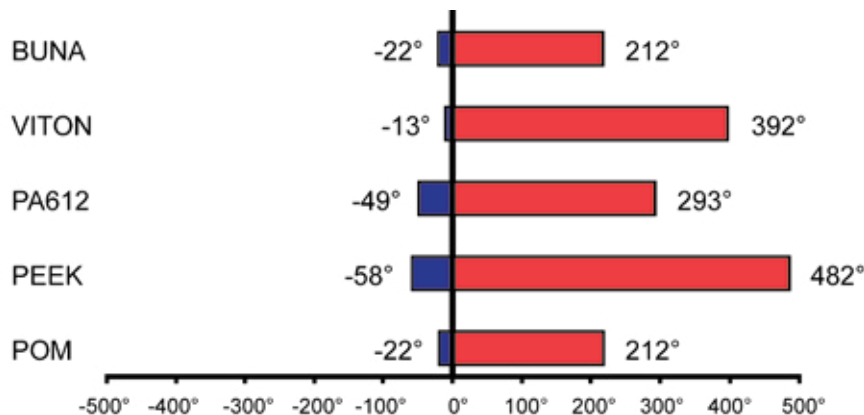
|   |                    |
|---|--------------------|
| B | Buna- Standard     |
| V | Viton (Std on S/S) |

### BALL & STEM SEATS

|   |               |
|---|---------------|
| D | POM- Standard |
| P | PEEK          |

Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

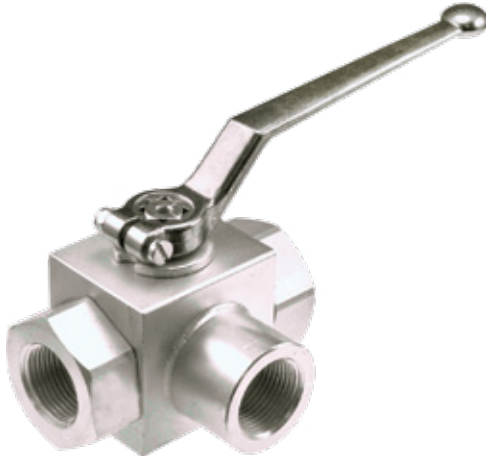
## MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS



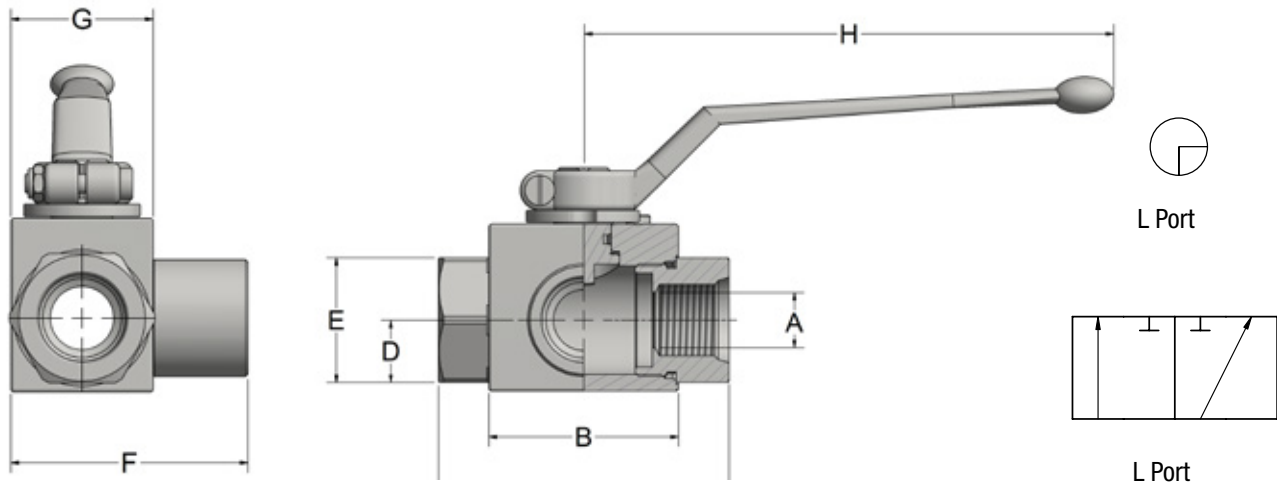
All temperatures are in degrees Fahrenheit.



# AE3K Series - Three-Way Block Body Threaded



- Any port may be pressurized on this series valve ("True" 3-way valve)
- Carbon Steel with Zinc Chromate Plating (RoHS Compliant)
- POM seats & Buna O-rings standard on carbon steel valves
- Optional seal materials available for extreme temperature applications & fluid compatibility (Consult Factory)



Standard handles supplied are: 1/4" - 1/2" C1010ZB  
Refer to page 45 for details. 3/4" - 1" C1200ZB

| AE3K SERIES FULL BORE |             |         |        |      |      |      |      |      |      |      |         |
|-----------------------|-------------|---------|--------|------|------|------|------|------|------|------|---------|
| NPT                   | SAE         | PSI MAX | A BORE | B    | C    | D    | E    | F    | G    | H    | WEIGHT  |
| AE3K L N1/4           | AE3K L S#4  | 7250    | .24    | 1.67 | 2.80 | .57  | 1.38 | 1.91 | 1.18 | 4.33 | 1.2 LBS |
| AE3K L N3/8           | AE3K L S#6  | 7250    | .39    | 1.75 | 2.87 | .69  | 1.57 | 2.15 | 1.38 | 4.33 | 1.5 LBS |
| AE3K L N1/2           | AE3K L S#8  | 7250    | .51    | 1.91 | 3.27 | .71  | 1.69 | 2.30 | 1.46 | 4.33 | 1.8 LBS |
| AE3K L N3/4           | AE3K L S#12 | 5800    | .79    | 2.46 | 3.74 | .92  | 2.17 | 2.95 | 1.77 | 7.01 | 3.5 LBS |
| AE3K L N1             | AE3K L S#16 | 6090    | .98    | 2.62 | 4.41 | 1.16 | 2.56 | 3.44 | 2.17 | 7.01 | 5.3 LBS |

NPT threads in accordance with ANSI B.1.20.1 specifications.

SAE threads in accordance with SAE J1926-1 specifications.

# AE3K Series - Three-Way Block Body Threaded

## Model Code Breakdown

AE3K L N1/2 \_ - 1 1 D B \_

### VALVE SERIES

### PORT TYPE

|   |                   |
|---|-------------------|
| L | "Diverter" L-Port |
|---|-------------------|

### CONNECTION TYPE/SIZE

|   |                     |
|---|---------------------|
| N | NPT Pipe Thread     |
| S | SAE Straight Thread |

### BORE RESTRICTION

|       |                   |
|-------|-------------------|
| blank | Unrestricted Bore |
| R     | Restricted Bore   |

### BODY & ADAPTER MATERIAL

|   |              |
|---|--------------|
| 1 | Carbon Steel |
|---|--------------|

### BALL & STEM MATERIAL

|   |              |
|---|--------------|
| 1 | Carbon Steel |
|---|--------------|

**LOCKING KIT OR  
OPTIONAL HANDLE CODE**  
(See pages 44 & 45)

### ADAPTER & STEM SEALS

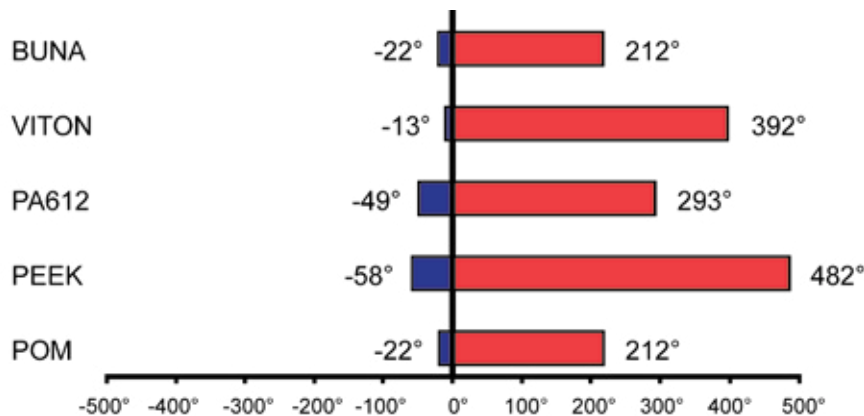
|   |                |
|---|----------------|
| B | Buna- Standard |
| V | Viton          |

### BALL & STEM SEATS

|   |               |
|---|---------------|
| D | POM- Standard |
|---|---------------|

Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

### MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS

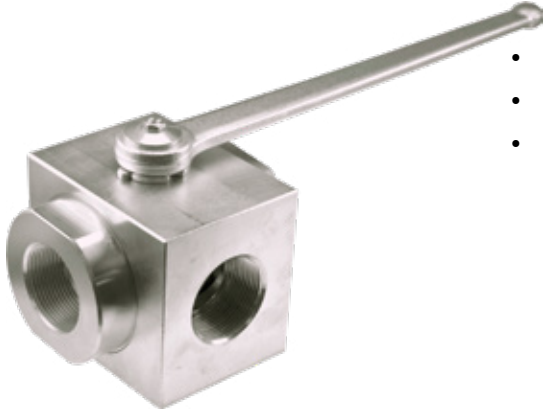


All temperatures are in degrees Fahrenheit.

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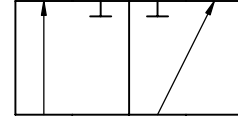
# AB3 Series - Three-Way Threaded



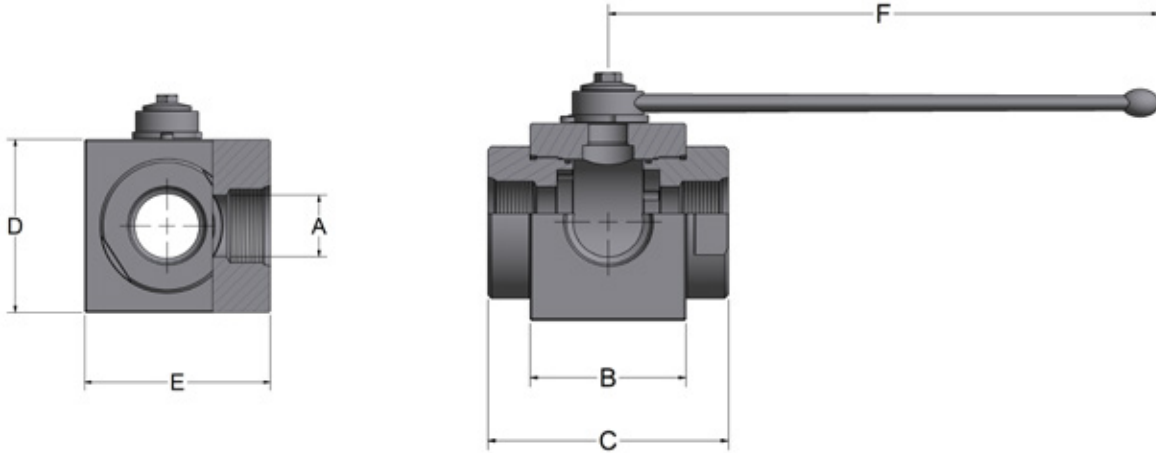
- Carbon Steel with Zinc Chromate Plating (RoHS Compliant)
- POM seats & Buna O-rings standard on carbon steel valves
- Optional seal materials available for extreme temperature applications & fluid compatibility (Consult Factory)



L Port



L Port



Standard handle supplied is C81302B-SW17. Refer to page 45 for details.

| AB3 SERIES FULL BORE |         |        |      |      |      |      |       |          |
|----------------------|---------|--------|------|------|------|------|-------|----------|
| NPT                  | PSI MAX | A BORE | B    | C    | D    | E    | F     | WEIGHT   |
| AB3 L N1-1/4         | 5075    | 1.26   | 2.95 | 4.53 | 3.66 | 3.90 | 11.81 | 12.6 LBS |
| AB3 L N1-1/2         | 5075    | 1.57   | 3.35 | 5.16 | 4.21 | 4.53 | 11.81 | 19.0 LBS |
| AB3 L N2             | 5075    | 1.97   | 3.86 | 5.51 | 4.49 | 5.04 | 11.81 | 23.4 LBS |

Only pressurize center port. Side ports should not be pressurized or be exposed to back-pressure that is greater than the inlet pressure. Failure to follow these guidelines will result in internal leakage through the valve.

NPT threads in accordance with ANSI B.1.20.1 specifications.



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# AB3 Series - Three-Way Threaded

## Model Code Breakdown

AB3 L N1/2 - 1 1 D B \_

### VALVE SERIES

### PORT TYPE

|   |                   |
|---|-------------------|
| L | "Diverter" L-Port |
|---|-------------------|

### CONNECTION TYPE/SIZE

|   |                 |
|---|-----------------|
| N | NPT Pipe Thread |
|---|-----------------|

### BODY & ADAPTER MATERIAL

|   |              |
|---|--------------|
| 1 | Carbon Steel |
|---|--------------|

### BALL & STEM MATERIAL

|   |              |
|---|--------------|
| 1 | Carbon Steel |
|---|--------------|

**LOCKING KIT OR  
OPTIONAL HANDLE CODE**  
(See pages 44 & 45)

### ADAPTER & STEM SEALS

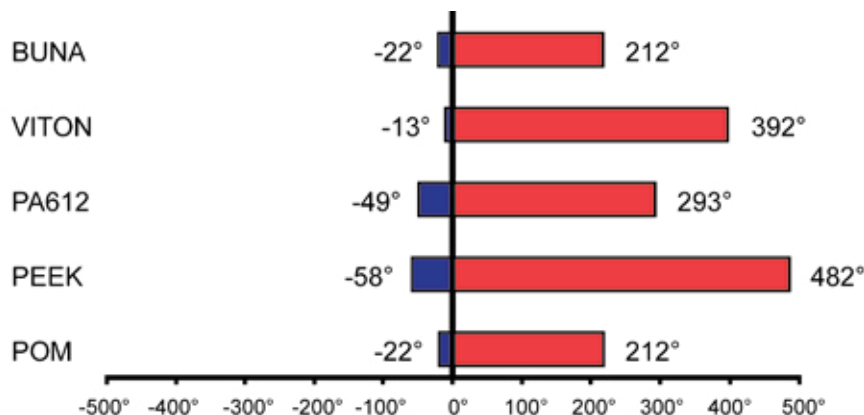
|   |                |
|---|----------------|
| B | Buna- Standard |
| V | Viton          |

### BALL & STEM SEATS

|   |               |
|---|---------------|
| D | POM- Standard |
| P | PEEK          |

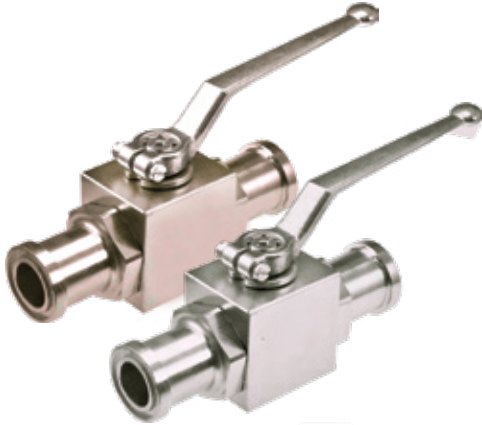
Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

## MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS

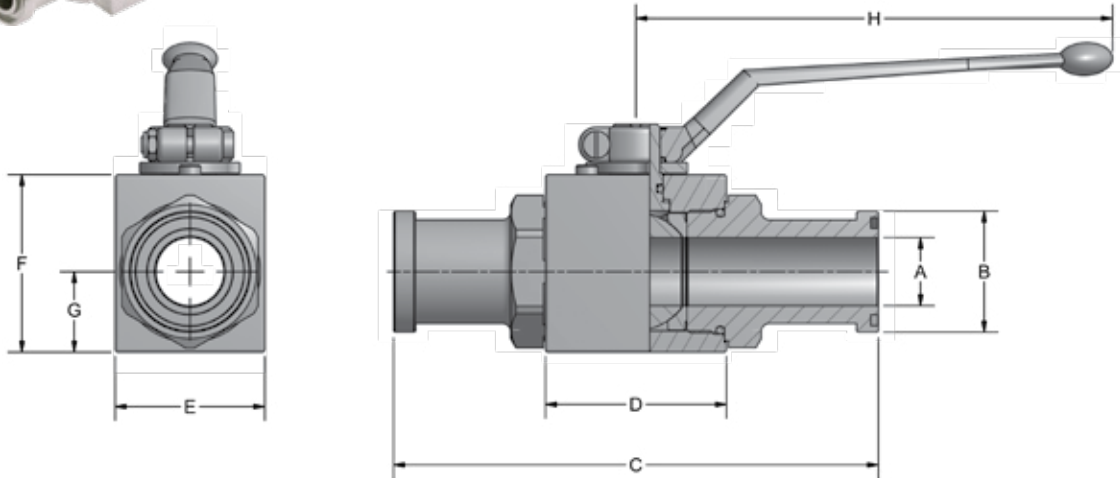


All temperatures are in degrees Fahrenheit.

## AES Series - Two-Way Block Body Flange Head



- Carbon Steel with Zinc Chromate Plating (RoHS Compliant)
- 316 stainless steel available from stock
- POM seats & Buna O-rings standard on carbon steel valves
- Optional seal materials available for extreme temperature applications & fluid compatibility (Consult Factory)



Standard handles supplied are:  
Refer to page 45 for details.

#8                      C1010ZB  
#12 & #16          C1200ZB

| AES SERIES - CODE 61 |         |        |      |      |      |      |      |      |      |         |
|----------------------|---------|--------|------|------|------|------|------|------|------|---------|
| SERIES               | PSI MAX | A BORE | B    | C    | D    | E    | F    | G    | H    | WEIGHT  |
| AES3#8               | 5000    | .51    | 1.19 | 5.96 | 1.91 | 1.46 | 1.70 | .71  | 4.33 | 2.1 LBS |
| AES3#12              | 5000    | .79    | 1.50 | 6.38 | 2.46 | 1.77 | 2.17 | .92  | 7.09 | 3.8 LBS |
| AES3#16              | 5000    | .98    | 1.75 | 7.00 | 2.62 | 2.17 | 2.56 | 1.16 | 7.09 | 5.7 LBS |

| AES SERIES - CODE 62 |         |        |      |      |      |      |      |      |      |         |
|----------------------|---------|--------|------|------|------|------|------|------|------|---------|
| SERIES               | PSI MAX | A BORE | B    | C    | D    | E    | F    | G    | H    | WEIGHT  |
| AES6#8               | 6000    | .51    | 1.24 | 5.96 | 1.91 | 1.46 | 1.70 | .71  | 4.33 | 2.1 LBS |
| AES6#12              | 6000    | .79    | 1.63 | 6.85 | 2.46 | 1.77 | 2.17 | .92  | 7.09 | 4.0 LBS |
| AES6#16              | 5000    | .98    | 1.88 | 7.80 | 2.62 | 2.17 | 2.56 | 1.16 | 7.09 | 6.1 LBS |

# AES Series - Two-Way Block Body Flange Head

## Model Code Breakdown

AES3 #16 - 1 1 D B \_

### VALVE SERIES

|      |         |
|------|---------|
| AES3 | Code 61 |
| AES6 | Code 62 |

### CONNECTION SIZE

### BODY & ADAPTER MATERIAL

|   |                     |
|---|---------------------|
| 1 | Carbon Steel        |
| 2 | 316 Stainless Steel |

### BALL & STEM MATERIAL

|   |                     |
|---|---------------------|
| 1 | Carbon Steel        |
| 2 | 316 Stainless Steel |

**LOCKING KIT OR  
OPTIONAL HANDLE CODE**  
(See pages 44 & 45)

### ADAPTER & STEM SEALS

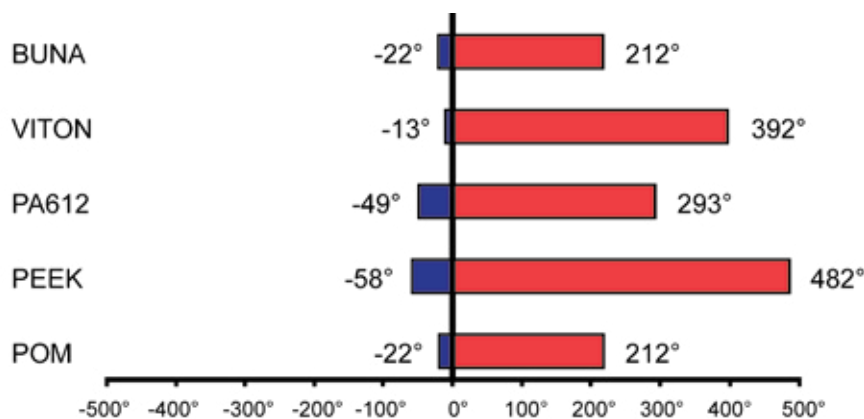
|   |                    |
|---|--------------------|
| B | Buna- Standard     |
| V | Viton (Std on S/S) |

### BALL & STEM SEATS

|   |               |
|---|---------------|
| D | POM- Standard |
| P | PEEK          |

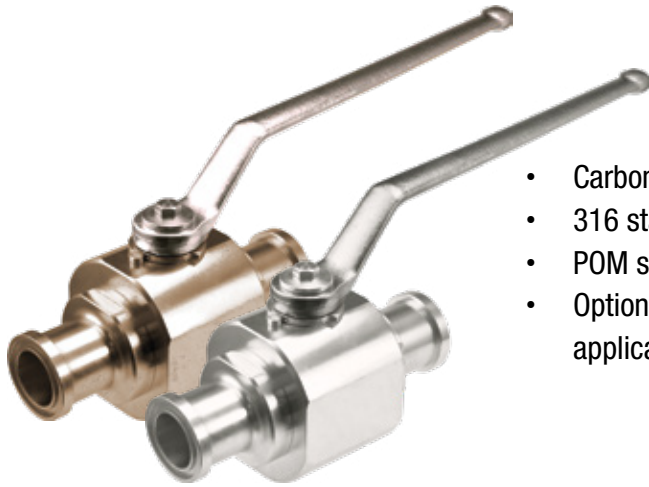
Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

## MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS

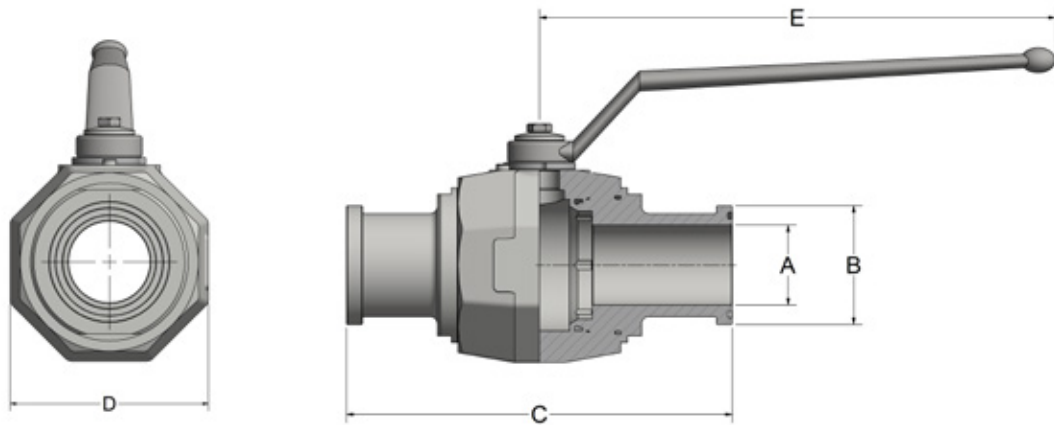


All temperatures are in degrees Fahrenheit.

## ABS Series - Two-Way Round Body Flange Head



- Carbon Steel with Zinc Chromate Plating (RoHS Compliant)
- 316 stainless steel available from stock
- POM seats & Buna O-rings standard on carbon steel valves
- Optional seal materials available for extreme temperature applications & fluid compatibility (Consult Factory)



Standard handle supplied is C92501Z-SW17. Refer to page 45 for details.

| ABS SERIES - CODE 61 |         |        |      |      |      |       |          |
|----------------------|---------|--------|------|------|------|-------|----------|
| SERIES               | PSI MAX | A BORE | B    | C    | D    | E     | WEIGHT   |
| ABS3#20              | 4000    | 1.26   | 2.00 | 7.50 | 3.35 | 11.81 | 12.0 LBS |
| ABS3#24              | 3000    | 1.57   | 2.37 | 9.07 | 4.13 | 11.81 | 18.2 LBS |
| ABS3#32              | 3000    | 1.97   | 2.81 | 9.13 | 4.61 | 11.81 | 21.7 LBS |

| ABS SERIES - CODE 62 |         |        |      |       |      |       |          |
|----------------------|---------|--------|------|-------|------|-------|----------|
| SERIES               | PSI MAX | A BORE | B    | C     | D    | E     | WEIGHT   |
| ABS6#20              | 6000    | 1.26   | 2.13 | 8.78  | 3.35 | 11.81 | 12.8 LBS |
| ABS6#24              | 6000    | 1.57   | 2.50 | 11.06 | 4.13 | 11.81 | 18.2 LBS |
| ABS6#32              | 6000    | 1.97   | 3.13 | 12.44 | 4.61 | 11.81 | 26.0 LBS |



# ABS Series - Two-Way Round Body Flange Head

## Model Code Breakdown

ABS3 #32 - 1 1 D B -

### VALVE SERIES

|      |         |
|------|---------|
| ABS3 | Code 61 |
| ABS6 | Code 62 |

### CONNECTION SIZE

### BODY & ADAPTER MATERIAL

|   |                     |
|---|---------------------|
| 1 | Carbon Steel        |
| 2 | 316 Stainless Steel |

### BALL & STEM MATERIAL

|   |                     |
|---|---------------------|
| 1 | Carbon Steel        |
| 2 | 316 Stainless Steel |

**LOCKING KIT OR  
OPTIONAL HANDLE CODE**  
(See pages 44 & 45)

### ADAPTER & STEM SEALS

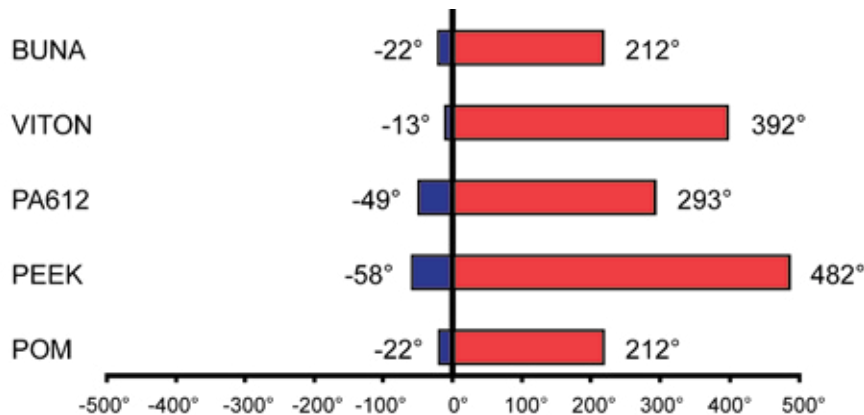
|   |                    |
|---|--------------------|
| B | Buna- Standard     |
| V | Viton (Std on S/S) |

### BALL & STEM SEATS

|   |               |
|---|---------------|
| D | POM- Standard |
| P | PEEK          |

Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

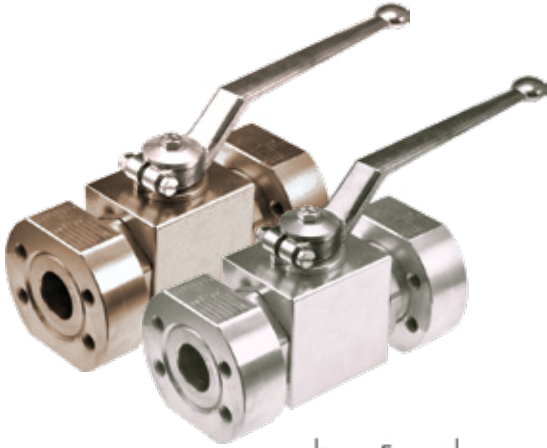
## MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS



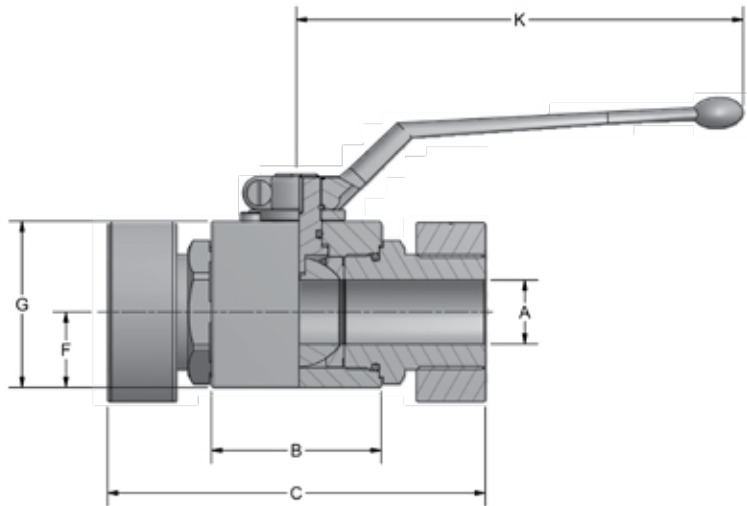
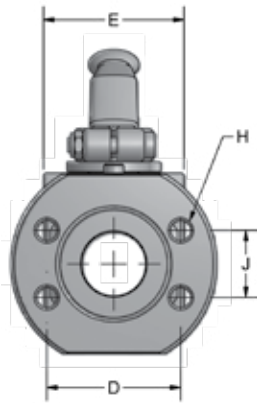
All temperatures are in degrees Fahrenheit.



## AEF Series - Two-Way Block Body Flat Face



- Carbon Steel with Zinc Chromate Plating (RoHS Compliant)
- 316 stainless steel available from stock
- POM seats & Buna O-rings standard on carbon steel valves
- Optional seal materials available for extreme temperature applications & fluid compatibility (Consult Factory)



Standard handles supplied are:  
Refer to page 45 for details.

#8  
#12 - #16

C1010ZB  
C1200ZB

| AEF SERIES - CODE 61 |         |        |      |      |      |      |      |      |             |      |      |         |
|----------------------|---------|--------|------|------|------|------|------|------|-------------|------|------|---------|
| SERIES               | PSI MAX | A BORE | B    | C    | D    | E    | F    | G    | H<br>UNC-2B | J    | K    | WEIGHT  |
| AEF3#8               | 5000    | .51    | 1.91 | 4.72 | 1.50 | 1.46 | .71  | 1.69 | 5/16-18     | .69  | 4.33 | 3.3 LBS |
| AEF3#12              | 5000    | .79    | 2.46 | 5.35 | 1.87 | 1.77 | .92  | 2.17 | 3/8-16      | .87  | 7.09 | 5.7 LBS |
| AEF3#16              | 5000    | .98    | 2.62 | 5.83 | 2.06 | 2.17 | 1.16 | 2.56 | 3/8-16      | 1.03 | 7.09 | 8.6 LBS |

| AEF SERIES - CODE 62 |         |        |      |      |      |      |      |      |             |      |      |         |
|----------------------|---------|--------|------|------|------|------|------|------|-------------|------|------|---------|
| SERIES               | PSI MAX | A BORE | B    | C    | D    | E    | F    | G    | H<br>UNC-2B | J    | K    | WEIGHT  |
| AEF6#8               | 6000    | .51    | 1.91 | 4.72 | 1.59 | 1.46 | .71  | 1.69 | 5/16-18     | .72  | 4.33 | 3.3 LBS |
| AEF6#12              | 6000    | .79    | 2.46 | 5.35 | 2.00 | 1.77 | .92  | 2.17 | 3/8-16      | .94  | 7.09 | 5.7 LBS |
| AEF6#16              | 5000    | .98    | 2.62 | 5.83 | 2.25 | 2.17 | 1.16 | 2.56 | 7/16-14     | 1.09 | 7.09 | 8.6 LBS |

# AEF Series - Two-Way Block Body Flat Face

## Model Code Breakdown

AEF3 #16 - 1 1 D B \_

### VALVE SERIES

|      |         |
|------|---------|
| AEF3 | Code 61 |
| AEF6 | Code 62 |

### CONNECTION SIZE

### BODY & ADAPTER MATERIAL

|   |                     |
|---|---------------------|
| 1 | Carbon Steel        |
| 2 | 316 Stainless Steel |

### BALL & STEM MATERIAL

|   |                     |
|---|---------------------|
| 1 | Carbon Steel        |
| 2 | 316 Stainless Steel |

**LOCKING KIT OR  
OPTIONAL HANDLE CODE**  
(See pages 44 & 45)

### ADAPTER & STEM SEALS

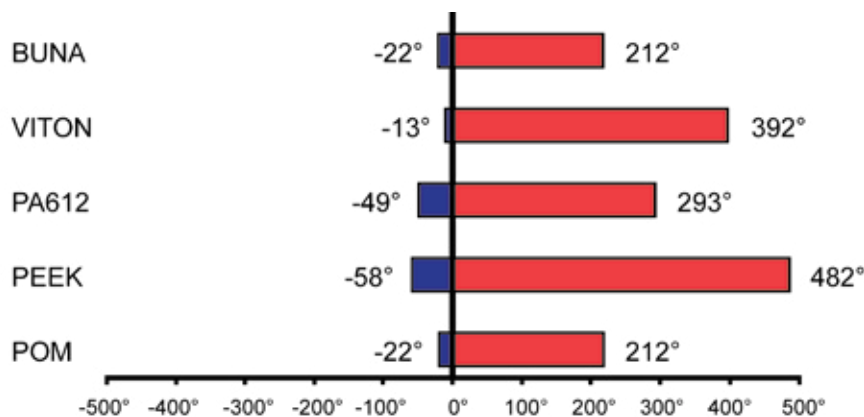
|   |                    |
|---|--------------------|
| B | Buna- Standard     |
| V | Viton (Std on S/S) |

### BALL & STEM SEATS

|   |               |
|---|---------------|
| D | POM- Standard |
| P | PEEK          |

Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

## MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS

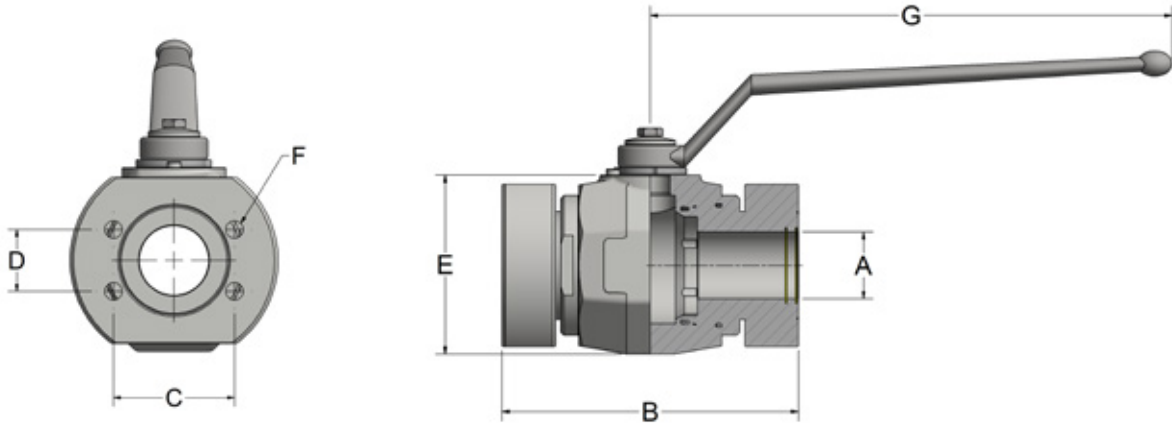


All temperatures are in degrees Fahrenheit.

## ABF Series - Two-Way Rounded Body Flat Face



- Carbon Steel with Zinc Chromate Plating (RoHS Compliant)
- 316 stainless steel available from stock
- POM seats & Buna O-rings standard on carbon steel valves
- Optional seal materials available for extreme temperature applications & fluid compatibility (Consult Factory)



Standard handle supplied is C92501Z-SW17. Refer to page 45 for details.

**ABF SERIES - CODE 61**

| SERIES  | PSI MAX | A BORE | B    | C    | D    | E    | F<br>UNC-2B | G     | WEIGHT   |
|---------|---------|--------|------|------|------|------|-------------|-------|----------|
| ABF3#20 | 4000    | 1.26   | 6.77 | 2.31 | 1.19 | 3.66 | 7/16-14     | 11.81 | 17.9 LBS |
| ABF3#24 | 3000    | 1.57   | 6.95 | 2.75 | 1.41 | 4.21 | 1/2-13      | 11.81 | 24.6 LBS |
| ABF3#32 | 3000    | 1.97   | 7.72 | 3.06 | 1.69 | 4.49 | 1/2-13      | 11.81 | 33.8 LBS |

**ABF SERIES - CODE 62**

| SERIES  | PSI MAX | A BORE | B    | C    | D    | E    | F<br>UNC-2B | G     | WEIGHT   |
|---------|---------|--------|------|------|------|------|-------------|-------|----------|
| ABF6#20 | 6000    | 1.26   | 6.77 | 2.63 | 1.25 | 3.66 | 1/2-13      | 11.81 | 17.9 LBS |
| ABF6#24 | 6000    | 1.57   | 6.95 | 3.13 | 1.44 | 4.21 | 5/8-11      | 11.81 | 24.6 LBS |
| ABF6#32 | 6000    | 1.97   | 7.72 | 3.81 | 1.75 | 4.49 | 3/4-10      | 11.81 | 33.8 LBS |

# ABF Series - Two-Way Rounded Body Flat Face

## Model Code Breakdown

ABF3 #32 - 1 1 D B \_

### VALVE SERIES

|      |         |
|------|---------|
| ABF3 | Code 61 |
| ABF6 | Code 62 |

### CONNECTION SIZE

### BODY & ADAPTER MATERIAL

|   |                     |
|---|---------------------|
| 1 | Carbon Steel        |
| 2 | 316 Stainless Steel |

### BALL & STEM MATERIAL

|   |                     |
|---|---------------------|
| 1 | Carbon Steel        |
| 2 | 316 Stainless Steel |

**LOCKING KIT OR  
OPTIONAL HANDLE CODE**  
(See pages 44 & 45)

### ADAPTER & STEM SEALS

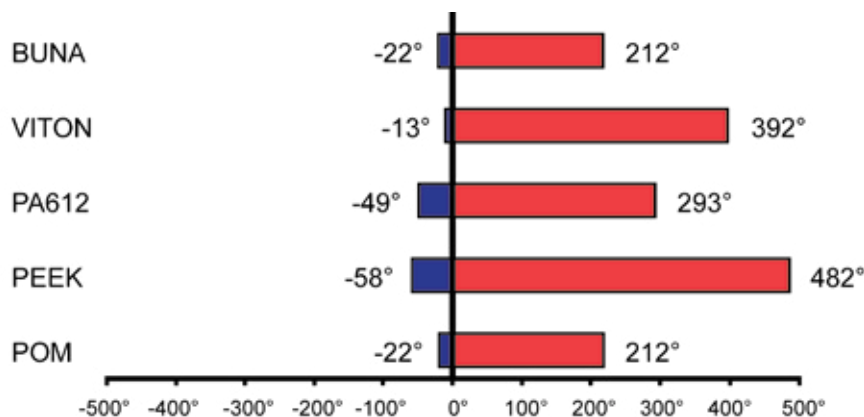
|   |                    |
|---|--------------------|
| B | Buna- Standard     |
| V | Viton (Std on S/S) |

### BALL & STEM SEATS

|   |               |
|---|---------------|
| D | POM- Standard |
| P | PEEK          |

Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

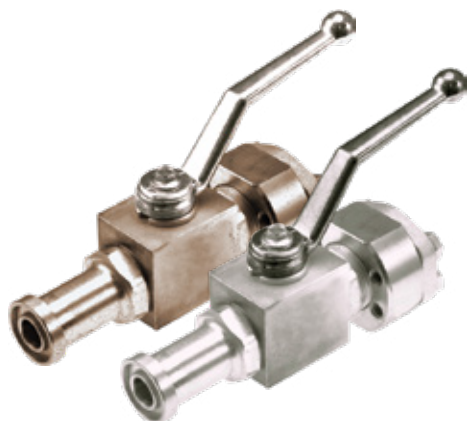
## MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS



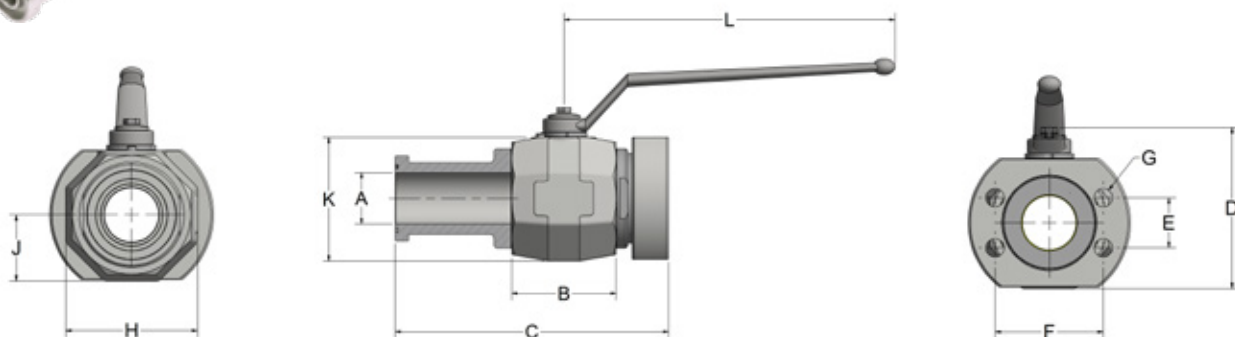
All temperatures are in degrees Fahrenheit.

## AES/F & ABS/F Series

### Flange Head X Flat-Face



- Flange Head X Flat-Face connections for insertion in between existing flange joints
- Ideal for flange mounting anywhere a flange connection exists or where hoses are already connected
- Carbon Steel with Zinc Chromate Plating (RoHS Compliant)
- 316 stainless steel available
- POM seats & Buna O-rings standard on carbon steel valves
- Optional seal materials available for extreme temperature applications & fluid compatibility (Consult Factory)



Standard handles supplied are: #8  
#12 - #16  
Refer to page 45 for details. #20 - #32

C1010ZB  
C1200ZB  
C92501Z-SW17

| AES/F SERIES |         |        |      |     |      |      |      |          |      |      |      |      |
|--------------|---------|--------|------|-----|------|------|------|----------|------|------|------|------|
| SERIES       | PSI MAX | A BORE | B    | C   | D    | E    | F    | G UNC-2B | H    | J    | K    | L    |
| AES/F3#8     | 5000    | .51    | 1.91 | 5.3 | 2.24 | .69  | 1.50 | 5/16-18  | 1.46 | .71  | 1.69 | 4.33 |
| AES/F6#8     | 6000    | .51    | 1.91 | 5.3 | 2.24 | .72  | 1.59 | 5/16-18  | 1.46 | .71  | 1.69 | 4.33 |
| AES/F3#12    | 5000    | .79    | 2.46 | 5.8 | 2.89 | .87  | 1.87 | 3/8-16   | 1.77 | .92  | 2.17 | 7.09 |
| AES/F6#12    | 6000    | .79    | 2.46 | 6.1 | 2.89 | .94  | 2.00 | 3/8-16   | 1.77 | .92  | 2.17 | 7.09 |
| AES/F3#16    | 5000    | .98    | 2.62 | 6.4 | 3.29 | 1.03 | 2.06 | 3/8-16   | 2.17 | 1.16 | 2.56 | 7.09 |
| AES/F6#16    | 5000    | .98    | 2.62 | 6.8 | 3.29 | 1.09 | 2.25 | 7/16-14  | 2.17 | 1.16 | 2.56 | 7.09 |

| ABS/F SERIES |         |        |      |     |      |      |      |          |      |      |      |       |
|--------------|---------|--------|------|-----|------|------|------|----------|------|------|------|-------|
| SERIES       | PSI MAX | A BORE | B    | C   | D    | E    | F    | G UNC-2B | H    | J    | K    | L     |
| ABS/F3#20    | 4000    | 1.26   | 2.95 | 7.2 | 4.23 | 1.19 | 2.31 | 7/16-14  | 3.35 | 1.67 | 3.50 | 12.20 |
| ABS/F6#20    | 6000    | 1.26   | 2.95 | 7.8 | 4.23 | 1.25 | 2.63 | 1/2-13   | 3.35 | 1.67 | 3.50 | 12.20 |
| ABS/F3#24    | 3000    | 1.57   | 3.35 | 8.0 | 4.90 | 1.41 | 2.75 | 1/2-13   | 4.13 | 2.07 | 4.17 | 12.20 |
| ABS/F6#24    | 6000    | 1.57   | 3.35 | 9.0 | 4.90 | 1.44 | 3.13 | 5/8-11   | 4.13 | 2.07 | 4.17 | 12.20 |
| ABS/F3#32    | 3000    | 1.97   | 3.85 | 8.4 | 5.28 | 1.69 | 3.06 | 1/2-13   | 4.61 | 2.30 | 4.55 | 12.20 |
| ABS/F6#32    | 6000    | 1.97   | 3.85 | 9.5 | 5.28 | 1.75 | 3.81 | 3/4-10   | 4.61 | 2.30 | 4.55 | 12.20 |

# AES/F & ABS/F Series

## Flange Head X Flat-Face

### Model Code Breakdown

AES/F3 #8 - 1 1 D B \_

#### VALVE SERIES

|        |                    |
|--------|--------------------|
| AES/F3 | Code 61 Block Body |
| AES/F6 | Code 62 Block Body |
| ABS/F3 | Code 61 Round Body |
| ABS/F6 | Code 62 Round Body |

#### CONNECTION SIZE

#### BODY & ADAPTER MATERIAL

|   |                     |
|---|---------------------|
| 1 | Carbon Steel        |
| 2 | 316 Stainless Steel |

#### BALL & STEM MATERIAL

|   |                     |
|---|---------------------|
| 1 | Carbon Steel        |
| 2 | 316 Stainless Steel |

#### LOCKING KIT OR OPTIONAL HANDLE CODE

(See pages 44 & 45)

#### ADAPTER & STEM SEALS

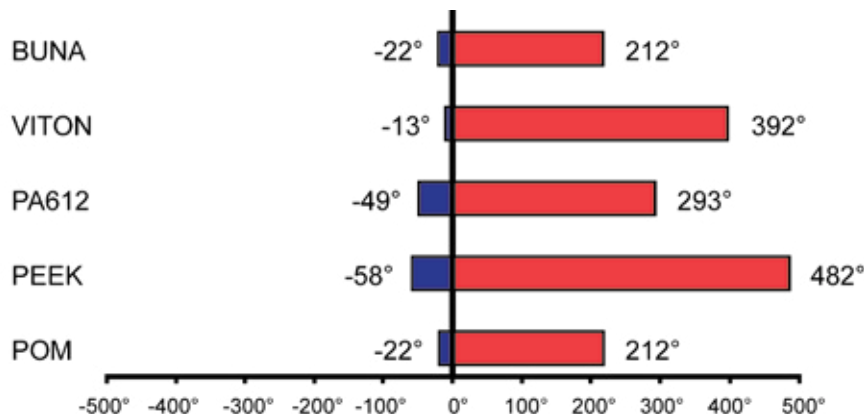
|   |                    |
|---|--------------------|
| B | Buna- Standard     |
| V | Viton (Std on S/S) |

#### BALL & STEM SEATS

|   |               |
|---|---------------|
| D | POM- Standard |
| P | PEEK          |

Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

### MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS

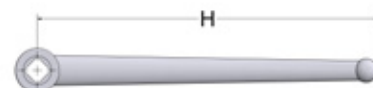
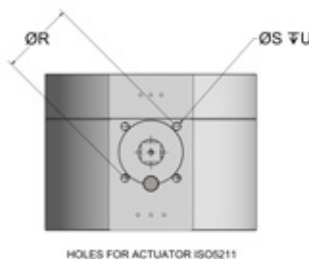
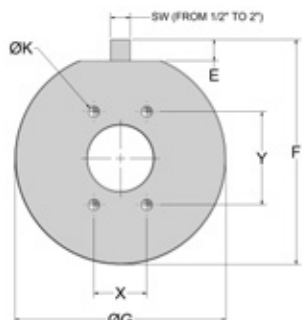
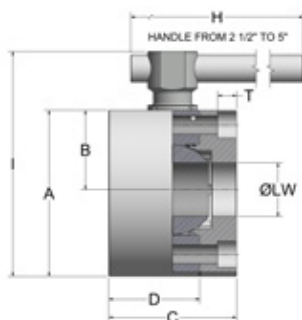


All temperatures are in degrees Fahrenheit.

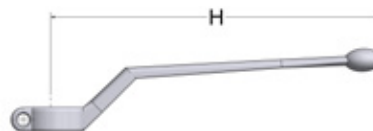
## ARS Series - Two-Way Direct Mount



- Carbon Steel with Zinc Chromate Plating (RoHS Compliant)
- 316 stainless steel available
- POM seats & Buna O-rings standard on carbon steel valves



HANDLE FROM 1/4" TO 2"



HANDLE FROM 1/2" TO 1"

ARS3 SERIES CODE 61

| SERIES  | SIZE   | PSI MAX | A     | B    | C    | D    | E    | F     | G     | H     | I     | Y    | X    | K        | R    | S   | T    | U    | SW   | LW   | WEIGHT    |
|---------|--------|---------|-------|------|------|------|------|-------|-------|-------|-------|------|------|----------|------|-----|------|------|------|------|-----------|
| ARS3#8  | 1/2"   | 3000    | 2.64  | 1.10 | 2.95 | 2.28 | 0.43 | 3.08  | 3.07  | 4.33  | 3.09  | 1.50 | 0.69 | 5/16"-18 | 1.42 | M5  | 0.71 | 0.39 | 0.35 | 0.51 | 5.3 LBS   |
| ARS3#12 | 3/4"   | 3000    | 3.37  | 1.44 | 3.15 | 2.36 | 0.55 | 3.94  | 4.06  | 7.09  | 4.06  | 1.87 | 0.87 | 3/8"-16  | 1.97 | M6  | 0.71 | 0.39 | 0.55 | 0.79 | 8.6 LBS   |
| ARS3#16 | 1"     | 3000    | 3.88  | 1.56 | 3.46 | 2.72 | 0.55 | 4.45  | 4.65  | 7.09  | 5.75  | 2.06 | 1.03 | 3/8"-16  | 1.97 | M6  | 0.75 | 0.39 | 0.55 | 0.98 | 13.9 LBS  |
| ARS3#20 | 1-1/4" | 3000    | 5.65  | 2.79 | 3.94 | 2.87 | 0.55 | 6.38  | 5.71  | 11.81 | 6.73  | 2.31 | 1.19 | 7/16"-14 | 1.97 | M6  | 0.79 | 0.39 | 0.67 | 1.26 | 27.0 LBS  |
| ARS3#24 | 1-1/2" | 3000    | 6.30  | 3.07 | 4.33 | 3.15 | 0.55 | 7.03  | 6.50  | 11.81 | 7.38  | 2.75 | 1.41 | 1/2"-13  | 1.97 | M6  | 0.79 | 0.39 | 0.67 | 1.50 | 37.2 LBS  |
| ARS3#32 | 2"     | 3000    | 7.56  | 3.66 | 4.57 | 3.54 | 0.55 | 8.09  | 7.72  | 11.81 | 8.44  | 3.06 | 1.69 | 1/2"-13  | 2.76 | M8  | 0.79 | 0.39 | 0.67 | 1.89 | 56.5 LBS  |
| ARS3#40 | 2-1/2" | 2500    | 7.80  | 3.66 | 5.91 | 4.21 | 0.81 | 8.35  | 7.99  | 23.62 | 10.24 | 3.50 | 2.00 | 1/2"-13  | 2.76 | M8  | 0.79 | 0.51 | 0.75 | 2.48 | 72.1 LBS  |
| ARS3#48 | 3"     | 2300    | 8.07  | 3.94 | 5.91 | 4.21 | 0.87 | 8.96  | 8.27  | 23.62 | 10.98 | 4.19 | 2.44 | 5/8"-11  | 2.76 | M8  | 0.94 | 0.51 | 0.75 | 2.87 | 80.3 LBS  |
| ARS3#64 | 4"     | 500     | 9.88  | 4.80 | 6.69 | 5.20 | 1.06 | 10.94 | 10.16 | 23.62 | 12.80 | 5.13 | 3.07 | 5/8"-11  | 4.02 | M10 | 0.94 | 0.51 | 0.94 | 3.74 | 135.1 LBS |
| ARS3#80 | 5"     | 500     | 11.34 | 5.51 | 8.27 | 6.30 | 1.38 | 12.68 | 12.20 | 23.62 | 14.67 | 6.00 | 3.63 | 5/8"-11  | 4.92 | M12 | 1.18 | 0.67 | 1.42 | 4.53 | 216.2 LBS |

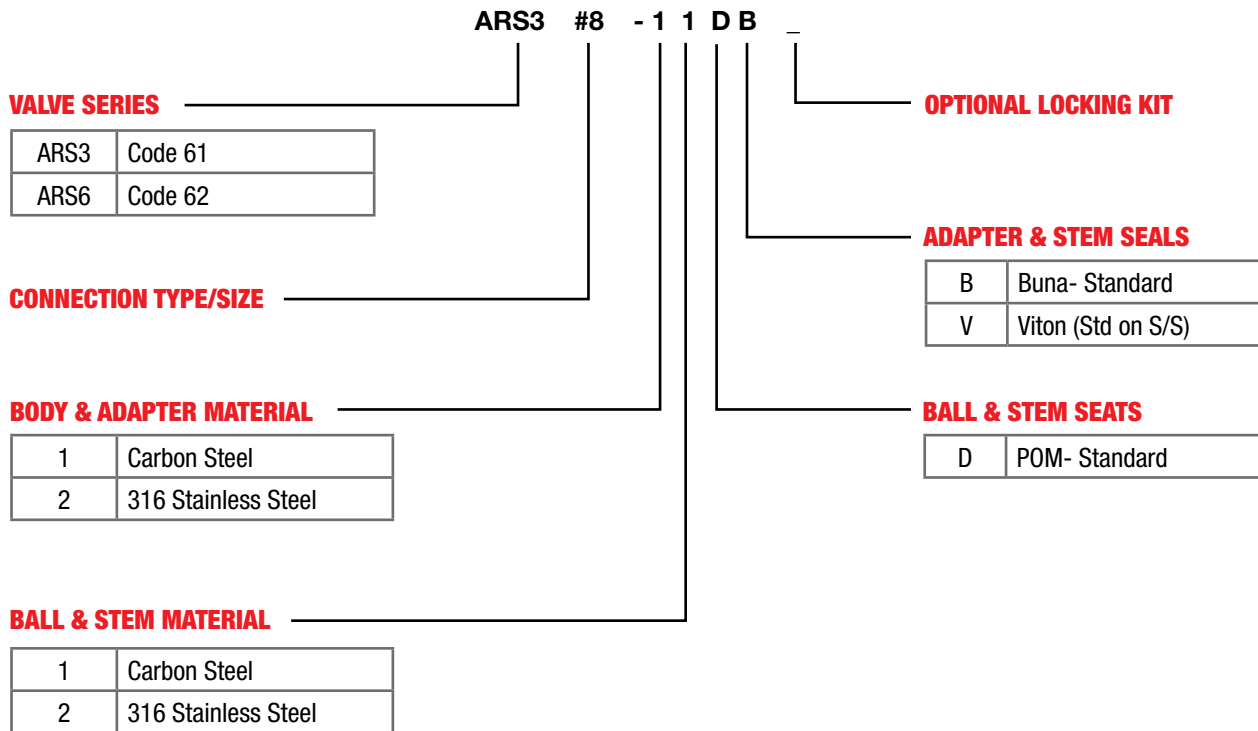
ARS3 SERIES CODE 62

| SERIES  | SIZE   | PSI MAX | A    | B    | C    | D    | E    | F    | G    | H     | I    | Y    | X    | K        | R    | S  | T    | U    | SW   | LW   | WEIGHT    |
|---------|--------|---------|------|------|------|------|------|------|------|-------|------|------|------|----------|------|----|------|------|------|------|-----------|
| ARS6#8  | 1/2"   | 6000    | 2.64 | 1.10 | 2.95 | 2.28 | 0.43 | 3.08 | 3.07 | 4.33  | 3.09 | 1.59 | 0.72 | 5/16"-18 | 1.42 | M5 | 0.71 | 0.39 | 0.35 | 0.51 | 11.7 LBS  |
| ARS6#12 | 3/4"   | 6000    | 3.37 | 1.44 | 3.15 | 2.36 | 0.55 | 3.94 | 4.06 | 7.09  | 4.06 | 2.00 | 0.94 | 3/8"-16  | 1.97 | M6 | 0.71 | 0.39 | 0.55 | 0.79 | 19.0 LBS  |
| ARS6#16 | 1"     | 6000    | 3.88 | 1.56 | 3.46 | 2.72 | 0.55 | 4.45 | 4.65 | 7.09  | 5.75 | 2.25 | 1.09 | 7/16"-14 | 1.97 | M6 | 0.75 | 0.39 | 0.55 | 0.98 | 30.7 LBS  |
| ARS6#20 | 1-1/4" | 6000    | 5.65 | 2.79 | 3.94 | 2.87 | 0.55 | 6.38 | 5.71 | 11.81 | 6.73 | 2.63 | 1.25 | 1/2"-13  | 1.97 | M6 | 0.87 | 0.39 | 0.67 | 1.26 | 59.4 LBS  |
| ARS6#24 | 1-1/2" | 6000    | 6.30 | 3.07 | 4.33 | 3.15 | 0.55 | 7.03 | 6.50 | 11.81 | 7.38 | 3.13 | 1.44 | 5/8"-11  | 1.97 | M6 | 0.87 | 0.39 | 0.67 | 1.50 | 82.0 LBS  |
| ARS6#32 | 2"     | 6000    | 7.56 | 3.66 | 4.57 | 3.54 | 0.55 | 8.09 | 7.72 | 11.81 | 8.44 | 3.81 | 1.75 | 3/4"-10  | 2.76 | M8 | 1.10 | 0.39 | 0.67 | 1.89 | 124.5 LBS |



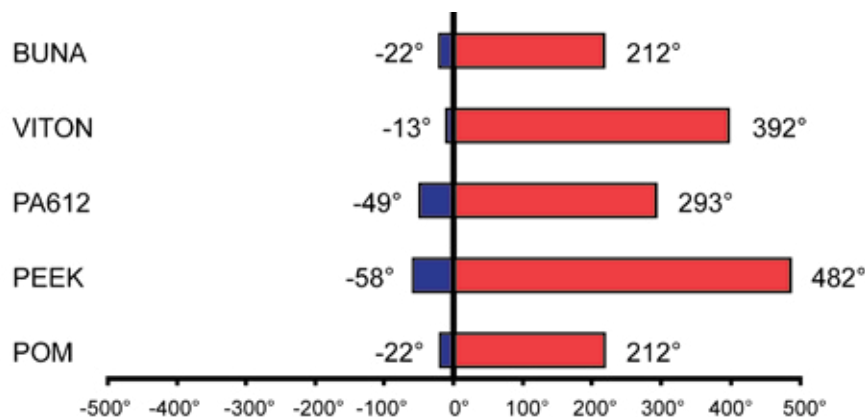
# ARS Series - Two-Way Direct Mount

## Model Code Breakdown



Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

### MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS



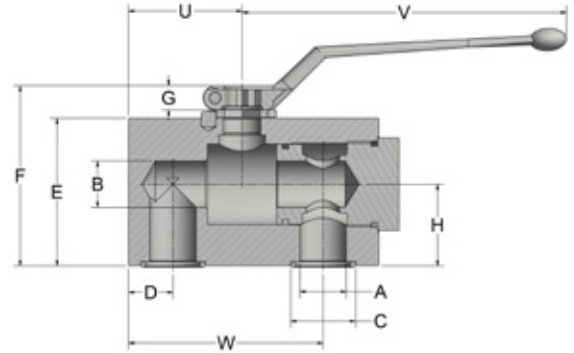
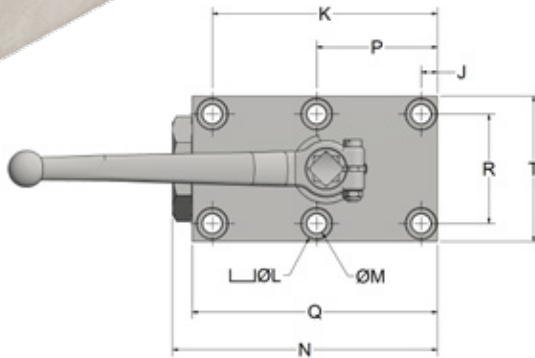
All temperatures are in degrees Fahrenheit.



## APK Series - Two-Way Manifold Mount



- Carbon Steel with Zinc Chromate Plating (RoHS Compliant)
- POM seats & Buna O-rings standard on carbon steel valves
- Optional seal materials available for extreme temperature applications & fluid compatibility (Consult Factory)



Standard handles supplied are: #4 - #8 C1010ZB  
 Refer to page 45 for details. #12 - #16 C1200ZB  
 #20 - #24 C92501Z

| APK SERIES |         |      |      |       |      |      |      |     |      |
|------------|---------|------|------|-------|------|------|------|-----|------|
| SERIES     | PSI MAX | A    | B    | C     | D    | E    | F    | G   | H    |
| APK2 #4    | 7250    | .24  | .24  | .464  | .37  | 1.38 | 1.67 | .30 | .89  |
| APK2 #6    | 7250    | .39  | .39  | .586  | .39  | 1.77 | 2.32 | .43 | .89  |
| APK2 #8    | 5800    | .51  | .51  | .980  | .71  | 2.17 | 2.72 | .43 | 1.18 |
| APK2 #12   | 5075    | .79  | .79  | 1.141 | .83  | 2.76 | 3.48 | .55 | 1.52 |
| APK2 #16   | 5075    | .98  | .98  | 1.374 | .94  | 3.13 | 3.86 | .55 | 1.73 |
| APK2 #20   | 5075    | 1.26 | 1.26 | 1.562 | 1.10 | 4.15 | 4.88 | .55 | 2.31 |
| APK2 #24   | 5075    | 1.46 | 1.57 | 1.877 | 1.14 | 4.53 | 5.26 | .55 | 2.41 |

| APK SERIES (CONT'D) |       |      |      |      |      |      |      |       |      |      |       |      |
|---------------------|-------|------|------|------|------|------|------|-------|------|------|-------|------|
| SERIES              | J     | K    | L    | M    | N    | P    | Q    | R     | T    | U    | V     | W    |
| APK2 #4             | .354  | 1.73 | .413 | .255 | 2.54 | *N/A | 2.28 | 1.062 | 1.57 | 1.04 | 4.33  | 1.75 |
| APK2 #6             | .295  | 2.46 | .531 | .334 | 3.13 | *N/A | 2.76 | 1.574 | 2.17 | 1.13 | 4.33  | 2.12 |
| APK2 #8             | .374  | 3.64 | .531 | .334 | 4.35 | 2.00 | 3.94 | 1.771 | 2.36 | 1.73 | 4.33  | 2.99 |
| APK2 #12            | .452  | 4.27 | .649 | .413 | 5.08 | 2.36 | 4.65 | 2.007 | 2.76 | 2.05 | 7.09  | 3.54 |
| APK2 #16            | .354  | 4.88 | .649 | .413 | 5.74 | 2.62 | 5.31 | 2.362 | 3.15 | 2.41 | 7.09  | 4.13 |
| APK2 #20            | .433  | 5.79 | .748 | .511 | 7.22 | 3.11 | 6.50 | 3.070 | 3.94 | 2.91 | 11.81 | 4.88 |
| APK2 #24            | 1.141 | 5.55 | .984 | .649 | 7.93 | 3.35 | 7.28 | 3.740 | 5.12 | 3.35 | 11.81 | 5.55 |

\*Valve sizes #4 & #6 only have (4) mounting holes.



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 sales@anchorfluidpower.com | anchorfluidpower.com

# APK Series - Two-Way Manifold Mount

## Model Code Breakdown

APK2 #20 - 1 1 D B

### VALVE SERIES

|      |                      |
|------|----------------------|
| APK2 | Manifold Mount 2-way |
|------|----------------------|

### CONNECTION SIZE

|    |      |
|----|------|
| 20 | 1/2" |
|----|------|

### BODY & ADAPTER MATERIAL

|   |              |
|---|--------------|
| 1 | Carbon Steel |
|---|--------------|

### BALL & STEM MATERIAL

|   |              |
|---|--------------|
| 1 | Carbon Steel |
|---|--------------|

### ADAPTER & STEM SEALS

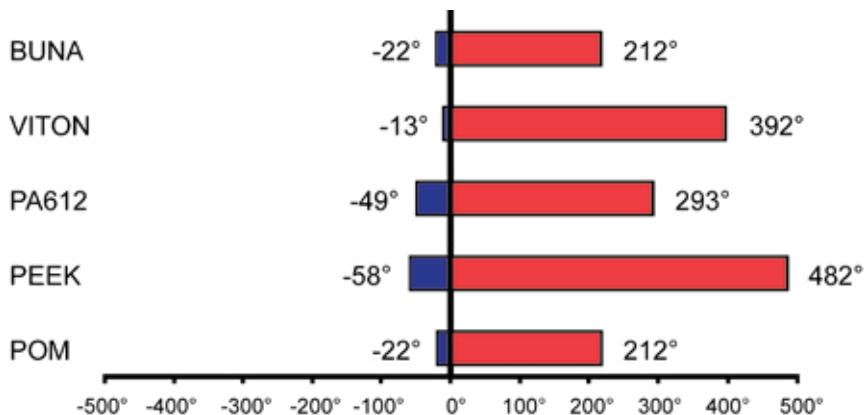
|   |                |
|---|----------------|
| B | Buna- Standard |
| V | Viton          |

### BALL & STEM SEATS

|   |               |
|---|---------------|
| D | POM- Standard |
| P | PEEK          |

Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

### MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS



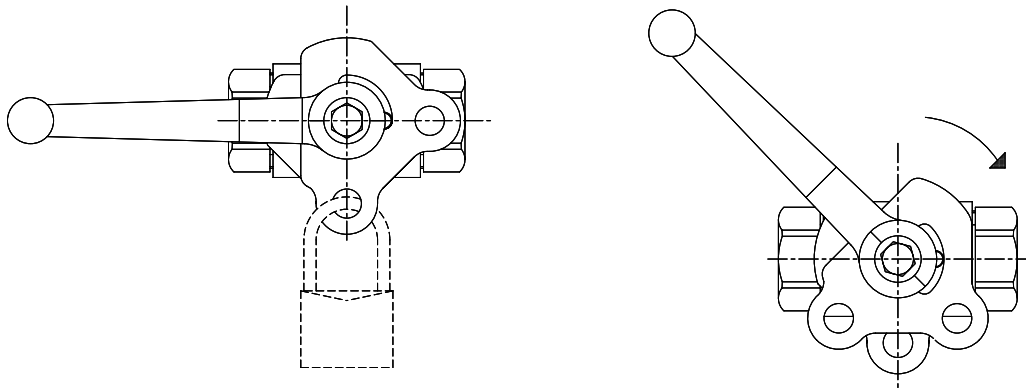
All temperatures are in degrees Fahrenheit.

## Locking Kits

| LOCKING KITS AVAILABLE FROM STOCK |             |                 |         |
|-----------------------------------|-------------|-----------------|---------|
| PART NUMBER                       | VALVE SIZE  | MATERIAL        | SUFFIX* |
| LK6                               | 1/8" - 1/2" | CARBON STEEL    | L       |
| LK20                              | 3/4" - 1"   | CARBON STEEL    | L       |
| LK32                              | 1 1/4" - 2" | CARBON STEEL    | L       |
| LK6-S/S                           | 1/8" - 1/2" | STAINLESS STEEL | L       |
| LK20-S/S                          | 3/4" - 1"   | STAINLESS STEEL | L       |
| LK32-S/S                          | 1 1/4" - 2" | STAINLESS STEEL | L       |

\*Add this suffix to the end of the valve part # to receive the corresponding locking kit for that size valve- installed at the factory. Carbon steel valves receive carbon steel locking kits. Stainless steel valves receive stainless locking kits.

"L" Style Lock



# Handles

## HANDLES FOR 1/8" THROUGH 1/2" VALVES



**C0020ZB**  
Zinc Alloy  
Fits 1/8" - 1/2" Valves  
5 - 7/8" Long  
Code "A"



**C1010ZB**  
Zinc Alloy  
Fits 1/8" - 1/2" Valves  
4 - 1/4" Long



**C10106H**  
Stainless Steel  
Fits 1/8" - 1/2" Valves  
4 - 1/4" Long  
Code "C"

## HANDLES FOR 3/4" THROUGH 1" VALVES



**C1200ZB**  
Zinc Alloy  
Fits 3/4" - 1" Valves  
7" Long  
Code "Z"



**C69206H**  
Stainless Steel  
Fits 3/4" - 1" Valves  
7 - 7/8" Long  
Code "W"



**C2950AV**  
Aluminum  
Fits 3/4" - 1" Valves  
8" Long  
Code "Y"

## HANDLES FOR 1 1/4" THROUGH 2" VALVES



**C81306H-SW17**  
Stainless Steel  
Fits 1 1/4" - 2" Valves  
11 - 3/4" Long  
Code "F"



**C81302B-SW17**  
Carbon Steel  
Fits 1 1/4" - 2" Valves  
11 - 3/4" Long  
Code "E"



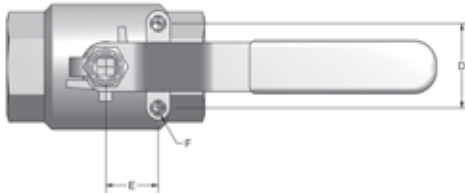
**C92506H-SW17**  
Stainless Steel  
Fits 1 1/4" - 2" Valves  
12 - 1/8" Long  
Code "J"



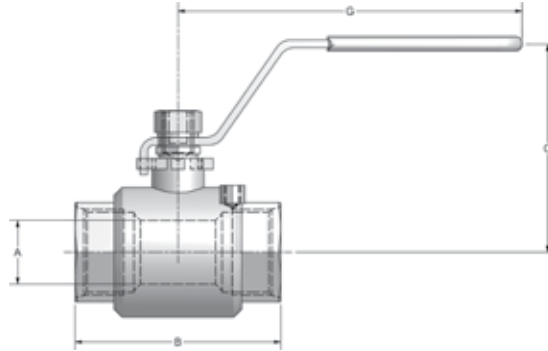
**C92501Z-SW17**  
Carbon Steel  
Fits 1 1/4" - 2" Valves  
12 - 1/8" Long  
Code "H"

Dimensions are approximate and are subject to change without notice. For exact dimensional info, please consult the factory with the specific handle part #.

## LV2B Series - 1000 WOG Stainless Steel



- All stainless steel construction
- Locking handles standard
- Ideal for suction, pressure and return lines
- Available in NPT & SAE threads
- Mounting holes standard on SAE #16 - #64



**MODEL CODE:**

**LV2B N 1/2" -2T**

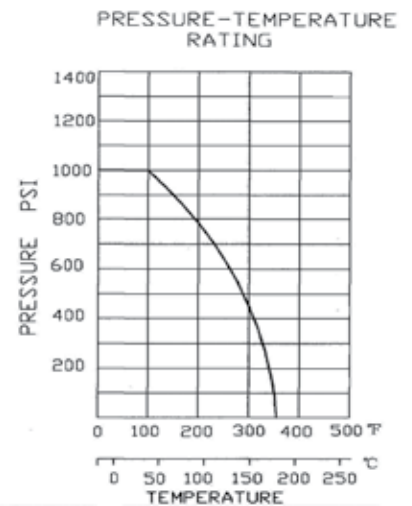
**THREAD TYPE (N-NPT; S-SAE)**

**THREAD SIZE (EX. N1/2"; S#8)**

| LV2B SERIES - NPT |      |      |      |      |      |          |      |
|-------------------|------|------|------|------|------|----------|------|
| SIZE              | A    | B    | C    | D    | E    | F<br>UNC | G    |
| 1/4"              | .36  | 2.13 | 2.13 | 1.12 | .49  | N/A      | 4.33 |
| 3/8"              | .50  | 2.13 | 2.17 | 1.12 | .49  | N/A      | 4.33 |
| 1/2"              | .59  | 2.24 | 2.28 | 1.12 | .49  | N/A      | 4.53 |
| 3/4"              | .79  | 2.68 | 2.40 | 1.12 | .49  | N/A      | 4.53 |
| 1"                | .98  | 3.15 | 3.03 | 1.38 | .91  | N/A      | 5.04 |
| 1-1/4"            | 1.26 | 3.58 | 3.19 | 1.48 | 1.00 | N/A      | 5.04 |
| 1-1/2"            | 1.50 | 4.06 | 3.54 | 1.48 | 1.00 | N/A      | 6.10 |
| 2"                | 1.97 | 4.88 | 4.25 | 1.50 | 1.00 | N/A      | 6.10 |
| 2-1/2"            | 2.56 | 6.30 | 5.20 | N/A  | N/A  | N/A      | 9.06 |
| 3"                | 3.15 | 7.28 | 5.71 | N/A  | N/A  | N/A      | 9.06 |

| LV2B SERIES - SAE |      |      |      |      |      |          |       |
|-------------------|------|------|------|------|------|----------|-------|
| SIZE              | A    | B    | C    | D    | E    | F<br>UNC | G     |
| #4                | .35  | 2.40 | 2.13 | 1.12 | .49  | N/A      | 4.33  |
| #6                | .47  | 2.40 | 2.17 | 1.12 | .49  | N/A      | 4.33  |
| #8                | .59  | 2.52 | 2.28 | 1.12 | .49  | N/A      | 4.53  |
| #12               | .79  | 3.23 | 2.40 | 1.12 | .49  | N/A      | 4.53  |
| #16               | .98  | 3.62 | 3.03 | 1.38 | .91  | 1/4-20   | 5.04  |
| #20               | 1.26 | 3.96 | 3.19 | 1.48 | 1.00 | 1/4-20   | 5.04  |
| #24               | 1.50 | 4.23 | 3.54 | 1.48 | 1.00 | 1/4-20   | 6.10  |
| #32               | 1.97 | 4.90 | 4.25 | 1.50 | 1.00 | 1/4-20   | 6.10  |
| #40               | 2.56 | 6.30 | 5.20 | 2.25 | 1.18 | 1/4-20   | 9.06  |
| #48               | 3.15 | 7.28 | 5.71 | 2.76 | 1.18 | 1/4-20   | 9.06  |
| #64               | 3.93 | 8.80 | 7.11 | 2.76 | 1.18 | 1/4-20   | 13.00 |

| COMPONENT MATERIALS |                   |     |
|---------------------|-------------------|-----|
| COMPONENT           | MATERIAL          | QTY |
| VALVE BODY          | ASTM A351 GR CF8M | 1   |
| TAILPIECE           | ASTM A351 GR CF8M | 1   |
| BALL                | ASTM A351 GR CF8M | 1   |
| STEM                | 316               | 1   |
| BALL SEAT           | PTFE              | 2   |
| STEM SEAT           | PTFE              | 1   |
| STEM PACKING        | PTFE              | 1   |
| STEM GLAND          | 304               | 1   |
| HANDLE              | 304               | 1   |
| STEM LOCK WASHER    | 304               | 1   |
| STEM NUT            | 304               | 1   |
| HANDLE SLEEVE       | VINYL             | 1   |
| LOCK                | 304               | 1   |



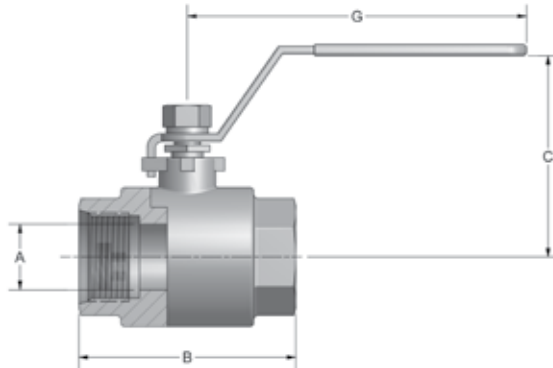
\* 4"SAE - 500 PSI max for LV2BS#64-2T-MH

\*\* For WOG Accessories refer to page 84

# MV2B Series - 2000 WOG Stainless Steel



- All stainless steel construction
- Locking handles standard
- Ideal for suction, pressure and return lines
- Available in NPT & SAE threads



| MV2B SERIES - NPT |      |      |      |      |
|-------------------|------|------|------|------|
| SIZE              | A    | B    | C    | G    |
| 1/4"              | .36  | 2.13 | 2.13 | 4.33 |
| 3/8"              | .50  | 2.13 | 2.17 | 4.33 |
| 1/2"              | .59  | 2.24 | 2.28 | 4.53 |
| 3/4"              | .79  | 2.76 | 2.40 | 4.53 |
| 1"                | .98  | 3.25 | 3.03 | 5.04 |
| 1-1/4"            | 1.26 | 3.58 | 3.19 | 5.04 |
| 1-1/2"            | 1.50 | 4.06 | 3.54 | 6.10 |
| 2"                | 1.97 | 4.90 | 4.25 | 6.10 |

| MV2B SERIES - SAE |      |      |      |      |
|-------------------|------|------|------|------|
| SIZE              | A    | B    | C    | G    |
| #4                | .35  | 2.40 | 2.13 | 4.33 |
| #6                | .47  | 2.40 | 2.17 | 4.33 |
| #8                | .59  | 2.52 | 2.28 | 4.53 |
| #12               | .79  | 3.23 | 2.40 | 4.53 |
| #16               | .98  | 3.62 | 3.03 | 5.04 |
| #20               | 1.26 | 3.96 | 3.19 | 5.04 |
| #24               | 1.50 | 4.23 | 3.54 | 6.10 |
| #32               | 1.97 | 4.90 | 4.25 | 6.10 |

MODEL CODE:

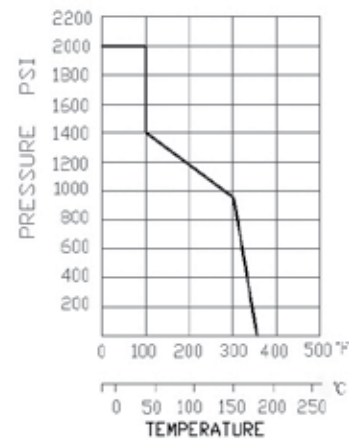
**MV2B N 1/2" -2T**

THREAD TYPE (N-NPT; S-SAE)

THREAD SIZE (EX. N1/2"; S#8)

| COMPONENT MATERIALS |                   |     |
|---------------------|-------------------|-----|
| COMPONENT           | MATERIAL          | QTY |
| VALVE BODY          | ASTM A351 GR CF8M | 1   |
| TAILPIECE           | ASTM A351 GR CF8M | 1   |
| BALL                | ASTM A351 GR CF8M | 1   |
| STEM                | 316               | 1   |
| BALL SEAT           | PTFE              | 2   |
| STEM SEAT           | PTFE              | 1   |
| STEM PACKING        | PTFE              | 1   |
| STEM GLAND          | 304               | 1   |
| HANDLE              | 304               | 1   |
| STEM LOCK WASHER    | 304               | 1   |
| STEM NUT            | 304               | 1   |
| HANDLE SLEEVE       | VINYL             | 1   |
| LOCK                | 304               | 1   |

PRESSURE-TEMPERATURE RATING



# QUICK COUPLINGS



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|                                  |           |
|----------------------------------|-----------|
| <b>Standard Quick Couplings</b>  | <b>50</b> |
| <b>Specialty Quick Couplings</b> | <b>51</b> |
| <b>Clean Break Couplings</b>     | <b>53</b> |
| <b>Dust Caps &amp; Plugs</b>     | <b>54</b> |

- Connection solutions from quick connect mono-couplings to multi-coupling systems.
- Applications including but not limited to automation, oil and gas, automotive, medical, aerospace and steel industries.
- Operating pressures ranging up to 43,500 psi.
- Many different end connections, materials and seals offered as standard options with custom/special options available upon request.



# QUICK COUPLINGS

## STANDARD COUPLINGS

### Miniature Couplings for Low Pressure

Type 06-003, 07-003



|                                        |                                                                                       |
|----------------------------------------|---------------------------------------------------------------------------------------|
| AREAS OF APPLICATION                   | Pneumatic, chemical and pharmaceutical, medical and laboratory                        |
| MEDIA                                  | Water, compressed air, fuel, technical gases, acids and alkalines, other fluids       |
| FEATURES                               | Partially squirt-free, automatic lock, protection caps and plugs*, one-hand operation |
| SIZE (MM)                              | 2.5, 3                                                                                |
| HOUSING MATERIALS                      | Nickel-plated brass, stainless steel 1.4404 / 1.4571 (AISI 316 L / 316 Ti)            |
| MAX. STATIC WORKING PRESSURE CONNECTED | Up to 2,900 psi*, for negative pressure when connected                                |
| VALVE SYSTEMS AVAILABLE                | • Both sides self sealing • One side self sealing • Through type                      |

### Low Pressure Universal Couplings

Series LP + SP



|                                        |                                                                                                                                       |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| AREAS OF APPLICATION                   | Pneumatic, general engineering and systems constructions, chemical and pharma industry, medical and laboratory technology             |
| MEDIA                                  | Water, compressed air, fuel, lubricants and oils, technical gases, acids and alkalines, other fluids                                  |
| FEATURES                               | Partially squirt free, axial safety lock* (SI), locking aid, automatic lock (for some sizes), ring grips*, protection caps and plugs* |
| SIZE (MM)                              | 3, 4, 6, 7, 9, 12, 19, 32, 50                                                                                                         |
| HOUSING MATERIALS                      | Zinc-plated steel, passivated brass, chrome-plated brass, stainless steel 1.4404/1.4571 (AISI 316 L/316 Ti) or equivalent             |
| MAX. STATIC WORKING PRESSURE CONNECTED | Up to 2,900 psi*, for negative pressure when connected (except n. b. 32 / 50)                                                         |
| VALVE SYSTEMS AVAILABLE                | • Both sides self sealing • One side self sealing • Through type                                                                      |

### Low Pressure Plastic Couplings

Series KL



|                                        |                                                                                                          |
|----------------------------------------|----------------------------------------------------------------------------------------------------------|
| AREAS OF APPLICATION                   | Air and liquid applications, Battery filling, Medical industry, Chemical industry, Laboratory technology |
| MEDIA                                  | Water, air, weak acids and alkalines                                                                     |
| FEATURES                               | Low weight, axial safety lock (SI)*, weather and corrosion resistant, protection caps and plugs*         |
| SIZE (MM)                              | 6, 12, 30                                                                                                |
| HOUSING MATERIALS                      | PA 11 / 12, PP, POM                                                                                      |
| MAX. STATIC WORKING PRESSURE CONNECTED | Up to 175* psi                                                                                           |
| VALVE SYSTEMS AVAILABLE                | • Both sides self sealing • One side self sealing • Through type                                         |

### Non-interchangeable Low Pressure Couplings

Series UF



|                                        |                                                                                                            |
|----------------------------------------|------------------------------------------------------------------------------------------------------------|
| AREAS OF APPLICATION                   | Technical gases, to differentiate supply and return lines, controls, welding gas connections               |
| MEDIA                                  | Water, fluids, compressed air, technical gases (nitrogen, oxygen, etc), fuel gas                           |
| FEATURES                               | Non-interchangeable triangular or square profile, axial safety lock (SI)*, ring grips*, protection caps*   |
| SIZE (MM)                              | 6, 7, 12, 19, 32                                                                                           |
| HOUSING MATERIALS                      | Passivated brass, chrome-plated brass, stainless steel 1.4404 / 1.4571 (AISI 316 L / 316 Ti) or equivalent |
| MAX. STATIC WORKING PRESSURE CONNECTED | Up to 580 psi*, for negative pressure when connected (excepted n. b. 32)                                   |
| VALVE SYSTEMS AVAILABLE                | • Both sides self sealing • One side self sealing • Through type                                           |

**ANCHOR  
FLUID POWER**

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\*Dependent on chosen materials and seals. \*Feature is optional, consult factory for details.

## Couplings for Medium Pressure

Series MD



|                                        |                                                                                                                                           |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| AREAS OF APPLICATION                   | Engineering, hydraulic controls, hydraulic tools, general line extension, fuel lines, test connections for vehicle hydraulics, autoclaves |
| MEDIA                                  | Hydraulic fluids, water, acids and alkalines, steam, gases                                                                                |
| FEATURES                               | Axial safety locking*, ring grips*, pressure-tight protection cap*                                                                        |
| SIZE (MM)                              | 6, 7, 12, 19, 25, 32, 50                                                                                                                  |
| HOUSING MATERIALS                      | Zinc-plated steel / oil- burnished steel, passivated brass, stainless steel 1.4404/1.4571 (AISI 316 L/316 Ti) or equivalent               |
| MAX. STATIC WORKING PRESSURE CONNECTED | Up to 3,625 psi*, for negative pressure when connected                                                                                    |
| VALVE SYSTEMS AVAILABLE                | Both sides self sealing, one side self sealing, through type                                                                              |

## Couplings for High Pressure

Series HP



|                                        |                                                                                                                                                                                       |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AREAS OF APPLICATION                   | High pressure hydraulics, engineering, autoclaves, high pressure test benches, hydraulic clamping, offshore applications, core pulling hydraulics, nuclear power stations, steel work |
| MEDIA                                  | Hydraulic liquids, chemical substances, water, gases                                                                                                                                  |
| FEATURES                               | Highest pressure resistance, robust construction, radial protection against vibration, axial safety lock (Sl)*, ring valves*                                                          |
| SIZE (MM)                              | 2.5, 4, 6, 10, 16, 20, 32, 50                                                                                                                                                         |
| HOUSING MATERIALS                      | Oil-burnished steel, stainless steel 1.4404 /1.4571/1.4418 (AISI 316 L /316 Ti) or equivalent                                                                                         |
| MAX. STATIC WORKING PRESSURE CONNECTED | Up to 29,000 psi*, for negative pressure when connected (higher pressures upon request)                                                                                               |
| VALVE SYSTEMS AVAILABLE                | Both sides self sealing, one side self sealing, through type, ring valves                                                                                                             |

## SPECIALTY COUPLINGS

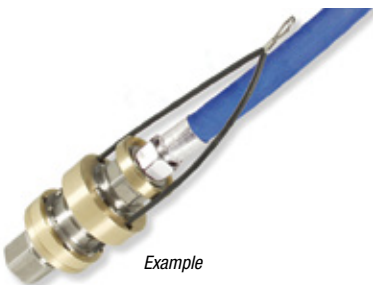
### Compressed Air Tool Couplings

Series LT



|                                        |                                                                                            |
|----------------------------------------|--------------------------------------------------------------------------------------------|
| AREAS OF APPLICATION                   | Tool connection, vehicle assembly                                                          |
| MEDIA                                  | Compressed air                                                                             |
| FEATURES                               | Low weight, high flow rate, connectable with different adaptor systems, scratch protection |
| SIZE (MM)                              | 6.5, 9, 11                                                                                 |
| HOUSING MATERIALS                      | Impact-resistant plastic/hard-coated aluminium                                             |
| MAX. STATIC WORKING PRESSURE CONNECTED | Up to 170 psi*                                                                             |
| VALVE SYSTEMS AVAILABLE                | One side self sealing                                                                      |

### Emergency-Release Couplings



|                                        |                                                                                                                                                       |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| AREAS OF APPLICATION                   | For almost all series: filling and emptying of tank facilities, filling of speciality chemicals, vapor recovery pipes, loading technology rail/road   |
| MEDIA                                  | Light acids and alkalines, speciality chemicals, fuels                                                                                                |
| FEATURES                               | Non-destructive separation of the line when exceeding a maximum permissible tensile force, again available immediately, separation forces from 160 N* |
| SIZE (MM)                              | 6 - 65                                                                                                                                                |
| HOUSING MATERIALS                      | Steel chemically nickel-plated, passivated brass, hard-coated aluminium, stainless steel 1.440/1.4571 (AISI 316 L/316 Ti)                             |
| MAX. STATIC WORKING PRESSURE CONNECTED | Up to 22,900 psi*                                                                                                                                     |
| VALVE SYSTEMS AVAILABLE                | One or both-sides self sealing clean break technology (minimal loss or ingress during operation)                                                      |

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\*Dependent on chosen materials and seals. \*Feature is optional, consult factory for details.

# QUICK COUPLINGS

## Dialysis Couplings

Type 22-006



|                                        |                                                                                               |
|----------------------------------------|-----------------------------------------------------------------------------------------------|
| AREAS OF APPLICATION                   | Medical technology, connection to dialysis appliances and dialysis filters                    |
| MEDIA                                  | Water, sterilization substances                                                               |
| FEATURES                               | Connectable with internationally standardized adaptors, FDA approved materials, easy cleaning |
| SIZE (MM)                              | 6                                                                                             |
| HOUSING MATERIALS                      | Polypropylene, PVDF, stainless steel 1.4404 /1.4571 (AISI 316 L /316 Ti) or equivalent        |
| MAX. STATIC WORKING PRESSURE CONNECTED | Up to 87 psi*                                                                                 |
| VALVE SYSTEMS AVAILABLE                | One-sided self sealing, through type                                                          |

## High Temperature Couplings

Series 11



|                                        |                                                                                                                                          |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| AREAS OF APPLICATION                   | Heating systems, mold heating, heat transfer systems                                                                                     |
| MEDIA                                  | Thermal oil up to 590 °F                                                                                                                 |
| FEATURES                               | Squirt-free, double lever lock, designed to tolerate heavy contamination, special seals, isolated grips and buttons. Hand grip optional. |
| SIZE (MM)                              | 12, 19                                                                                                                                   |
| HOUSING MATERIALS                      | Heat resistant and burnished steel                                                                                                       |
| MAX. STATIC WORKING PRESSURE CONNECTED | Up to 230 psi*                                                                                                                           |
| VALVE SYSTEMS AVAILABLE                | Both sides self sealing                                                                                                                  |

## Couplings for Cryogenics

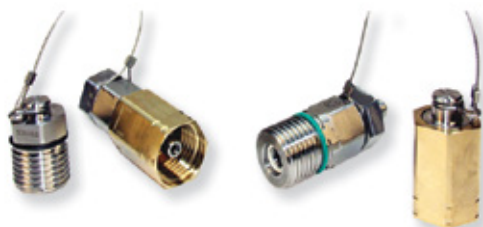
Series TT (WALcryo)



|                                        |                                                                                                                                                         |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| AREAS OF APPLICATION                   | Cryogenic applications: research, development and laboratory technology, recycling, production engineering, plastic processing, food industry, medicine |
| MEDIA                                  | Cryogenic substances e.g. liquid nitrogen down to -196 °C                                                                                               |
| FEATURES                               | TT-009: Automatic lock by bajonet TT-013: Automatic lock with double lever locking                                                                      |
| SIZE (MM)                              | 9, 13                                                                                                                                                   |
| HOUSING MATERIALS                      | Plastic, brass and stainless steel                                                                                                                      |
| MAX. STATIC WORKING PRESSURE CONNECTED | Up to 230 psi*                                                                                                                                          |
| VALVE SYSTEMS AVAILABLE                | Through type, one side self sealing, n. b. 13 both sides self sealing                                                                                   |

## High Pressure Screw Type Couplings

Series SH



|                                        |                                                                                                                                                                             |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AREAS OF APPLICATION                   | For offshore applications, diver operated                                                                                                                                   |
| MEDIA                                  | Hydraulic liquids, water-soluble emulsions                                                                                                                                  |
| FEATURES                               | Version -Y44: for hose extension, version -Y45: for panel mounting, connection/disconnection under pressure, squirt-free, bulkhead mounting available, pressure tight caps* |
| SIZE (MM)                              | 6, 10, 16, 25                                                                                                                                                               |
| HOUSING MATERIALS                      | Stainless steel 1.4404 (AISI 316 L), bronze, duplex, nitronic 50                                                                                                            |
| MAX. STATIC WORKING PRESSURE CONNECTED | Up to 15,000 psi*                                                                                                                                                           |
| VALVE SYSTEMS AVAILABLE                | Both sides self sealing                                                                                                                                                     |

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\*Dependent on chosen materials and seals. \*Feature is optional, consult factory for details.

## Universal Subassembly Elements

Series 85, Series 57



|                                        |                                                                                                                                                                   |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AREAS OF APPLICATION                   | General engineering, machine tool industry                                                                                                                        |
| MEDIA                                  | Hydraulic fluids, emulsions                                                                                                                                       |
| FEATURES                               | Cartridge elements for customers' cavities, squirt-free, high coupling frequency possible, applicable for pressure difference up to 580 psi*, robust construction |
| SIZE (MM)                              | Series 85: 6, 10, 57: 6, 8, 12, 16                                                                                                                                |
| HOUSING MATERIALS                      | Series 85: oil-burnished steel; plated steel, series 57: stainless steel 1.4104 (AISI 430 F)                                                                      |
| MAX. STATIC WORKING PRESSURE CONNECTED | Series 85: up to 3,480 psi*, series 57: up to 2,900 psi*                                                                                                          |
| VALVE SYSTEMS AVAILABLE                | Both sides self sealing clean break technology (minimal loss or ingress during operation)                                                                         |

## CLEAN BREAK COUPLINGS

### Low Pressure Clean Break Couplings

Series CT



|                                        |                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| AREAS OF APPLICATION                   | General constructions, chemical industry, pharmaceutical industry, tank loading/unloading, engineering, thermal oil               |
| MEDIA                                  | Water, oils, chemical fluids, non-lubricating substances, gases                                                                   |
| FEATURES                               | Auto lock, squirt-free, low coupling force, connectable against residual pressures, high flow rate, ring grips*, protection caps* |
| SIZE (MM)                              | 3, 5, 7, 9, 12, 19                                                                                                                |
| HOUSING MATERIALS                      | Stainless steel 1.4307 (AISI 304 L)                                                                                               |
| MAX. STATIC WORKING PRESSURE CONNECTED | Up to 930 psi*, for negative pressure when connected                                                                              |
| VALVE SYSTEMS AVAILABLE                | Both sides self sealing clean break technology (minimal loss or ingress during operation)                                         |

### Low Pressure Clean Break Couplings

Series CN



|                                        |                                                                                                                                                     |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| AREAS OF APPLICATION                   | Chemical industry, pharmaceutical industry, vehicle loading/unloading, hose stations, cooling circuit                                               |
| MEDIA                                  | Chemical fluids, non-lubricating substances, demineralised water, gases, solvents                                                                   |
| FEATURES                               | Squirt-free, curved lock, connectable against residual pressure, compact design, non-interchangeable design through mechanical coding*, ring grips* |
| SIZE (MM)                              | 25, 40, 50, 80, 100                                                                                                                                 |
| HOUSING MATERIALS                      | Stainless steel 1.4571 (AISI 316 Ti, Hastelloy)                                                                                                     |
| MAX. STATIC WORKING PRESSURE CONNECTED | Up to 360 psi*, for negative pressure when connected                                                                                                |
| VALVE SYSTEMS AVAILABLE                | Both sides self sealing clean break technology (minimal loss or ingress during operation)                                                           |

### Low Pressure Clean Break Ball Face Couplings

Series BF



|                                        |                                                                                                                                                                                                                  |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AREAS OF APPLICATION                   | Chemical industry, pharmaceutical industry, tank filling, vehicle loading/unloading                                                                                                                              |
| MEDIA                                  | Chemical fluids, non-lubricating substances, demineralised water, gases, solvents                                                                                                                                |
| FEATURES                               | Squirt-free, automatic lock, connectable against residual pressure, precentered sleeve for easy operation, simple external cleaning by cleaning position, additional seal prevents media from wetting the thread |
| SIZE (MM)                              | 5, 9, 12                                                                                                                                                                                                         |
| HOUSING MATERIALS                      | Stainless steel 1.4404/1.4571 (AISI 316 L/316 Ti) or equivalent                                                                                                                                                  |
| MAX. STATIC WORKING PRESSURE CONNECTED | *Up to 930 psi*                                                                                                                                                                                                  |
| VALVE SYSTEMS AVAILABLE                | Both sides self sealing clean break technology (minimal loss or ingress during operation)                                                                                                                        |

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\*Dependent on chosen materials and seals. \*Feature is optional, consult factory for details.



## QUICK COUPLINGS

### Low Pressure Clean Break Ball Face Couplings

Series BF (XL-Version)



|                                        |                                                                                                                                                                                                                      |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AREAS OF APPLICATION                   | Chemical industry, loading and unloading of vehicles, also top-loading, filling plants and mixing stations, hose stations                                                                                            |
| MEDIA                                  | Chemical fluids, non-lubricating substances, demineralised water, gases, solvents                                                                                                                                    |
| FEATURES                               | squirt-free, separate connection and valve opening process, automatic locking with safety confirmation, valve opening possible even under high pressure, easy to clean on the outside, safety operation (DN 25 + 50) |
| SIZE (MM)                              | 25, 50                                                                                                                                                                                                               |
| HOUSING MATERIALS                      | Stainless steel 1.4404/1.4571 (AISI 316 L/316 Ti) or equivalent                                                                                                                                                      |
| MAX. STATIC WORKING PRESSURE CONNECTED | Up to 580 psi*                                                                                                                                                                                                       |
| VALVE SYSTEMS AVAILABLE                | Both-sides self sealing clean break technology (minimal loss or ingress during operation)                                                                                                                            |

### Low Pressure Clean Break Cartridge Elements

Series CG



|                                        |                                                                                                                                                                                                                                          |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AREAS OF APPLICATION                   | Cooling of circuits in power modules (railway technology), proven in air-conditioning technology                                                                                                                                         |
| MEDIA                                  | Water, polyalphylefin (PAO), other coolants                                                                                                                                                                                              |
| FEATURES                               | Vibration resistance per EN 61373 category 1-3 class B (railway approved), individual dirt protection in connected position, anti-twisting device. Available as hand operated version AND as cartridge version for automated connection. |
| SIZE (MM)                              | 6, 9, 12, 16, 20, 25                                                                                                                                                                                                                     |
| HOUSING MATERIALS                      | Hard-coated aluminium, stainless steel 1.4307 (AISI 304L)                                                                                                                                                                                |
| MAX. STATIC WORKING PRESSURE CONNECTED | Up to 230 psi*                                                                                                                                                                                                                           |
| VALVE SYSTEMS AVAILABLE                | Both sides self sealing clean break technology (minimal loss or ingress during operation)                                                                                                                                                |

### High Pressure Clean Break Couplings

Series HC



|                                        |                                                                                                                                               |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| AREAS OF APPLICATION                   | High pressure hydraulics, engineering, hydraulic units, high pressure test benches, hydraulic controls, steel industry                        |
| MEDIA                                  | Hydraulic liquids on a mineral basis, HFA- and HFB liquids, self-lubricating media                                                            |
| FEATURES                               | Squirt-free, automatic lock, flat face closing valves, high pressure resistance, pressure relief valve*, dirt protected lock, protection cap* |
| SIZE (MM)                              | 6, 8, 12, 16, 20                                                                                                                              |
| HOUSING MATERIALS                      | Zinc-plated steel, yellow chromated / phosphated steel, stainless steel 1.4404/1.4418/1.4571 (AISI 316 L / 316 Ti) or equivalent              |
| MAX. STATIC WORKING PRESSURE CONNECTED | Up to 9,500 psi*, for negative pressure when connected                                                                                        |
| VALVE SYSTEMS AVAILABLE                | Both sides self sealing clean break technology (minimal loss or ingress during operation)                                                     |

## DUST PLUGS & CAPS

### Accessories for Mono Couplings

Dust caps & Dust plugs



|                                        |                                                                               |
|----------------------------------------|-------------------------------------------------------------------------------|
| AREAS OF APPLICATION                   | Dust caps and dust plugs, parking stations, threaded hose connectors, adaptor |
| MEDIA                                  | According to basic type and resistance requirements                           |
| FEATURES                               | Metal version = pressure-tight, plastic design = dirt protection              |
| SIZE (MM)                              | 4 - 50 mm                                                                     |
| HOUSING MATERIALS                      | Steel, stainless steel, brass nickel-plated, PVC / PA / PUR                   |
| MAX. STATIC WORKING PRESSURE CONNECTED | Up to 29,000 psi*                                                             |
| VALVE SYSTEMS AVAILABLE                | All protection caps and protection plugs with closed passage                  |

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\*Dependent on chosen materials and seals. \*Feature is optional, consult factory for details.

# BALL VALVES

This image shows a full page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page, typical of notebook paper. There are no margins, text, or other markings on the page.

## QUICK COUPLINGS

# WELD COUPLINGS

## SUCTION AND RETURN

## C/S FLANGES

## S/S FLANGES

# WELD COUPLINGS

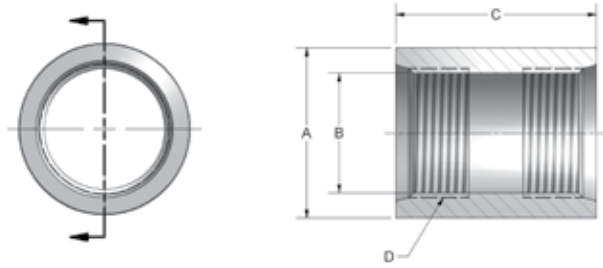


|                                  |           |
|----------------------------------|-----------|
| <b>SAE Full Couplings</b>        | <b>57</b> |
| <b>SAE Half Couplings</b>        | <b>58</b> |
| <b>NPTF Half Couplings</b>       | <b>59</b> |
| <b>NPTF Full Couplings</b>       | <b>60</b> |
| <b>BSPP Half Couplings</b>       | <b>60</b> |
| <b>BSPP Full Couplings</b>       | <b>61</b> |
| <b>ISO 6149 Metric Couplings</b> | <b>62</b> |
| <b>Socket Weld Couplings</b>     | <b>63</b> |
| <b>90 Degree Weld Couplings</b>  | <b>64</b> |



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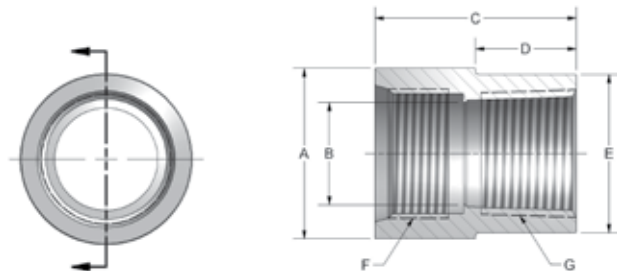
# SAE Full Couplings



- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

| SAE TO SAE FULL COUPLING |                                |      |       |      |                   |
|--------------------------|--------------------------------|------|-------|------|-------------------|
| CARBON STEEL<br>PART NO. | STAINLESS<br>STEEL<br>PART NO. | A    | B     | C    | D<br>SAE<br>UN-2B |
| 830-4                    | 830-4-SS                       | 0.88 | 0.39  | 1.16 | *7/16-20          |
| 830-6                    | 830-6-SS                       | 1.00 | .509  | 1.25 | *9/16-18          |
| 830-8                    | 830-8-SS                       | 1.25 | .689  | 1.63 | *3/4-16           |
| 830-10                   | 830-10-SS                      | 1.38 | .806  | 1.50 | *7/8-14           |
| 830-12                   | 830-12-SS                      | 1.50 | .981  | 2.06 | 1 1/16-12         |
| 830-14                   | 830-14-SS                      | 1.63 | 1.106 | 2.00 | 1 3/16-12         |
| 830-16                   | 830-16-SS                      | 1.75 | 1.231 | 2.06 | 1 5/16-12         |
| 830-20                   | 830-20-SS                      | 2.25 | 1.544 | 2.06 | 1 5/8-12          |
| 830-24                   | 830-24-SS                      | 2.75 | 1.794 | 2.20 | 1 7/8-12          |
| 830-32                   | 830-32-SS                      | 3.25 | 2.419 | 2.50 | 2 1/2-12          |
| 830-40                   | 830-40-SS                      | 3.75 | 2.92  | 3.00 | 3-12              |
| 830-48                   | 830-48-SS                      | 4.40 | 3.42  | 3.00 | 3 1/2-12          |
| 830-64                   | 830-64-SS                      | 5.25 | 4.42  | 3.25 | 4 1/2-12          |

\*UNF-2B



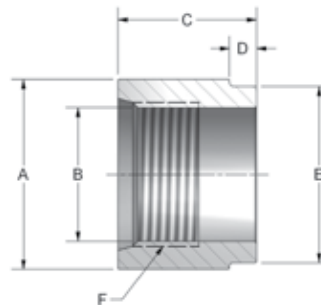
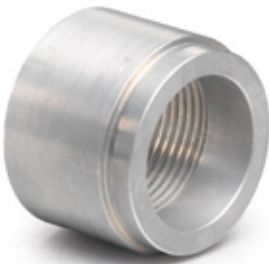
- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

| SAE TO NPTF FULL COUPLING |                                |      |       |      |      |       |                   |            |
|---------------------------|--------------------------------|------|-------|------|------|-------|-------------------|------------|
| CARBON STEEL<br>PART NO.  | STAINLESS<br>STEEL<br>PART NO. | A    | B     | C    | D    | E     | F<br>SAE<br>UN-2B | G<br>NPTF  |
| 825-4                     | 825-4-SS                       | 1.00 | .389  | 1.27 | .64  | .875  | *7/16-20          | 1/4-18     |
| 825-6                     | 825-6-SS                       | 1.13 | .508  | 1.50 | .75  | 1.000 | *9/16-18          | 3/8-18     |
| 825-8                     | 825-8-SS                       | 1.25 | .650  | 1.63 | .82  | 1.125 | *3/4-16           | 1/2-14     |
| 825-10-12                 | 825-10-12-SS                   | 1.50 | .806  | 1.75 | .88  | 1.375 | *7/8-14           | 3/4-14     |
| 825-12                    | 825-12-SS                      | 1.50 | .850  | 2.06 | 1.03 | 1.375 | 1 1/16-12         | 3/4-14     |
| 825-14-16                 | 825-14-16-SS                   | 1.75 | 1.050 | 2.15 | 1.08 | 1.625 | 1 3/16-12         | 1-11.5     |
| 825-16                    | 825-16-SS                      | 1.75 | 1.050 | 2.06 | 1.03 | 1.625 | 1 5/16-12         | 1-11.5     |
| 825-20                    | 825-20-SS                      | 2.25 | 1.420 | 2.06 | 1.03 | 2.125 | 1 5/8-12          | 1 1/4-11.5 |
| 825-24                    | 825-24-SS                      | 2.75 | 1.650 | 2.20 | 1.10 | 2.500 | 1 7/8-12          | 1 1/2-11.5 |
| 825-32                    | 825-32-SS                      | 3.25 | 2.125 | 2.50 | 1.25 | 3.000 | 2 1/2-12          | 2-11.5     |
| 825-40                    | 825-40-SS                      | 3.75 | 2.38  | 3.00 | 1.50 | 3.50  | 3-12              | 2 1/2-8    |
| 825-48                    | 825-48-SS                      | 4.40 | 3.00  | 3.00 | 1.50 | 4.00  | 3 1/2-12          | 3-8        |
| 825-64                    | 825-64-SS                      | 5.25 | 4.00  | 3.25 | 1.63 | 5.00  | 4 1/2-12          | 4-8        |

\*UNF-2B



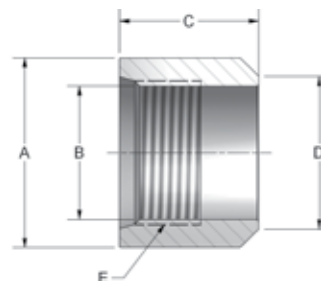
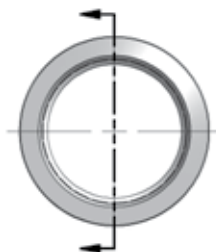
# SAE Half Couplings



- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

| SAE HALF COUPLING        |                                |      |       |      |      |       |                   |
|--------------------------|--------------------------------|------|-------|------|------|-------|-------------------|
| CARBON STEEL<br>PART NO. | STAINLESS<br>STEEL<br>PART NO. | A    | B     | C    | D    | E     | F<br>SAE<br>UN-2B |
| 835-4                    | 835-4-SS                       | .88  | .389  | 1.00 | .250 | .750  | *7/16-20          |
| 835-6                    | 835-6-SS                       | 1.00 | .509  | 1.00 | .250 | .875  | *9/16-18          |
| 835-8                    | 835-8-SS                       | 1.25 | .689  | 1.06 | .250 | 1.125 | *3/4-16           |
| 835-10                   | 835-10-SS                      | 1.38 | .806  | 1.06 | .250 | 1.250 | *7/8-14           |
| 835-12                   | 835-12-SS                      | 1.50 | .981  | 1.28 | .250 | 1.375 | 1 1/16-12         |
| 835-14                   | 835-14-SS                      | 1.63 | 1.106 | 1.25 | .250 | 1.500 | 1 3/16-12         |
| 835-16                   | 835-16-SS                      | 1.75 | 1.231 | 1.28 | .250 | 1.625 | 1 5/16-12         |
| 835-20                   | 835-20-SS                      | 2.25 | 1.544 | 1.28 | .250 | 2.125 | 1 5/8-12          |
| 835-24                   | 835-24-SS                      | 2.75 | 1.794 | 1.28 | .250 | 2.500 | 1 7/8-12          |
| 835-32                   | 835-32-SS                      | 3.25 | 2.419 | 1.50 | .250 | 3.000 | 2 1/2-12          |
| 835-40                   | 835-40-SS                      | 3.75 | 2.92  | 2.00 | .250 | 3.500 | 3-12              |
| 835-48                   | 835-48-SS                      | 4.40 | 3.42  | 2.25 | .250 | 4.000 | 3 1/2-12          |
| 835-64                   | 835-64-SS                      | 5.25 | 4.42  | 2.25 | .250 | 5.000 | 4 1/2-12          |

\*UNF-2B



- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

| SAE HALF COUPLING BEVEL  |                                |      |       |      |       |                   |
|--------------------------|--------------------------------|------|-------|------|-------|-------------------|
| CARBON STEEL<br>PART NO. | STAINLESS<br>STEEL<br>PART NO. | A    | B     | C    | D     | E<br>SAE<br>UN-2B |
| 835B-4                   | 835B-4-SS                      | .88  | .389  | 1.00 | .570  | *7/16-20          |
| 835B-6                   | 835B-6-SS                      | 1.00 | .509  | 1.00 | .690  | *9/16-18          |
| 835B-8                   | 835B-8-SS                      | 1.25 | .689  | 1.06 | .870  | *3/4-16           |
| 835B-10                  | 835B-10-SS                     | 1.38 | .806  | 1.06 | .990  | *7/8-14           |
| 835B-12                  | 835B-12-SS                     | 1.50 | .981  | 1.28 | 1.160 | 1 1/16-12         |
| 835B-14                  | 835B-14-SS                     | 1.63 | 1.106 | 1.25 | 1.290 | 1 3/16-12         |
| 835B-16                  | 835B-16-SS                     | 1.75 | 1.231 | 1.28 | 1.410 | 1 5/16-12         |
| 835B-20                  | 835B-20-SS                     | 2.25 | 1.544 | 1.28 | 1.720 | 1 5/8-12          |
| 835B-24                  | 835B-24-SS                     | 2.75 | 1.794 | 1.28 | 1.980 | 1 7/8-12          |
| 835B-32                  | 835B-32-SS                     | 3.25 | 2.419 | 1.50 | 2.600 | 2 1/2-12          |
| 835B-40                  | 835B-40-SS                     | 3.75 | 2.92  | 2.00 | 3.000 | 3-12              |
| 835B-48                  | 835B-48-SS                     | 4.40 | 3.42  | 2.25 | 3.500 | 3 1/2-12          |
| 835B-64                  | 835B-64-SS                     | 5.25 | 4.42  | 2.25 | 4.500 | 4 1/2-12          |

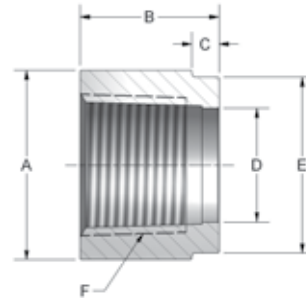
\*UNF-2B

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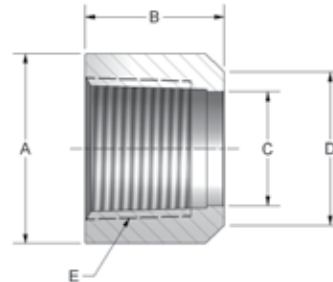
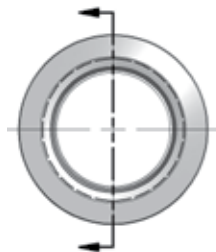
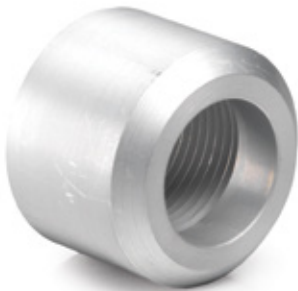
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# NPTF Half Couplings



- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

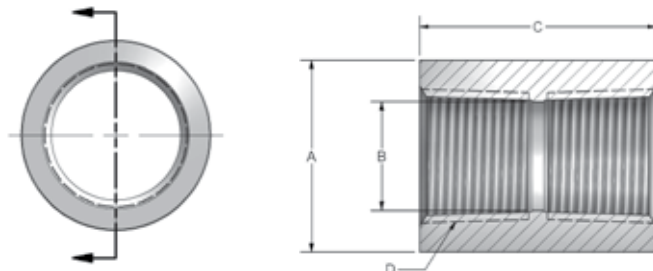
| NPTF HALF COUPLING    |                          |      |      |      |       |       |            |
|-----------------------|--------------------------|------|------|------|-------|-------|------------|
| CARBON STEEL PART NO. | STAINLESS STEEL PART NO. | A    | B    | C    | D     | E     | F NPTF     |
| 845-4                 | 845-4-SS                 | .88  | 1.06 | .250 | .391  | .750  | 1/4-18     |
| 845-6                 | 845-6-SS                 | 1.00 | 1.00 | .250 | .563  | .875  | 3/8-18     |
| 845-8                 | 845-8-SS                 | 1.25 | 1.06 | .250 | .650  | 1.125 | 1/2-14     |
| 845-12                | 845-12-SS                | 1.50 | 1.28 | .250 | .850  | 1.375 | 3/4-14     |
| 845-16                | 845-16-SS                | 1.75 | 1.28 | .250 | 1.050 | 1.625 | 1-11.5     |
| 845-20                | 845-20-SS                | 2.25 | 1.28 | .250 | 1.420 | 2.125 | 1 1/4-11.5 |
| 845-24                | 845-24-SS                | 2.75 | 1.28 | .250 | 1.560 | 2.500 | 1 1/2-11.5 |
| 845-32                | 845-32-SS                | 3.25 | 1.50 | .250 | 2.125 | 3.000 | 2-11.5     |
| 845-40                | 845-40-SS                | 3.75 | 2.00 | .250 | 2.500 | 3.500 | 2 1/2-8    |
| 845-48                | 845-48-SS                | 4.25 | 2.25 | .250 | 3.000 | 4.000 | 3-8        |
| 845-64                | 845-64-SS                | 5.25 | 2.25 | .250 | 4.000 | 5.000 | 4-8        |



- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

| NPTF HALF COUPLING BEVEL |                          |      |      |       |       |            |
|--------------------------|--------------------------|------|------|-------|-------|------------|
| CARBON STEEL PART NO.    | STAINLESS STEEL PART NO. | A    | B    | C     | D     | E NPTF     |
| 845B-4                   | 845B-4-SS                | .88  | 1.06 | .391  | .570  | 1/4-18     |
| 845B-6                   | 845B-6-SS                | 1.00 | 1.00 | .520  | .690  | 3/8-18     |
| 845B-8                   | 845B-8-SS                | 1.25 | 1.06 | .650  | .870  | 1/2-14     |
| 845B-12                  | 845B-12-SS               | 1.50 | 1.28 | .850  | 1.160 | 3/4-14     |
| 845B-16                  | 845B-16-SS               | 1.75 | 1.28 | 1.050 | 1.410 | 1-11.5     |
| 845B-20                  | 845B-20-SS               | 2.25 | 1.28 | 1.420 | 1.720 | 1 1/4-11.5 |
| 845B-24                  | 845B-24-SS               | 2.75 | 1.28 | 1.560 | 1.980 | 1 1/2-11.5 |
| 845B-32                  | 845B-32-SS               | 3.25 | 1.50 | 2.125 | 2.600 | 2-11.5     |
| 845B-40                  | 845B-40-SS               | 3.75 | 2.00 | 2.500 | 3.100 | 2 1/2-8    |
| 845B-48                  | 845B-48-SS               | 4.40 | 2.25 | 3.000 | 3.600 | 3-8        |
| 845B-64                  | 845B-64-SS               | 5.25 | 2.25 | 4.000 | 4.450 | 4-8        |

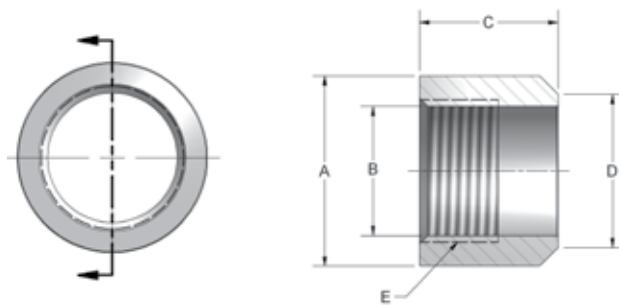
## NPTF Full Couplings



- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

| NPTF TO NPTF FULL COUPLING |                          |      |       |      |            |
|----------------------------|--------------------------|------|-------|------|------------|
| CARBON STEEL PART NO.      | STAINLESS STEEL PART NO. | A    | B     | C    | D NPTF     |
| 865-4                      | 865-4-SS                 | .88  | .391  | 1.25 | 1/4-18     |
| 865-6                      | 865-6-SS                 | 1.00 | .520  | 1.50 | 3/8-18     |
| 865-8                      | 865-8-SS                 | 1.25 | .650  | 1.85 | 1/2-14     |
| 865-12                     | 865-12-SS                | 1.50 | .850  | 1.85 | 3/4-14     |
| 865-16                     | 865-16-SS                | 1.75 | 1.050 | 2.35 | 1-11.5     |
| 865-20                     | 865-20-SS                | 2.25 | 1.420 | 2.35 | 1 1/4-11.5 |
| 865-24                     | 865-24-SS                | 2.75 | 1.560 | 2.35 | 1 1/2-11.5 |
| 865-32                     | 865-32-SS                | 3.25 | 2.125 | 2.35 | 2-11.5     |

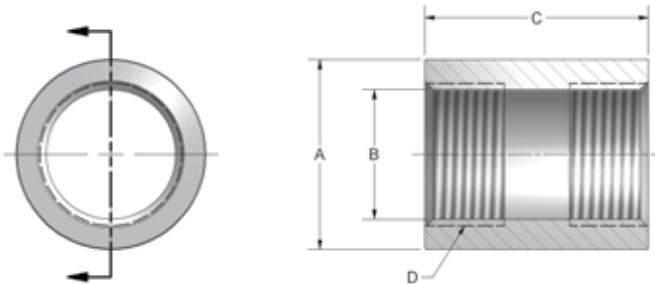
## BSPP Half Couplings



- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

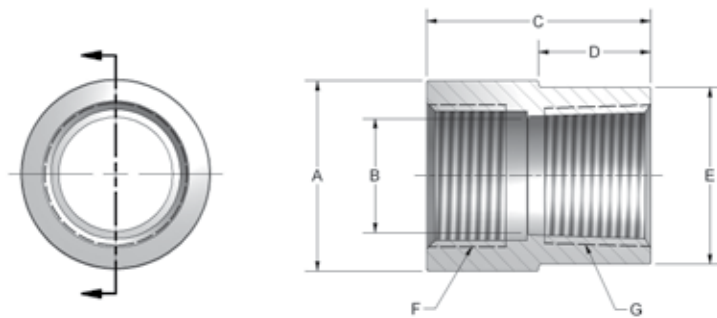
| BSPP HALF COUPLING BEVEL |                          |      |       |      |       |          |
|--------------------------|--------------------------|------|-------|------|-------|----------|
| CARBON STEEL PART NO.    | STAINLESS STEEL PART NO. | A    | B     | C    | D     | E BSPP   |
| 855B-4                   | 855B-4-SS                | .88  | .451  | 1.00 | .570  | 1/4-19   |
| 855B-6                   | 855B-6-SS                | 1.00 | .589  | 1.00 | .690  | 3/8-19   |
| 855B-8                   | 855B-8-SS                | 1.25 | .734  | 1.06 | .870  | 1/2-14   |
| 855B-12                  | 855B-12-SS               | 1.50 | .949  | 1.28 | 1.160 | 3/4-14   |
| 855B-16                  | 855B-16-SS               | 1.75 | 1.193 | 1.28 | 1.410 | 1-11     |
| 855B-20                  | 855B-20-SS               | 2.25 | 1.534 | 1.28 | 1.720 | 1 1/4-11 |
| 855B-24                  | 855B-24-SS               | 2.75 | 1.766 | 1.28 | 1.980 | 1 1/2-11 |
| 855B-32                  | 855B-32-SS               | 3.25 | 2.231 | 1.50 | 2.600 | 2-11     |

# BSPP Full Couplings



- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

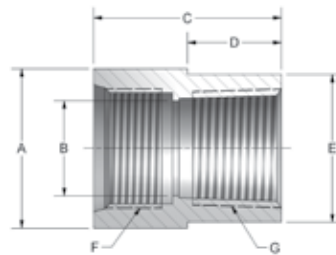
| BSPP TO BSPP FULL COUPLING |                          |      |       |      |          |
|----------------------------|--------------------------|------|-------|------|----------|
| CARBON STEEL PART NO.      | STAINLESS STEEL PART NO. | A    | B     | C    | D BSPP   |
| 850-4                      | 850-4-SS                 | .88  | .451  | 1.25 | 1/4-19   |
| 850-6                      | 850-6-SS                 | 1.00 | .589  | 1.25 | 3/8-19   |
| 850-8                      | 850-8-SS                 | 1.25 | .734  | 1.63 | 1/2-14   |
| 850-12                     | 850-12-SS                | 1.50 | .949  | 2.06 | 3/4-14   |
| 850-16                     | 850-16-SS                | 1.75 | 1.193 | 2.06 | 1-11     |
| 850-20                     | 850-20-SS                | 2.25 | 1.534 | 2.06 | 1 1/4-11 |
| 850-24                     | 850-24-SS                | 2.75 | 1.766 | 2.20 | 1 1/2-11 |
| 850-32                     | 850-32-SS                | 3.25 | 2.231 | 2.50 | 2-11     |



- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

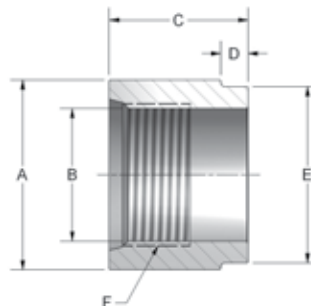
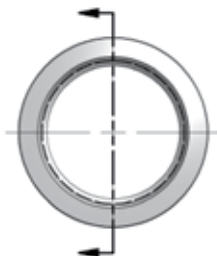
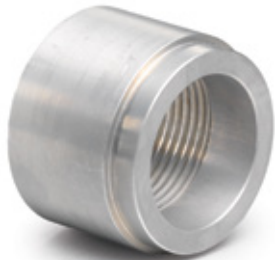
| BSPP TO NPTF FULL COUPLING |                          |      |       |      |      |       |          |            |
|----------------------------|--------------------------|------|-------|------|------|-------|----------|------------|
| CARBON STEEL PART NO.      | STAINLESS STEEL PART NO. | A    | B     | C    | D    | E     | F BSPP   | G NPTF     |
| 860-4                      | 860-4-SS                 | 1.00 | .408  | 1.27 | .64  | .875  | 1/4-19   | 1/4-18     |
| 860-6                      | 860-6-SS                 | 1.13 | .507  | 1.50 | .75  | 1.000 | 3/8-19   | 3/8-18     |
| 860-8                      | 860-8-SS                 | 1.25 | .650  | 1.63 | .82  | 1.125 | 1/2-14   | 1/2-14     |
| 860-12                     | 860-12-SS                | 1.50 | .850  | 2.06 | 1.03 | 1.375 | 3/4-14   | 3/4-14     |
| 860-16                     | 860-16-SS                | 1.75 | 1.000 | 2.06 | 1.03 | 1.625 | 1-11     | 1-11.5     |
| 860-20                     | 860-20-SS                | 2.25 | 1.450 | 2.06 | 1.03 | 2.125 | 1 1/4-11 | 1 1/4-11.5 |
| 860-24                     | 860-24-SS                | 2.75 | 1.681 | 2.20 | 1.10 | 2.500 | 1 1/2-11 | 1 1/2-11.5 |
| 860-32                     | 860-32-SS                | 3.25 | 2.125 | 2.50 | 1.25 | 3.000 | 2-11     | 2-11.5     |

# ISO 6149 Metric Couplings



- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

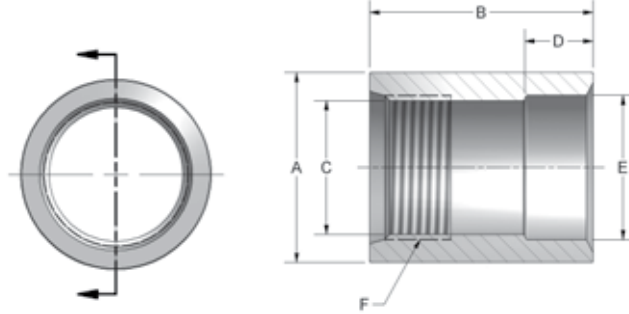
| ISO 6149 TO NPTF FULL COUPLING |                                |      |       |      |      |       |                         |            |
|--------------------------------|--------------------------------|------|-------|------|------|-------|-------------------------|------------|
| CARBON STEEL<br>PART NO.       | STAINLESS<br>STEEL<br>PART NO. | A    | B     | C    | D    | E     | F<br>ISO 6149<br>METRIC | G<br>NPTF  |
| 885-M27-12                     | 885-M27-12-SS                  | 1.50 | .850  | 2.06 | 1.03 | 1.375 | M27 X 2                 | 3/4-14     |
| 885-M33-16                     | 885-M33-16-SS                  | 1.75 | 1.050 | 2.06 | 1.03 | 1.625 | M33 X 2                 | 1-11.5     |
| 885-M42-20                     | 885-M42-20-SS                  | 2.25 | 1.420 | 2.06 | 1.03 | 2.125 | M42 X 2                 | 1 1/4-11.5 |
| 885-M48-24                     | 885-M48-24-SS                  | 2.75 | 1.650 | 2.20 | 1.10 | 2.500 | M48 X 2                 | 1 1/2-11.5 |
| 885-M60-32                     | 885-M60-32-SS                  | 3.25 | 2.125 | 2.50 | 1.25 | 3.000 | M60 X 2                 | 2-11.5     |



- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

| ISO 6149 HALF COUPLING   |                                |      |       |      |      |       |                         |
|--------------------------|--------------------------------|------|-------|------|------|-------|-------------------------|
| CARBON STEEL<br>PART NO. | STAINLESS<br>STEEL<br>PART NO. | A    | B     | C    | D    | E     | F<br>ISO 6149<br>METRIC |
| 880-M27                  | 880-M27-SS                     | 1.50 | .981  | 1.28 | .250 | 1.375 | M27 X 2                 |
| 880-M33                  | 880-M33-SS                     | 1.75 | 1.231 | 1.28 | .250 | 1.625 | M33 X 2                 |
| 880-M42                  | 880-M42-SS                     | 2.25 | 1.544 | 1.28 | .250 | 2.125 | M42 X 2                 |
| 880-M48                  | 880-M48-SS                     | 2.75 | 1.794 | 1.28 | .250 | 2.500 | M48 X 2                 |
| 880-M60                  | 880-M60-SS                     | 3.25 | 2.419 | 1.50 | .250 | 3.000 | M60 X 2                 |

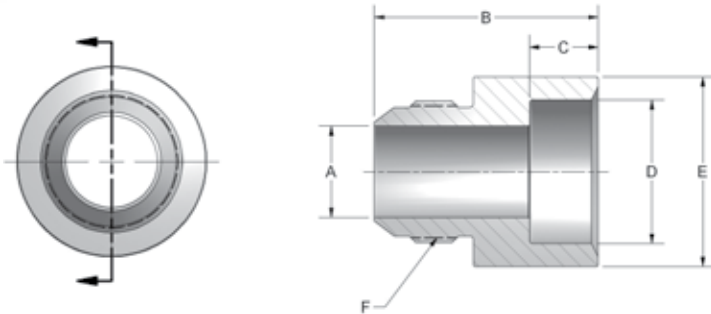
# Socket Weld Couplings



- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

| SAE TO SOCKET WELD PIPE COUPLING |                          |      |      |       |       |       |             |
|----------------------------------|--------------------------|------|------|-------|-------|-------|-------------|
| CARBON STEEL PART NO.            | STAINLESS STEEL PART NO. | A    | B    | C     | D     | E     | F SAE UN-2B |
| 820-8                            | 820-8-SS                 | 1.25 | 1.63 | .689  | .560  | .855  | *3/4-16     |
| 820-12                           | 820-12-SS                | 1.50 | 2.06 | .981  | .560  | 1.062 | 1 1/16-12   |
| 820-16                           | 820-16-SS                | 1.75 | 2.06 | 1.231 | .630  | 1.328 | 1 5/16-12   |
| 820-20                           | 820-20-SS                | 2.25 | 2.06 | 1.544 | .690  | 1.672 | 1 5/8-12    |
| 820-24                           | 820-24-SS                | 2.75 | 2.20 | 1.794 | .750  | 1.922 | 1 7/8-12    |
| 820-32                           | 820-32-SS                | 3.25 | 2.50 | 2.419 | .875  | 2.406 | 2 1/2-12    |
| 820-40                           | 820-40-SS                | 3.75 | 3.00 | 2.919 | 1.000 | 2.910 | 3-12        |
| 820-48                           | 820-48-SS                | 4.40 | 3.00 | 3.419 | 1.25  | 3.550 | 3 1/2-12    |
| 820-64                           | 820-64-SS                | 5.25 | 3.25 | 4.419 | 1.250 | 4.55  | 4 1/2-12    |

\*UNF-2B



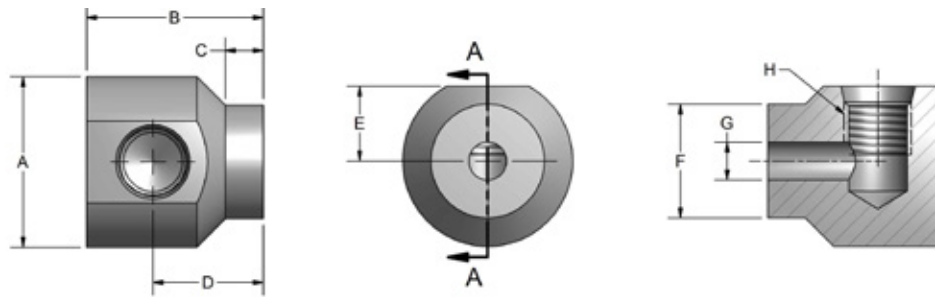
- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

| SOCKET WELD PIPE TO MALE JIC COUPLING |                          |       |      |      |       |      |           |
|---------------------------------------|--------------------------|-------|------|------|-------|------|-----------|
| CARBON STEEL PART NO.                 | STAINLESS STEEL PART NO. | A     | B    | C    | D     | E    | F THREAD  |
| 840-8                                 | 840-8-SS                 | .391  | 1.63 | .560 | .855  | 1.25 | *3/4-16   |
| 840-12                                | 840-12-SS                | .609  | 1.89 | .560 | 1.062 | 1.50 | 1 1/16-12 |
| 840-16                                | 840-16-SS                | .844  | 2.06 | .630 | 1.328 | 1.75 | 1 5/16-12 |
| 840-20                                | 840-20-SS                | 1.078 | 2.06 | .690 | 1.672 | 2.25 | 1 5/8-12  |
| 840-24                                | 840-24-SS                | 1.312 | 2.20 | .750 | 1.922 | 2.75 | 1 7/8-12  |
| 840-32                                | 840-32-SS                | 1.781 | 2.50 | .875 | 2.406 | 3.25 | 2 1/2-12  |

\*UNF-2A



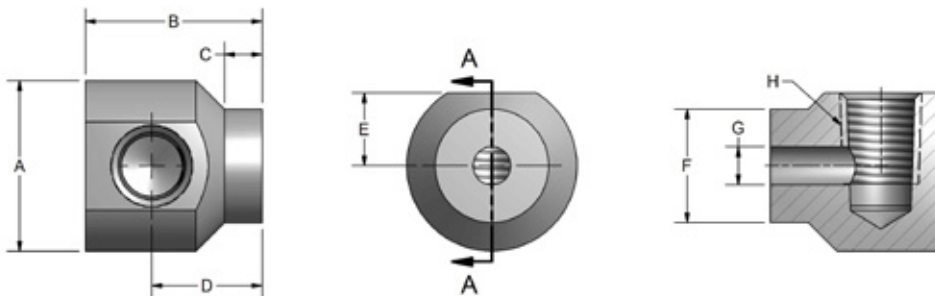
## 90 Degree Weld Couplings



- AISI 1020 Carbon Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

| SAE TO WELD 90 DEGREE COUPLING |      |      |       |       |       |       |       |                |
|--------------------------------|------|------|-------|-------|-------|-------|-------|----------------|
| PART NUMBER                    | A    | B    | C     | D     | E     | F     | G     | H<br>SAE UN-2B |
| 83590-4                        | 1.13 | 1.17 | 0.250 | 0.729 | 0.493 | 0.750 | 0.250 | 7/16-20*       |
| 83590-6                        | 1.25 | 1.25 | 0.250 | 0.746 | 0.528 | 0.875 | 0.295 | 9/16-18*       |
| 83590-8                        | 1.75 | 1.53 | 0.250 | 0.907 | 0.646 | 1.125 | 0.394 | 3/4-16*        |
| 83590-10                       | 1.88 | 1.55 | 0.250 | 0.863 | 0.656 | 1.250 | 0.492 | 7/8-14*        |
| 83590-12                       | 2.25 | 2.05 | 0.375 | 1.305 | 0.784 | 1.375 | 0.630 | 1 1/16-12      |
| 83590-14                       | 2.38 | 1.96 | 0.375 | 1.143 | 0.791 | 1.500 | 0.709 | 1 3/16-12      |
| 83590-16                       | 2.63 | 2.32 | 0.375 | 1.449 | 0.890 | 1.625 | 0.827 | 1 5/16-12      |
| 83590-20                       | 3.13 | 2.75 | 0.375 | 1.622 | 1.067 | 2.125 | 1.062 | 1 5/8-12       |
| 83590-24                       | 3.63 | 3.31 | 0.500 | 1.939 | 1.284 | 2.500 | 1.300 | 1 7/8-12       |
| 83590-32                       | 4.63 | 4.00 | 0.500 | 2.374 | 1.532 | 3.000 | 1.770 | 2 1/2-12       |

\*UNF-2B



- AISI 1020 Carbon Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

| NPTF TO WELD 90 DEGREE COUPLING |      |      |       |       |       |       |       |            |
|---------------------------------|------|------|-------|-------|-------|-------|-------|------------|
| PART NUMBER                     | A    | B    | C     | D     | E     | F     | G     | H<br>NPTF  |
| 84590-4                         | 1.13 | 1.17 | 0.250 | 0.729 | 0.481 | 0.750 | 0.250 | 1/4-18     |
| 84590-6                         | 1.25 | 1.25 | 0.250 | 0.746 | 0.488 | 0.875 | 0.295 | 3/8-18     |
| 84590-8                         | 1.75 | 1.53 | 0.250 | 0.943 | 0.736 | 1.125 | 0.394 | 1/2-14     |
| 84590-12                        | 2.25 | 2.05 | 0.375 | 1.305 | 0.965 | 1.375 | 0.630 | 3/4-14     |
| 84590-16                        | 2.63 | 2.32 | 0.375 | 1.449 | 1.114 | 1.625 | 0.827 | 1-11.5     |
| 84590-20                        | 3.13 | 2.75 | 0.375 | 1.605 | 1.299 | 2.125 | 1.062 | 1 1/4-11.5 |
| 84590-24                        | 3.63 | 3.31 | 0.500 | 1.939 | 1.520 | 2.500 | 1.300 | 1 1/2-11.5 |
| 84590-32                        | 4.63 | 4.00 | 0.500 | 2.374 | 1.961 | 3.000 | 1.770 | 2-11.5     |



# BALL VALVES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

## QUICK COUPLINGS

# WELD COUPLINGS

## SUCTION AND RETURN

## C/S FLANGES

## S/S FLANGES

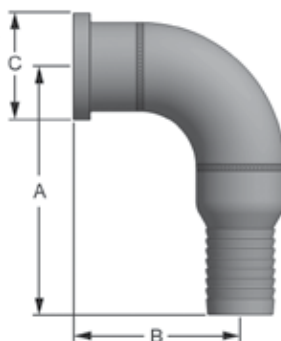
# SUCTION & RETURN



|                                |    |
|--------------------------------|----|
| Hose Barb to SAE Flange Head   | 66 |
| SAE Thread to Tank Coupling    | 68 |
| SAE Thread to Flange Head      | 69 |
| Hose Barb to SAE Thread        | 70 |
| Suction and Return Line Valves | 72 |

## Hose Barb to SAE Flange Head

- Suction to 400 psi max
- Carbon steel natural finish
- Material certificates available upon request
- Flange head manufactured to SAE J518-1



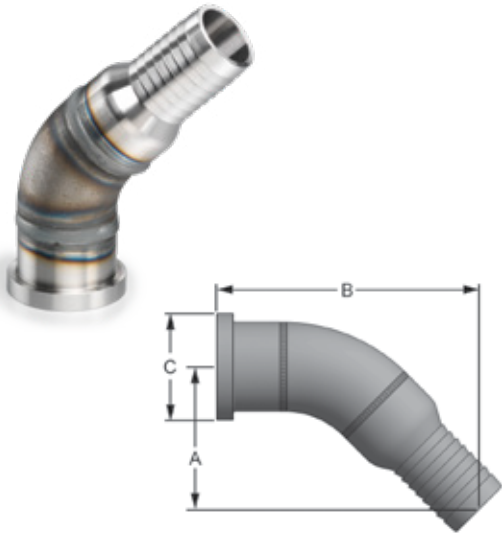
| 90° HOSE BARB TO SAE FLANGE HEAD |                |             |       |      |      |       |       |               |
|----------------------------------|----------------|-------------|-------|------|------|-------|-------|---------------|
|                                  | HOSE BARB SIZE | FLANGE SIZE | A     | B    | C    | HB ID | FH ID | SPLIT FLANGE† |
| 20HB-20SF90                      | 1.25"          | 1.25"       | 4.64  | 3.14 | 2.00 | 1.03  | 1.28  | 20SF0         |
| 24HB-20SF90                      | 1.5"           | 1.25"       | 4.64  | 3.14 | 2.00 | 1.28  | 1.28  | 20SF0         |
| 20HB-24SF90                      | 1.25"          | 1.5"        | 5.00  | 3.50 | 2.38 | 1.03  | 1.50  | 24SF0         |
| 24HB-24SF90                      | 1.5"           | 1.5"        | 5.00  | 3.50 | 2.38 | 1.28  | 1.50  | 24SF0         |
| 32HB-24SF90                      | 2.0"           | 1.5"        | 5.00  | 3.50 | 2.38 | 1.75  | 1.50  | 24SF0         |
| 40HB-24SF90                      | 2.5"           | 1.5"        | 5.00  | 3.50 | 2.38 | 2.17  | 1.50  | 24SF0         |
| 24HB-32SF90                      | 1.5"           | 2.0"        | 6.19  | 4.25 | 2.81 | 1.28  | 1.94  | 32SF0         |
| 32HB-32SF90                      | 2.0"           | 2.0"        | 6.19  | 4.25 | 2.81 | 1.75  | 1.94  | 32SF0         |
| 40HB-32SF90                      | 2.5"           | 2.0"        | 6.19  | 4.25 | 2.81 | 2.17  | 1.94  | 32SF0         |
| 48HB-32SF90                      | 3.0"           | 2.0"        | 6.19  | 4.25 | 2.81 | 2.72  | 1.94  | 32SF0         |
| 24HB-40SF90                      | 1.5"           | 2.5"        | 7.50  | 5.50 | 3.31 | 1.28  | 2.33  | 40SF0         |
| 32HB-40SF90                      | 2.0"           | 2.5"        | 7.50  | 5.50 | 3.31 | 1.75  | 2.33  | 40SF0         |
| 40HB-40SF90                      | 2.5"           | 2.5"        | 7.50  | 5.50 | 3.31 | 2.17  | 2.33  | 40SF0         |
| 48HB-40SF90                      | 3.0"           | 2.5"        | 7.50  | 5.50 | 3.31 | 2.72  | 2.33  | 40SF0         |
| 64HB-40SF90                      | 4.0"           | 2.5"        | 8.13  | 5.50 | 3.31 | 3.69  | 2.33  | 40SF0         |
| 32HB-48SF90                      | 2.0"           | 3.0"        | 8.75  | 6.38 | 4.00 | 1.75  | 3.00  | 48SF0         |
| 40HB-48SF90                      | 2.5"           | 3.0"        | 8.75  | 6.38 | 4.00 | 2.17  | 3.00  | 48SF0         |
| 48HB-48SF90                      | 3.0"           | 3.0"        | 8.75  | 6.38 | 4.00 | 2.72  | 3.00  | 48SF0         |
| 64HB-48SF90                      | 4.0"           | 3.0"        | 8.75  | 6.38 | 4.00 | 3.69  | 3.00  | 48SF0         |
| 64HB-56SF90                      | 4.0"           | 3.5"        | 10.75 | 9.25 | 4.50 | 3.69  | 3.38  | 56SF0         |
| 40HB-64SF90                      | 2.5"           | 4.0"        | 10.75 | 7.75 | 5.00 | 2.17  | 3.83  | 64SF0         |
| 48HB-64SF90                      | 3.0"           | 4.0"        | 10.75 | 7.75 | 5.00 | 2.72  | 3.83  | 64SF0         |
| 64HB-64SF90                      | 4.0"           | 4.0"        | 10.75 | 7.75 | 5.00 | 3.69  | 3.83  | 64SF0         |

† Optional Split Flange sold separately

**ANCHOR  
FLUID POWER**

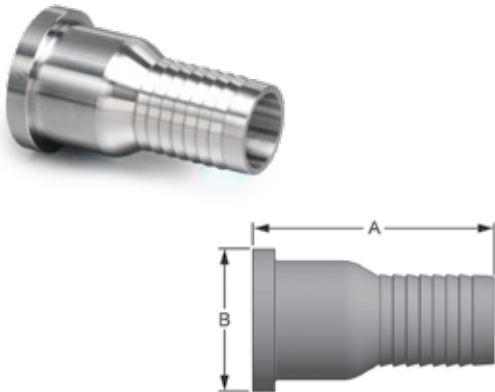
866-FLANGES | 513.527.4444 | Fax 513.527.4449

sales@anchorfluidpower.com | anchorfluidpower.com



- Suction to 400 psi max
- Carbon steel natural finish
- Material certificates available upon request
- Flange head manufactured to SAE J518-1

| 45° HOSE BARB TO SAE FLANGE HEAD |                |             |      |       |      |       |       |               |
|----------------------------------|----------------|-------------|------|-------|------|-------|-------|---------------|
|                                  | HOSE BARB SIZE | FLANGE SIZE | A    | B     | C    | HB ID | FH ID | SPLIT FLANGE† |
| 20HB-20SF45                      | 1.25"          | 1.25"       | 2.66 | 4.91  | 2.00 | 1.03  | 1.28  | 20SF0         |
| 24HB-20SF45                      | 1.5"           | 1.25"       | 2.66 | 4.91  | 2.00 | 1.28  | 1.28  | 20SF0         |
| 20HB-24SF45                      | 1.25"          | 1.5"        | 2.74 | 5.11  | 2.38 | 1.03  | 1.50  | 24SF0         |
| 24HB-24SF45                      | 1.5"           | 1.5"        | 2.74 | 5.11  | 2.38 | 1.28  | 1.50  | 24SF0         |
| 32HB-24SF45                      | 2.0"           | 1.5"        | 2.74 | 5.11  | 2.38 | 1.75  | 1.50  | 24SF0         |
| 40HB-24SF45                      | 2.5"           | 1.5"        | 2.74 | 5.11  | 2.38 | 2.17  | 1.50  | 24SF0         |
| 24HB-32SF45                      | 1.5"           | 2.0"        | 3.23 | 5.86  | 2.81 | 1.28  | 1.94  | 32SF0         |
| 32HB-32SF45                      | 2.0"           | 2.0"        | 3.23 | 5.86  | 2.81 | 1.75  | 1.94  | 32SF0         |
| 40HB-32SF45                      | 2.5"           | 2.0"        | 3.23 | 5.86  | 2.81 | 2.17  | 1.94  | 32SF0         |
| 48HB-32SF45                      | 3.0"           | 2.0"        | 3.23 | 5.86  | 2.81 | 2.72  | 1.94  | 32SF0         |
| 24HB-40SF45                      | 1.5"           | 2.5"        | 3.89 | 7.39  | 3.31 | 1.28  | 2.33  | 40SF0         |
| 32HB-40SF45                      | 2.0"           | 2.5"        | 3.89 | 7.39  | 3.31 | 1.75  | 2.33  | 40SF0         |
| 40HB-40SF45                      | 2.5"           | 2.5"        | 3.89 | 7.39  | 3.31 | 2.17  | 2.33  | 40SF0         |
| 48HB-40SF45                      | 3.0"           | 2.5"        | 3.89 | 7.39  | 3.31 | 2.72  | 2.33  | 40SF0         |
| 64HB-40SF45                      | 4.0"           | 2.5"        | 4.33 | 7.83  | 3.31 | 3.69  | 2.33  | 40SF0         |
| 32HB-48SF45                      | 2.0"           | 3.0"        | 4.42 | 8.30  | 4.00 | 1.75  | 3.00  | 48SF0         |
| 40HB-48SF45                      | 2.5"           | 3.0"        | 4.42 | 8.30  | 4.00 | 2.17  | 3.00  | 48SF0         |
| 48HB-48SF45                      | 3.0"           | 3.0"        | 4.42 | 8.30  | 4.00 | 2.72  | 3.00  | 48SF0         |
| 64HB-48SF45                      | 4.0"           | 3.0"        | 4.42 | 8.30  | 4.00 | 3.69  | 3.00  | 48SF0         |
| 64HB-56SF45                      | 4.0"           | 3.5"        | 5.13 | 10.88 | 4.50 | 3.69  | 3.38  | 56SF0         |
| 40HB-64SF45                      | 2.5"           | 4.0"        | 5.13 | 9.38  | 5.00 | 2.17  | 3.83  | 64SF0         |
| 48HB-64SF45                      | 3.0"           | 4.0"        | 5.13 | 9.38  | 5.00 | 2.72  | 3.83  | 64SF0         |
| 64HB-64SF45                      | 4.0"           | 4.0"        | 5.13 | 9.38  | 5.00 | 3.69  | 3.83  | 64SF0         |



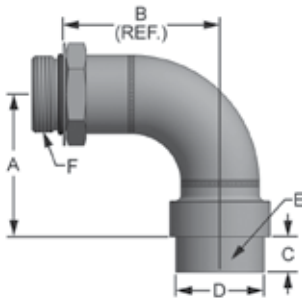
| STRAIGHT HOSE BARB TO SAE FLANGE HEAD |                   |                |      |      |          |          |                  |
|---------------------------------------|-------------------|----------------|------|------|----------|----------|------------------|
|                                       | HOSE<br>BARB SIZE | FLANGE<br>SIZE | A    | B    | HB<br>ID | FH<br>ID | SPLIT<br>FLANGE† |
| 20HB-20SF                             | 1.25"             | 1.25"          | 3.39 | 2.00 | 1.03     | 1.03     | 20SF0            |
| 24HB-20SF                             | 1.5"              | 1.25"          | 3.39 | 2.00 | 1.25     | 1.25     | 20SF0            |
| 20HB-24SF                             | 1.25"             | 1.5"           | 3.39 | 2.38 | 1.03     | 1.50     | 24SF0            |
| 24HB-24SF                             | 1.5"              | 1.5"           | 3.50 | 2.38 | 1.28     | 1.28     | 24SF0            |
| 32HB-24SF                             | 2.0"              | 1.5"           | 3.93 | 2.38 | 1.50     | 1.50     | 24SF0            |
| 40HB-24SF                             | 2.5"              | 1.5"           | 4.63 | 2.38 | 2.17     | 1.50     | 24SF0            |
| 24HB-32SF                             | 1.5"              | 2.0"           | 3.93 | 2.81 | 1.28     | 2.00     | 32SF0            |
| 32HB-32SF                             | 2.0"              | 2.0"           | 3.93 | 2.81 | 1.75     | 1.75     | 32SF0            |
| 40HB-32SF                             | 2.5"              | 2.0"           | 4.63 | 2.81 | 2.00     | 2.00     | 32SF0            |
| 48HB-32SF                             | 3.0"              | 2.0"           | 5.19 | 2.81 | 2.72     | 1.75     | 32SF0            |
| 24HB-40SF                             | 1.5"              | 2.5"           | 4.63 | 3.31 | 1.28     | 2.50     | 40SF0            |
| 32HB-40SF                             | 2.0"              | 2.5"           | 3.93 | 3.31 | 1.75     | 2.50     | 40SF0            |
| 40HB-40SF                             | 2.5"              | 2.5"           | 4.63 | 3.31 | 2.17     | 2.17     | 40SF0            |
| 48HB-40SF                             | 3.0"              | 2.5"           | 5.19 | 3.31 | 2.50     | 2.50     | 40SF0            |
| 64HB-40SF                             | 4.0"              | 2.5"           | 6.50 | 3.31 | 3.69     | 2.38     | 40SF0            |
| 32HB-48SF                             | 2.0"              | 3.0"           | 4.75 | 4.00 | 1.75     | 3.00     | 48SF0            |
| 40HB-48SF                             | 2.5"              | 3.0"           | 4.63 | 4.00 | 2.17     | 3.00     | 48SF0            |
| 48HB-48SF                             | 3.0"              | 3.0"           | 5.19 | 4.00 | 2.72     | 2.72     | 48SF0            |
| 64HB-48SF                             | 4.0"              | 3.0"           | 5.83 | 4.00 | 3.69     | 3.00     | 48SF0            |
| 64HB-56SF                             | 4.0"              | 3.5"           | 5.83 | 4.50 | 3.50     | 3.50     | 56SF0            |
| 40HB-64SF                             | 2.5"              | 4.0"           | 5.83 | 5.00 | 2.17     | 3.69     | 64SF0            |
| 48HB-64SF                             | 3.0"              | 4.0"           | 5.83 | 5.00 | 2.72     | 3.69     | 64SF0            |
| 64HB-64SF                             | 4.0"              | 4.0"           | 5.83 | 5.00 | 3.69     | 3.69     | 64SF0            |

† Optional Split Flange sold separately

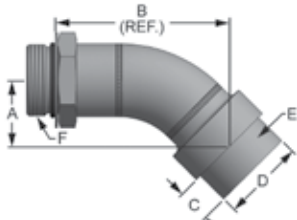
# SAE Thread to Tank Coupling



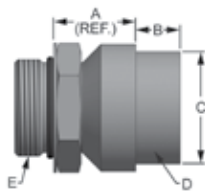
- Suction to 400 psi max
- Buna seals standard / Viton optional
- Carbon steel natural finish
- 90° & 45° SAE thread with adjustable nut
- Material certificates available upon request
- SAE threads manufactured to J1926



| 90° SAE THREAD TO TANK COUPLING |           |            |      |          |      |      |                     |          |      |                |
|---------------------------------|-----------|------------|------|----------|------|------|---------------------|----------|------|----------------|
|                                 | LINE SIZE | TANK PILOT | A    | B (REF.) | C    | D    | E (INTERNAL THREAD) | F        | ID   | BALL VALVE†    |
| 20NPT-20SAE90                   | 1.25      | 1.25       | 3.01 | 3.28     | 0.75 | 1.88 | 1 1/4-11.5          | 1 5/8-12 | 1.08 | LV2BS#20-2T-MH |
| *24NPT-24SAE90                  | 1.50      | 1.50       | 3.38 | 3.65     | 0.75 | 2.13 | 1 1/2-11.5          | 1 7/8-12 | 1.32 | LV2BS#24-2T-MH |
| *32NPT-32SAE90                  | 2.00      | 2.00       | 4.13 | 4.40     | 0.88 | 2.63 | 2-11.5              | 2 1/2-12 | 1.58 | LV2BS#32-2T-MH |
| *40NPT-40SAE90                  | 2.50      | 2.50       | 5.38 | 5.23     | 1.00 | 3.25 | 2 1/2-8             | 3-12     | 2.09 | LV2BS#40-2T-MH |
| *48NPT-48SAE90                  | 3.00      | 3.00       | 6.00 | 6.15     | 1.00 | 4.00 | 3-8                 | 3 1/2-12 | 2.48 | LV2BS#48-2T-MH |
| *64NPT-64SAE90                  | 4.00      | 4.00       | 8.00 | 7.65     | 1.00 | 5.00 | 4-8                 | 4 1/2-12 | 3.94 | LV2BS#64-2T-MH |



| 45° SAE THREAD TO TANK COUPLING |           |            |      |          |      |      |                     |          |      |                |
|---------------------------------|-----------|------------|------|----------|------|------|---------------------|----------|------|----------------|
|                                 | LINE SIZE | TANK PILOT | A    | B (REF.) | C    | D    | E (INTERNAL THREAD) | F        | ID   | BALL VALVE†    |
| 20NPT-20SAE45                   | 1.25      | 1.25       | 1.51 | 3.96     | 0.75 | 1.88 | 1 1/4-11.5          | 1 5/8-12 | 1.08 | LV2BS#20-2T-MH |
| *24NPT-24SAE45                  | 1.50      | 1.50       | 1.60 | 4.17     | 0.75 | 2.13 | 1 1/2-11.5          | 1 7/8-12 | 1.32 | LV2BS#24-2T-MH |
| *32NPT-32SAE45                  | 2.00      | 2.00       | 1.77 | 4.60     | 0.88 | 2.63 | 2-11.5              | 2 1/2-12 | 1.58 | LV2BS#32-2T-MH |
| *40NPT-40SAE45                  | 2.50      | 2.50       | 2.39 | 5.68     | 1.00 | 3.25 | 2 1/2-8             | 3-12     | 2.09 | LV2BS#40-2T-MH |
| *48NPT-48SAE45                  | 3.00      | 3.00       | 2.48 | 6.18     | 1.00 | 4.00 | 3-8                 | 3 1/2-12 | 2.48 | LV2BS#48-2T-MH |
| *64NPT-64SAE45                  | 4.00      | 4.00       | 3.18 | 7.39     | 1.00 | 5.00 | 4-8                 | 4 1/2-12 | 3.94 | LV2BS#64-2T-MH |



| STRAIGHT SAE THREAD TO TANK COUPLING |           |            |          |      |      |                     |          |      |                |
|--------------------------------------|-----------|------------|----------|------|------|---------------------|----------|------|----------------|
|                                      | LINE SIZE | TANK PILOT | A (REF.) | B    | C    | D (INTERNAL THREAD) | E        | ID   | BALL VALVE†    |
| 20NPT-20SAE                          | 1.25      | 1.25       | 1.38     | 0.75 | 1.88 | 1 1/4-11.5          | 1 5/8-12 | 1.08 | LV2BS#20-2T-MH |
| *24NPT-24SAE                         | 1.50      | 1.50       | 1.51     | 0.75 | 2.13 | 1 1/2-11.5          | 1 7/8-12 | 1.32 | LV2BS#24-2T-MH |
| *32NPT-32SAE                         | 2.00      | 2.00       | 1.51     | 0.88 | 2.63 | 2-11.5              | 2 1/2-12 | 1.58 | LV2BS#32-2T-MH |
| *40NPT-40SAE                         | 2.50      | 2.50       | 1.58     | 1.00 | 3.25 | 2 1/2-8             | 3-12     | 2.09 | LV2BS#40-2T-MH |
| *48NPT-48SAE                         | 3.00      | 3.00       | 1.65     | 1.00 | 4.00 | 3-8                 | 3 1/2-12 | 2.48 | LV2BS#48-2T-MH |
| *64NPT-64SAE                         | 4.00      | 4.00       | 1.65     | 1.00 | 5.00 | 4-8                 | 4 1/2-12 | 3.94 | LV2BS#64-2T-MH |

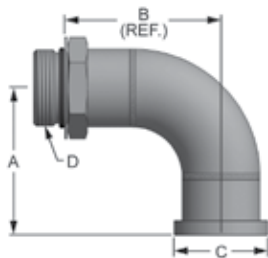
\* Uses Adjustable Spanner

† Optional Ball Valve sold separately

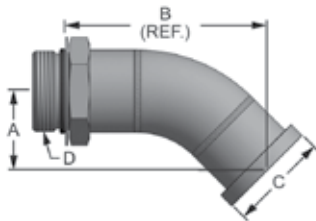
# SAE Thread to Flange Head



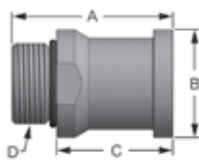
- Suction to 400 psi max
- Buna seals standard / Viton optional
- Carbon steel natural finish
- 90° & 45° SAE thread with adjustable nut
- Material certificates available upon request
- SAE threads manufactured to J1926



| 90° SAE THREAD TO FLANGE HEAD |           |             |      |          |      |          |      |                |               |
|-------------------------------|-----------|-------------|------|----------|------|----------|------|----------------|---------------|
|                               | LINE SIZE | FLANGE SIZE | A    | B (REF.) | C    | D        | ID   | BALL VALVE†    | SPLIT FLANGE† |
| 20SF-20SAE90                  | 1.25      | 1.25        | 3.13 | 3.28     | 2.00 | 1 5/8-12 | 1.08 | LV2BS#20-2T-MH | 20SFO         |
| *24SF-24SAE90                 | 1.50      | 1.50        | 3.50 | 3.65     | 2.38 | 1 7/8-12 | 1.32 | LV2BS#24-2T-MH | 24SFO         |
| *32SF-32SAE90                 | 2.00      | 2.00        | 4.25 | 4.40     | 2.81 | 2 1/2-12 | 1.58 | LV2BS#32-2T-MH | 32SFO         |
| *40SF-40SAE90                 | 2.50      | 2.50        | 5.50 | 5.23     | 3.31 | 3-12     | 2.09 | LV2BS#40-2T-MH | 40SFO         |
| *48SF-48SAE90                 | 3.00      | 3.00        | 6.38 | 6.15     | 4.00 | 3 1/2-12 | 2.48 | LV2BS#48-2T-MH | 48SFO         |
| *64SF-64SAE90                 | 4.00      | 4.00        | 7.75 | 7.65     | 5.00 | 4 1/2-12 | 3.83 | LV2BS#64-2T-MH | 64SFO         |



| 45° SAE THREAD TO FLANGE HEAD |           |             |      |          |      |          |      |                |               |
|-------------------------------|-----------|-------------|------|----------|------|----------|------|----------------|---------------|
|                               | LINE SIZE | FLANGE SIZE | A    | B (REF.) | C    | D        | ID   | BALL VALVE†    | SPLIT FLANGE† |
| 20SF-20SAE45                  | 1.25      | 1.25        | 1.59 | 4.00     | 2.00 | 1 5/8-12 | 1.08 | LV2BS#20-2T-MH | 20SFO         |
| *24SF-24SAE45                 | 1.50      | 1.50        | 1.68 | 4.20     | 2.38 | 1 7/8-12 | 1.32 | LV2BS#24-2T-MH | 24SFO         |
| *32SF-32SAE45                 | 2.00      | 2.00        | 1.86 | 4.64     | 2.81 | 2 1/2-12 | 1.58 | LV2BS#32-2T-MH | 32SFO         |
| *40SF-40SAE45                 | 2.50      | 2.50        | 2.48 | 5.68     | 3.31 | 3-12     | 2.09 | LV2BS#40-2T-MH | 40SFO         |
| *48SF-48SAE45                 | 3.00      | 3.00        | 2.74 | 6.39     | 4.00 | 3 1/2-12 | 2.48 | LV2BS#48-2T-MH | 48SFO         |
| *64SF-64SAE45                 | 4.00      | 4.00        | 3.00 | 7.16     | 5.00 | 4 1/2-12 | 3.83 | LV2BS#64-2T-MH | 64SFO         |



| STRAIGHT SAE THREAD TO FLANGE HEAD |           |             |      |      |      |          |      |                |               |
|------------------------------------|-----------|-------------|------|------|------|----------|------|----------------|---------------|
|                                    | LINE SIZE | FLANGE SIZE | A    | B    | C    | D        | ID   | BALL VALVE†    | SPLIT FLANGE† |
| **302-20-20                        | 1.25      | 1.25        | 3.13 | 2.00 | 2.41 | 1 5/8-12 | 1.08 | LV2BS#20-2T-MH | 20SFO         |
| **302-24-24                        | 1.50      | 1.50        | 3.14 | 2.38 | 2.42 | 1 7/8-12 | 1.32 | LV2BS#24-2T-MH | 24SFO         |
| **302-32-32                        | 2.00      | 2.00        | 3.63 | 2.81 | 2.91 | 2 1/2-12 | 1.57 | LV2BS#32-2T-MH | 32SFO         |
| **302-40-40                        | 2.50      | 2.50        | 4.23 | 3.31 | 3.40 | 3-12     | 2.09 | LV2BS#40-2T-MH | 40SFO         |
| **302-48-48                        | 3.00      | 3.00        | 4.50 | 4.00 | 3.52 | 3 1/2-12 | 2.48 | LV2BS#48-2T-MH | 48SFO         |
| **302-64-64                        | 4.00      | 4.00        | 4.14 | 5.00 | 3.45 | 4 1/2-12 | 3.94 | LV2BS#64-2T-MH | 64SFO         |

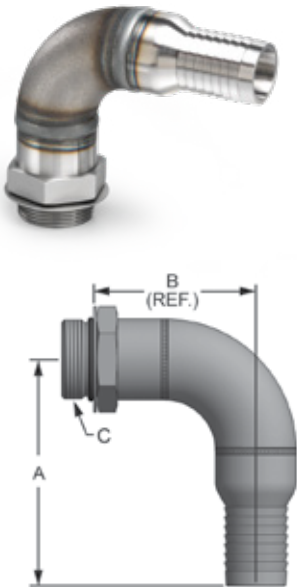
\* Uses Adjustable Spanner

\*\* 302 Series Silver Trivalent Plated

† Optional Ball Valve & Split Flange sold separately

# Hose Barb to SAE Thread

- Suction to 400 PSI max
- Buna seals standard / Viton optional
- Carbon steel natural finish
- 90° & 45° SAE thread with adjustable nut
- Material certificates available upon request
- SAE threads manufactured to J1926

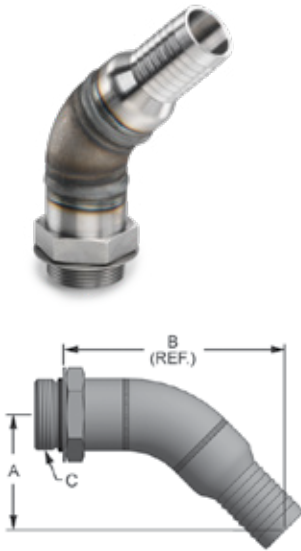


| 90° HOSE BARB TO SAE THREAD |                      |                |       |             |          |       |        |                |
|-----------------------------|----------------------|----------------|-------|-------------|----------|-------|--------|----------------|
|                             | HOSE<br>BARB<br>SIZE | THREAD<br>SIZE | A     | B<br>(REF.) | C        | HB ID | SAE ID | BALL VALVE†    |
| 20HB-20SAE90                | 1.25"                | 1.25"          | 4.64  | 3.28        | 1 5/8-12 | 1.03  | 1.08   | LV2BS#20-2T-MH |
| 24HB-20SAE90                | 1.5"                 | 1.25"          | 4.64  | 3.28        | 1 5/8-12 | 1.28  | 1.08   | LV2BS#20-2T-MH |
| *20HB-24SAE90               | 1.25"                | 1.5"           | 5.00  | 3.65        | 1 7/8-12 | 1.03  | 1.32   | LV2BS#24-2T-MH |
| *24HB-24SAE90               | 1.5"                 | 1.5"           | 5.00  | 3.65        | 1 7/8-12 | 1.28  | 1.32   | LV2BS#24-2T-MH |
| *32HB-24SAE90               | 2.0"                 | 1.5"           | 5.00  | 3.65        | 1 7/8-12 | 1.75  | 1.32   | LV2BS#24-2T-MH |
| *40HB-24SAE90               | 2.5"                 | 1.5"           | 5.00  | 3.65        | 1 7/8-12 | 2.17  | 1.32   | LV2BS#24-2T-MH |
| *24HB-32SAE90               | 1.5"                 | 2.0"           | 6.19  | 4.40        | 2 1/2-12 | 1.28  | 1.58   | LV2BS#32-2T-MH |
| *32HB-32SAE90               | 2.0"                 | 2.0"           | 6.19  | 4.40        | 2 1/2-12 | 1.75  | 1.58   | LV2BS#32-2T-MH |
| *40HB-32SAE90               | 2.5"                 | 2.0"           | 6.19  | 4.40        | 2 1/2-12 | 2.17  | 1.58   | LV2BS#32-2T-MH |
| *48HB-32SAE90               | 3.0"                 | 2.0"           | 6.19  | 4.40        | 2 1/2-12 | 2.72  | 1.58   | LV2BS#32-2T-MH |
| *24HB-40SAE90               | 1.5"                 | 2.5"           | 7.50  | 5.23        | 3-12     | 1.28  | 2.09   | LV2BS#40-2T-MH |
| *32HB-40SAE90               | 2.0"                 | 2.5"           | 7.50  | 5.23        | 3-12     | 1.75  | 2.09   | LV2BS#40-2T-MH |
| 40HB-40SAE90                | 2.5"                 | 2.5"           | 7.50  | 5.23        | 3-12     | 2.17  | 2.09   | LV2BS#40-2T-MH |
| *48HB-40SAE90               | 3.0"                 | 2.5"           | 7.50  | 5.23        | 3-12     | 2.72  | 2.09   | LV2BS#40-2T-MH |
| *64HB-40SAE90               | 4.0"                 | 2.5"           | 8.13  | 5.23        | 3-12     | 3.69  | 2.09   | LV2BS#40-2T-MH |
| *32HB-48SAE90               | 2.0"                 | 3.0"           | 8.75  | 6.15        | 3 1/2-12 | 1.75  | 2.48   | LV2BS#48-2T-MH |
| *40HB-48SAE90               | 2.5"                 | 3.0"           | 8.75  | 6.15        | 3 1/2-12 | 2.17  | 2.48   | LV2BS#48-2T-MH |
| *48HB-48SAE90               | 3.0"                 | 3.0"           | 8.75  | 6.15        | 3 1/2-12 | 2.72  | 2.48   | LV2BS#48-2T-MH |
| *64HB-48SAE90               | 4.0"                 | 3.0"           | 8.75  | 6.15        | 3 1/2-12 | 3.69  | 2.48   | LV2BS#48-2T-MH |
| *40HB-64SAE90               | 2.5"                 | 4.0"           | 10.75 | 7.65        | 4 1/2-12 | 2.17  | 3.94   | LV2BS#64-2T-MH |
| *48HB-64SAE90               | 3.0"                 | 4.0"           | 10.75 | 7.65        | 4 1/2-12 | 2.72  | 3.94   | LV2BS#64-2T-MH |
| *64HB-64SAE90               | 4.0"                 | 4.0"           | 10.75 | 7.65        | 4 1/2-12 | 3.69  | 3.94   | LV2BS#64-2T-MH |

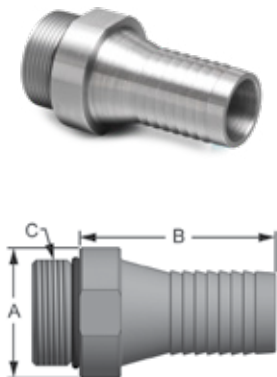
\* Uses Adjustable Spanner

† Optional Ball Valve sold separately





| 45° HOSE BARB TO SAE THREAD |                      |                |      |             |          |       |        |                |
|-----------------------------|----------------------|----------------|------|-------------|----------|-------|--------|----------------|
|                             | HOSE<br>BARB<br>SIZE | THREAD<br>SIZE | A    | B<br>(REF.) | C        | HB ID | SAE ID | BALL VALVE†    |
| 20HB-20SAE45                | 1.25"                | 1.25"          | 2.66 | 5.06        | 1 5/8-12 | 1.03  | 1.08   | LV2BS#20-2T-MH |
| 24HB-20SAE45                | 1.5"                 | 1.25"          | 2.66 | 5.06        | 1 5/8-12 | 1.28  | 1.08   | LV2BS#20-2T-MH |
| *20HB-24SAE45               | 1.25"                | 1.5"           | 2.74 | 5.26        | 1 7/8-12 | 1.03  | 1.32   | LV2BS#24-2T-MH |
| *24HB-24SAE45               | 1.5"                 | 1.5"           | 2.74 | 5.26        | 1 7/8-12 | 1.28  | 1.32   | LV2BS#24-2T-MH |
| *32HB-24SAE45               | 2.0"                 | 1.5"           | 2.74 | 5.26        | 1 7/8-12 | 1.75  | 1.32   | LV2BS#24-2T-MH |
| *40HB-24SAE45               | 2.5"                 | 1.5"           | 2.74 | 5.26        | 1 7/8-12 | 2.17  | 1.32   | LV2BS#24-2T-MH |
| *24HB-32SAE45               | 1.5"                 | 2.0"           | 3.23 | 6.01        | 2 1/2-12 | 1.28  | 1.58   | LV2BS#32-2T-MH |
| *32HB-32SAE45               | 2.0"                 | 2.0"           | 3.23 | 6.01        | 2 1/2-12 | 1.75  | 1.58   | LV2BS#32-2T-MH |
| *40HB-32SAE45               | 2.5"                 | 2.0"           | 3.23 | 6.01        | 2 1/2-12 | 2.17  | 1.58   | LV2BS#32-2T-MH |
| *48HB-32SAE45               | 3.0"                 | 2.0"           | 3.23 | 6.01        | 2 1/2-12 | 2.72  | 1.58   | LV2BS#32-2T-MH |
| *24HB-40SAE45               | 1.5"                 | 2.5"           | 3.89 | 7.12        | 3-12     | 1.28  | 2.09   | LV2BS#40-2T-MH |
| 32HB-40SAE45                | 2.0"                 | 2.5"           | 3.89 | 7.12        | 3-12     | 1.75  | 2.09   | LV2BS#40-2T-MH |
| *40HB-40SAE45               | 2.5"                 | 2.5"           | 3.89 | 7.12        | 3-12     | 2.17  | 2.09   | LV2BS#40-2T-MH |
| *48HB-40SAE45               | 3.0"                 | 2.5"           | 3.89 | 7.12        | 3-12     | 2.72  | 2.09   | LV2BS#40-2T-MH |
| *64HB-40SAE45               | 4.0"                 | 2.5"           | 4.33 | 7.56        | 3-12     | 3.69  | 2.09   | LV2BS#40-2T-MH |
| *32HB-48SAE45               | 2.0"                 | 3.0"           | 4.42 | 8.07        | 3 1/2-12 | 1.75  | 2.48   | LV2BS#48-2T-MH |
| *40HB-48SAE45               | 2.5"                 | 3.0"           | 4.42 | 8.07        | 3 1/2-12 | 2.17  | 2.48   | LV2BS#48-2T-MH |
| *48HB-48SAE45               | 3.0"                 | 3.0"           | 4.42 | 8.07        | 3 1/2-12 | 2.72  | 2.48   | LV2BS#48-2T-MH |
| *64HB-48SAE45               | 4.0"                 | 3.0"           | 4.42 | 8.07        | 3 1/2-12 | 3.69  | 2.48   | LV2BS#48-2T-MH |
| *40HB-64SAE45               | 2.5"                 | 4.0"           | 5.13 | 9.28        | 4 1/2-12 | 2.17  | 3.94   | LV2BS#64-2T-MH |
| *48HB-64SAE45               | 3.0"                 | 4.0"           | 5.13 | 9.28        | 4 1/2-12 | 2.72  | 3.94   | LV2BS#64-2T-MH |
| *64HB-64SAE45               | 4.0"                 | 4.0"           | 5.13 | 9.28        | 4 1/2-12 | 3.69  | 3.94   | LV2BS#64-2T-MH |



| STRAIGHT HOSE BARB TO SAE THREAD |                      |                |      |      |          |       |        |                |
|----------------------------------|----------------------|----------------|------|------|----------|-------|--------|----------------|
|                                  | HOSE<br>BARB<br>SIZE | THREAD<br>SIZE | A    | B    | C        | HB ID | SAE ID | BALL VALVE†    |
| 20HB-20SAE                       | 1.25"                | 1.25"          | 2.00 | 3.01 | 1 5/8-12 | 1.03  | 1.08   | LV2BS#20-2T-MH |
| 24HB-20SAE                       | 1.5"                 | 1.25"          | 2.00 | 3.01 | 1 5/8-12 | 1.28  | 1.08   | LV2BS#20-2T-MH |
| 20HB-24SAE                       | 1.25"                | 1.5"           | 2.50 | 3.01 | 1 7/8-12 | 1.03  | 1.14   | LV2BS#24-2T-MH |
| 24HB-24SAE                       | 1.5"                 | 1.5"           | 2.50 | 3.01 | 1 7/8-12 | 1.28  | 1.32   | LV2BS#24-2T-MH |
| 32HB-24SAE                       | 2.0"                 | 1.5"           | 2.50 | 3.45 | 1 7/8-12 | 1.75  | 1.32   | LV2BS#24-2T-MH |
| 40HB-24SAE                       | 2.5"                 | 1.5"           | 2.50 | 3.97 | 1 7/8-12 | 2.17  | 1.32   | LV2BS#24-2T-MH |
| 24HB-32SAE                       | 1.5"                 | 2.0"           | 3.25 | 3.01 | 2 1/2-12 | 1.28  | 1.58   | LV2BS#32-2T-MH |
| 32HB-32SAE                       | 2.0"                 | 2.0"           | 3.25 | 3.45 | 2 1/2-12 | 1.58  | 1.58   | LV2BS#32-2T-MH |
| 40HB-32SAE                       | 2.5"                 | 2.0"           | 3.25 | 3.97 | 2 1/2-12 | 2.17  | 1.58   | LV2BS#32-2T-MH |
| 48HB-32SAE                       | 3.0"                 | 2.0"           | 3.25 | 4.59 | 2 1/2-12 | 2.72  | 1.58   | LV2BS#32-2T-MH |
| 24HB-40SAE                       | 1.5"                 | 2.5"           | 3.75 | 3.05 | 3-12     | 1.28  | 2.56   | LV2BS#40-2T-MH |
| 32HB-40SAE                       | 2.0"                 | 2.5"           | 3.75 | 3.49 | 3-12     | 1.75  | 2.56   | LV2BS#40-2T-MH |
| 40HB-40SAE                       | 2.5"                 | 2.5"           | 3.75 | 4.01 | 3-12     | 2.09  | 2.09   | LV2BS#40-2T-MH |
| 48HB-40SAE                       | 3.0"                 | 2.5"           | 3.75 | 4.63 | 3-12     | 2.72  | 2.56   | LV2BS#40-2T-MH |
| 64HB-40SAE                       | 4.0"                 | 2.5"           | 3.75 | 5.13 | 3-12     | 3.69  | 2.56   | LV2BS#40-2T-MH |
| 32HB-48SAE                       | 2.0"                 | 3.0"           | 4.50 | 3.49 | 3 1/2-12 | 1.75  | 2.95   | LV2BS#48-2T-MH |
| 40HB-48SAE                       | 2.5"                 | 3.0"           | 4.50 | 4.01 | 3 1/2-12 | 2.17  | 2.95   | LV2BS#48-2T-MH |
| 48HB-48SAE                       | 3.0"                 | 3.0"           | 4.50 | 4.63 | 3 1/2-12 | 2.48  | 2.48   | LV2BS#48-2T-MH |
| 64HB-48SAE                       | 4.0"                 | 3.0"           | 4.50 | 5.13 | 3 1/2-12 | 3.69  | 2.95   | LV2BS#48-2T-MH |
| 40HB-64SAE                       | 2.5"                 | 4.0"           | 5.50 | 4.01 | 4 1/2-12 | 2.17  | 3.94   | LV2BS#64-2T-MH |
| 48HB-64SAE                       | 3.0"                 | 4.0"           | 5.50 | 4.63 | 4 1/2-12 | 2.72  | 3.94   | LV2BS#64-2T-MH |
| 64HB-64SAE                       | 4.0"                 | 4.0"           | 5.50 | 5.13 | 4 1/2-12 | 3.69  | 3.94   | LV2BS#64-2T-MH |

\* Uses Adjustable Spanner

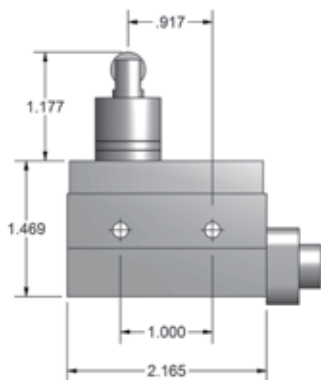
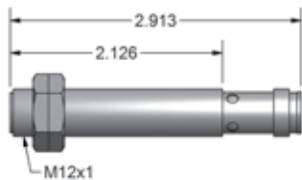
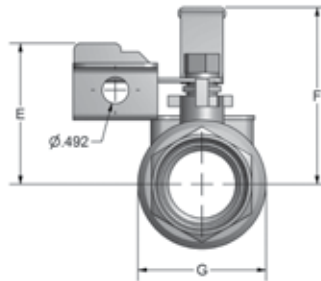
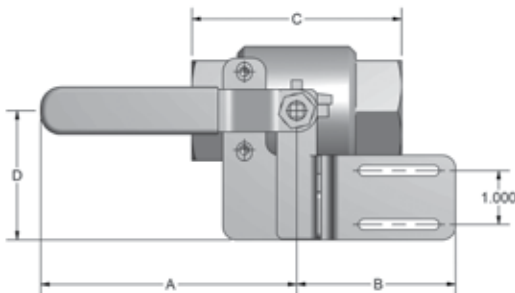
† Optional Ball Valve sold separately



## Suction and Return Line Valves



- All stainless steel construction
- Locking handle standard
- SAE threads manufactured to J1926
- Bracket designed to support limit switch or proximity sensor
- Prox is M12 4-Pin connector, normally open, and VDC only
- Limit can be wired VDC or VAC and normally open or normally closed
- Both limit and prox have IP67 rating



| LV2B SERIES - SAE |         |       |      |      |      |      |      |      |      |
|-------------------|---------|-------|------|------|------|------|------|------|------|
| SIZE              | PSI MAX | A     | B    | C    | D    | E    | F    | G    | ID   |
| 1"                | 1000    | 5.00  | 2.90 | 3.60 | 2.45 | 2.50 | 3.25 | 2.07 | 0.98 |
| 1-1/4"            | 1000    | 5.15  | 2.95 | 3.95 | 2.45 | 2.85 | 3.10 | 2.36 | 1.26 |
| 1-1/2"            | 1000    | 6.10  | 2.96 | 4.24 | 2.38 | 3.28 | 3.97 | 2.77 | 1.50 |
| 2"                | 1000    | 6.10  | 2.91 | 4.88 | 2.38 | 3.53 | 4.34 | 3.50 | 1.97 |
| 2-1/2"            | 1000    | 9.06  | 2.86 | 6.30 | 2.84 | 4.18 | 5.20 | 4.53 | 2.56 |
| 3"                | 1000    | 9.06  | 2.91 | 7.26 | 3.07 | 4.70 | 5.71 | 5.35 | 3.15 |
| 4"                | 500     | 13.00 | 2.90 | 8.80 | 3.11 | 6.10 | 7.11 | 7.02 | 3.93 |

\*For Technical and Material info refer to page 46

LV2BS#16 - 2T - MHS

B: Bracket only, No Limit Switch or Proximity Sensor  
S: Bracket and Limit Switch  
P: Bracket and Proximity Sensor  
Omit: No bracket, Limit Switch, or Proximity Sensor

THREAD SIZE

**ANCHOR  
FLUID POWER**

866-FLANGES | 513.527.4444 | Fax 513.527.4449

sales@anchorfluidpower.com | anchorfluidpower.com

# BALL VALVES

This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across its entire width, providing a guide for handwriting or typing. The paper itself is a clean, off-white color.

## QUICK COUPLINGS

# WELD COUPLINGS

## SUCTION AND RETURN

# C/S FLANGES

## S/S FLANGES

# FLANGES - CARBON STEEL



866-FLANGES | 513.527.4444 | Fax 513.527.4449  
sales@anchorfluidpower.com | anchorfluidpower.com

## FLANGES - CARBON STEEL

### SAE J518 Split/Captive Flanges

For SAE Flanged Head Connection

|               |    |
|---------------|----|
| CD 61 - CD 62 | 78 |
|---------------|----|

### Split Flange Adapters

|                                              |    |
|----------------------------------------------|----|
| CD 61 - CD 62 JIC Thread                     | 78 |
| CD 61 - CD 62 SAE Straight Thread            | 79 |
| CD 61 - CD 62 ORFS Thread                    | 80 |
| CD 61 - CD 62 45° Elbow JIC Thread           | 80 |
| CD 61 - CD 62 45° Elbow ORFS Thread          | 80 |
| CD 61 - CD 62 90° Elbow JIC Thread           | 81 |
| CD 61 - CD 62 90° Elbow ORFS Thread          | 81 |
| CD 61 Flange Head X Flange Head              | 82 |
| CD 61 Butt Weld-Sched 40/Sched 80/Sched 160  | 83 |
| CD 62 Butt Weld-Sched 80/Sched 160/Sched XXS | 84 |
| CD 61 - CD 62 Socket Weld                    | 85 |
| CD 61 NPTF Thread                            | 85 |
| CD 61 SAE Thread                             | 85 |
| CD 61 - CD 62 Tube Flange Head Fitting       | 86 |
| CD 61 - CD 62 Braze-On                       | 87 |
| CD 61 - JIC Braze-On                         | 88 |
| CD 61 - Cat-Style Split Flanges              | 89 |
| CD 61 - Cat-Style JIC Thread Flange Adapter  | 89 |
| CD 61 - CD 62 Flange Plug                    | 90 |
| CD 61 - Cat-Style Flange Plug                | 90 |

### SAE 4 Bolt Flanges

|                                              |     |
|----------------------------------------------|-----|
| CD 61 - CD 62 Spacer Blocks with Gauge Port  | 93  |
| CD 61 - CD 62 Blanking                       | 96  |
| CD 61 - CD 62 NPTF                           | 98  |
| CD 61 - CD 62 SAE Thread                     | 99  |
| CD 61 - CD 62 BSPP Thread                    | 100 |
| CD 61 - CD 62 Male JIC                       | 101 |
| CD 61 - CD 62 Male ORFS                      | 102 |
| CD 61 - CD 62 Flat Socket Weld Pipe          | 103 |
| CD 61 - CD 62 Flat Socket Weld Tube          | 104 |
| CD 61 - CD 62 Deep Socket Weld Pipe          | 105 |
| CD 61 - CD 62 Deep Socket Weld Tube          | 106 |
| CD 61 Butt Weld-Sched 40/Sched 80/Sched 160  | 107 |
| CD 62 Butt Weld-Sched 80/Sched 160/Sched XXS | 108 |
| CD 61 Saddle Weld                            | 109 |
| CD 61 Tank Pilot                             | 110 |
| CD 61 - CD 62 Elbow Block                    | 111 |
| CD 61 - CD 62 Elbow NPTF & SAE Thread        | 113 |
| CD 61 Elbow Socket Weld Pipe                 | 114 |
| CD 62 Elbow Socket Weld Tube                 | 115 |

### Square 4 Bolt Flanges

|                              |     |
|------------------------------|-----|
| 3000 Series Flat Socket Weld | 116 |
| 3000 Series NPTF Thread      | 116 |
| 6000 Series Flat Socket Weld | 117 |

### Miscellaneous Components

|                                    |     |
|------------------------------------|-----|
| CAT-Style Split Flange             | 89  |
| CD 61 - CD 62 Braze-On ORFS Thread | 87  |
| CD 61 - CD 62 Braze-On JIC Thread  | 88  |
| CD 61 - CD 62 Connector Plates     | 91  |
| CD 61 - CD 62 Connector Blocks     | 91  |
| CD 61 - CD 62 Double O-Ring Union  | 92  |
| CD 61 - CD 62 Orifice Plate        | 94  |
| CD 61 - CD 62 Bolt Pattern Adapter | 95  |
| CD 61 - CD 62 Shipping Plates      | 97  |
| CD 61 - CD 62 Tee Junction Block   | 112 |
| O-Rings                            | 133 |

INLINE  
VALVES

BALL  
VALVES

QUICK  
COUPLINGS

WELD  
COUPLINGS

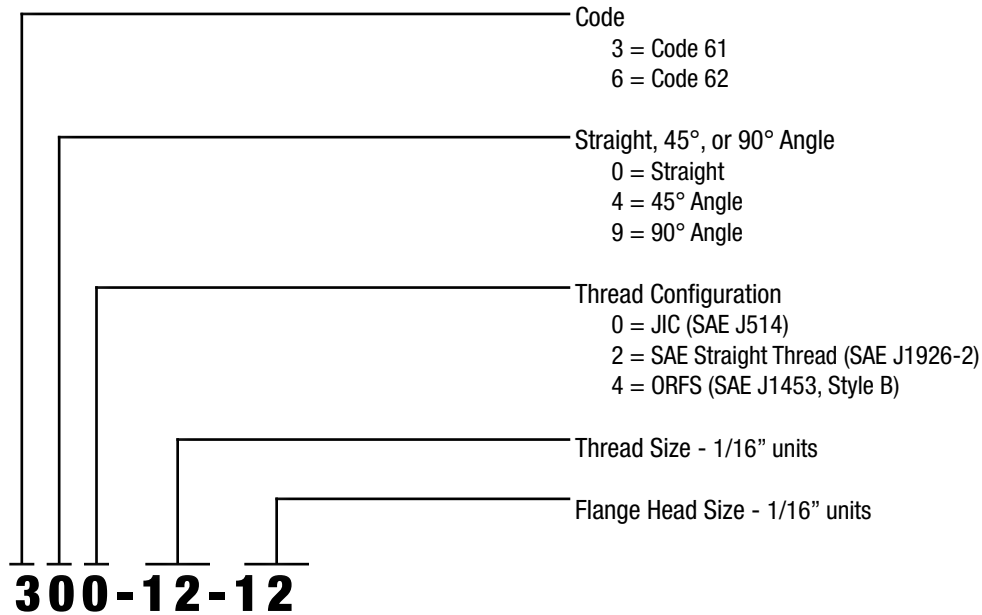
SUCTION  
AND RETURN

C/S  
FLANGES

S/S  
FLANGES

# Ordering System

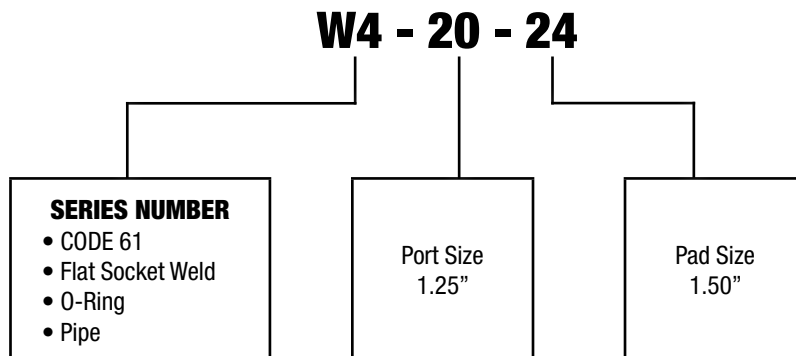
## SPLIT FLANGE ADAPTERS



For additional jump sizes, please consult factory.

## FLANGES

Our basic part numbering system is simple to use. The explanation of our part numbering system is detailed below. The series number provides the greatest amount of information pertaining to the flange product. The port size and pad size simply refer to size only, with all sizes based on 1/16 of an inch.



NOTE #1 – All items available with mounting kit by simply adding suffix letter "U".

NOTE #2 – All items available in stainless steel material by simply adding the suffix letters "SS".

NOTE #3 – All items available with metric mounting holes simply by adding the appropriate suffix (IE: M10, M12, etc.).

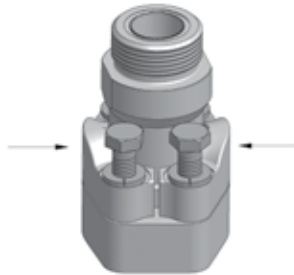


# General Information

## SPLIT FLANGE CLAMP

Clean the sealing surfaces and make certain they are free from nicks, scratches and burrs. Foreign material prevents a proper seal.

Lubricate the o-ring and ensure that it is properly installed as to prevent damage during installation.



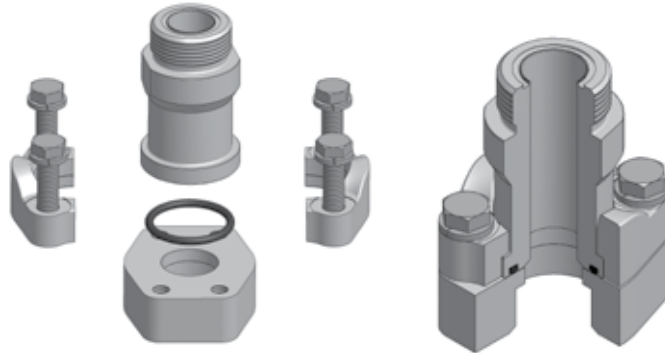
Push the flange clamps towards the flange head and screw fasteners into flange pad. Continue to screw the fasteners until their heads just meet the split flange surface.



Torque the fasteners in diagonal sequence, in small increments, until final torque level is achieved. Torque values for flange connections listed above. Notice that the torque values vary according to size and fastener type.

Anchor Fluid Power split flange connections are manufactured according to SAE J518-1 and -2, as well as ISO 6162-1 and -2. These standards control dimensions, tolerances and plating. Please note that the above pressure rating chart refers to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends, could reduce maximum working pressure.

Please consult with Anchor Fluid Power for pressure rating specific to your connection requirement.



## PRESSURE RATINGS OF SAE FLANGES

| CODE 61 SAE J518-1 / ISO 6162-1 |           |                      |      |                                              |                      |
|---------------------------------|-----------|----------------------|------|----------------------------------------------|----------------------|
| DASH SIZE                       | INCH SIZE | MAX WORKING PRESSURE |      | GRADE 8 AND EQUIVALENT FASTENER TORQUE VALUE |                      |
|                                 |           | PSI                  | MPA  | SOCKET HEAD UNC (LB-FT)                      | HEX HEAD UNC (LB-FT) |
| -8                              | 1/2"      | 5000                 | 35   | 24                                           | 18                   |
| -12                             | 3/4"      | 5000                 | 35   | 44                                           | 33                   |
| -16                             | 1"        | 4600                 | 32   | 44                                           | 33                   |
| -20                             | 1 1/4"    | 4000                 | 28   | 68                                           | 52                   |
| -24                             | 1 1/2"    | 3000                 | 21   | 111                                          | 80                   |
| -32                             | 2"        | 3000                 | 21   | 111                                          | 80                   |
| -40                             | 2 1/2"    | 2500                 | 17.5 | 111                                          | 80                   |
| -48                             | 3"        | 2300                 | 16   | 218                                          | 160                  |
| -56                             | 3 1/2"    | 500                  | 3.5  | 218                                          | 160                  |
| -64                             | 4"        | 500                  | 3.5  | 218                                          | 160                  |
| -80                             | 5"        | 500                  | 3.5  | 218                                          | 160                  |

| CODE 62 SAE J518-2 / ISO 6162-2 |           |                      |     |                                              |                      |
|---------------------------------|-----------|----------------------|-----|----------------------------------------------|----------------------|
| DASH SIZE                       | INCH SIZE | MAX WORKING PRESSURE |     | GRADE 8 AND EQUIVALENT FASTENER TORQUE VALUE |                      |
|                                 |           | PSI                  | MPA | SOCKET HEAD UNC (LB-FT)                      | HEX HEAD UNC (LB-FT) |
| -8                              | 1/2"      | 6000                 | 40  | 24                                           | 18                   |
| -12                             | 3/4"      | 6000                 | 40  | 44                                           | 33                   |
| -16                             | 1"        | 6000                 | 40  | 68                                           | 52                   |
| -20                             | 1 1/4"    | 6000                 | 40  | 111                                          | 80                   |
| -24                             | 1 1/2"    | 6000                 | 40  | 218                                          | 160                  |
| -32                             | 2"        | 6000                 | 40  | 332                                          | 281                  |
| -40                             | 2 1/2"    | 6000                 | 40  | N/A                                          | 605                  |
| -48                             | 3"        | 6000                 | 40  | N/A                                          | 1280                 |

\*\*All max working pressures listed above are specific to the SAE J518/ISO 6162 bolt pattern. Features within the 4-Bolt flange and the connection opposite the 4-Bolt flange can de-rate the maximum working pressure.

NOTE - All carbon steel torque values are based on AFP supplied socket head and hex head fasteners. Use of alternate fasteners can affect torque value. Consult factory for additional information.

# J518 Split & Captive Flange

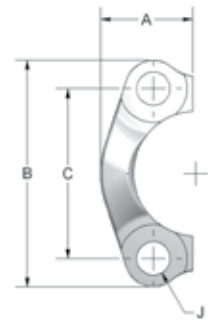
**CODE 61 SPLIT FLANGE**

| *PART NO. | **KIT PART NO. | FLANGE SIZE | A    | B    | C     | D    | E    | F     | G     | H    | J    | MOUNTING HARDWARE |              |
|-----------|----------------|-------------|------|------|-------|------|------|-------|-------|------|------|-------------------|--------------|
|           |                |             |      |      |       |      |      |       |       |      |      | O-RING            | HHCS         |
| 8SF-2     | 8SF0           | .50         | .86  | 2.12 | 1.500 | .75  | .50  | 1.219 | .955  | .245 | .350 | 210               | 5/16-18X1.25 |
| 12SF-2    | 12SF0          | .75         | .98  | 2.56 | 1.875 | .88  | .56  | 1.531 | 1.265 | .245 | .417 | 214               | 3/8-16X1.25  |
| 16SF-2    | 16SF0          | 1.00        | 1.11 | 2.75 | 2.062 | .94  | .62  | 1.781 | 1.515 | .295 | .417 | 219               | 3/8-16X1.25  |
| 20SF-2    | 20SF0          | 1.25        | 1.39 | 3.12 | 2.312 | .88  | .56  | 2.031 | 1.720 | .295 | .472 | 222               | 7/16-14X1.50 |
| 24SF-2    | 24SF0          | 1.50        | 1.58 | 3.69 | 2.750 | 1.00 | .62  | 2.406 | 2.000 | .295 | .524 | 225               | 1/2-13X1.50  |
| 32SF-2    | 32SF0          | 2.00        | 1.86 | 4.00 | 3.062 | 1.03 | .62  | 2.844 | 2.470 | .355 | .524 | 228               | 1/2-13X1.50  |
| 40SF-2    | 40SF0          | 2.50        | 2.09 | 4.50 | 3.500 | 1.50 | .75  | 3.344 | 2.950 | .355 | .524 | 232               | 1/2-13X1.75  |
| 48SF-2    | 48SF0          | 3.00        | 2.53 | 5.31 | 4.188 | 1.62 | .88  | 4.031 | 3.580 | .355 | .657 | 237               | 5/8-11X1.75  |
| 56SF-2    | 56SF0          | 3.50        | 2.70 | 6.00 | 4.750 | 1.12 | .88  | 4.531 | 4.030 | .422 | .657 | 241               | 5/8-11X2.00  |
| 64SF-2    | 64SF0          | 4.00        | 2.95 | 6.38 | 5.125 | 1.38 | 1.00 | 5.031 | 4.530 | .422 | .657 | 245               | 5/8-11X2.00  |



**CODE 62 SPLIT FLANGE**

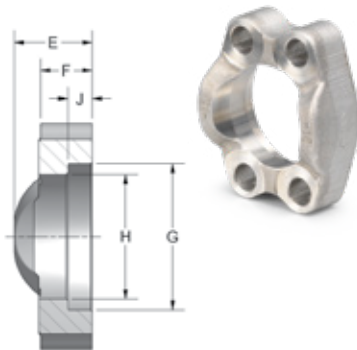
| *PART NO. | **KIT PART NO. | FLANGE SIZE | A    | B    | C     | D    | E    | F     | G     | H    | J    | MOUNTING HARDWARE |              |
|-----------|----------------|-------------|------|------|-------|------|------|-------|-------|------|------|-------------------|--------------|
|           |                |             |      |      |       |      |      |       |       |      |      | O-RING            | HHCS         |
| 8SFX-2    | 8SFX0          | .50         | .89  | 2.22 | 1.594 | .88  | .62  | 1.281 | .970  | .285 | .350 | 210               | 5/16-18X1.25 |
| 12SFX-2   | 12SFX0         | .75         | 1.14 | 2.81 | 2.000 | 1.12 | .75  | 1.656 | 1.280 | .325 | .417 | 214               | 3/8-16X1.50  |
| 16SFX-2   | 16SFX0         | 1.00        | 1.33 | 3.19 | 2.250 | 1.31 | .94  | 1.906 | 1.530 | .355 | .472 | 219               | 7/16-14X1.75 |
| 20SFX-2   | 20SFX0         | 1.25        | 1.48 | 3.75 | 2.625 | 1.50 | 1.06 | 2.156 | 1.750 | .385 | .524 | 222               | 1/2-13X1.75  |
| 24SFX-2   | 24SFX0         | 1.50        | 1.83 | 4.44 | 3.125 | 1.69 | 1.19 | 2.531 | 2.030 | .475 | .657 | 225               | 5/8-11X2.25  |
| 32SFX-2   | 32SFX0         | 2.00        | 2.20 | 5.25 | 3.812 | 2.06 | 1.44 | 3.156 | 2.660 | .475 | .811 | 228               | 3/4-10X2.75  |



\*Anchor part # includes: (1) split flange half only

\*\*Kit part # includes: (2) split flange halves, (4) hex head screws with flat washers, (1) Buna N O-Ring

Split flange halves are silver trivalent plated



**CODE 61 CAPTIVE FLANGE**

| DRILLED PART NO. | TAPPED PART NO. | FLANGE SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J    | K    | K UNC-2B |
|------------------|-----------------|-------------|------|------|-------|-------|------|------|-------|-------|------|------|----------|
| 8SFW             | 8SFTW           | .50         | 1.81 | 2.12 | .688  | 1.500 | .75  | .50  | 1.219 | .955  | .245 | .344 | 5/16-18  |
| 12SFW            | 12SFTW          | .75         | 2.06 | 2.56 | .875  | 1.875 | .88  | .56  | 1.531 | 1.265 | .245 | .406 | 3/8-16   |
| 16SFW            | 16SFTW          | 1.00        | 2.31 | 2.75 | 1.031 | 2.062 | .94  | .62  | 1.781 | 1.515 | .295 | .406 | 3/8-16   |
| 20SFW            | 20SFTW          | 1.25        | 2.88 | 3.12 | 1.188 | 2.312 | .88  | .56  | 2.031 | 1.720 | .295 | .469 | 7/16-14  |
| 24SFW            | 24SFTW          | 1.50        | 3.25 | 3.69 | 1.406 | 2.750 | 1.00 | .62  | 2.406 | 2.000 | .295 | .531 | 1/2-13   |
| 32SFW            | 32SFTW          | 2.00        | 3.81 | 4.00 | 1.688 | 3.062 | 1.03 | .62  | 2.844 | 2.470 | .355 | .531 | 1/2-13   |
| 40SFW            | 40SFTW          | 2.50        | 4.28 | 4.50 | 2.000 | 3.500 | 1.50 | .75  | 3.344 | 2.950 | .355 | .531 | 1/2-13   |
| 48SFW            | 48SFTW          | 3.00        | 5.16 | 5.31 | 2.438 | 4.188 | 1.62 | .88  | 4.031 | 3.580 | .355 | .656 | 5/8-11   |
| 56SFW            | 56SFTW          | 3.50        | 5.50 | 6.00 | 2.750 | 4.750 | 1.12 | .88  | 4.531 | 4.030 | .422 | .656 | 5/8-11   |
| 64SFW            | 64SFTW          | 4.00        | 6.00 | 6.38 | 3.062 | 5.125 | 1.38 | 1.00 | 5.031 | 4.530 | .422 | .656 | 5/8-11   |

**CODE 62 CAPTIVE FLANGE**

| DRILLED PART NO. | TAPPED PART NO. | FLANGE SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J    | K    | K UNC-2B |
|------------------|-----------------|-------------|------|------|-------|-------|------|------|-------|-------|------|------|----------|
| 8SFXW            | 8SFXTW          | .50         | 1.86 | 2.22 | .718  | 1.594 | .88  | .62  | 1.281 | .970  | .285 | .344 | 5/16-18  |
| 12SFXW           | 12SFXTW         | .75         | 2.38 | 2.81 | .937  | 2.000 | 1.12 | .75  | 1.656 | 1.280 | .325 | .406 | 3/8-16   |
| 16SFXW           | 16SFXTW         | 1.00        | 2.75 | 3.19 | 1.093 | 2.250 | 1.31 | .94  | 1.906 | 1.530 | .355 | .469 | 7/16-14  |
| 20SFXW           | 20SFXTW         | 1.25        | 3.06 | 3.75 | 1.250 | 2.625 | 1.50 | 1.06 | 2.156 | 1.750 | .385 | .531 | 1/2-13   |
| 24SFXW           | 24SFXTW         | 1.50        | 3.75 | 4.44 | 1.437 | 3.125 | 1.69 | 1.19 | 2.531 | 2.030 | .475 | .656 | 5/8-11   |
| 32SFXW           | 32SFXTW         | 2.00        | 4.50 | 5.25 | 1.750 | 3.812 | 2.06 | 1.44 | 3.156 | 2.660 | .475 | .781 | 3/4-10   |

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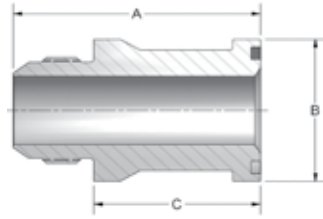
**866-FLANGES | 513.527.4444 | Fax 513.527.4449**

[sales@anchorfluidpower.com](mailto:sales@anchorfluidpower.com) | [anchorfluidpower.com](http://anchorfluidpower.com)



# Split Flange Adapters

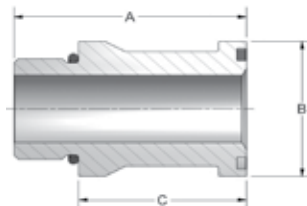
## JIC THREAD



| CODE 61 JIC THREAD |           |             |      |       |      |           |
|--------------------|-----------|-------------|------|-------|------|-----------|
| PART NO.           | TUBE O.D. | FLANGE SIZE | A    | B     | C    | THREAD    |
| 300-8-8            | 1/2       | 1/2         | 2.60 | 1.188 | 1.94 | 3/4-16    |
| 300-8-12           | 1/2       | 3/4         | 2.75 | 1.500 | 2.09 | 3/4-16    |
| 300-12-12          | 3/4       | 3/4         | 2.75 | 1.500 | 1.89 | 1 1/16-12 |
| 300-16-12          | 1         | 3/4         | 2.75 | 1.500 | 1.84 | 1 5/16-12 |
| 300-12-16          | 3/4       | 1           | 2.80 | 1.750 | 1.94 | 1 1/16-12 |
| 300-16-16          | 1         | 1           | 2.80 | 1.750 | 1.89 | 1 5/16-12 |
| 300-20-16          | 1 1/4     | 1           | 2.80 | 1.750 | 1.84 | 1 5/8-12  |
| 300-12-20          | 3/4       | 1 1/4       | 2.80 | 2.000 | 1.94 | 1 1/16-12 |
| 300-16-20          | 1         | 1 1/4       | 2.80 | 2.000 | 1.89 | 1 5/16-12 |
| 300-20-20          | 1 1/4     | 1 1/4       | 2.80 | 2.000 | 1.84 | 1 5/8-12  |
| 300-24-20          | 1 1/2     | 1 1/4       | 3.40 | 2.000 | 2.32 | 1 7/8-12  |
| 300-16-24          | 1         | 1 1/2       | 3.33 | 2.380 | 2.42 | 1 5/16-12 |
| 300-20-24          | 1 1/4     | 1 1/2       | 3.38 | 2.375 | 2.42 | 1 5/8-12  |
| 300-24-24          | 1 1/2     | 1 1/2       | 3.50 | 2.375 | 2.42 | 1 7/8-12  |
| 300-32-24          | 2         | 1 1/2       | 4.20 | 2.375 | 2.87 | 2 1/2-12  |
| 300-20-32          | 1 1/4     | 2           | 3.60 | 2.810 | 2.64 | 1 5/8-12  |
| 300-24-32          | 1 1/2     | 2           | 3.73 | 2.812 | 2.64 | 1 7/8-12  |
| 300-32-32          | 2         | 2           | 3.98 | 2.812 | 2.64 | 2 1/2-12  |
| 300-32-40          | 2         | 2 1/2       | 3.98 | 3.312 | 2.64 | 2 1/2-12  |

| CODE 62 JIC THREAD |           |             |      |       |      |           |
|--------------------|-----------|-------------|------|-------|------|-----------|
| PART NO.           | TUBE O.D. | FLANGE SIZE | A    | B     | C    | THREAD    |
| 600-8-8            | 1/2       | 1/2         | 2.61 | 1.250 | 1.95 | 3/4-16    |
| 600-12-12          | 3/4       | 3/4         | 2.75 | 1.625 | 1.89 | 1 1/16-12 |
| 600-16-12          | 1         | 3/4         | 2.75 | 1.625 | 1.84 | 1 5/16-12 |
| 600-20-12          | 1 1/4     | 3/4         | 3.05 | 1.625 | 2.09 | 1 5/8-12  |
| 600-12-16          | 3/4       | 1           | 2.80 | 1.875 | 1.94 | 1 1/16-12 |
| 600-16-16          | 1         | 1           | 2.80 | 1.875 | 1.89 | 1 5/16-12 |
| 600-20-16          | 1 1/4     | 1           | 2.80 | 1.875 | 1.84 | 1 5/8-12  |
| 600-16-20          | 1         | 1 1/4       | 3.05 | 2.125 | 2.14 | 1 5/16-12 |
| 600-20-20          | 1 1/4     | 1 1/4       | 3.05 | 2.125 | 2.09 | 1 5/8-12  |
| 600-24-20          | 1 1/2     | 1 1/4       | 3.30 | 2.125 | 2.22 | 1 7/8-12  |
| 600-16-24          | 1         | 1 1/2       | 3.33 | 2.500 | 2.42 | 1 5/16-12 |
| 600-20-24          | 1 1/4     | 1 1/2       | 3.50 | 2.500 | 2.54 | 1 5/8-12  |
| 600-24-24          | 1 1/2     | 1 1/2       | 3.50 | 2.500 | 2.42 | 1 7/8-12  |
| 600-32-24          | 2         | 1 1/2       | 4.94 | 2.500 | 3.61 | 2 1/2-12  |
| 600-24-32          | 1 1/2     | 2           | 3.98 | 3.125 | 2.89 | 1 7/8-12  |
| 600-32-32          | 2         | 2           | 4.23 | 3.125 | 2.89 | 2 1/2-12  |

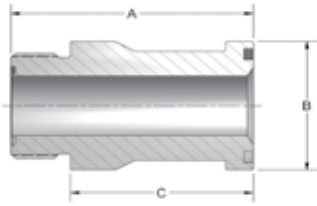
## SAE STRAIGHT THREAD



| CODE 61 SAE STRAIGHT THREAD |           |             |      |       |      |           |
|-----------------------------|-----------|-------------|------|-------|------|-----------|
| PART NO.                    | TUBE O.D. | FLANGE SIZE | A    | B     | C    | THREAD    |
| 302-8-8                     | 1/2       | 1/2         | 2.49 | 1.188 | 1.94 | 3/4-16    |
| 302-12-12                   | 3/4       | 3/4         | 2.61 | 1.500 | 1.89 | 1 1/16-12 |
| 302-16-12                   | 1         | 3/4         | 2.88 | 1.500 | 2.16 | 1 5/16-12 |
| 302-12-16                   | 3/4       | 1           | 2.74 | 1.750 | 2.02 | 1 1/16-12 |
| 302-16-16                   | 1         | 1           | 2.61 | 1.750 | 1.89 | 1 5/16-12 |
| 302-20-16                   | 1 1/4     | 1           | 3.13 | 1.750 | 2.41 | 1 5/8-12  |
| 302-16-20                   | 1         | 1 1/4       | 2.74 | 2.000 | 2.02 | 1 5/16-12 |
| 302-20-20                   | 1 1/4     | 1 1/4       | 3.13 | 2.000 | 2.41 | 1 5/8-12  |
| 302-24-20                   | 1 1/2     | 1 1/4       | 3.43 | 2.000 | 2.71 | 1 7/8-12  |
| 302-16-24                   | 1         | 1 1/2       | 3.30 | 2.380 | 2.58 | 1 5/16-12 |
| 302-20-24                   | 1 1/4     | 1 1/2       | 3.30 | 2.375 | 2.58 | 1 5/8-12  |
| 302-24-24                   | 1 1/2     | 1 1/2       | 3.14 | 2.375 | 2.42 | 1 7/8-12  |
| 302-24-32                   | 1 1/2     | 2           | 3.79 | 2.812 | 3.07 | 1 7/8-12  |
| 302-32-32                   | 2         | 2           | 3.63 | 2.812 | 2.91 | 2 1/2-12  |
| 302-40-40                   | 2 1/2     | 2 1/2       | 4.23 | 3.310 | 3.08 | 3-12      |
| 302-48-48                   | 3         | 3           | 4.50 | 4.000 | 3.36 | 3 1/2-12  |
| 302-64-64                   | 4         | 4           | 4.14 | 5.000 | 2.89 | 4 1/2-12  |

| CODE 62 SAE STRAIGHT THREAD |           |             |      |       |      |           |
|-----------------------------|-----------|-------------|------|-------|------|-----------|
| PART NO.                    | TUBE O.D. | FLANGE SIZE | A    | B     | C    | THREAD    |
| 602-8-8                     | 1/2       | 1/2         | 2.50 | 1.250 | 1.95 | 3/4-16    |
| 602-12-12                   | 3/4       | 3/4         | 2.62 | 1.625 | 1.89 | 1 1/16-12 |
| 602-16-12                   | 1         | 3/4         | 2.88 | 1.625 | 2.15 | 1 5/16-12 |
| 602-12-16                   | 3/4       | 1           | 2.75 | 1.875 | 2.02 | 1 1/16-12 |
| 602-16-16                   | 1         | 1           | 2.62 | 1.875 | 1.89 | 1 5/16-12 |
| 602-20-16                   | 1 1/4     | 1           | 3.44 | 1.875 | 2.71 | 1 5/8-12  |
| 602-16-20                   | 1         | 1 1/4       | 3.12 | 2.125 | 2.39 | 1 5/16-12 |
| 602-20-20                   | 1 1/4     | 1 1/4       | 3.00 | 2.125 | 2.27 | 1 5/8-12  |
| 602-24-20                   | 1 1/2     | 1 1/4       | 3.44 | 2.125 | 2.71 | 1 7/8-12  |
| 602-20-24                   | 1 1/4     | 1 1/2       | 3.31 | 2.500 | 2.58 | 1 5/8-12  |
| 602-24-24                   | 1 1/2     | 1 1/2       | 3.19 | 2.500 | 2.46 | 1 7/8-12  |
| 602-24-32                   | 1 1/2     | 2           | 3.90 | 3.125 | 3.17 | 1 7/8-12  |
| 602-32-32                   | 2         | 2           | 3.75 | 3.125 | 3.02 | 2 1/2-12  |

## Threaded

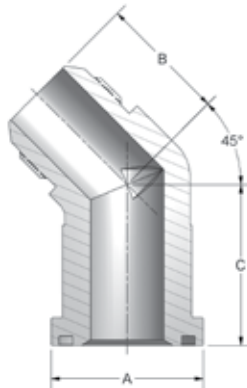


## ORFS THREAD

| CODE 61 ORFS THREAD |           |             |      |       |      |            |
|---------------------|-----------|-------------|------|-------|------|------------|
| PART NO.            | TUBE O.D. | FLANGE SIZE | A    | B     | C    | THREAD     |
| 304-12-12           | 3/4       | 3/4         | 2.75 | 1.500 | 2.08 | 1 3/16-12  |
| 304-16-12           | 1         | 3/4         | 2.75 | 1.500 | 2.06 | 1 7/16-12  |
| 304-12-16           | 3/4       | 1           | 2.80 | 1.750 | 2.13 | 1 3/16-12  |
| 304-16-16           | 1         | 1           | 2.80 | 1.750 | 2.11 | 1 7/16-12  |
| 304-20-16           | 1 1/4     | 1           | 2.80 | 1.750 | 2.11 | 1 11/16-12 |
| 304-16-20           | 1         | 1 1/4       | 2.80 | 2.000 | 2.11 | 1 7/16-12  |
| 304-20-20           | 1 1/4     | 1 1/4       | 2.80 | 2.000 | 2.11 | 1 11/16-12 |
| 304-24-20           | 1 1/2     | 1 1/4       | 3.20 | 2.000 | 2.51 | 2-12       |
| 304-20-24           | 1 1/4     | 1 1/2       | 3.50 | 2.375 | 2.81 | 1 11/16-12 |
| 304-24-24           | 1 1/2     | 1 1/2       | 3.50 | 2.375 | 2.81 | 2-12       |
| 304-24-32           | 1 1/2     | 2           | 3.33 | 2.812 | 2.64 | 2-12       |

| CODE 62 ORFS THREAD |           |             |      |       |      |            |
|---------------------|-----------|-------------|------|-------|------|------------|
| PART NO.            | TUBE O.D. | FLANGE SIZE | A    | B     | C    | THREAD     |
| 604-8-8             | 1/2       | 1/2         | 2.58 | 1.250 | 2.08 | 13/16-16   |
| 604-12-12           | 3/4       | 3/4         | 2.75 | 1.625 | 2.08 | 1 3/16-12  |
| 604-16-12           | 1         | 3/4         | 2.75 | 1.625 | 2.06 | 1 7/16-12  |
| 604-12-16           | 3/4       | 1           | 2.80 | 1.875 | 2.13 | 1 3/16-12  |
| 604-16-16           | 1         | 1           | 2.80 | 1.875 | 2.11 | 1 7/16-12  |
| 604-20-16           | 1 1/4     | 1           | 3.20 | 1.875 | 2.51 | 1 11/16-12 |
| 604-16-20           | 1         | 1 1/4       | 3.05 | 2.125 | 2.36 | 1 7/16-12  |
| 604-20-20           | 1 1/4     | 1 1/4       | 3.05 | 2.125 | 2.36 | 1 11/16-12 |
| 604-24-20           | 1 1/2     | 1 1/4       | 3.30 | 2.125 | 2.61 | 2-12       |
| 604-20-24           | 1 1/4     | 1 1/2       | 3.50 | 2.500 | 2.81 | 1 11/16-12 |
| 604-24-24           | 1 1/2     | 1 1/2       | 3.50 | 2.500 | 2.81 | 2-12       |
| 604-24-32           | 1 1/2     | 2           | 3.58 | 3.125 | 2.89 | 2-12       |

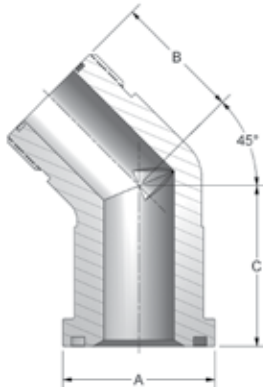
## 45° JIC THREAD



| CODE 61 45° JIC THREAD |           |             |       |      |      |           |
|------------------------|-----------|-------------|-------|------|------|-----------|
| PART NO.               | TUBE O.D. | FLANGE SIZE | A     | B    | C    | THREAD    |
| 340-12-12              | 3/4       | 3/4         | 1.500 | 1.28 | 1.58 | 1 1/16-12 |
| 340-16-16              | 1         | 1           | 1.750 | 1.47 | 1.85 | 1 5/16-12 |
| 340-20-20              | 1 1/4     | 1 1/4       | 2.000 | 1.59 | 2.04 | 1 5/8-12  |
| 340-24-24              | 1 1/2     | 1 1/2       | 2.375 | 1.78 | 2.38 | 1 7/8-12  |
| 340-32-32              | 2         | 2           | 2.812 | 2.22 | 3.00 | 2 1/2-12  |

| CODE 62 45° JIC THREAD |           |             |       |      |      |           |
|------------------------|-----------|-------------|-------|------|------|-----------|
| PART NO.               | TUBE O.D. | FLANGE SIZE | A     | B    | C    | THREAD    |
| 640-12-12              | 3/4       | 3/4         | 1.625 | 1.28 | 1.58 | 1 1/16-12 |
| 640-16-16              | 1         | 1           | 1.875 | 1.47 | 1.85 | 1 5/16-12 |
| 640-20-20              | 1 1/4     | 1 1/4       | 2.125 | 1.59 | 2.04 | 1 5/8-12  |
| 640-24-24              | 1 1/2     | 1 1/2       | 2.500 | 1.78 | 2.38 | 1 7/8-12  |
| 640-32-32              | 2         | 2           | 3.13  | 2.22 | 3.00 | 2 1/2-12  |

## 45° ORFS THREAD



| CODE 61 45° ORFS THREAD |           |             |       |      |      |            |
|-------------------------|-----------|-------------|-------|------|------|------------|
| PART NO.                | TUBE O.D. | FLANGE SIZE | A     | B    | C    | THREAD     |
| 344-12-12               | 3/4       | 3/4         | 1.500 | 1.28 | 1.58 | 1 3/16-12  |
| 344-16-16               | 1         | 1           | 1.750 | 1.47 | 1.85 | 1 7/16-12  |
| 344-20-20               | 1 1/4     | 1 1/4       | 2.000 | 1.59 | 2.04 | 1 11/16-12 |
| 344-24-24               | 1 1/2     | 1 1/2       | 2.375 | 1.78 | 2.38 | 2-12       |

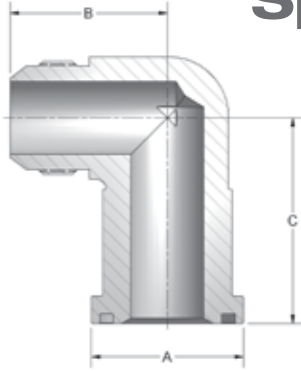
| CODE 62 45° ORFS THREAD |           |             |       |      |      |            |
|-------------------------|-----------|-------------|-------|------|------|------------|
| PART NO.                | TUBE O.D. | FLANGE SIZE | A     | B    | C    | THREAD     |
| 644-12-12               | 3/4       | 3/4         | 1.625 | 1.28 | 1.58 | 1 3/16-12  |
| 644-16-16               | 1         | 1           | 1.875 | 1.47 | 1.85 | 1 7/16-12  |
| 644-20-20               | 1 1/4     | 1 1/4       | 2.125 | 1.59 | 2.04 | 1 11/16-12 |
| 644-24-24               | 1 1/2     | 1 1/2       | 2.500 | 1.78 | 2.38 | 2-12       |

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# Split Flange Adapters

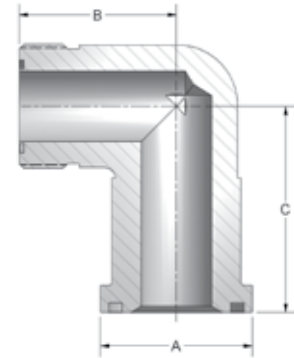


## 90° JIC THREAD

| CODE 61 90° JIC THREAD |           |             |       |      |      |           |
|------------------------|-----------|-------------|-------|------|------|-----------|
| PART NO.               | TUBE O.D. | FLANGE SIZE | A     | B    | C    | THREAD    |
| 390-8-8                | 1/2       | 1/2         | 1.19  | 1.46 | 2.13 | 3/4-16    |
| 390-8-12               | 1/2       | 3/4         | 1.500 | 1.66 | 2.13 | 3/4-16    |
| 390-12-12              | 3/4       | 3/4         | 1.500 | 1.66 | 2.13 | 1 1/16-12 |
| 390-16-12              | 1         | 3/4         | 1.500 | 1.66 | 2.13 | 1 5/16-12 |
| 390-12-16              | 3/4       | 1           | 1.750 | 1.81 | 2.37 | 1 1/16-12 |
| 390-16-16              | 1         | 1           | 1.750 | 1.81 | 2.37 | 1 5/16-12 |
| 390-20-16              | 1 1/4     | 1           | 1.750 | 1.81 | 2.37 | 1 5/8-12  |
| 390-12-20              | 3/4       | 1 1/4       | 2.000 | 2.06 | 2.62 | 1 1/16-12 |
| 390-16-20              | 1         | 1 1/4       | 2.000 | 2.06 | 2.62 | 1 5/16-12 |
| 390-20-20              | 1 1/4     | 1 1/4       | 2.000 | 2.06 | 2.62 | 1 5/8-12  |
| 390-24-20              | 1 1/2     | 1 1/4       | 2.000 | 2.06 | 2.62 | 1 7/8-12  |
| 390-12-24              | 3/4       | 1 1/2       | 2.375 | 2.33 | 3.15 | 1 1/16-12 |
| 390-16-24              | 1         | 1 1/2       | 2.375 | 2.33 | 3.15 | 1 5/16-12 |
| 390-20-24              | 1 1/4     | 1 1/2       | 2.375 | 2.33 | 3.15 | 1 5/8-12  |
| 390-24-24              | 1 1/2     | 1 1/2       | 2.375 | 2.33 | 3.15 | 1 7/8-12  |
| 390-32-24              | 2         | 1 1/2       | 2.375 | 2.58 | 3.15 | 2 1/2-12  |
| 390-24-32              | 1 1/2     | 2           | 2.812 | 3.06 | 4.25 | 1 7/8-12  |
| 390-32-32              | 2         | 2           | 2.812 | 3.06 | 4.25 | 2 1/2-12  |
| 390-32-40              | 2         | 2 1/2       | 3.312 | 3.06 | 4.25 | 2 1/2-12  |

| CODE 62 90° JIC THREAD |           |             |       |      |      |           |
|------------------------|-----------|-------------|-------|------|------|-----------|
| PART NO.               | TUBE O.D. | FLANGE SIZE | A     | B    | C    | THREAD    |
| 690-8-8                | 1/2       | 1/2         | 1.250 | 1.46 | 2.13 | 3/4-16    |
| 690-12-12              | 3/4       | 3/4         | 1.625 | 1.66 | 2.13 | 1 1/16-12 |
| 690-16-12              | 1         | 3/4         | 1.625 | 1.66 | 2.13 | 1 5/16-12 |
| 690-12-16              | 3/4       | 1           | 1.875 | 1.81 | 2.37 | 1 1/16-12 |
| 690-16-16              | 1         | 1           | 1.875 | 1.81 | 2.37 | 1 5/16-12 |
| 690-20-16              | 1 1/4     | 1           | 1.875 | 1.81 | 2.37 | 1 5/8-12  |
| 690-16-20              | 1         | 1 1/4       | 2.125 | 2.06 | 2.76 | 1 5/16-12 |
| 690-20-20              | 1 1/4     | 1 1/4       | 2.125 | 2.06 | 2.76 | 1 5/8-12  |
| 690-24-20              | 1 1/2     | 1 1/4       | 2.125 | 2.19 | 2.76 | 1 7/8-12  |
| 690-20-24              | 1 1/4     | 1 1/2       | 2.500 | 2.33 | 3.15 | 1 5/8-12  |
| 690-24-24              | 1 1/2     | 1 1/2       | 2.500 | 2.33 | 3.15 | 1 7/8-12  |
| 690-32-24              | 2         | 1 1/2       | 2.500 | 3.06 | 4.25 | 2 1/2-12  |
| 690-24-32              | 1 1/2     | 2           | 3.125 | 3.06 | 4.25 | 1 7/8-12  |
| 690-32-32              | 2         | 2           | 3.125 | 3.06 | 4.25 | 2 1/2-12  |

## 90° ORFS THREAD

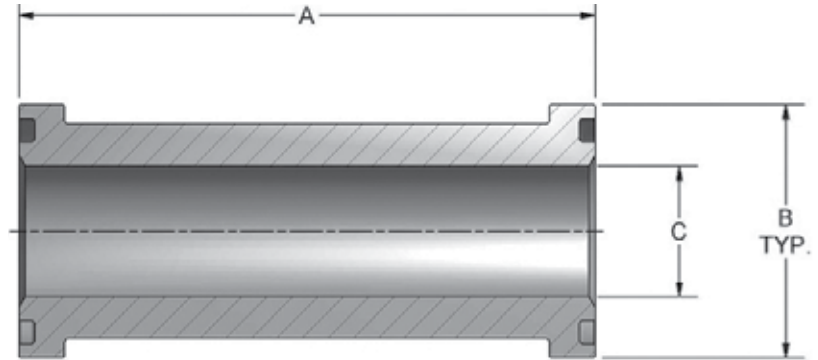


| CODE 61 90° ORFS THREAD |           |             |       |      |      |            |
|-------------------------|-----------|-------------|-------|------|------|------------|
| PART NO.                | TUBE O.D. | FLANGE SIZE | A     | B    | C    | THREAD     |
| 394-12-12               | 3/4       | 3/4         | 1.500 | 1.66 | 2.13 | 1 3/16-12  |
| 394-16-12               | 1         | 3/4         | 1.500 | 1.66 | 2.13 | 1 7/16-12  |
| 394-12-16               | 3/4       | 1           | 1.750 | 1.81 | 2.37 | 1 3/16-12  |
| 394-16-16               | 1         | 1           | 1.750 | 1.81 | 2.37 | 1 7/16-12  |
| 394-20-16               | 1 1/4     | 1           | 1.750 | 1.81 | 2.37 | 1 11/16-12 |
| 394-16-20               | 1         | 1 1/4       | 2.000 | 2.06 | 2.62 | 1 7/16-12  |
| 394-20-20               | 1 1/4     | 1 1/4       | 2.000 | 2.06 | 2.62 | 1 11/16-12 |
| 394-24-20               | 1 1/2     | 1 1/4       | 2.000 | 2.06 | 2.62 | 2-12       |
| 394-20-24               | 1 1/4     | 1 1/2       | 2.375 | 2.33 | 3.15 | 1 11/16-12 |
| 394-24-24               | 1 1/2     | 1 1/2       | 2.375 | 2.33 | 3.15 | 2-12       |
| 394-24-32               | 1 1/2     | 2           | 2.812 | 3.06 | 4.25 | 2-12       |

| CODE 62 90° ORFS THREAD |           |             |       |      |      |            |
|-------------------------|-----------|-------------|-------|------|------|------------|
| PART NO.                | TUBE O.D. | FLANGE SIZE | A     | B    | C    | THREAD     |
| 694-12-8                | 3/4       | 1/2         | 1.250 | 1.66 | 2.13 | 1 3/16-12  |
| 694-12-12               | 3/4       | 3/4         | 1.625 | 1.66 | 2.13 | 1 3/16-12  |
| 694-16-12               | 1         | 3/4         | 1.625 | 1.66 | 2.13 | 1 7/16-12  |
| 694-12-16               | 3/4       | 1           | 1.875 | 1.81 | 2.37 | 1 3/16-12  |
| 694-16-16               | 1         | 1           | 1.875 | 1.81 | 2.37 | 1 7/16-12  |
| 694-20-16               | 1 1/4     | 1           | 1.875 | 1.81 | 2.37 | 1 11/16-12 |
| 694-16-20               | 1         | 1 1/4       | 2.125 | 2.06 | 2.76 | 1 7/16-12  |
| 694-20-20               | 1 1/4     | 1 1/4       | 2.125 | 2.06 | 2.76 | 1 11/16-12 |
| 694-24-20               | 1 1/2     | 1 1/4       | 2.125 | 2.06 | 2.76 | 2-12       |
| 694-20-24               | 1 1/4     | 1 1/2       | 2.500 | 2.33 | 3.15 | 1 11/16-12 |
| 694-24-24               | 1 1/2     | 1 1/2       | 2.500 | 2.33 | 3.15 | 2-12       |
| 694-24-32               | 1 1/2     | 2           | 3.125 | 3.06 | 4.25 | 2-12       |

# Flange Head X Flange Head

- Used to connect two flat faced flanges
- One-piece forged carbon steel construction with Silver Trivalent plating



| CODE 61 FLANGE HEAD X FLANGE HEAD |             |      |       |       |
|-----------------------------------|-------------|------|-------|-------|
| PART NO.                          | FLANGE SIZE | A    | B     | C     |
| 301-8-8                           | 0.50        | 4.00 | 1.188 | 0.406 |
| 301-12-12                         | 0.75        | 4.00 | 1.500 | 0.656 |
| 301-16-16                         | 1.00        | 4.00 | 1.750 | 0.906 |
| 301-20-20                         | 1.25        | 4.00 | 2.000 | 1.125 |
| 301-24-24                         | 1.50        | 4.00 | 2.375 | 1.375 |
| 301-32-32                         | 2.00        | 4.00 | 2.812 | 1.875 |
| 301-40-40                         | 2.50        | 6.00 | 3.312 | 2.375 |
| 301-48-48                         | 3.00        | 6.00 | 4.000 | 2.875 |
| 301-56-56                         | 3.50        | 6.00 | 4.500 | 3.375 |
| 301-64-64                         | 4.00        | 6.00 | 5.000 | 3.875 |

| CODE 62 FLANGE HEAD X FLANGE HEAD |             |      |       |       |
|-----------------------------------|-------------|------|-------|-------|
| PART NO.                          | FLANGE SIZE | A    | B     | C     |
| 601-8-8                           | 0.50        | 4.00 | 1.250 | 0.406 |
| 601-12-12                         | 0.75        | 4.00 | 1.625 | 0.656 |
| 601-16-16                         | 1.00        | 6.00 | 1.875 | 0.810 |
| 601-20-20                         | 1.25        | 6.00 | 2.125 | 1.010 |
| 601-24-24                         | 1.50        | 6.00 | 2.500 | 1.250 |
| 601-32-32                         | 2.00        | 8.00 | 3.125 | 1.750 |

\*Stainless steel and custom lengths available upon request



866-FLANGES | 513.527.4444 | Fax 513.527.4449  
sales@anchorfluidpower.com | anchorfluidpower.com

# Butt Weld Flange Head

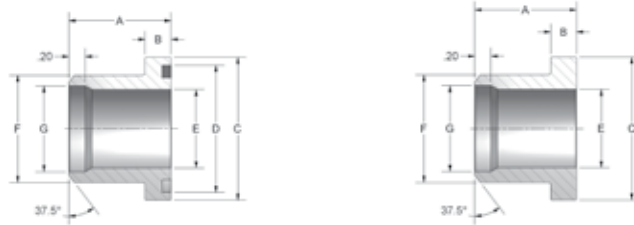


Figure 2

| CODE 61 BUTT WELD TO FLANGE HEAD FOR SCHEDULE 40 PIPE |                                 |              |               |      |      |       |       |       |       |       |
|-------------------------------------------------------|---------------------------------|--------------|---------------|------|------|-------|-------|-------|-------|-------|
| PART NO.<br>O-RING<br>FIG. 1                          | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | CLAMP<br>SIZE | A    | B    | C     | D     | E     | F     | G     |
| 8P-8BWSF-40                                           | 8P-8BWSFN-40                    | .50          | .50           | 1.06 | .265 | 1.188 | 1.000 | .548  | .840  | .624  |
| 12P-12BWSF-40                                         | 12P-12BWSFN-40                  | .75          | .75           | 1.06 | .265 | 1.500 | 1.250 | .744  | 1.050 | .826  |
| 16P-16BWSF-40                                         | 16P-16BWSFN-40                  | 1.00         | 1.00          | 1.25 | .315 | 1.750 | 1.560 | .959  | 1.315 | 1.051 |
| 20P-20BWSF-40                                         | 20P-20BWSFN-40                  | 1.25         | 1.25          | 1.44 | .315 | 2.000 | 1.750 | 1.280 | 1.660 | 1.382 |
| 24P-24BWSF-40                                         | 24P-24BWSFN-40                  | 1.50         | 1.50          | 1.75 | .315 | 2.375 | 2.115 | 1.502 | 1.900 | 1.612 |
| 32P-32BWSF-40                                         | 32P-32BWSFN-40                  | 2.00         | 2.00          | 2.00 | .375 | 2.812 | 2.490 | 1.941 | 2.375 | 2.069 |
| 40P-40BWSF-40                                         | 40P-40BWSFN-40                  | 2.50         | 2.50          | 2.31 | .375 | 3.312 | 2.995 | 2.325 | 2.875 | 2.471 |
| 48P-48BWSF-40                                         | 48P-48BWSFN-40                  | 3.00         | 3.00          | 2.31 | .375 | 4.000 | 3.615 | 2.902 | 3.500 | 3.070 |
| 64P-64BWSF-40                                         | 64P-64BWSFN-40                  | 4.00         | 4.00          | 1.90 | .442 | 5.000 | 4.595 | 3.828 | 4.500 | 4.028 |

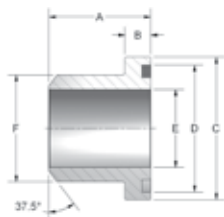


Figure 1

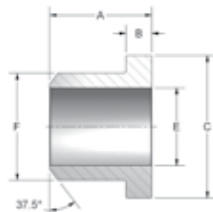


Figure 2

| CODE 61 BUTT WELD TO FLANGE HEAD FOR SCHEDULE 80 PIPE |                                 |              |               |      |      |       |       |       |       |  |
|-------------------------------------------------------|---------------------------------|--------------|---------------|------|------|-------|-------|-------|-------|--|
| PART NO.<br>O-RING<br>FIG. 1                          | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | CLAMP<br>SIZE | A    | B    | C     | D     | E     | F     |  |
| 8P-8BWSF-80                                           | 8P-8BWSFN-80                    | .50          | .50           | 1.06 | .265 | 1.188 | 1.000 | .548  | .840  |  |
| 12P-12BWSF-80                                         | 12P-12BWSFN-80                  | .75          | .75           | 1.06 | .265 | 1.500 | 1.250 | .744  | 1.050 |  |
| 16P-16BWSF-80                                         | 16P-16BWSFN-80                  | 1.00         | 1.00          | 1.25 | .315 | 1.750 | 1.560 | .959  | 1.315 |  |
| 20P-20BWSF-80                                         | 20P-20BWSFN-80                  | 1.25         | 1.25          | 1.44 | .315 | 2.000 | 1.750 | 1.280 | 1.660 |  |
| 24P-24BWSF-80                                         | 24P-24BWSFN-80                  | 1.50         | 1.50          | 1.75 | .315 | 2.375 | 2.115 | 1.502 | 1.900 |  |
| 32P-32BWSF-80                                         | 32P-32BWSFN-80                  | 2.00         | 2.00          | 2.00 | .375 | 2.812 | 2.490 | 1.941 | 2.375 |  |
| 40P-40BWSF-80                                         | 40P-40BWSFN-80                  | 2.50         | 2.50          | 2.31 | .375 | 3.312 | 2.995 | 2.325 | 2.875 |  |
| 48P-48BWSF-80                                         | 48P-48BWSFN-80                  | 3.00         | 3.00          | 2.31 | .375 | 4.000 | 3.615 | 2.902 | 3.500 |  |

| CODE 61 BUTT WELD TO FLANGE HEAD FOR SCHEDULE 160 PIPE |                                 |              |               |      |      |       |       |       |       |  |
|--------------------------------------------------------|---------------------------------|--------------|---------------|------|------|-------|-------|-------|-------|--|
| PART NO.<br>O-RING<br>FIG. 1                           | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | CLAMP<br>SIZE | A    | B    | C     | D     | E     | F     |  |
| 8P-8BWSF-160                                           | 8P-8BWSFN-160                   | .50          | .50           | 1.06 | .265 | 1.188 | 1.000 | .464  | .840  |  |
| 12P-12BWSF-160                                         | 12P-12BWSFN-160                 | .75          | .75           | 1.06 | .265 | 1.500 | 1.250 | .612  | 1.050 |  |
| 16P-16BWSF-160                                         | 16P-16BWSFN-160                 | 1.00         | 1.00          | 1.25 | .315 | 1.750 | 1.560 | .815  | 1.315 |  |
| 20P-20BWSF-160                                         | 20P-20BWSFN-160                 | 1.25         | 1.25          | 1.44 | .315 | 2.000 | 1.750 | 1.160 | 1.660 |  |
| 24P-24BWSF-160                                         | 24P-24BWSFN-160                 | 1.50         | 1.50          | 1.75 | .315 | 2.375 | 2.115 | 1.338 | 1.900 |  |
| 32P-32BWSF-160                                         | 32P-32BWSFN-160                 | 2.00         | 2.00          | 2.00 | .375 | 2.812 | 2.490 | 1.687 | 2.375 |  |
| 40P-40BWSF-160                                         | 40P-40BWSFN-160                 | 2.50         | 2.50          | 2.31 | .375 | 3.312 | 2.995 | 2.125 | 2.875 |  |
| 48P-48BWSF-160                                         | 48P-48BWSFN-160                 | 3.00         | 3.00          | 2.31 | .375 | 4.000 | 3.615 | 2.624 | 3.500 |  |

# Butt Weld Flange Head

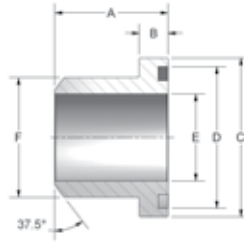


Figure 1

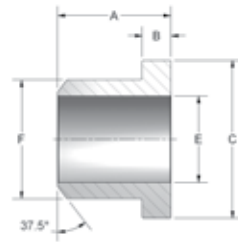


Figure 2

| CODE 62 BUTT WELD TO FLANGE HEAD FOR SCHEDULE 80 PIPE |                                 |              |               |      |      |       |       |       |       |
|-------------------------------------------------------|---------------------------------|--------------|---------------|------|------|-------|-------|-------|-------|
| PART NO.<br>O-RING<br>FIG. 1                          | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | CLAMP<br>SIZE | A    | B    | C     | D     | E     | F     |
| 8P-8BWSFX-80                                          | 8P-8BWSFXN-80                   | .50          | .50           | 1.10 | .305 | 1.250 | 1.000 | .548  | .840  |
| 12P-12BWSFX-80                                        | 12P-12BWSFXN-80                 | .75          | .75           | 1.42 | .345 | 1.625 | 1.250 | .744  | 1.050 |
| 16P-16BWSFX-80                                        | 16P-16BWSFXN-80                 | 1.00         | 1.00          | 1.61 | .375 | 1.875 | 1.560 | .959  | 1.315 |
| 20P-20BWSFX-80                                        | 20P-20BWSFXN-80                 | 1.25         | 1.25          | 1.73 | .405 | 2.125 | 1.750 | 1.280 | 1.660 |
| 24P-24BWSFX-80                                        | 24P-24BWSFXN-80                 | 1.50         | 1.50          | 2.17 | .495 | 2.500 | 2.115 | 1.502 | 1.900 |
| 32P-32BWSFX-80                                        | 32P-32BWSFXN-80                 | 2.00         | 2.00          | 2.48 | .495 | 3.125 | 2.490 | 1.941 | 2.375 |

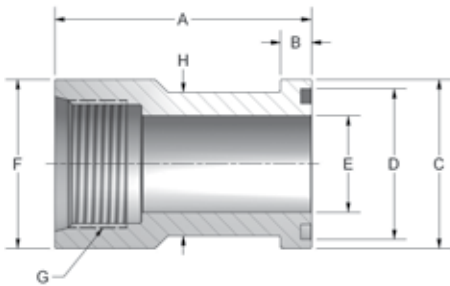
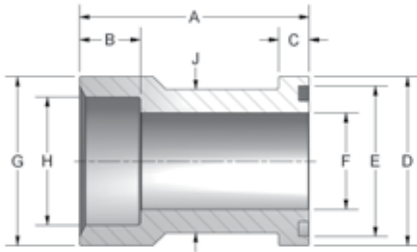
| CODE 62 BUTT WELD TO FLANGE HEAD FOR SCHEDULE 160 PIPE |                                 |              |               |      |      |       |       |       |       |
|--------------------------------------------------------|---------------------------------|--------------|---------------|------|------|-------|-------|-------|-------|
| PART NO.<br>O-RING<br>FIG. 1                           | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | CLAMP<br>SIZE | A    | B    | C     | D     | E     | F     |
| 8P-8BWSFX-160                                          | 8P-8BWSFXN-160                  | .50          | .50           | 1.10 | .305 | 1.250 | 1.000 | .464  | .840  |
| 12P-12BWSFX-160                                        | 12P-12BWSFXN-160                | .75          | .75           | 1.42 | .345 | 1.625 | 1.250 | .612  | 1.050 |
| 16P-16BWSFX-160                                        | 16P-16BWSFXN-160                | 1.00         | 1.00          | 1.61 | .375 | 1.875 | 1.560 | .815  | 1.315 |
| 20P-20BWSFX-160                                        | 20P-20BWSFXN-160                | 1.25         | 1.25          | 1.73 | .405 | 2.125 | 1.750 | 1.160 | 1.660 |
| 24P-24BWSFX-160                                        | 24P-24BWSFXN-160                | 1.50         | 1.50          | 2.17 | .495 | 2.500 | 2.115 | 1.338 | 1.900 |
| 32P-32BWSFX-160                                        | 32P-32BWSFXN-160                | 2.00         | 2.00          | 2.48 | .495 | 3.125 | 2.490 | 1.687 | 2.375 |

| CODE 62 BUTT WELD TO FLANGE HEAD FOR SCHEDULE XXS PIPE |                                 |              |               |      |      |       |       |       |       |
|--------------------------------------------------------|---------------------------------|--------------|---------------|------|------|-------|-------|-------|-------|
| PART NO.<br>O-RING<br>FIG. 1                           | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | CLAMP<br>SIZE | A    | B    | C     | D     | E     | F     |
| 8P-8BWSFX-XXS                                          | 8P-8BWSFXN-XXS                  | .50          | .50           | 1.10 | .305 | 1.250 | 1.000 | .252  | .840  |
| 12P-12BWSFX-XXS                                        | 12P-12BWSFXN-XXS                | .75          | .75           | 1.42 | .345 | 1.625 | 1.250 | .434  | 1.050 |
| 16P-16BWSFX-XXS                                        | 16P-16BWSFXN-XXS                | 1.00         | 1.00          | 1.61 | .375 | 1.875 | 1.560 | .599  | 1.315 |
| 20P-20BWSFX-XXS                                        | 20P-20BWSFXN-XXS                | 1.25         | 1.25          | 1.73 | .405 | 2.125 | 1.750 | .896  | 1.660 |
| 24P-24BWSFX-XXS                                        | 24P-24BWSFXN-XXS                | 1.50         | 1.50          | 2.17 | .495 | 2.500 | 2.115 | 1.100 | 1.900 |
| 32P-32BWSFX-XXS                                        | 32P-32BWSFXN-XXS                | 2.00         | 2.00          | 2.48 | .495 | 3.125 | 2.490 | 1.503 | 2.375 |





# Female Flange Head Adapter


**CODE 61 SOCKET WELD TO FLANGE HEAD FOR PIPE**

| PART NO.  | PIPE SIZE | CLAMP SIZE | A    | B    | C    | D     | E     | F     | G    | H     | J     |
|-----------|-----------|------------|------|------|------|-------|-------|-------|------|-------|-------|
| 8P-8WSF   | .50       | .50        | 2.34 | .56  | .265 | 1.187 | 1.000 | .500  | 1.25 | .855  | .924  |
| 12P-12WSF | .75       | .75        | 2.34 | .56  | .265 | 1.500 | 1.250 | .750  | 1.50 | 1.062 | 1.234 |
| 16P-16WSF | 1.00      | 1.00       | 2.38 | .63  | .315 | 1.750 | 1.560 | 1.000 | 1.75 | 1.328 | 1.484 |
| 20P-20WSF | 1.25      | 1.25       | 2.62 | .68  | .315 | 2.000 | 1.750 | 1.250 | 2.00 | 1.672 | 1.684 |
| 24P-24WSF | 1.50      | 1.50       | 2.88 | .76  | .315 | 2.375 | 2.115 | 1.500 | 2.38 | 1.922 | 1.964 |
| 32P-32WSF | 2.00      | 2.00       | 3.00 | .88  | .375 | 2.812 | 2.490 | 2.000 | 2.81 | 2.406 | 2.434 |
| 40P-40WSF | 2.50      | 2.50       | 3.06 | 1.00 | .375 | 3.312 | 2.995 | 2.500 | 3.31 | 2.906 | 2.920 |
| 48P-48WSF | 3.00      | 3.00       | 3.88 | 1.25 | .375 | 4.000 | 3.615 | 2.875 | 4.00 | 3.547 | 3.534 |

**CODE 62 SOCKET WELD TO FLANGE HEAD FOR PIPE**

| PART NO.  | PIPE SIZE | CLAMP SIZE | A    | B    | C    | D     | E     | F     | G     | H     | J     |
|-----------|-----------|------------|------|------|------|-------|-------|-------|-------|-------|-------|
| W53-12-12 | .75       | .75        | 2.75 | .630 | .345 | 1.625 | 1.250 | .750  | 1.750 | 1.062 | 1.234 |
| W53-16-16 | 1.00      | 1.00       | 3.06 | .630 | .375 | 1.875 | 1.560 | 1.000 | 2.000 | 1.328 | 1.484 |
| W53-20-20 | 1.25      | 1.25       | 3.31 | .690 | .405 | 2.125 | 1.750 | 1.125 | 2.312 | 1.672 | 1.704 |
| W53-24-24 | 1.50      | 1.50       | 3.93 | .750 | .495 | 2.500 | 2.115 | 1.375 | 2.750 | 1.922 | 1.984 |
| W53-32-32 | 2.00      | 2.00       | 4.06 | .880 | .495 | 3.125 | 2.490 | 1.875 | 3.125 | 2.406 | 2.604 |

**CODE 61 NPTF THREAD TO FLANGE HEAD**

| PART NO. | PIPE SIZE | CLAMP SIZE | A    | B    | C     | D     | E    | F    | G    | H     |
|----------|-----------|------------|------|------|-------|-------|------|------|------|-------|
| 12F-12FO | .75       | .75        | 2.47 | .265 | 1.500 | 1.250 | .75  | 1.50 | .75  | 1.234 |
| 16F-16FO | 1.00      | 1.00       | 2.66 | .315 | 1.750 | 1.560 | 1.00 | 1.75 | 1.00 | 1.484 |
| 20F-20FO | 1.25      | 1.25       | 2.84 | .315 | 2.000 | 1.750 | 1.25 | 2.00 | 1.25 | 1.684 |
| 24F-24FO | 1.50      | 1.50       | 3.00 | .315 | 2.375 | 2.115 | 1.50 | 2.38 | 1.50 | 1.964 |
| 32F-32FO | 2.00      | 2.00       | 3.00 | .375 | 2.812 | 2.490 | 2.00 | 2.81 | 2.00 | 2.434 |

**CODE 61 SAE THREAD TO FLANGE HEAD**

| PART NO. | TUBE SIZE | CLAMP SIZE | A    | B    | C     | D     | E    | F    | G         | H     |
|----------|-----------|------------|------|------|-------|-------|------|------|-----------|-------|
| 12S-12FO | .75       | .75        | 2.47 | .265 | 1.500 | 1.250 | .75  | 1.50 | 1 1/16-12 | 1.234 |
| 16S-16FO | 1.00      | 1.00       | 2.66 | .315 | 1.750 | 1.560 | 1.00 | 1.75 | 1 5/16-12 | 1.484 |
| 20S-20FO | 1.25      | 1.25       | 2.84 | .315 | 2.000 | 1.750 | 1.25 | 2.00 | 1 5/8-12  | 1.684 |
| 24S-24FO | 1.50      | 1.50       | 3.00 | .315 | 2.375 | 2.115 | 1.50 | 2.38 | 1 7/8-12  | 1.964 |
| 32S-32FO | 2.00      | 2.00       | 3.00 | .375 | 2.812 | 2.490 | 2.00 | 2.81 | 2 1/2-12  | 2.434 |



# Tube Flange Head Fitting

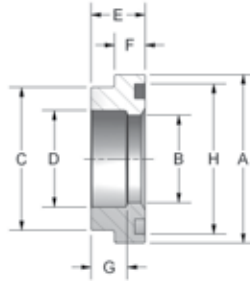


Figure 1

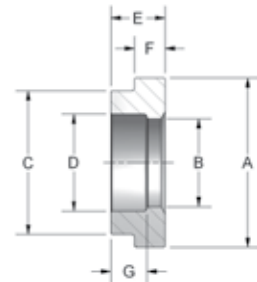


Figure 2

\*For sizes not listed, please consult factory.

| CODE 61 TUBE FLANGE HEAD FITTING |                              |           |                |       |       |       |       |      |      |      |       |
|----------------------------------|------------------------------|-----------|----------------|-------|-------|-------|-------|------|------|------|-------|
| PART NO.<br>O-RING FIG. 1        | PART NO.<br>FLAT FACE FIG. 2 | TUBE SIZE | FLANGE<br>SIZE | A     | B     | C     | D     | E    | F    | G    | H     |
| 8T-8SF                           | 8T-8SFN                      | .50       | .50            | 1.188 | .406  | .924  | .502  | .50  | .265 | .312 | 1.000 |
| 10T-8SF                          | 10T-8SFN                     | .63       | .50            | 1.188 | .500  | .924  | .627  | .50  | .265 | .312 | 1.000 |
| 12T-12SF                         | 12T-12SFN                    | .75       | .75            | 1.500 | .656  | 1.234 | .752  | .56  | .265 | .375 | 1.250 |
| 16T-12SF                         | 16T-12SFN                    | 1.00      | .75            | 1.500 | .750  | 1.234 | 1.002 | .56  | .265 | .375 | 1.250 |
| 16T-16SF                         | 16T-16SFN                    | 1.00      | 1.00           | 1.750 | .906  | 1.484 | 1.002 | .56  | .315 | .375 | 1.560 |
| 20T-16SF                         | 20T-16SFN                    | 1.25      | 1.00           | 1.750 | 1.000 | 1.484 | 1.252 | .56  | .315 | .375 | 1.560 |
| 20T-20SF                         | 20T-20SFN                    | 1.25      | 1.25           | 2.000 | 1.125 | 1.684 | 1.252 | .56  | .315 | .375 | 1.750 |
| 24T-20SF                         | 24T-20SFN                    | 1.50      | 1.25           | 2.000 | 1.250 | 1.684 | 1.502 | .56  | .315 | .375 | 1.750 |
| 24T-24SF                         | 24T-24SFN                    | 1.50      | 1.50           | 2.375 | 1.375 | 1.964 | 1.502 | .62  | .315 | .438 | 2.115 |
| 28T-24SF                         | 28T-24SFN                    | 1.75      | 1.50           | 2.375 | 1.500 | 1.964 | 1.752 | .62  | .315 | .438 | 2.115 |
| 32T-32SF                         | 32T-32SFN                    | 2.00      | 2.00           | 2.812 | 1.875 | 2.434 | 2.002 | .62  | .375 | .500 | 2.490 |
| 36T-32SF                         | 36T-32SFN                    | 2.25      | 2.00           | 2.812 | 2.000 | 2.434 | 2.252 | .62  | .375 | .437 | 2.490 |
| 40T-40SF                         | 40T-40SFN                    | 2.50      | 2.50           | 3.312 | 2.375 | 2.904 | 2.502 | .68  | .375 | .562 | 2.995 |
| 44T-40SF                         | 44T-40SFN                    | 2.75      | 2.50           | 3.312 | 2.500 | 2.904 | 2.752 | .68  | .375 | .500 | 2.995 |
| 48T-48SF                         | 48T-48SFN                    | 3.00      | 3.00           | 4.000 | 2.875 | 3.534 | 3.002 | .75  | .375 | .562 | 3.615 |
| 56T-56SF                         | 56T-56SFN                    | 3.50      | 3.50           | 4.500 | 3.380 | 3.980 | 3.502 | .88  | .440 | .750 | 4.100 |
| 64T-64SF                         | 64T-64SFN                    | 4.00      | 4.00           | 5.000 | 3.880 | 4.480 | 4.040 | 1.00 | .440 | .810 | 4.600 |
| 80T-80SF                         | 80T-80SFN                    | 5.00      | 5.00           | 6.000 | 4.880 | 5.480 | 5.002 | 1.13 | .440 | .940 | 5.600 |

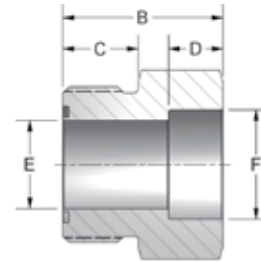
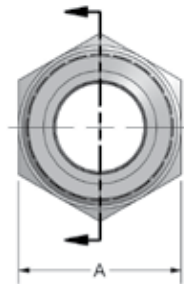
  

| CODE 62 TUBE FLANGE HEAD FITTING |                              |           |                |       |       |       |       |      |      |       |       |
|----------------------------------|------------------------------|-----------|----------------|-------|-------|-------|-------|------|------|-------|-------|
| PART NO.<br>O-RING FIG. 1        | PART NO.<br>FLAT FACE FIG. 2 | TUBE SIZE | FLANGE<br>SIZE | A     | B     | C     | D     | E    | F    | G     | H     |
| 12T-12SFX                        | 12T-12SFXN                   | .75       | .75            | 1.625 | .656  | 1.234 | .752  | .69  | .345 | .500  | 1.250 |
| 16T-12SFX                        | 16T-12SFXN                   | 1.00      | .75            | 1.625 | .750  | 1.234 | 1.002 | .69  | .345 | .500  | 1.250 |
| 16T-16SFX                        | 16T-16SFXN                   | 1.00      | 1.00           | 1.875 | .810  | 1.484 | 1.002 | .81  | .375 | .625  | 1.560 |
| 20T-16SFX                        | 20T-16SFXN                   | 1.25      | 1.00           | 1.875 | 1.000 | 1.484 | 1.252 | .81  | .375 | .625  | 1.560 |
| 20T-20SFX                        | 20T-20SFXN                   | 1.25      | 1.25           | 2.125 | 1.010 | 1.704 | 1.252 | 1.00 | .405 | .812  | 1.750 |
| 24T-20SFX                        | 24T-20SFXN                   | 1.50      | 1.25           | 2.125 | 1.250 | 1.704 | 1.502 | 1.00 | .405 | .812  | 1.750 |
| 24T-24SFX                        | 24T-24SFXN                   | 1.50      | 1.50           | 2.500 | 1.250 | 1.984 | 1.502 | 1.19 | .495 | 1.000 | 2.115 |
| 28T-24SFX                        | 28T-24SFXN                   | 1.75      | 1.50           | 2.500 | 1.500 | 1.984 | 1.757 | 1.19 | .495 | 1.000 | 2.115 |
| 32T-32SFX                        | 32T-32SFXN                   | 2.00      | 2.00           | 3.125 | 1.750 | 2.604 | 2.002 | 1.50 | .495 | 1.375 | 2.490 |
| 36T-32SFX                        | 36T-32SFXN                   | 2.25      | 2.00           | 3.125 | 2.000 | 2.604 | 2.252 | 1.50 | .495 | 1.312 | 2.490 |

# Braze-On Tube Fittings



- AISI 1020 Carbon Steel Material
- Natural Finish
- O-Ring groove per SAE J1453
- O-Ring not included

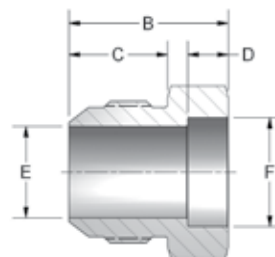


| BRAZE-ON TUBE FITTINGS |           |                  |       |       |      |      |       |       |
|------------------------|-----------|------------------|-------|-------|------|------|-------|-------|
| PART NO.               | TUBE SIZE | ORFS THREAD SIZE | A     | B     | C    | D    | E     | F     |
| 1453-04-04             | 1/4"      | 9/16"-18         | .625  | .780  | .394 | .250 | .177  | .252  |
| 1453-05-04             | 5/16"     | 9/16"-18         | .625  | .780  | .394 | .250 | .177  | .315  |
| 1453-06-04             | 3/8"      | 9/16"-18         | .750  | .780  | .394 | .250 | .177  | .377  |
| 1453-06-06             | 3/8"      | 11/16"-16        | .750  | .830  | .264 | .250 | .256  | .377  |
| 1453-08-06             | 1/2"      | 11/16"-16        | .875  | .950  | .264 | .375 | .256  | .502  |
| 1453-08-08             | 1/2"      | 13/16"-16        | .875  | 1.010 | .378 | .375 | .374  | .502  |
| 1453-10-08             | 5/8"      | 13/16"-16        | .937  | 1.060 | .378 | .375 | .374  | .627  |
| 1453-12-08             | 3/4"      | 13/16"-16        | 1.125 | 1.040 | .378 | .375 | .374  | .752  |
| 1453-14-08             | 7/8"      | 13/16"-16        | 1.250 | 1.09  | .378 | .375 | .374  | .877  |
| 1453-10-10             | 5/8"      | 1"-14            | 1.062 | 1.120 | .610 | .375 | .492  | .627  |
| 1453-12-10             | 3/4"      | 1"-14            | 1.125 | 1.150 | .610 | .375 | .492  | .752  |
| 1453-16-10             | 1"        | 1"-14            | 1.375 | 1.340 | .610 | .500 | .492  | 1.002 |
| 1453-12-12             | 3/4"      | 1-3/16"-12       | 1.250 | 1.210 | .670 | .375 | .609  | .752  |
| 1453-14-12             | 7/8"      | 1-3/16"-12       | 1.250 | 1.210 | .670 | .375 | .609  | .877  |
| 1453-16-12             | 1"        | 1-3/16"-12       | 1.500 | 1.450 | .670 | .500 | .609  | 1.002 |
| 1453-16-16             | 1"        | 1-7/16"-12       | 1.500 | 1.470 | .689 | .500 | .807  | 1.002 |
| 1453-20-16             | 1-1/4"    | 1-7/16"-12       | 1.750 | 1.470 | .689 | .500 | .807  | 1.252 |
| 1453-20-20             | 1-1/4"    | 1-11/16"-12      | 1.750 | 1.470 | .689 | .500 | 1.024 | 1.252 |
| 1453-24-20             | 1-1/2"    | 1-11/16"-12      | 2.000 | 1.470 | .689 | .500 | 1.024 | 1.502 |
| 1453-24-24             | 1-1/2"    | 2"-12            | 2.125 | 1.470 | .689 | .500 | 1.260 | 1.502 |
| 1453-28-24             | 1-3/4"    | 2"-12            | 2.125 | 1.470 | .689 | .531 | 1.260 | 1.752 |

## JIC Braze-On Fittings



- AISI 1020 Carbon Steel Material
- Natural Finish
- 37° Male JIC per SAE J514

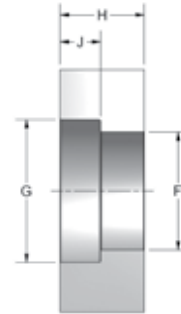
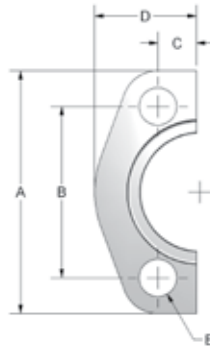


| JIC BRAZE-ON |           |                 |       |       |      |      |      |      |
|--------------|-----------|-----------------|-------|-------|------|------|------|------|
| PART NO.     | TUBE SIZE | JIC THREAD SIZE | A     | B     | C    | D    | E    | F    |
| 51437-6-6    | 3/8"      | 9/16"-18        | .625  | .906  | .556 | .250 | .297 | .377 |
| 51437-8-8    | 1/2"      | 3/4"-16         | .813  | 1.063 | .657 | .250 | .391 | .502 |
| 51437-12-12  | 3/4"      | 1 1/16"-12      | 1.125 | 1.344 | .864 | .312 | .609 | .752 |

# CAT-Style Split Flanges & Adapters

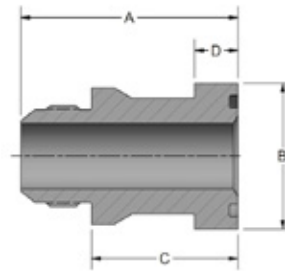
Fits Caterpillar Flange Head ends only

\* CAT-Style Flange Plugs also available.  
Consult factory for details.



| PTX SERIES SPLIT FLANGES |                |             |       |       |      |       |      |       |       |       |      |                   |
|--------------------------|----------------|-------------|-------|-------|------|-------|------|-------|-------|-------|------|-------------------|
| PART NO.                 | **KIT PART NO. | FLANGE SIZE | A     | B     | C    | D     | E    | F     | G     | H     | J    | MOUNTING HARDWARE |
|                          |                |             |       |       |      |       |      |       |       |       |      | HHCS              |
| 12PTX-2                  | 12PTX0         | .75         | 2.950 | 2.000 | .446 | 1.210 | .406 | 1.270 | 1.632 | 1.102 | .530 | 3/8-16X1.75       |
| 16PTX-2                  | 16PTX0         | 1.00        | 3.190 | 2.250 | .507 | 1.335 | .469 | 1.550 | 1.884 | 1.102 | .530 | 7/16-14X1.75      |
| 20PTX-2                  | 20PTX0         | 1.25        | 3.750 | 2.625 | .585 | 1.490 | .531 | 1.750 | 2.134 | 1.102 | .530 | 1/2-13X2.00       |
| 24PTX-2                  | 24PTX0         | 1.50        | 4.440 | 3.125 | .679 | 1.335 | .656 | 2.030 | 2.509 | 1.258 | .530 | 5/8-11X2.50       |
| 32PTX-2                  | 32PTX0         | 2.00        | 5.240 | 3.812 | .834 | 2.205 | .827 | 2.640 | 3.130 | 1.457 | .530 | 3/4-10X2.75       |

\*\*When ordering this part # you will receive: (2) split flange halves, (4) hex head bolts and flat washers. NO O-RING INCLUDED.



| CAT-STYLE JIC THREAD |           |             |       |       |       |       |            |        |
|----------------------|-----------|-------------|-------|-------|-------|-------|------------|--------|
| PART NO.             | TUBE O.D. | FLANGE SIZE | A     | B     | C     | D     | THREAD     | O-RING |
| 609-12-12            | 3/4"      | 3/4"        | 2.750 | 1.625 | 1.890 | 0.560 | 1 1/16-12" | 214    |
| 609-16-16            | 1"        | 1"          | 2.800 | 1.875 | 1.890 | 0.560 | 1 5/16-12" | 219    |
| 609-20-20            | 1 1/4"    | 1 1/4"      | 3.050 | 2.125 | 2.090 | 0.560 | 1 5/8-12"  | 222    |
| 609-24-24            | 1 1/2"    | 1 1/2"      | 3.500 | 2.500 | 2.420 | 0.560 | 1 7/8-12"  | 225    |

\* Additional sizes and configurations available upon request

## Flange Plug

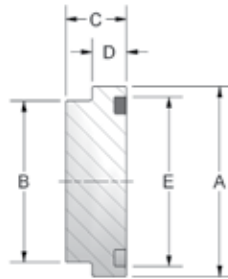


Figure 1

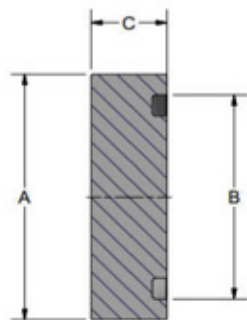


Figure 2

| CODE 61 FLANGE PLUG          |                                 |                |       |       |     |      |       |
|------------------------------|---------------------------------|----------------|-------|-------|-----|------|-------|
| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | FLANGE<br>SIZE | A     | B     | C   | D    | E     |
| 8FOP                         | 8FP                             | .50            | 1.188 | .924  | .50 | .265 | 1.000 |
| 12FOP                        | 12FP                            | .75            | 1.500 | 1.234 | .56 | .265 | 1.250 |
| 16FOP                        | 16FP                            | 1.00           | 1.750 | 1.484 | .56 | .315 | 1.560 |
| 20FOP                        | 20FP                            | 1.25           | 2.000 | 1.684 | .56 | .315 | 1.750 |
| 24FOP                        | 24FP                            | 1.50           | 2.375 | 1.964 | .62 | .315 | 2.115 |
| 32FOP                        | 32FP                            | 2.00           | 2.810 | 2.434 | .62 | .375 | 2.490 |
| 40FOP                        | 40FP                            | 2.50           | 3.312 | 2.904 | .68 | .375 | 2.995 |
| 48FOP                        | 48FP                            | 3.00           | 4.000 | 3.534 | .75 | .375 | 3.615 |

| CODE 62 FLANGE PLUG          |                                 |                |       |       |       |      |       |
|------------------------------|---------------------------------|----------------|-------|-------|-------|------|-------|
| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | FLANGE<br>SIZE | A     | B     | C     | D    | E     |
| 12FOPX                       | 12FPX                           | .75            | 1.625 | 1.234 | .690  | .345 | 1.250 |
| 16FOPX                       | 16FPX                           | 1.00           | 1.875 | 1.484 | .810  | .375 | 1.560 |
| 20FOPX                       | 20FPX                           | 1.25           | 2.125 | 1.704 | 1.000 | .405 | 1.750 |
| 24FOPX                       | 24FPX                           | 1.50           | 2.500 | 1.984 | 1.190 | .495 | 2.115 |
| 32FOPX                       | 32FPX                           | 2.00           | 3.125 | 2.604 | 1.500 | .495 | 2.490 |

## CAT-Style Flange Plug



| CAT-STYLE FLANGE PLUG |             |       |       |      |            |
|-----------------------|-------------|-------|-------|------|------------|
| PART NO.              | FLANGE SIZE | A     | B     | C    | O-RING NO. |
| 8COPX                 | .500        | 1.250 | 1.00  | .560 | 210        |
| 12COPX                | .750        | 1.625 | 1.250 | .560 | 214        |
| 16COPX                | 1.00        | 1.875 | 1.560 | .560 | 219        |
| 20COPX                | 1.25        | 2.125 | 1.750 | .560 | 222        |
| 24COPX                | 1.50        | 2.500 | 2.115 | .560 | 225        |
| 32COPX                | 2.00        | 3.125 | 2.490 | .560 | 228        |

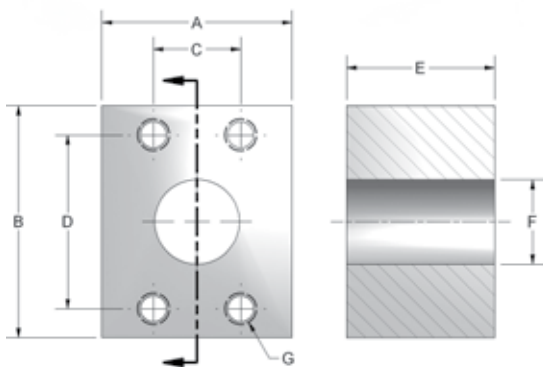
# Connector Block & Plate



Used to connect two o-ring flanges

CODE 61 CONNECTOR BLOCK

| PART NO.  | PAD SIZE | A    | B    | C     | D     | E     | F     | G<br>UNC-2B |
|-----------|----------|------|------|-------|-------|-------|-------|-------------|
| ACB 8-8   | .50      | 2.00 | 2.12 | .688  | 1.500 | 1.75  | .502  | 5/16-18     |
| ACB 12-12 | .75      | 2.00 | 2.62 | .875  | 1.875 | 1.75  | .752  | 3/8-16      |
| ACB 16-16 | 1.00     | 2.25 | 2.75 | 1.031 | 2.062 | 1.75  | 1.002 | 3/8-16      |
| ACB 20-20 | 1.25     | 3.00 | 3.19 | 1.188 | 2.312 | 2.125 | 1.252 | 7/16-14     |
| ACB 24-24 | 1.50     | 3.50 | 3.75 | 1.406 | 2.750 | 2.125 | 1.502 | 1/2-13      |
| ACB 32-32 | 2.00     | 3.88 | 4.00 | 1.688 | 3.062 | 2.125 | 1.942 | 1/2-13      |
| ACB 40-40 | 2.50     | 4.38 | 4.50 | 2.000 | 3.500 | 2.375 | 2.442 | 1/2-13      |



CODE 62 CONNECTOR BLOCK

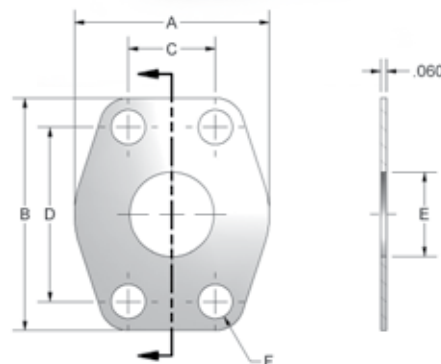
| PART NO.   | PAD SIZE | A    | B    | C     | D     | E    | F     | G<br>UNC-2B |
|------------|----------|------|------|-------|-------|------|-------|-------------|
| ACBX 8-8   | .50      | 2.00 | 2.22 | .718  | 1.594 | 1.75 | .502  | 5/16-18     |
| ACBX 12-12 | .75      | 2.50 | 2.81 | .937  | 2.000 | 2.00 | .752  | 3/8-16      |
| ACBX 16-16 | 1.00     | 2.75 | 3.19 | 1.093 | 2.250 | 2.00 | 1.002 | 7/16-14     |
| ACBX 20-20 | 1.25     | 3.00 | 3.75 | 1.250 | 2.625 | 2.00 | 1.252 | 1/2-13      |
| ACBX 24-24 | 1.50     | 3.88 | 4.50 | 1.437 | 3.125 | 2.50 | 1.502 | 5/8-11      |
| ACBX 32-32 | 2.00     | 4.50 | 5.25 | 1.750 | 3.812 | 2.95 | 1.942 | 3/4-10      |

CODE 61 CONNECTOR PLATE

| PART NO. | PAD SIZE | A    | B    | C     | D     | E    | F    |
|----------|----------|------|------|-------|-------|------|------|
| 8 CP     | .50      | 1.81 | 2.12 | .688  | 1.500 | .50  | .344 |
| 12 CP    | .75      | 2.06 | 2.56 | .875  | 1.875 | .75  | .406 |
| 16 CP    | 1.00     | 2.31 | 2.75 | 1.031 | 2.062 | 1.00 | .406 |
| 20 CP    | 1.25     | 2.88 | 3.12 | 1.188 | 2.312 | 1.25 | .469 |
| 24 CP    | 1.50     | 3.25 | 3.69 | 1.406 | 2.750 | 1.50 | .531 |
| 32 CP    | 2.00     | 3.81 | 4.00 | 1.688 | 3.062 | 2.00 | .531 |
| 40 CP    | 2.50     | 4.12 | 4.44 | 2.000 | 3.500 | 2.50 | .531 |
| 48 CP    | 3.00     | 5.16 | 5.31 | 2.438 | 4.188 | 3.00 | .656 |

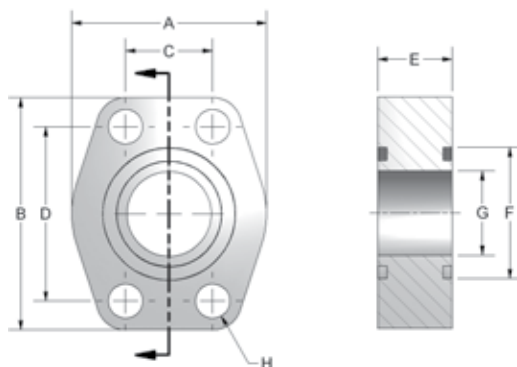
CODE 62 CONNECTOR PLATE

| PART NO. | PAD SIZE | A    | B    | C     | D     | E     | F    |
|----------|----------|------|------|-------|-------|-------|------|
| 12 CPX   | .75      | 2.38 | 2.81 | .937  | 2.000 | .750  | .406 |
| 16 CPX   | 1.00     | 2.75 | 3.19 | 1.093 | 2.250 | 1.000 | .469 |
| 20 CPX   | 1.25     | 3.06 | 3.75 | 1.250 | 2.625 | 1.250 | .531 |
| 24 CPX   | 1.50     | 3.75 | 4.44 | 1.437 | 3.125 | 1.500 | .656 |
| 32 CPX   | 2.00     | 4.50 | 5.25 | 1.750 | 3.812 | 2.000 | .781 |



# Double O-Ring Union

Used to connect two flat faced flanges



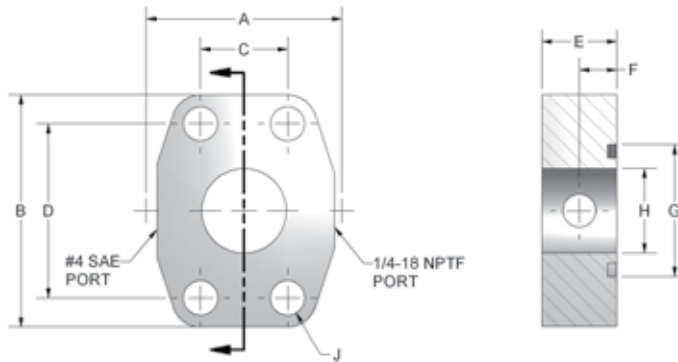
| CODE 61 DOUBLE O-RING SPACER |          |       |       |       |       |      |       |       |      |
|------------------------------|----------|-------|-------|-------|-------|------|-------|-------|------|
| PART NO.                     | PAD SIZE | A     | B     | C     | D     | E    | F     | G     | H    |
| ADOS-8-8                     | .50      | 1.813 | 2.125 | .688  | 1.50  | .75  | 1.000 | .502  | .344 |
| ADOS-12-12                   | .75      | 2.063 | 2.563 | .875  | 1.875 | .75  | 1.250 | .752  | .406 |
| ADOS-16-16                   | 1.00     | 2.313 | 2.750 | 1.031 | 2.063 | .88  | 1.560 | 1.002 | .406 |
| ADOS-20-20                   | 1.25     | 2.875 | 3.125 | 1.188 | 2.313 | .94  | 1.750 | 1.252 | .469 |
| ADOS-24-24                   | 1.50     | 3.250 | 3.688 | 1.406 | 2.750 | 1.19 | 2.115 | 1.502 | .531 |
| ADOS-32-32                   | 2.00     | 3.813 | 4.000 | 1.688 | 3.063 | 1.44 | 2.490 | 2.002 | .531 |
| ADOS-40-40                   | 2.50     | 4.281 | 4.500 | 2.000 | 3.500 | 1.82 | 2.995 | 2.502 | .531 |
| ADOS-48-48                   | 3.00     | 5.156 | 5.313 | 2.438 | 4.188 | 2.19 | 3.615 | 3.002 | .656 |
| ADOS-56-56                   | 3.50     | 5.500 | 6.000 | 2.750 | 4.750 | 1.44 | 4.095 | 3.502 | .656 |
| ADOS-64-64                   | 4.00     | 6.00  | 6.38  | 3.062 | 5.125 | 1.44 | 4.595 | 4.002 | .656 |

| CODE 62 DOUBLE O-RING SPACER |          |      |      |       |       |      |       |       |       |
|------------------------------|----------|------|------|-------|-------|------|-------|-------|-------|
| PART NO.                     | PAD SIZE | A    | B    | C     | D     | E    | F     | G     | H     |
| ADOSX-8-8                    | .500     | 1.94 | 2.30 | .718  | 1.594 | 1.25 | 1.000 | .502  | .344  |
| ADOSX-12-12                  | .750     | 2.50 | 2.95 | .937  | 2.000 | 1.25 | 1.250 | .752  | .406  |
| ADOSX-16-16                  | 1.00     | 2.75 | 3.19 | 1.093 | 2.250 | 1.50 | 1.560 | 1.002 | .492  |
| ADOSX-20-20                  | 1.25     | 3.06 | 3.75 | 1.250 | 2.625 | 1.43 | 1.750 | 1.252 | .531  |
| ADOSX-24-24                  | 1.50     | 3.75 | 4.44 | 1.437 | 3.125 | 1.82 | 2.115 | 1.502 | .656  |
| ADOSX-32-32                  | 2.00     | 4.50 | 5.25 | 1.750 | 3.812 | 1.82 | 2.490 | 2.002 | .781  |
| ADOSX-40-40                  | 2.50     | 5.87 | 6.87 | 2.311 | 4.874 | 1.93 | 2.995 | 2.502 | .906  |
| ADOSX-48-48                  | 3.00     | 7.00 | 8.50 | 2.811 | 6.000 | 2.69 | 3.615 | 3.002 | 1.156 |





# Gauge Port Spacer



CODE 61 GAUGE PORT O-RING SPACER

| PART NO. | PAD SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J    |
|----------|----------|------|------|-------|-------|------|------|-------|-------|------|
| AS-8-GP  | .50      | 1.82 | 2.16 | .688  | 1.500 | 1.25 | .62  | 1.000 | .502  | .344 |
| AS-12-GP | .75      | 2.06 | 2.69 | .875  | 1.875 | 1.25 | .62  | 1.250 | .752  | .406 |
| AS-16-GP | 1.00     | 2.31 | 2.75 | 1.031 | 2.062 | .88  | .44  | 1.560 | 1.002 | .406 |
| AS-20-GP | 1.25     | 2.87 | 3.12 | 1.188 | 2.312 | .94  | .47  | 1.750 | 1.252 | .469 |
| AS-24-GP | 1.50     | 3.25 | 3.68 | 1.406 | 2.750 | 1.19 | .59  | 2.115 | 1.502 | .531 |
| AS-32-GP | 2.00     | 3.81 | 4.00 | 1.688 | 3.062 | 1.38 | .69  | 2.490 | 2.002 | .531 |
| AS-40-GP | 2.50     | 4.28 | 4.50 | 2.000 | 3.500 | 1.75 | .88  | 2.995 | 2.502 | .531 |
| AS-48-GP | 3.00     | 5.15 | 5.31 | 2.438 | 4.188 | 2.12 | 1.06 | 3.615 | 3.002 | .656 |
| AS-56-GP | 3.50     | 5.50 | 6.00 | 2.750 | 4.750 | 1.44 | .720 | 4.095 | 3.502 | .656 |
| AS-64-GP | 4.00     | 6.00 | 6.38 | 3.062 | 5.125 | 1.50 | .750 | 4.595 | 4.002 | .656 |

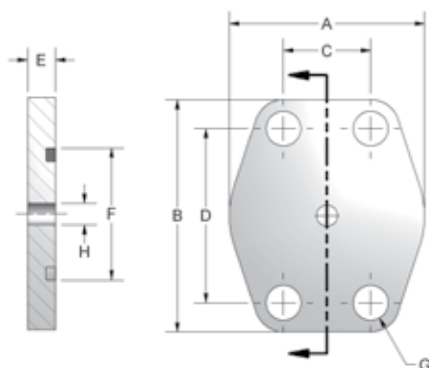
CODE 62 GAUGE PORT O-RING SPACER

| PART NO.  | PAD SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J     |
|-----------|----------|------|------|-------|-------|------|------|-------|-------|-------|
| ASX-8-GP  | .50      | 1.94 | 2.30 | .718  | 1.594 | 1.25 | .62  | 1.000 | .502  | .344  |
| ASX-12-GP | .75      | 2.50 | 2.95 | .937  | 2.000 | 1.25 | .62  | 1.250 | .752  | .406  |
| ASX-16-GP | 1.00     | 2.75 | 3.19 | 1.093 | 2.250 | 1.50 | .75  | 1.560 | 1.002 | .492  |
| ASX-20-GP | 1.25     | 3.06 | 3.75 | 1.250 | 2.625 | 1.50 | .75  | 1.750 | 1.252 | .531  |
| ASX-24-GP | 1.50     | 3.75 | 4.44 | 1.437 | 3.125 | 1.75 | .88  | 2.115 | 1.502 | .656  |
| ASX-32-GP | 2.00     | 4.50 | 5.25 | 1.750 | 3.812 | 1.75 | .88  | 2.490 | 2.002 | .781  |
| ASX-40-GP | 2.50     | 5.87 | 6.87 | 2.311 | 4.874 | 2.06 | 1.03 | 2.995 | 2.502 | .906  |
| ASX-48-GP | 3.00     | 7.00 | 8.50 | 2.811 | 6.000 | 2.62 | 1.31 | 3.615 | 3.002 | 1.156 |

# Orifice Plate



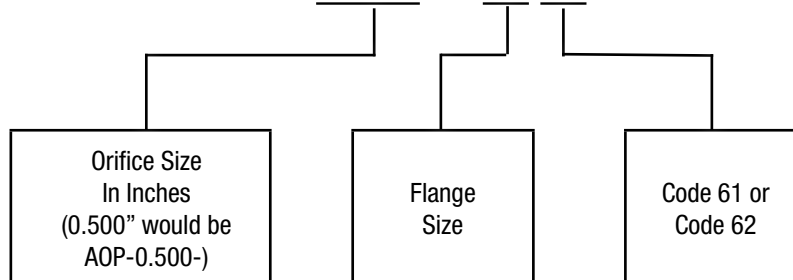
| CODE 61 ORIFICE PLATE |          |      |      |       |       |     |       |      |                    |
|-----------------------|----------|------|------|-------|-------|-----|-------|------|--------------------|
| PART NO.              | PAD SIZE | A    | B    | C     | D     | E   | F     | G    | H DIA.             |
| AOP-___-0861          | .50      | 1.81 | 2.12 | .688  | 1.500 | .33 | 1.000 | .344 | CUSTOMER SPECIFIED |
| AOP-___-1261          | .75      | 2.06 | 2.56 | .875  | 1.875 | .33 | 1.250 | .413 |                    |
| AOP-___-1661          | 1.00     | 2.31 | 2.75 | 1.031 | 2.063 | .33 | 1.560 | .413 |                    |
| AOP-___-2061          | 1.25     | 2.88 | 3.12 | 1.188 | 2.313 | .33 | 1.750 | .469 |                    |
| AOP-___-2461          | 1.50     | 3.25 | 3.69 | 1.406 | 2.750 | .33 | 2.115 | .531 |                    |
| AOP-___-3261          | 2.00     | 3.81 | 4.00 | 1.688 | 3.063 | .33 | 2.490 | .531 |                    |
| AOP-___-4061          | 2.50     | 4.28 | 4.50 | 2.000 | 3.500 | .33 | 2.995 | .531 |                    |
| AOP-___-4861          | 3.00     | 5.16 | 5.31 | 2.438 | 4.188 | .33 | 3.615 | .656 |                    |
| AOP-___-5661          | 3.50     | 5.50 | 6.00 | 2.750 | 4.750 | .33 | 4.095 | .656 |                    |
| AOP-___-6461          | 4.00     | 6.00 | 6.38 | 3.062 | 5.125 | .33 | 4.595 | .656 |                    |



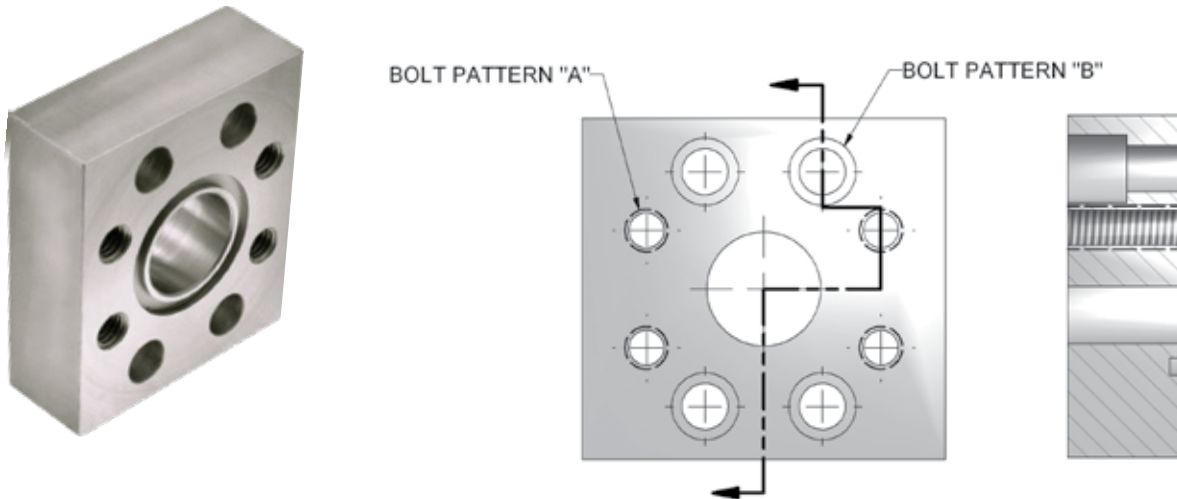
| CODE 62 ORIFICE PLATE |          |      |      |       |       |     |       |      |                    |
|-----------------------|----------|------|------|-------|-------|-----|-------|------|--------------------|
| PART NO.              | PAD SIZE | A    | B    | C     | D     | E   | F     | G    | H DIA.             |
| AOPX-___-0862         | .50      | 1.94 | 2.19 | .718  | 1.594 | .33 | 1.000 | .354 | CUSTOMER SPECIFIED |
| AOPX-___-1262         | .75      | 2.50 | 2.81 | .937  | 2.000 | .33 | 1.250 | .433 |                    |
| AOPX-___-1662         | 1.00     | 2.75 | 3.19 | 1.093 | 2.250 | .33 | 1.560 | .531 |                    |
| AOPX-___-2062         | 1.25     | 3.06 | 3.75 | 1.250 | 2.625 | .33 | 1.750 | .610 |                    |
| AOPX-___-2462         | 1.50     | 3.75 | 4.44 | 1.437 | 3.125 | .33 | 2.115 | .689 |                    |
| AOPX-___-3262         | 2.00     | 4.50 | 5.25 | 1.750 | 3.812 | .33 | 2.490 | .866 |                    |

## ORDERING INFORMATION

AOP - 0.500 - 32 61



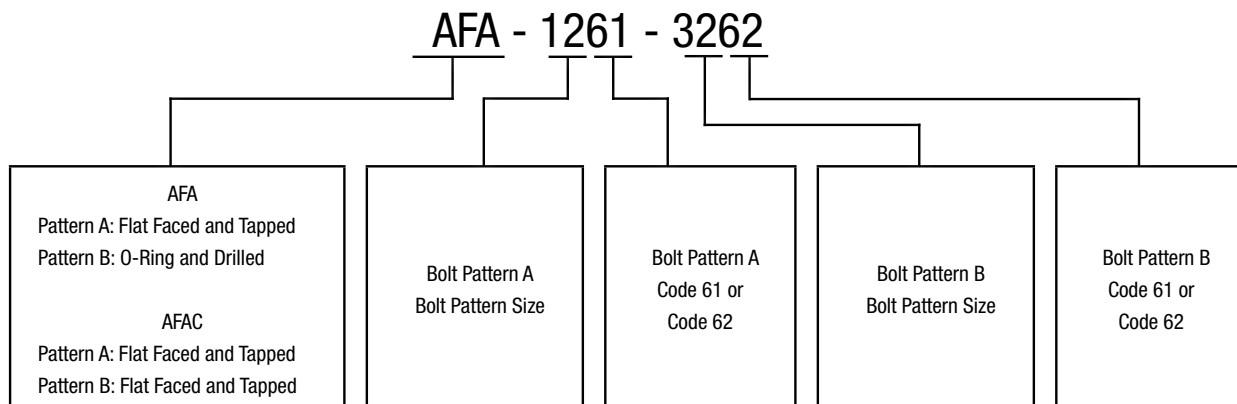
# Bolt Pattern Adapters



Outer envelope shape may vary due to size configuration.

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

## ORDERING INFORMATION



## Blanking



Figure 1

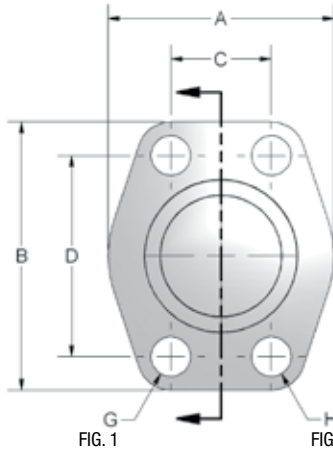


FIG. 1



Figure 2

Location hole may be present on some parts but does not affect functionality.

| CODE 61 BLANKING          |                              |             |       |       |       |       |      |       |      |             |                   |              |
|---------------------------|------------------------------|-------------|-------|-------|-------|-------|------|-------|------|-------------|-------------------|--------------|
| PART NO.<br>O-RING FIG. 1 | PART NO.<br>FLAT FACE FIG. 2 | PAD<br>SIZE | A     | B     | C     | D     | E    | F     | G    | H<br>UNC-2B | MOUNTING HARDWARE |              |
|                           |                              |             |       |       |       |       |      |       |      |             | O-RING            | SHCS         |
| W36-8-8                   | W37-8-8                      | .50         | 1.813 | 2.125 | .688  | 1.50  | .75  | 1.000 | .344 | 5/16-18     | 210               | 5/16-18X1.50 |
| W36-12-12                 | W37-12-12                    | .75         | 2.063 | 2.563 | .875  | 1.875 | .75  | 1.250 | .406 | 3/8-16      | 214               | 3/8-16X1.50  |
| W36-16-16                 | W37-16-16                    | 1.00        | 2.313 | 2.750 | 1.031 | 2.063 | .88  | 1.560 | .406 | 3/8-16      | 219               | 3/8-16X1.75  |
| W36-20-20                 | W37-20-20                    | 1.25        | 2.875 | 3.125 | 1.188 | 2.313 | .94  | 1.750 | .469 | 7/16-14     | 222               | 7/16-14X1.75 |
| W36-24-24                 | W37-24-24                    | 1.50        | 3.250 | 3.688 | 1.406 | 2.750 | 1.19 | 2.115 | .531 | 1/2-13      | 225               | 1/2-13X2.25  |
| W36-32-32                 | W37-32-32                    | 2.00        | 3.813 | 4.000 | 1.688 | 3.063 | 1.44 | 2.490 | .531 | 1/2-13      | 228               | 1/2-13X2.50  |
| W36-40-40                 | W37-40-40                    | 2.50        | 4.281 | 4.500 | 2.000 | 3.500 | 1.82 | 2.995 | .531 | 1/2-13      | 232               | 1/2-13X2.75  |
| W36-48-48                 | W37-48-48                    | 3.00        | 5.156 | 5.313 | 2.438 | 4.188 | 2.19 | 3.615 | .656 | 5/8-11      | 237               | 5/8-11X3.50  |
| W36-56-56                 | W37-56-56                    | 3.50        | 5.500 | 6.000 | 2.750 | 4.750 | 1.44 | 4.095 | .656 | 5/8-11      | 241               | 5/8-11X2.75  |
| W36-64-64                 | W37-64-64                    | 4.00        | 6.00  | 6.38  | 3.062 | 5.125 | 1.44 | 4.595 | .656 | 5/8-11      | 245               | 5/8-11X2.75  |
| W36-80-80                 | W37-80-80                    | 5.00        | 7.12  | 7.25  | 3.625 | 6.000 | 1.75 | 5.595 | .656 | 5/8-11      | 253               | 5/8-11X3.00  |

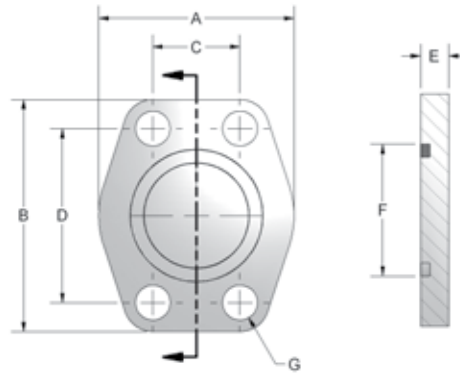
| CODE 62 BLANKING          |                              |             |      |      |       |       |      |       |       |             |                   |              |
|---------------------------|------------------------------|-------------|------|------|-------|-------|------|-------|-------|-------------|-------------------|--------------|
| PART NO.<br>O-RING FIG. 1 | PART NO.<br>FLAT FACE FIG. 2 | PAD<br>SIZE | A    | B    | C     | D     | E    | F     | G     | H<br>UNC-2B | MOUNTING HARDWARE |              |
|                           |                              |             |      |      |       |       |      |       |       |             | O-RING            | SHCS         |
| W38-8-8                   | W39-8-8                      | .500        | 1.94 | 2.30 | .718  | 1.594 | 1.25 | 1.000 | .344  | 5/16-18     | 210               | 5/16-18X2.00 |
| W38-12-12                 | W39-12-12                    | .750        | 2.50 | 2.95 | .937  | 2.000 | 1.25 | 1.250 | .406  | 3/8-16      | 214               | 3/8-16X2.00  |
| W38-16-16                 | W39-16-16                    | 1.00        | 2.75 | 3.19 | 1.093 | 2.250 | 1.50 | 1.560 | .492  | 7/16-14     | 219               | 7/16-14X2.50 |
| W38-20-20                 | W39-20-20                    | 1.25        | 3.06 | 3.75 | 1.250 | 2.625 | 1.43 | 1.750 | .531  | 1/2-13      | 222               | 1/2-13X2.50  |
| W38-24-24                 | W39-24-24                    | 1.50        | 3.75 | 4.44 | 1.437 | 3.125 | 1.82 | 2.115 | .656  | 5/8-11      | 225               | 5/8-11X3.00  |
| W38-32-32                 | W39-32-32                    | 2.00        | 4.50 | 5.25 | 1.750 | 3.812 | 1.82 | 2.490 | .781  | 3/4-10      | 228               | 3/4-10X3.00  |
| W38-40-40                 | W39-40-40                    | 2.50        | 5.87 | 6.87 | 2.311 | 4.874 | 1.93 | 2.995 | .906  | 7/8-9       | 232               | 7/8-9X3.50   |
| W38-48-48                 | W39-48-48                    | 3.00        | 7.00 | 8.50 | 2.811 | 6.000 | 2.69 | 3.615 | 1.190 | 1 1/8-7     | 237               | 1 1/8-7X4.50 |

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.



866-FLANGES | 513.527.4444 | Fax 513.527.4449  
[sales@anchorfluidpower.com](mailto:sales@anchorfluidpower.com) | [anchorfluidpower.com](http://anchorfluidpower.com)

# Zero PSI Shipping Plate



Anchor Fluid Power has developed a low cost solution to leaky, gasketless port covers. Forged steel shipping plates are 0.33" thick, silver trivalent plated for resistance to oxidation, and incorporate an o-ring groove on one side for **"Zero Pressure"** applications. The opposite side has a machined flat-face for capping off hose ends.

Applications Include: Cylinder Port Covers, Pump Port Covers, Stub-Out Header Line Covers, Maintenance Work and Great for Painting Protection

| CODE 61 SHIPPING PLATE |                |          |      |      |       |       |     |       |      |                   |             |
|------------------------|----------------|----------|------|------|-------|-------|-----|-------|------|-------------------|-------------|
| PART NO.               | **KIT PART NO. | PAD SIZE | A    | B    | C     | D     | E   | F     | G    | MOUNTING HARDWARE |             |
|                        |                |          |      |      |       |       |     |       |      | O-RING            | HHCS        |
| SP-8                   | SP-8U          | .50      | 1.81 | 2.12 | .688  | 1.500 | .33 | 1.000 | .344 | 210               | 5/16-18X.75 |
| SP-12                  | SP-12U         | .75      | 2.06 | 2.56 | .875  | 1.875 | .33 | 1.250 | .413 | 214               | 3/8-16X.75  |
| SP-16                  | SP-16U         | 1.00     | 2.31 | 2.75 | 1.031 | 2.063 | .33 | 1.560 | .413 | 219               | 3/8-16X.75  |
| SP-20                  | SP-20U         | 1.25     | 2.88 | 3.12 | 1.188 | 2.313 | .33 | 1.750 | .469 | 222               | 7/16-14X.75 |
| SP-24                  | SP-24U         | 1.50     | 3.25 | 3.69 | 1.406 | 2.750 | .33 | 2.115 | .531 | 225               | 1/2-13X.75  |
| SP-32                  | SP-32U         | 2.00     | 3.81 | 4.00 | 1.688 | 3.063 | .33 | 2.490 | .531 | 228               | 1/2-13X.75  |
| SP-40                  | SP-40U         | 2.50     | 4.28 | 4.50 | 2.000 | 3.500 | .33 | 2.995 | .531 | 232               | 1/2-13X.75  |
| SP-48                  | SP-48U         | 3.00     | 5.16 | 5.31 | 2.438 | 4.188 | .33 | 3.615 | .656 | 237               | 5/8-11X1.00 |
| SP-56                  | SP-56U         | 3.50     | 5.50 | 6.00 | 2.750 | 4.750 | .33 | 4.095 | .656 | 241               | 5/8-11X1.00 |
| SP-64                  | SP-64U         | 4.00     | 6.00 | 6.38 | 3.062 | 5.125 | .33 | 4.595 | .656 | 245               | 5/8-11X1.00 |

| CODE 62 SHIPPING PLATE |                |          |      |      |       |       |     |       |       |                   |              |
|------------------------|----------------|----------|------|------|-------|-------|-----|-------|-------|-------------------|--------------|
| PART NO.               | **KIT PART NO. | PAD SIZE | A    | B    | C     | D     | E   | F     | G     | MOUNTING HARDWARE |              |
|                        |                |          |      |      |       |       |     |       |       | O-RING            | HHCS         |
| SPX-8                  | SPX-8U         | .50      | 1.94 | 2.19 | .718  | 1.594 | .33 | 1.000 | .354  | 210               | 5/16-18X.75  |
| SPX-12                 | SPX-12U        | .75      | 2.50 | 2.81 | .937  | 2.000 | .33 | 1.250 | .433  | 214               | 3/8-16X.75   |
| SPX-16                 | SPX-16U        | 1.00     | 2.75 | 3.19 | 1.093 | 2.250 | .33 | 1.560 | .531  | 219               | 7/16-14X.75  |
| SPX-20                 | SPX-20U        | 1.25     | 3.06 | 3.75 | 1.250 | 2.625 | .33 | 1.750 | .610  | 222               | 1/2-13X.75   |
| SPX-24                 | SPX-24U        | 1.50     | 3.75 | 4.44 | 1.437 | 3.125 | .33 | 2.115 | .689  | 225               | 5/8-11X1.00  |
| SPX-32                 | SPX-32U        | 2.00     | 4.50 | 5.25 | 1.750 | 3.812 | .33 | 2.490 | .866  | 228               | 3/4-10X1.00  |
| SPX-40                 | SPX-40U        | 2.50     | 5.87 | 6.87 | 2.311 | 4.874 | .33 | 2.995 | 0.984 | 232               | 7/8-9X1.00   |
| SPX-48                 | SPX-48U        | 3.00     | 7.00 | 8.50 | 2.811 | 6.00  | .33 | 3.615 | 1.19  | 237               | 1 1/8-7X1.00 |

\*\*When ordering this part # you will receive:(1) shipping plate, (4) hex head bolts, and (1) Buna N O-Ring

**NOT FOR USE ON DYNAMIC OR PRESSURIZED APPLICATIONS**

## NPTF Thread

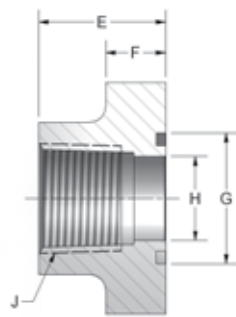


Figure 1

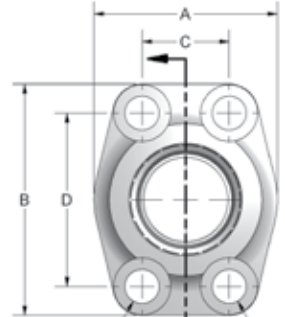


FIG. 1

FIG. 2

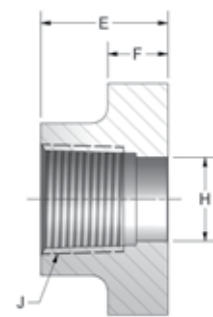


Figure 2

\*No Spotface

| CODE 61 NPTF THREAD          |                                 |              |             |      |      |       |       |      |      |       |       |            |      |             |                   |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|------|-------|-------|------------|------|-------------|-------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PORT<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J          | K    | L<br>UNC-2B | MOUNTING HARDWARE |              |
|                              |                                 |              |             |      |      |       |       |      |      |       |       |            |      |             | O-RING            | SHCS         |
| W43-8-8                      | W104-8-8                        | .50          | .50         | 1.81 | 2.13 | .688  | 1.500 | 1.42 | .63  | 1.000 | .502  | 1/2-14     | .344 | 5/16-18     | 210               | 5/16-18X1.25 |
| W43-12-12                    | W104-12-12                      | .75          | .75         | 1.97 | 2.56 | .875  | 1.875 | 1.42 | .71  | 1.250 | .752  | 3/4-14     | .406 | 3/8-16      | 214               | 3/8-16X1.50  |
| W43-16-16                    | W104-16-16                      | 1.00         | 1.00        | 2.17 | 2.75 | 1.031 | 2.062 | 1.50 | .71  | 1.560 | 1.002 | 1-11.5     | .406 | 3/8-16      | 219               | 3/8-16X1.50  |
| W43-20-20                    | W104-20-20                      | 1.25         | 1.25        | 2.68 | 3.12 | 1.188 | 2.312 | 1.61 | .83  | 1.750 | 1.252 | 1 1/4-11.5 | .469 | 7/16-14     | 222               | 7/16-14X1.75 |
| W43-24-24                    | W104-24-24                      | 1.50         | 1.50        | 3.07 | 3.66 | 1.406 | 2.750 | 1.77 | .98  | 2.115 | 1.502 | 1 1/2-11.5 | .531 | 1/2-13      | 225               | 1/2-13X1.75  |
| W43-32-32                    | W104-32-32                      | 2.00         | 2.00        | 3.54 | 4.00 | 1.688 | 3.062 | 1.77 | .98  | 2.490 | 2.002 | 2-11.5     | .531 | 1/2-13      | 228               | 1/2-13X1.75  |
| W43-40-40                    | W104-40-40                      | 2.50         | 2.50        | 4.09 | 4.49 | 2.000 | 3.500 | 1.97 | .98  | 2.995 | 2.502 | 2 1/2-8    | .531 | 1/2-13      | 232               | 1/2-13X1.75  |
| W43-48-48                    | W104-48-48                      | 3.00         | 3.00        | 4.88 | 5.28 | 2.438 | 4.188 | 1.97 | 1.06 | 3.615 | 3.002 | 3-8        | .656 | 5/8-11      | 237               | 5/8-11X2.00  |
| W43-56-56                    | W104-56-56                      | 3.50         | 3.50        | 5.35 | 5.98 | 2.750 | 4.750 | 2.19 | 1.06 | 4.095 | 3.500 | 3 1/2-8    | .656 | 5/8-11      | 241               | 5/8-11X2.00  |
| W43-64-64                    | W104-64-64                      | 4.00         | 4.00        | 5.75 | 6.38 | 3.062 | 5.125 | 2.19 | 1.06 | 4.595 | 3.940 | 4-8        | .656 | 5/8-11      | 245               | 5/8-11X2.00  |

| CODE 62 NPTF THREAD          |                                 |              |             |      |      |       |       |      |      |       |       |            |      |             |                   |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|------|-------|-------|------------|------|-------------|-------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PORT<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J          | K    | L<br>UNC-2B | MOUNTING HARDWARE |              |
|                              |                                 |              |             |      |      |       |       |      |      |       |       |            |      |             | O-RING            | SHCS         |
| W44-8-8                      | W45-8-8                         | .50          | .50         | 1.81 | 2.21 | .718  | 1.594 | 1.42 | .63  | 1.000 | .502  | 1/2-14     | .344 | 5/6-18      | 210               | 5/16-18X1.25 |
| W44-12-12                    | W45-12-12                       | .75          | .75         | 2.17 | 2.80 | .937  | 2.000 | 1.38 | .83  | 1.250 | .752  | 3/4-14     | .406 | 3/8-16      | 214               | 3/8-16X1.50  |
| W44-16-16                    | W45-16-16                       | 1.00         | 1.00        | 2.56 | 3.19 | 1.093 | 2.250 | 1.65 | .98  | 1.560 | 1.002 | 1-11.5     | .492 | 7/16-14     | 219               | 7/16-14X1.75 |
| W44-20-20                    | W45-20-20                       | 1.25         | 1.25        | 3.07 | 3.75 | 1.250 | 2.625 | 1.77 | 1.06 | 1.750 | 1.252 | 1 1/4-11.5 | .531 | 1/2-13      | 222               | 1/2-13X1.75  |
| W44-24-24                    | W45-24-24                       | 1.50         | 1.50        | 3.70 | 4.41 | 1.437 | 3.125 | 1.97 | 1.18 | 2.115 | 1.502 | 1 1/2-11.5 | .656 | 5/8-11      | 225               | 5/8-11X2.25  |
| W44-32-32                    | W45-32-32                       | 2.00         | 2.00        | 4.50 | 5.28 | 1.750 | 3.812 | 2.56 | 1.46 | 2.490 | 2.002 | 2-11.5     | .781 | 3/4-10      | 228               | 3/4-10X2.75  |

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.



# SAE Thread

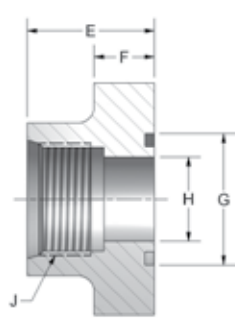


Figure 1

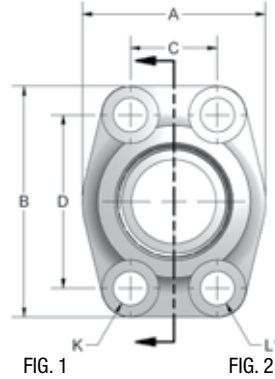


FIG. 1

FIG. 2

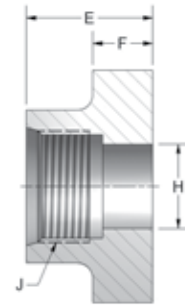


Figure 2

\*No Spotface

| CODE 61 SAE STRAIGHT THREAD  |                                 |              |             |      |      |       |       |      |      |       |       |           |      |             |                      |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|------|-------|-------|-----------|------|-------------|----------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PORT<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J         | K    | L<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|                              |                                 |              |             |      |      |       |       |      |      |       |       |           |      |             | O-RING               | SHCS         |
| W46-8-8                      | W106-8-8                        | .50          | .50         | 1.81 | 2.13 | .688  | 1.500 | 1.42 | .63  | 1.000 | .502  | 3/4-16    | .344 | 5/16-18     | 210                  | 5/16-18X1.25 |
| W46-12-12                    | W106-12-12                      | .75          | .75         | 1.97 | 2.56 | .875  | 1.875 | 1.42 | .71  | 1.250 | .752  | 1 1/16-12 | .406 | 3/8-16      | 214                  | 3/8-16X1.50  |
| W46-16-16                    | W106-16-16                      | 1.00         | 1.00        | 2.17 | 2.75 | 1.031 | 2.062 | 1.50 | .71  | 1.560 | 1.002 | 1 5/16-12 | .406 | 3/8-16      | 219                  | 3/8-16X1.50  |
| W46-20-20                    | W106-20-20                      | 1.25         | 1.25        | 2.68 | 3.12 | 1.188 | 2.312 | 1.61 | .83  | 1.750 | 1.252 | 1 5/8-12  | .469 | 7/16-14     | 222                  | 7/16-14X1.75 |
| W46-24-24                    | W106-24-24                      | 1.50         | 1.50        | 3.07 | 3.66 | 1.406 | 2.750 | 1.77 | .98  | 2.115 | 1.502 | 1 7/8-12  | .531 | 1/2-13      | 225                  | 1/2-13X1.75  |
| *W46-32-32                   | W106-32-32                      | 2.00         | 2.00        | 3.54 | 4.00 | 1.688 | 3.062 | 1.77 | .98  | 2.490 | 2.002 | 2 1/2-12  | .531 | 1/2-13      | 228                  | 1/2-13X1.75  |
| **W46-40-40                  | W106-40-40                      | 2.50         | 2.50        | 4.09 | 4.49 | 2.000 | 3.500 | 1.97 | .98  | 3.000 | 2.500 | 3-12      | .530 | 1/2-13      | 232                  | 1/2-13X1.75  |
| **W46-48-48                  | W106-48-48                      | 3.00         | 3.00        | 4.88 | 5.28 | 2.440 | 4.190 | 1.97 | 1.06 | 3.620 | 3.000 | 3 1/2-12  | .660 | 5/8-11      | 237                  | 5/8-11X2.00  |
| **W46-64-64                  | W106-64-64                      | 4.00         | 4.00        | 5.74 | 6.38 | 3.060 | 5.130 | 2.19 | 1.06 | 4.600 | 4.000 | 4 1/2-12  | .660 | 5/8-11      | 245                  | 5/8-11X2.00  |

\*1000 PSI max for W46-32-32

\*\*Consult Factory For Working Pressure

| CODE 62 SAE STRAIGHT THREAD  |                                 |              |             |      |      |       |       |      |      |       |       |           |      |             |                      |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|------|-------|-------|-----------|------|-------------|----------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PORT<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J         | K    | L<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|                              |                                 |              |             |      |      |       |       |      |      |       |       |           |      |             | O-RING               | SHCS         |
| W48-8-8                      | W49-8-8                         | .50          | .50         | 1.81 | 2.21 | .718  | 1.594 | 1.42 | .63  | 1.000 | .502  | 3/4-16    | .344 | 5/16-18     | 210                  | 5/16-18X1.25 |
| W48-12-12                    | W49-12-12                       | .75          | .75         | 2.17 | 2.80 | .937  | 2.000 | 1.38 | .83  | 1.250 | .752  | 1 1/6-12  | .406 | 3/8-16      | 214                  | 3/8-16X1.50  |
| W48-16-16                    | W49-16-16                       | 1.00         | 1.00        | 2.56 | 3.19 | 1.093 | 2.250 | 1.65 | .98  | 1.560 | 1.002 | 1 5/16-12 | .492 | 7/16-14     | 219                  | 7/16-14X1.75 |
| W48-20-20                    | W49-20-20                       | 1.25         | 1.25        | 3.07 | 3.75 | 1.250 | 2.625 | 1.77 | 1.06 | 1.750 | 1.252 | 1 5/8-12  | .531 | 1/2-13      | 222                  | 1/2-13X1.75  |
| W48-24-24                    | W49-24-24                       | 1.50         | 1.50        | 3.70 | 4.41 | 1.437 | 3.125 | 1.97 | 1.18 | 2.115 | 1.502 | 1 7/8-12  | .656 | 5/8-11      | 225                  | 5/8-11X2.25  |
| W48-32-32                    | W49-32-32                       | 2.00         | 2.00        | 4.50 | 5.28 | 1.750 | 3.812 | 2.56 | 1.46 | 2.490 | 2.002 | 2 1/2-12  | .781 | 3/4-10      | 228                  | 3/4-10X2.75  |



# BSPP Thread

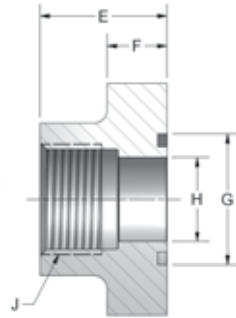


Figure 1

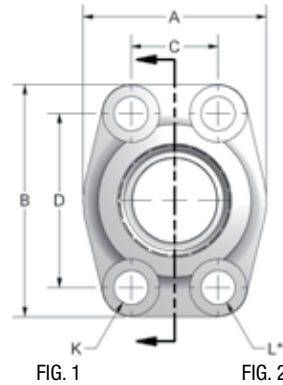


FIG. 1

FIG. 2

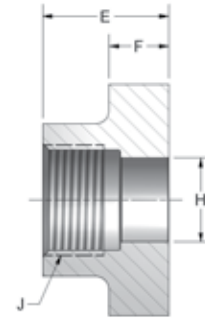


Figure 2

\*No Spotface

## CODE 61 BSPP THREAD

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PORT<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F   | G     | H     | J<br>BSPP | K    | L<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|-----|-------|-------|-----------|------|-------------|----------------------|--------------|
|                              |                                 |              |             |      |      |       |       |      |     |       |       |           |      |             | O-RING               | SHCS         |
| W192-8-8                     | W193-8-8                        | .50          | .50         | 1.81 | 2.13 | .688  | 1.500 | 1.42 | .63 | 1.000 | .502  | .50-14    | .344 | 5/16-18     | 210                  | 5/16-18X1.25 |
| W192-12-12                   | W193-12-12                      | .75          | .75         | 1.97 | 2.56 | .875  | 1.875 | 1.42 | .71 | 1.250 | .752  | .75-14    | .406 | 3/8-16      | 214                  | 3/8-16X1.50  |
| W192-16-16                   | W193-16-16                      | 1.00         | 1.00        | 2.17 | 2.75 | 1.031 | 2.062 | 1.50 | .71 | 1.560 | 1.002 | 1.00-11   | .406 | 3/8-16      | 219                  | 3/8-16X1.50  |
| W192-20-20                   | W193-20-20                      | 1.25         | 1.25        | 2.68 | 3.12 | 1.188 | 2.312 | 1.61 | .83 | 1.750 | 1.252 | 1.25-11   | .469 | 7/16-14     | 222                  | 7/16-14X1.75 |
| W192-24-24                   | W193-24-24                      | 1.50         | 1.50        | 3.07 | 3.66 | 1.406 | 2.750 | 1.77 | .98 | 2.115 | 1.502 | 1.50-11   | .531 | 1/2-13      | 225                  | 1/2-13X1.75  |
| W192-32-32                   | W193-32-32                      | 2.00         | 2.00        | 3.54 | 4.00 | 1.688 | 3.062 | 1.77 | .98 | 2.490 | 2.002 | 2.00-11   | .531 | 1/2-13      | 228                  | 1/2-13X1.75  |

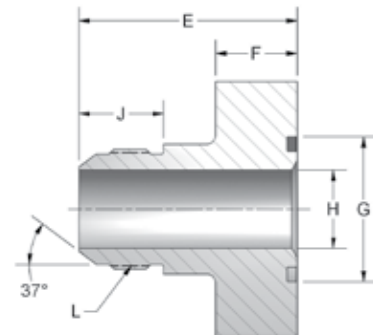
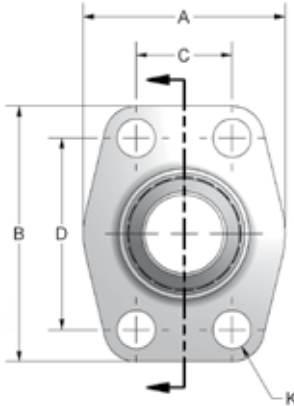
## CODE 62 BSPP THREAD

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PORT<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J<br>BSPP | K    | L<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|------|-------|-------|-----------|------|-------------|----------------------|--------------|
|                              |                                 |              |             |      |      |       |       |      |      |       |       |           |      |             | O-RING               | SHCS         |
| W194-8-8                     | W195-8-8                        | .50          | .50         | 1.81 | 2.21 | .718  | 1.594 | 1.42 | .63  | 1.000 | .502  | .50-14    | .344 | 5/16-18     | 210                  | 5/16-18X1.25 |
| W194-12-12                   | W195-12-12                      | .75          | .75         | 2.17 | 2.80 | .937  | 2.000 | 1.38 | .83  | 1.250 | .752  | .75-14    | .406 | 3/8-16      | 214                  | 3/8-16X1.50  |
| W194-16-16                   | W195-16-16                      | 1.00         | 1.00        | 2.56 | 3.19 | 1.093 | 2.250 | 1.65 | .98  | 1.560 | 1.002 | 1.00-11   | .492 | 7/16-14     | 219                  | 7/16-14X1.75 |
| W194-20-20                   | W195-20-20                      | 1.25         | 1.25        | 3.07 | 3.75 | 1.250 | 2.625 | 1.77 | 1.06 | 1.750 | 1.252 | 1.25-11   | .531 | 1/2-13      | 222                  | 1/2-13X1.50  |
| W194-24-24                   | W195-24-24                      | 1.50         | 1.50        | 3.70 | 4.41 | 1.437 | 3.125 | 1.97 | 1.18 | 2.115 | 1.502 | 1.50-11   | .656 | 5/8-11      | 225                  | 5/8-11X2.25  |
| W194-32-32                   | W195-32-32                      | 2.00         | 2.00        | 4.50 | 5.28 | 1.750 | 3.812 | 2.56 | 1.46 | 2.490 | 2.002 | 2.00-11   | .781 | 3/4-10      | 228                  | 3/4-10X2.75  |

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.



# JIC Thread



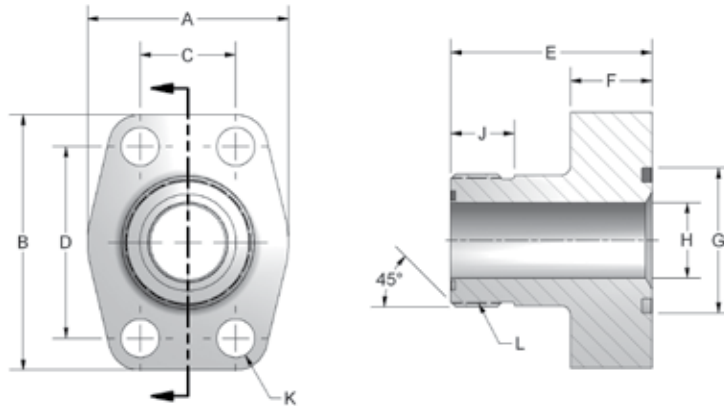
4-Bolt Flange hole pattern per SAE J518. Male JIC Thread per SAE J514.

| CODE 61 MALE JIC |          |      |      |       |       |      |     |       |       |       |      |           |                   |              |
|------------------|----------|------|------|-------|-------|------|-----|-------|-------|-------|------|-----------|-------------------|--------------|
| PART NO.         | PAD SIZE | A    | B    | C     | D     | E    | F   | G     | H     | J     | K    | L         | MOUNTING HARDWARE |              |
|                  |          |      |      |       |       |      |     |       |       |       |      |           | O-RING            | SHCS         |
| W300-8-8         | .50      | 1.81 | 2.13 | .688  | 1.500 | 2.00 | .88 | 1.000 | .391  | .657  | .344 | 3/4-16    | 210               | 5/16-18X1.50 |
| W300-12-12       | .75      | 1.97 | 2.56 | .875  | 1.875 | 2.29 | .88 | 1.250 | .609  | .864  | .413 | 1 1/16-12 | 214               | 3/8-16X1.50  |
| W300-16-16       | 1.00     | 2.17 | 2.75 | 1.031 | 2.062 | 2.35 | .88 | 1.560 | .844  | .911  | .413 | 1 5/16-12 | 219               | 3/8-16X1.50  |
| W300-20-20       | 1.25     | 2.68 | 3.12 | 1.188 | 2.312 | 2.49 | .88 | 1.750 | 1.078 | .958  | .469 | 1 5/8-12  | 222               | 7/16-14X1.75 |
| W300-24-24       | 1.50     | 3.07 | 3.66 | 1.406 | 2.750 | 2.81 | .98 | 2.115 | 1.312 | 1.083 | .531 | 1 7/8-12  | 225               | 1/2-13X1.75  |

| CODE 62 MALE JIC |          |      |      |       |       |      |      |       |       |       |      |           |                   |              |
|------------------|----------|------|------|-------|-------|------|------|-------|-------|-------|------|-----------|-------------------|--------------|
| PART NO.         | PAD SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J     | K    | L         | MOUNTING HARDWARE |              |
|                  |          |      |      |       |       |      |      |       |       |       |      |           | O-RING            | SHCS         |
| W600-8-8         | .50      | 1.81 | 2.21 | .719  | 1.594 | 1.75 | .88  | 1.000 | .391  | .657  | .344 | 3/4-16    | 210               | 5/16-18X1.50 |
| W600-12-12       | .75      | 2.17 | 2.80 | .937  | 2.000 | 2.31 | .88  | 1.250 | .609  | .864  | .413 | 1-1/16-12 | 214               | 3/8-16X1.50  |
| W600-16-16       | 1.00     | 2.56 | 3.19 | 1.093 | 2.250 | 2.62 | .98  | 1.560 | .844  | .911  | .492 | 1-5/16-12 | 219               | 7/16-14X1.75 |
| W600-20-20       | 1.25     | 3.07 | 3.75 | 1.250 | 2.625 | 2.81 | 1.06 | 1.750 | 1.078 | .958  | .531 | 1-5/8-12  | 222               | 1/2-13X1.75  |
| W600-24-24       | 1.50     | 3.70 | 4.41 | 1.437 | 3.125 | 3.25 | 1.18 | 2.115 | 1.312 | 1.083 | .656 | 1-7/8-12  | 225               | 5/8-11X2.25  |

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

# ORFS Thread



4-Bolt Flange hole thread per SAE J518. Male ORFS Thread per SAE J1453-1.

| CODE 61 MALE ORFS |          |      |      |       |       |      |     |       |       |      |      |            |                   |              |
|-------------------|----------|------|------|-------|-------|------|-----|-------|-------|------|------|------------|-------------------|--------------|
| PART NO.          | PAD SIZE | A    | B    | C     | D     | E    | F   | G     | H     | J    | K    | L          | MOUNTING HARDWARE |              |
|                   |          |      |      |       |       |      |     |       |       |      |      |            | O-RING            | SHCS         |
| W304-8-8          | .50      | 1.81 | 2.13 | .688  | 1.500 | 1.75 | .88 | 1.000 | .374  | .512 | .344 | 13/16-16   | 210               | 5/16-18X1.50 |
| W304-12-12        | .75      | 1.97 | 2.56 | .875  | 1.875 | 2.00 | .88 | 1.250 | .611  | .670 | .413 | 1 3/16-12  | 214               | 3/8-16X1.50  |
| W304-16-16        | 1.00     | 2.17 | 2.75 | 1.031 | 2.062 | 2.00 | .88 | 1.560 | .807  | .689 | .413 | 1 7/16-12  | 219               | 3/8-16X1.50  |
| W304-20-20        | 1.25     | 2.68 | 3.12 | 1.188 | 2.312 | 2.25 | .88 | 1.750 | 1.024 | .689 | .469 | 1 11/16-12 | 222               | 7/16-14X1.75 |
| W304-24-24        | 1.50     | 3.07 | 3.66 | 1.406 | 2.750 | 2.50 | .98 | 2.115 | 1.260 | .689 | .531 | 2-12       | 225               | 1/2-13X2.00  |

| CODE 62 MALE ORFS |          |      |      |       |       |      |      |       |       |      |      |            |                   |              |
|-------------------|----------|------|------|-------|-------|------|------|-------|-------|------|------|------------|-------------------|--------------|
| PART NO.          | PAD SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J    | K    | L          | MOUNTING HARDWARE |              |
|                   |          |      |      |       |       |      |      |       |       |      |      |            | O-RING            | SHCS         |
| W604-8-8          | .50      | 1.81 | 2.21 | .719  | 1.594 | 1.75 | .88  | 1.000 | .374  | .512 | .344 | 13/16-16   | 210               | 5/16-18X1.50 |
| W604-12-12        | .75      | 2.17 | 2.80 | .937  | 2.000 | 2.25 | .88  | 1.250 | .611  | .670 | .413 | 1 3/16-12  | 214               | 3/8-16X1.50  |
| W604-16-16        | 1.00     | 2.56 | 3.19 | 1.093 | 2.250 | 2.50 | .98  | 1.560 | .807  | .689 | .492 | 1 7/16-12  | 219               | 7/16-14X1.75 |
| W604-20-20        | 1.25     | 3.07 | 3.75 | 1.250 | 2.625 | 2.62 | 1.06 | 1.750 | 1.024 | .689 | .531 | 1 11/16-12 | 222               | 1/2-13X1.75  |
| W604-24-24        | 1.50     | 3.70 | 4.41 | 1.437 | 3.125 | 2.88 | 1.18 | 2.115 | 1.260 | .689 | .656 | 2-12       | 225               | 5/8-11X2.25  |

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.



**866-FLANGES | 513.527.4444 | Fax 513.527.4449**  
[sales@anchorfluidpower.com](mailto:sales@anchorfluidpower.com) | [anchorfluidpower.com](http://anchorfluidpower.com)

# Flat Socket Weld Pipe

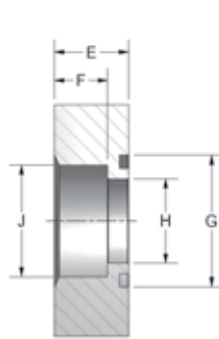


Figure 1

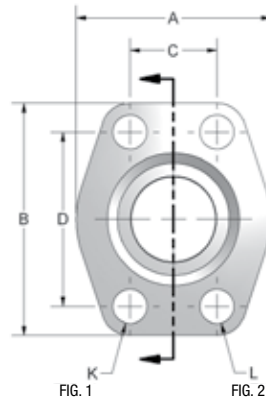


FIG. 1

FIG. 2

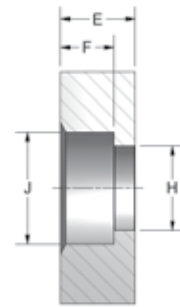


Figure 2

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

| CODE 61 FLAT SOCKET WELD - PIPE |                                 |              |             |       |       |       |       |       |       |       |       |       |      |         |                      |              |
|---------------------------------|---------------------------------|--------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|---------|----------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1    | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A     | B     | C     | D     | E     | F     | G     | H     | J     | K    | L       | MOUNTING<br>HARDWARE |              |
|                                 |                                 |              |             |       |       |       |       |       |       |       |       |       |      |         | O-RING               | SHCS         |
| W4-8-8                          | W61-8-8                         | .50          | .50         | 1.813 | 2.125 | .688  | 1.500 | .750  | .560  | 1.000 | .502  | .855  | .344 | 5/16-18 | 210                  | 5/16-18X1.50 |
| W4-12-12                        | W61-12-12                       | .75          | .75         | 2.063 | 2.563 | .875  | 1.875 | .750  | .560  | 1.250 | .752  | 1.062 | .406 | 3/8-16  | 214                  | 3/8-16X1.50  |
| W4-16-16                        | W61-16-16                       | 1.00         | 1.00        | 2.313 | 2.75  | 1.031 | 2.063 | .880  | .630  | 1.560 | 1.002 | 1.328 | .406 | 3/8-16  | 219                  | 3/8-16X1.75  |
| W4-20-20                        | W61-20-20                       | 1.25         | 1.25        | 2.875 | 3.125 | 1.188 | 2.313 | .940  | .690  | 1.750 | 1.252 | 1.672 | .469 | 7/16-14 | 222                  | 7/16-14X1.75 |
| W4-24-24                        | W61-24-24                       | 1.50         | 1.50        | 3.25  | 3.688 | 1.406 | 2.75  | 1.190 | .750  | 2.115 | 1.502 | 1.922 | .531 | 1/2-13  | 225                  | 1/2-13X2.25  |
| W4-32-32                        | W61-32-32                       | 2.00         | 2.00        | 3.813 | 4.00  | 1.688 | 3.063 | 1.380 | .875  | 2.490 | 2.002 | 2.406 | .531 | 1/2-13  | 228                  | 1/2-13X2.50  |
| W4-40-40                        | W61-40-40                       | 2.50         | 2.50        | 4.281 | 4.50  | 2.000 | 3.500 | 1.750 | 1.00  | 2.995 | 2.502 | 2.906 | .531 | 1/2-13  | 232                  | 1/2-13X2.75  |
| W4-48-48                        | W61-48-48                       | 3.00         | 3.00        | 5.156 | 5.313 | 2.438 | 4.188 | 2.120 | 1.250 | 3.615 | 3.002 | 3.547 | .656 | 5/8-11  | 237                  | 5/8-11X3.50  |

| CODE 62 FLAT SOCKET WELD - PIPE |                                 |              |             |      |      |       |       |       |       |       |       |       |       |         |                      |                |
|---------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|---------|----------------------|----------------|
| PART NO.<br>O-RING<br>FIG. 1    | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E     | F     | G     | H     | J     | K     | L       | MOUNTING<br>HARDWARE |                |
|                                 |                                 |              |             |      |      |       |       |       |       |       |       |       |       |         | O-RING               | SHCS           |
| W59-8-8                         | W60-8-8                         | .50          | .50         | 1.94 | 2.30 | .718  | 1.594 | 1.25  | .560  | 1.000 | .502  | .855  | .344  | 5/16-18 | 210                  | 5/16-18X2.00   |
| W59-12-12                       | W60-12-12                       | .75          | .75         | 2.50 | 2.95 | .937  | 2.000 | 1.250 | .560  | 1.250 | .752  | 1.062 | .406  | 3/8-16  | 214                  | 3/8-16X2.00    |
| W59-16-16                       | W60-16-16                       | 1.00         | 1.00        | 2.75 | 3.19 | 1.093 | 2.250 | 1.500 | .630  | 1.560 | 1.002 | 1.328 | .492  | 7/16-14 | 219                  | 7/16-14X2.50   |
| W59-20-20                       | W60-20-20                       | 1.25         | 1.25        | 3.06 | 3.75 | 1.250 | 2.625 | 1.500 | .690  | 1.750 | 1.252 | 1.672 | .531  | 1/2-13  | 222                  | 1/2-13X2.50    |
| W59-24-24                       | W60-24-24                       | 1.50         | 1.50        | 3.75 | 4.44 | 1.437 | 3.125 | 1.750 | .750  | 2.115 | 1.502 | 1.922 | .656  | 5/8-11  | 225                  | 5/8-11X3.00    |
| W59-32-32                       | W60-32-32                       | 2.00         | 2.00        | 4.50 | 5.25 | 1.750 | 3.812 | 1.750 | .875  | 2.490 | 2.002 | 2.406 | .781  | 3/4-10  | 228                  | 3/4-10X3.00    |
| W59-40-40                       | W60-40-40                       | 2.50         | 2.50        | 5.87 | 6.87 | 2.311 | 4.874 | 2.060 | 1.000 | 2.995 | 2.502 | 2.906 | .906  | 7/8-9   | 232                  | **7/8-9X3.50   |
| W59-48-48                       | W60-48-48                       | 3.00         | 3.00        | 7.00 | 8.50 | 2.811 | 6.000 | 2.620 | 1.250 | 3.615 | 3.002 | 3.547 | 1.190 | 1-1/8-7 | 237                  | **1 1/8-7X4.50 |

\*\*HHCS

| CODE 61 FLAT SOCKET WELD - PIPE - ALL SIZES 500 PSI |                                 |              |             |      |      |       |       |       |       |       |       |       |      |             |                      |             |
|-----------------------------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|-------|-------|-------|-------|-------|------|-------------|----------------------|-------------|
| PART NO.<br>O-RING<br>FIG. 1                        | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E     | F     | G     | H     | J     | K    | L<br>UNC-2B | MOUNTING<br>HARDWARE |             |
|                                                     |                                 |              |             |      |      |       |       |       |       |       |       |       |      |             | O-RING               | SHCS        |
| W72-48-48                                           | W91-48-48                       | 3.00         | 3.00        | 5.12 | 5.31 | 2.438 | 4.188 | 1.380 | 1.120 | 3.615 | 3.002 | 3.547 | .656 | 5/8-11      | 237                  | 5/8-11X2.50 |
| W72-56-56                                           | W91-56-56                       | 3.50         | 3.50        | 5.50 | 6.00 | 2.750 | 4.750 | 1.440 | 1.190 | 4.095 | 3.502 | 4.047 | .656 | 5/8-11      | 241                  | 5/8-11X2.75 |
| W72-64-64                                           | W91-64-64                       | 4.00         | 4.00        | 6.00 | 6.38 | 3.062 | 5.125 | 1.500 | 1.250 | 4.595 | 4.002 | 4.578 | .656 | 5/8-11      | 245                  | 5/8-11X2.75 |
| W72-80-80                                           | W91-80-80                       | 5.00         | 5.00        | 7.12 | 7.25 | 3.625 | 6.000 | 1.750 | 1.380 | 5.595 | 5.002 | 5.641 | .656 | 5/8-11      | 253                  | 5/8-11X3.00 |

# Flat Socket Weld Tube

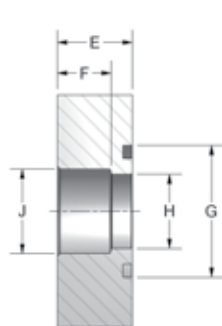


Figure 1

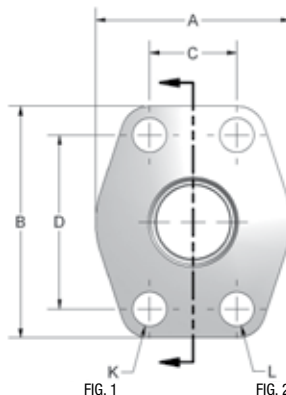


FIG. 1

FIG. 2

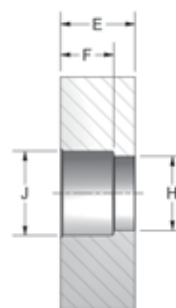


Figure 2

## CODE 61 FLAT SOCKET WELD - TUBE

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | TUBE<br>SIZE | PAD<br>SIZE | A     | B     | C     | D     | E     | F    | G     | H     | J     | K    | L       | MOUNTING<br>HARDWARE |              |
|------------------------------|---------------------------------|--------------|-------------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|---------|----------------------|--------------|
|                              |                                 |              |             |       |       |       |       |       |      |       |       |       |      |         | O-RING               | SHCS         |
| W6-12-12                     | W62-12-12                       | .75          | .75         | 2.060 | 2.560 | .875  | 1.875 | .750  | .560 | 1.250 | .625  | .752  | .406 | 3/8-16  | 214                  | 3/8-16X1.50  |
| W6-16-12                     | W62-16-12                       | 1.00         | .75         | 2.060 | 2.560 | .875  | 1.875 | .750  | .560 | 1.250 | .750  | 1.002 | .406 | 3/8-16  | 214                  | 3/8-16X1.50  |
| W6-16-16                     | W62-16-16                       | 1.00         | 1.00        | 2.310 | 2.750 | 1.031 | 2.062 | .880  | .630 | 1.560 | .875  | 1.002 | .406 | 3/8-16  | 219                  | 3/8-16X1.75  |
| W6-20-16                     | W62-20-16                       | 1.25         | 1.00        | 2.310 | 2.750 | 1.031 | 2.062 | .880  | .630 | 1.560 | 1.000 | 1.252 | .406 | 3/8-16  | 219                  | 3/8-16X1.75  |
| W6-20-20                     | W62-20-20                       | 1.25         | 1.25        | 2.880 | 3.120 | 1.188 | 2.312 | .940  | .690 | 1.750 | 1.125 | 1.252 | .469 | 7/16-14 | 222                  | 7/16-14X1.75 |
| W6-24-20                     | W62-24-20                       | 1.50         | 1.25        | 2.880 | 3.120 | 1.188 | 2.312 | .940  | .690 | 1.750 | 1.250 | 1.502 | .469 | 7/16-14 | 222                  | 7/16-14X1.75 |
| W6-24-24                     | W62-24-24                       | 1.50         | 1.50        | 3.250 | 3.690 | 1.406 | 2.750 | 1.190 | .750 | 2.115 | 1.375 | 1.502 | .531 | 1/2-13  | 225                  | 1/2-13X2.25  |
| W6-28-24                     | W62-28-24                       | 1.75         | 1.50        | 3.250 | 3.690 | 1.406 | 2.750 | 1.190 | .750 | 2.115 | 1.500 | 1.752 | .531 | 1/2-13  | 225                  | 1/2-13X2.25  |
| W6-32-32                     | W62-32-32                       | 2.00         | 2.00        | 3.810 | 4.000 | 1.688 | 3.062 | 1.380 | .875 | 2.490 | 1.875 | 2.002 | .531 | 1/2-13  | 228                  | 1/2-13X2.50  |
| W6-36-32                     | W62-36-32                       | 2.25         | 2.00        | 3.810 | 4.000 | 1.688 | 3.062 | 1.380 | .875 | 2.490 | 2.000 | 2.252 | .531 | 1/2-13  | 228                  | 1/2-13X2.50  |

## CODE 62 FLAT SOCKET WELD - TUBE

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | TUBE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E     | F    | G     | H     | J     | K    | L       | MOUNTING<br>HARDWARE |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|-------|------|-------|-------|-------|------|---------|----------------------|--------------|
|                              |                                 |              |             |      |      |       |       |       |      |       |       |       |      |         | O-RING               | SHCS         |
| W58-12-12                    | W63-12-12                       | .75          | .75         | 2.50 | 2.95 | .937  | 2.000 | 1.250 | .560 | 1.250 | .625  | .752  | .406 | 3/8-16  | 214                  | 3/8-16X2.00  |
| W58-16-12                    | W63-16-12                       | 1.00         | .75         | 2.50 | 2.95 | .937  | 2.000 | 1.250 | .560 | 1.250 | .750  | 1.002 | .406 | 3/8-16  | 214                  | 3/8-16X2.00  |
| W58-16-16                    | W63-16-16                       | 1.00         | 1.00        | 2.75 | 3.19 | 1.093 | 2.250 | 1.500 | .630 | 1.560 | .875  | 1.002 | .492 | 7/16-14 | 219                  | 7/16-14X2.50 |
| W58-20-16                    | W63-20-16                       | 1.25         | 1.00        | 2.75 | 3.19 | 1.093 | 2.250 | 1.500 | .630 | 1.560 | 1.000 | 1.252 | .492 | 7/16-14 | 219                  | 7/16-14X2.50 |
| W58-20-20                    | W63-20-20                       | 1.25         | 1.25        | 3.06 | 3.75 | 1.250 | 2.625 | 1.500 | .690 | 1.750 | 1.125 | 1.252 | .531 | 1/2-13  | 222                  | 1/2-13X2.50  |
| W58-24-20                    | W63-24-20                       | 1.50         | 1.25        | 3.06 | 3.75 | 1.250 | 2.625 | 1.500 | .690 | 1.750 | 1.250 | 1.502 | .531 | 1/2-13  | 222                  | 1/2-13X2.50  |
| W58-24-24                    | W63-24-24                       | 1.50         | 1.50        | 3.75 | 4.44 | 1.437 | 3.125 | 1.750 | .750 | 2.115 | 1.375 | 1.502 | .656 | 5/8-11  | 225                  | 5/8-11X3.00  |
| W58-28-24                    | W63-28-24                       | 1.75         | 1.50        | 3.75 | 4.44 | 1.437 | 3.125 | 1.750 | .750 | 2.115 | 1.500 | 1.752 | .656 | 5/8-11  | 225                  | 5/8-11X3.00  |
| W58-32-32                    | W63-32-32                       | 2.00         | 2.00        | 4.50 | 5.25 | 1.750 | 3.812 | 1.750 | .875 | 2.490 | 1.875 | 2.002 | .781 | 3/4-10  | 228                  | 3/4-10X3.00  |
| W58-36-32                    | W63-36-32                       | 2.25         | 2.00        | 4.50 | 5.25 | 1.750 | 3.812 | 1.750 | .875 | 2.490 | 2.000 | 2.252 | .781 | 3/4-10  | 228                  | 3/4-10X3.00  |

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

# Deep Socket Weld Pipe

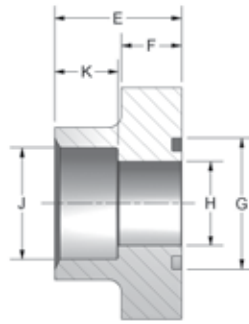


Figure 1

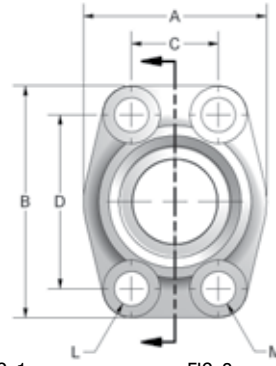


FIG. 1

FIG. 2

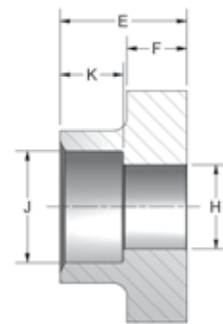


Figure 2

\*No Spotface

CODE 61 DEEP SOCKET WELD - PIPE

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J     | K    | L    | M<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|------|-------|-------|-------|------|------|-------------|----------------------|--------------|
|                              |                                 |              |             |      |      |       |       |      |      |       |       |       |      |      |             | O-RING               | SHCS         |
| W31-8-8                      | W3-8-8                          | .50          | .50         | 1.81 | 2.13 | .688  | 1.500 | 1.42 | .63  | 1.000 | .502  | .855  | .75  | .344 | 5/16-18     | 210                  | 5/16-18X1.25 |
| W31-12-12                    | W3-12-12                        | .75          | .75         | 1.97 | 2.56 | .875  | 1.875 | 1.42 | .71  | 1.250 | .752  | 1.062 | .75  | .406 | 3/8-16      | 214                  | 3/8-16X1.50  |
| W31-16-16                    | W3-16-16                        | 1.00         | 1.00        | 2.17 | 2.75 | 1.031 | 2.062 | 1.50 | .71  | 1.560 | 1.002 | 1.328 | .75  | .406 | 3/8-16      | 219                  | 3/8-16X1.50  |
| W31-20-20                    | W3-20-20                        | 1.25         | 1.25        | 2.68 | 3.12 | 1.188 | 2.312 | 1.61 | .83  | 1.750 | 1.252 | 1.672 | .87  | .469 | 7/16-14     | 222                  | 7/16-14X1.75 |
| W31-24-24                    | W3-24-24                        | 1.50         | 1.50        | 3.07 | 3.66 | 1.406 | 2.750 | 1.77 | .98  | 2.115 | 1.502 | 1.922 | .94  | .531 | 1/2-13      | 225                  | 1/2-13X1.75  |
| W31-32-32                    | W3-32-32                        | 2.00         | 2.00        | 3.54 | 4.00 | 1.688 | 3.062 | 1.77 | .98  | 2.490 | 2.002 | 2.406 | 1.02 | .531 | 1/2-13      | 228                  | 1/2-13X1.75  |
| W31-40-40                    | W3-40-40                        | 2.50         | 2.50        | 4.09 | 4.49 | 2.000 | 3.500 | 1.97 | .98  | 2.995 | 2.502 | 2.908 | 1.18 | .531 | 1/2-13      | 232                  | 1/2-13X1.75  |
| W31-48-48                    | W3-48-48                        | 3.00         | 3.00        | 4.88 | 5.28 | 2.438 | 4.188 | 1.97 | 1.06 | 3.615 | 3.002 | 3.547 | 1.34 | .656 | 5/8-11      | 237                  | 5/8-11X2.00  |

CODE 62 DEEP SOCKET WELD - PIPE

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J     | K    | L    | M<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|------|-------|-------|-------|------|------|-------------|----------------------|--------------|
|                              |                                 |              |             |      |      |       |       |      |      |       |       |       |      |      |             | O-RING               | SHCS         |
| W81-8-8                      | W80-8-8                         | .50          | .50         | 1.81 | 2.21 | .718  | 1.594 | 1.42 | .63  | 1.000 | .502  | .855  | .75  | .344 | 5/16-18     | 210                  | 5/16-18X1.25 |
| W81-12-12                    | W80-12-12                       | .75          | .75         | 2.17 | 2.80 | .937  | 2.000 | 1.38 | .83  | 1.250 | .752  | 1.062 | .87  | .406 | 3/8-16      | 214                  | 3/8-16X1.50  |
| W81-16-16                    | W80-16-16                       | 1.00         | 1.00        | 2.56 | 3.19 | 1.093 | 2.250 | 1.65 | .98  | 1.560 | 1.002 | 1.328 | .87  | .492 | 7/16-14     | 219                  | 7/16-14X1.75 |
| W81-20-20                    | W80-20-20                       | 1.25         | 1.25        | 3.07 | 3.75 | 1.250 | 2.625 | 1.77 | 1.06 | 1.750 | 1.252 | 1.672 | .98  | .531 | 1/2-13      | 222                  | 1/2-13X1.75  |
| W81-24-24                    | W80-24-24                       | 1.50         | 1.50        | 3.70 | 4.41 | 1.437 | 3.125 | 1.97 | 1.18 | 2.115 | 1.502 | 1.922 | 1.10 | .656 | 5/8-11      | 225                  | 5/8-11X2.25  |
| W81-32-32                    | W80-32-32                       | 2.00         | 2.00        | 4.50 | 5.28 | 1.750 | 3.812 | 2.56 | 1.46 | 2.490 | 2.002 | 2.406 | .94  | .781 | 3/4-10      | 228                  | 3/4-10X2.75  |

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.



# Deep Socket Weld Tube

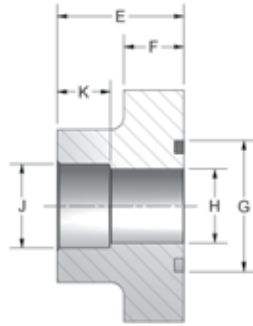


Figure 1

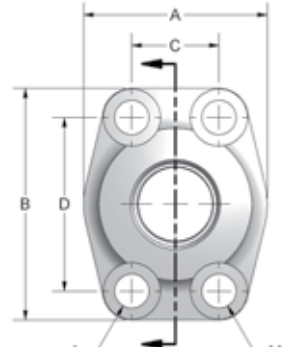


FIG. 1

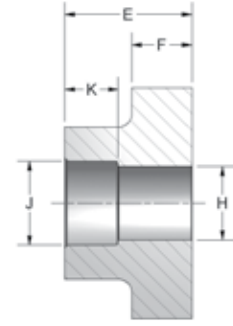


Figure 2

\*No Spotface

| CODE 61 DEEP SOCKET WELD - TUBE |                                 |              |             |      |      |       |       |      |     |       |       |       |       |      |             |                      |              |
|---------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|-----|-------|-------|-------|-------|------|-------------|----------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1    | PART NO.<br>FLAT FACE<br>FIG. 2 | TUBE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F   | G     | H     | J     | K     | L    | M<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|                                 |                                 |              |             |      |      |       |       |      |     |       |       |       |       |      |             | O-RING               | SHCS         |
| W51-12-12                       | W5-12-12                        | .75          | .75         | 1.97 | 2.56 | .875  | 1.875 | 1.42 | .71 | 1.250 | .625  | .752  | .560  | .406 | 3/8-16      | 214                  | 3/8-16X1.50  |
| W51-16-12                       | W5-16-12                        | 1.00         | .75         | 1.97 | 2.56 | .875  | 1.875 | 1.42 | .71 | 1.250 | .750  | 1.002 | .560  | .406 | 3/8-16      | 214                  | 3/8-16X1.50  |
| W51-16-16                       | W5-16-16                        | 1.00         | 1.00        | 2.17 | 2.75 | 1.031 | 2.062 | 1.50 | .71 | 1.560 | .875  | 1.002 | .630  | .406 | 3/8-16      | 219                  | 3/8-16X1.50  |
| W51-20-16                       | W5-20-16                        | 1.25         | 1.00        | 2.17 | 2.75 | 1.031 | 2.062 | 1.50 | .71 | 1.560 | 1.000 | 1.252 | .630  | .406 | 3/8-16      | 219                  | 3/8-16X1.50  |
| W51-20-20                       | W5-20-20                        | 1.25         | 1.25        | 2.68 | 3.12 | 1.188 | 2.312 | 1.61 | .83 | 1.750 | 1.125 | 1.252 | .690  | .469 | 7/16-14     | 222                  | 7/16-14X1.75 |
| W51-24-20                       | W5-24-20                        | 1.50         | 1.25        | 2.68 | 3.12 | 1.188 | 2.312 | 1.61 | .83 | 1.750 | 1.250 | 1.502 | .690  | .469 | 7/16-14     | 222                  | 7/16-14X1.75 |
| W51-24-24                       | W5-24-24                        | 1.50         | 1.50        | 3.07 | 3.66 | 1.406 | 2.750 | 1.77 | .98 | 2.115 | 1.375 | 1.502 | .750  | .531 | 1/2-13      | 225                  | 1/2-13X1.75  |
| W51-28-24                       | W5-28-24                        | 1.75         | 1.50        | 3.07 | 3.66 | 1.406 | 2.750 | 1.77 | .98 | 2.115 | 1.500 | 1.752 | .750  | .531 | 1/2-13      | 225                  | 1/2-13X1.75  |
| W51-32-32                       | W5-32-32                        | 2.00         | 2.00        | 3.54 | 4.00 | 1.688 | 3.062 | 1.77 | .98 | 2.490 | 1.875 | 2.002 | .870  | .531 | 1/2-13      | 228                  | 1/2-13X1.75  |
| W51-36-32                       | W5-36-32                        | 2.25         | 2.00        | 3.54 | 4.00 | 1.688 | 3.062 | 1.77 | .98 | 2.490 | 2.000 | 2.252 | .870  | .531 | 1/2-13      | 228                  | 1/2-13X1.75  |
| W51-40-40                       | W5-40-40                        | 2.50         | 2.50        | 4.09 | 4.49 | 2.000 | 3.500 | 1.97 | .98 | 2.995 | 2.375 | 2.502 | 1.000 | .531 | 1/2-13      | 232                  | 1/2-13X1.75  |
| W51-44-40                       | W5-44-40                        | 2.75         | 2.50        | 4.09 | 4.49 | 2.000 | 3.500 | 1.97 | .98 | 2.995 | 2.500 | 2.752 | 1.000 | .531 | 1/2-13      | 232                  | 1/2-13X1.75  |

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.





# Butt Weld Pipe

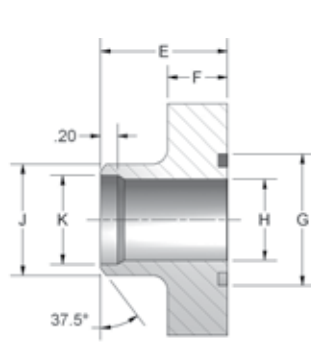


Figure 1

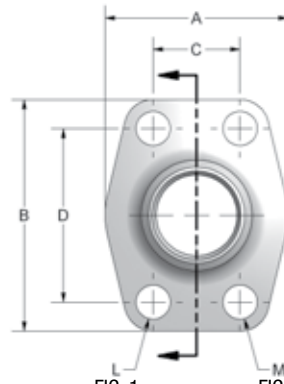


FIG. 1

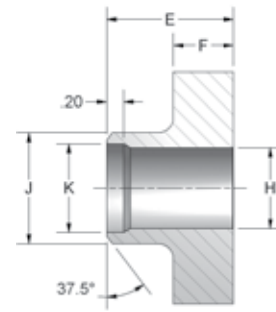


Figure 2

| CODE 61 BUTT WELD - SCHEDULE 40 PIPE |                                 |              |             |      |      |       |       |      |      |       |       |       |       |      |             |                      |              |
|--------------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|------|-------|-------|-------|-------|------|-------------|----------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1         | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J     | K     | L    | M<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|                                      |                                 |              |             |      |      |       |       |      |      |       |       |       |       |      |             | O-RING               | SHCS         |
| W35-8                                | W34-8                           | .50          | .50         | 1.81 | 2.13 | .688  | 1.500 | 1.42 | .63  | 1.000 | .548  | .840  | .624  | .344 | 5/16-18     | 210                  | 5/16-18X1.25 |
| W35-12                               | W34-12                          | .75          | .75         | 1.97 | 2.56 | .875  | 1.875 | 1.42 | .71  | 1.250 | .744  | 1.050 | .846  | .406 | 3/8-16      | 214                  | 3/8-16X1.50  |
| W35-16                               | W34-16                          | 1.00         | 1.00        | 2.17 | 2.75 | 1.031 | 2.062 | 1.50 | .71  | 1.560 | .959  | 1.315 | 1.051 | .406 | 3/8-16      | 219                  | 3/8-16X1.50  |
| W35-20                               | W34-20                          | 1.25         | 1.25        | 2.68 | 3.12 | 1.188 | 2.312 | 1.61 | .83  | 1.750 | 1.280 | 1.660 | 1.382 | .469 | 7/16-14     | 222                  | 7/16-14X1.75 |
| W35-24                               | W34-24                          | 1.50         | 1.50        | 3.07 | 3.66 | 1.406 | 2.750 | 1.73 | .98  | 2.115 | 1.502 | 1.900 | 1.612 | .531 | 1/2-13      | 225                  | 1/2-13X1.75  |
| W35-32                               | W34-32                          | 2.00         | 2.00        | 3.54 | 4.00 | 1.688 | 3.062 | 1.77 | .98  | 2.490 | 1.941 | 2.375 | 2.069 | .531 | 1/2-13      | 228                  | 1/2-13X1.75  |
| W35-40                               | W34-40                          | 2.50         | 2.50        | 4.09 | 4.49 | 2.000 | 3.500 | 1.97 | .98  | 2.995 | 2.325 | 2.875 | 2.471 | .531 | 1/2-13      | 232                  | 1/2-13X1.75  |
| W35-48                               | W34-48                          | 3.00         | 3.00        | 4.88 | 5.28 | 2.438 | 4.188 | 1.97 | 1.06 | 3.615 | 2.902 | 3.500 | 3.070 | .656 | 5/8-11      | 237                  | 5/8-11X2.00  |
| W35-56                               | W34-56                          | 3.50         | 3.50        | 5.35 | 5.98 | 2.750 | 4.750 | 2.19 | 1.06 | 4.095 | 3.366 | 4.000 | 3.550 | .656 | 5/8-11      | 241                  | 5/8-11X2.00  |
| W35-64                               | W34-64                          | 4.00         | 4.00        | 5.75 | 6.38 | 3.062 | 5.125 | 2.19 | 1.06 | 4.595 | 3.828 | 4.500 | 4.028 | .656 | 5/8-11      | 245                  | 5/8-11X2.75  |
| W35-80*                              | W34-80*                         | 5.00         | 5.00        | 7.00 | 7.25 | 3.625 | 6.000 | 2.00 | 1.50 | 5.595 | 4.81  | 5.62  | 5.078 | .660 | 5/8-11      | 253                  | 5/8-11X2.50  |

\*MADE FROM BAR STOCK

| CODE 61 BUTT WELD - SCHEDULE 80 PIPE |                                 |              |             |      |      |       |       |      |      |       |       |       |      |             |                      |              |
|--------------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|------|-------|-------|-------|------|-------------|----------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1         | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J     | L    | M<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|                                      |                                 |              |             |      |      |       |       |      |      |       |       |       |      |             | O-RING               | SHCS         |
| W24-8                                | W23-8                           | .50          | .50         | 1.81 | 2.13 | .688  | 1.500 | 1.42 | .63  | 1.000 | .548  | .840  | .344 | 5/16-18     | 210                  | 5/16-18X1.25 |
| W24-12                               | W23-12                          | .75          | .75         | 1.97 | 2.56 | .875  | 1.875 | 1.42 | .71  | 1.250 | .744  | 1.050 | .406 | 3/8-16      | 214                  | 3/8-16X1.50  |
| W24-16                               | W23-16                          | 1.00         | 1.00        | 2.17 | 2.75 | 1.031 | 2.062 | 1.50 | .71  | 1.560 | .959  | 1.315 | .406 | 3/8-16      | 219                  | 3/8-16X1.50  |
| W24-20                               | W23-20                          | 1.25         | 1.25        | 2.68 | 3.12 | 1.188 | 2.312 | 1.61 | .83  | 1.750 | 1.280 | 1.660 | .469 | 7/16-14     | 222                  | 7/16-14X1.75 |
| W24-24                               | W23-24                          | 1.50         | 1.50        | 3.07 | 3.66 | 1.406 | 2.750 | 1.73 | .98  | 2.115 | 1.502 | 1.900 | .531 | 1/2-13      | 225                  | 1/2-13X1.75  |
| W24-32                               | W23-32                          | 2.00         | 2.00        | 3.54 | 4.00 | 1.688 | 3.062 | 1.77 | .98  | 2.490 | 1.941 | 2.375 | .531 | 1/2-13      | 228                  | 1/2-13X1.75  |
| W24-40                               | W23-40                          | 2.50         | 2.50        | 4.09 | 4.49 | 2.000 | 3.500 | 1.97 | .98  | 2.995 | 2.325 | 2.875 | .531 | 1/2-13      | 232                  | 1/2-13X1.75  |
| W24-48                               | W23-48                          | 3.00         | 3.00        | 4.88 | 5.28 | 2.438 | 4.188 | 1.97 | 1.06 | 3.615 | 2.902 | 3.500 | .656 | 5/8-11      | 237                  | 5/8-11X2.00  |

| CODE 61 BUTT WELD - SCHEDULE 160 PIPE |                                 |              |             |      |      |       |       |      |      |       |       |       |      |             |                      |              |
|---------------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|------|-------|-------|-------|------|-------------|----------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1          | PART NO. FLAT<br>FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J     | L    | M<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|                                       |                                 |              |             |      |      |       |       |      |      |       |       |       |      |             | O-RING               | SHCS         |
| W27-8                                 | W25-8                           | .50          | .50         | 1.81 | 2.13 | .688  | 1.500 | 1.42 | .63  | 1.000 | .466  | .840  | .344 | 5/16-18     | 210                  | 5/16-18X1.25 |
| W27-12                                | W25-12                          | .75          | .75         | 1.97 | 2.56 | .875  | 1.875 | 1.42 | .71  | 1.250 | .614  | 1.050 | .406 | 3/8-16      | 214                  | 3/8-16X1.50  |
| W27-16                                | W25-16                          | 1.00         | 1.00        | 2.17 | 2.75 | 1.031 | 2.062 | 1.50 | .71  | 1.560 | .817  | 1.315 | .406 | 3/8-16      | 219                  | 3/8-16X1.50  |
| W27-20                                | W25-20                          | 1.25         | 1.25        | 2.68 | 3.12 | 1.188 | 2.132 | 1.61 | .83  | 1.750 | 1.162 | 1.660 | .469 | 7/16-14     | 222                  | 7/16-14X1.75 |
| W27-24                                | W25-24                          | 1.50         | 1.50        | 3.07 | 3.66 | 1.406 | 2.750 | 1.73 | .98  | 2.115 | 1.340 | 1.900 | .531 | 1/2-13      | 225                  | 1/2-13X1.75  |
| W27-32                                | W25-32                          | 2.00         | 2.00        | 3.54 | 4.00 | 1.688 | 3.062 | 1.77 | .98  | 2.490 | 1.689 | 2.375 | .531 | 1/2-13      | 228                  | 1/2-13X1.75  |
| W27-40                                | W25-40                          | 2.50         | 2.50        | 4.09 | 4.49 | 2.000 | 3.500 | 1.97 | .98  | 2.995 | 2.127 | 2.875 | .531 | 1/2-13      | 232                  | 1/2-13X1.75  |
| W27-48                                | W25-48                          | 3.00         | 3.00        | 4.88 | 5.28 | 2.438 | 4.188 | 1.97 | 1.06 | 3.615 | 2.626 | 3.500 | .656 | 5/8-11      | 237                  | 5/8-11X2.00  |

\*NOTE: Also available in sizes 3 1/2", 4", and 5". Consult factory for specifications.  
Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

# Butt Weld Pipe

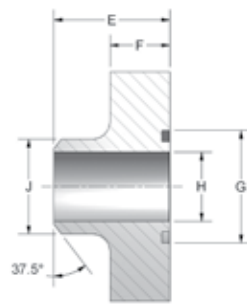


Figure 1

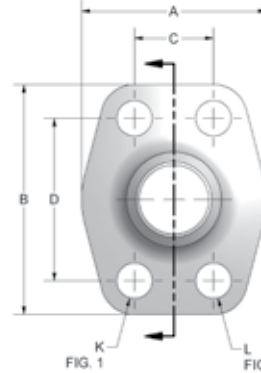


Figure 2

| CODE 62 BUTT WELD - SCHEDULE 80 PIPE |                                 |              |             |      |      |       |       |      |      |       |       |       |       |             |                      |              |
|--------------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|------|-------|-------|-------|-------|-------------|----------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1         | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J     | K     | L<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|                                      |                                 |              |             |      |      |       |       |      |      |       |       |       |       |             | O-RING               | SHCS         |
| W28-8                                | W26-8                           | .50          | .50         | 1.81 | 2.21 | .718  | 1.594 | 1.42 | .63  | 1.000 | .548  | .840  | .344  | 5/16-18     | 210                  | 5/16-18X1.25 |
| W28-12                               | W26-12                          | .75          | .75         | 2.17 | 2.80 | .937  | 2.000 | 1.38 | .83  | 1.250 | .744  | 1.050 | .406  | 3/8-16      | 214                  | 3/8-16X1.50  |
| W28-16                               | W26-16                          | 1.00         | 1.00        | 2.56 | 3.19 | 1.093 | 2.250 | 1.61 | .83  | 1.560 | .959  | 1.315 | .492  | 7/16-14     | 219                  | 7/16-14X1.75 |
| W28-20                               | W26-20                          | 1.25         | 1.25        | 3.07 | 3.75 | 1.250 | 2.625 | 1.73 | .98  | 1.750 | 1.280 | 1.660 | .531  | 1/2-13      | 222                  | 1/2-13X1.75  |
| W28-24                               | W26-24                          | 1.50         | 1.50        | 3.70 | 4.41 | 1.437 | 3.125 | 2.17 | 1.18 | 2.115 | 1.502 | 1.900 | .656  | 5/8-11      | 225                  | 5/8-11X2.25  |
| W28-32                               | W26-32                          | 2.00         | 2.00        | 4.50 | 5.28 | 1.750 | 3.812 | 2.56 | 1.46 | 2.490 | 1.941 | 2.375 | .781  | 3/4-10      | 228                  | 3/4-10X3.00  |
| W28-40                               | W26-40                          | 2.50         | 2.50        | 5.00 | 6.88 | 2.311 | 4.874 | 2.37 | 1.50 | 2.995 | 2.325 | 2.875 | .906  | 7/8-9       | 232                  | 7/8-9X3.00   |
| W28-48                               | W26-48                          | 3.00         | 3.00        | 6.00 | 8.50 | 2.811 | 6.000 | 2.96 | 2.00 | 3.615 | 2.902 | 3.500 | 1.190 | 1 1/8-7     | 237                  | 1 1/8-7X4.00 |

| CODE 62 BUTT WELD - SCHEDULE 160 PIPE |                                 |              |             |      |      |       |       |      |      |       |       |       |       |             |                      |              |
|---------------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|------|-------|-------|-------|-------|-------------|----------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1          | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J     | K     | L<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|                                       |                                 |              |             |      |      |       |       |      |      |       |       |       |       |             | O-RING               | SHCS         |
| W30-8                                 | W29-8                           | .50          | .50         | 1.81 | 2.21 | .718  | 1.594 | 1.42 | .63  | 1.000 | .466  | .840  | .344  | 5/16-18     | 210                  | 5/16-18X1.25 |
| W30-12                                | W29-12                          | .75          | .75         | 2.17 | 2.80 | .937  | 2.000 | 1.38 | .83  | 1.250 | .614  | 1.050 | .406  | 3/8-16      | 214                  | 3/8-16X1.50  |
| W30-16                                | W29-16                          | 1.00         | 1.00        | 2.56 | 3.19 | 1.093 | 2.250 | 1.61 | .83  | 1.560 | .817  | 1.315 | .492  | 7/16-14     | 219                  | 7/16-14X1.75 |
| W30-20                                | W29-20                          | 1.25         | 1.25        | 3.07 | 3.75 | 1.250 | 2.625 | 1.73 | .98  | 1.750 | 1.162 | 1.660 | .531  | 1/2-13      | 222                  | 1/2-13X1.75  |
| W30-24                                | W29-24                          | 1.50         | 1.50        | 3.70 | 4.41 | 1.437 | 3.125 | 2.17 | 1.18 | 2.115 | 1.340 | 1.900 | .656  | 5/8-11      | 225                  | 5/8-11X2.25  |
| W30-32                                | W29-32                          | 2.00         | 2.00        | 4.50 | 5.28 | 1.750 | 3.812 | 2.56 | 1.46 | 2.490 | 1.689 | 2.375 | .781  | 3/4-10      | 228                  | 3/4-10X3.00  |
| W30-40                                | W29-40                          | 2.50         | 2.50        | 5.00 | 6.88 | 2.311 | 4.874 | 2.37 | 1.50 | 2.995 | 2.127 | 2.875 | .906  | 7/8-9       | 232                  | 7/8-9X3.00   |
| W30-48                                | W29-48                          | 3.00         | 3.00        | 6.00 | 8.50 | 2.811 | 6.000 | 2.96 | 2.00 | 3.615 | 2.626 | 3.500 | 1.190 | 1 1/8-7     | 237                  | 1 1/8-7X4.00 |

| CODE 62 BUTT WELD - SCHEDULE XXS PIPE |                                 |              |             |      |      |       |       |      |      |       |       |       |       |             |                      |              |
|---------------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|------|-------|-------|-------|-------|-------------|----------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1          | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J     | K     | L<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|                                       |                                 |              |             |      |      |       |       |      |      |       |       |       |       |             | O-RING               | SHCS         |
| W33-8                                 | W32-8                           | .50          | .50         | 1.81 | 2.21 | .718  | 1.594 | 1.42 | .63  | 1.000 | .254  | .840  | .344  | 5/16-18     | 210                  | 5/16-18X1.25 |
| W33-12                                | W32-12                          | .75          | .75         | 2.17 | 2.80 | .937  | 2.000 | 1.38 | .83  | 1.250 | .436  | 1.050 | .406  | 3/8-16      | 214                  | 3/8-16X1.50  |
| W33-16                                | W32-16                          | 1.00         | 1.00        | 2.56 | 3.19 | 1.093 | 2.250 | 1.61 | .83  | 1.560 | .601  | 1.315 | .492  | 7/16-14     | 219                  | 7/16-14X1.75 |
| W33-20                                | W32-20                          | 1.25         | 1.25        | 3.07 | 3.75 | 1.250 | 2.625 | 1.73 | .98  | 1.750 | .898  | 1.660 | .531  | 1/2-13      | 222                  | 1/2-13X1.75  |
| W33-24                                | W32-24                          | 1.50         | 1.50        | 3.70 | 4.41 | 1.437 | 3.125 | 2.17 | 1.18 | 2.115 | 1.102 | 1.900 | .656  | 5/8-11      | 225                  | 5/8-11X2.25  |
| W33-32                                | W32-32                          | 2.00         | 2.00        | 4.50 | 5.28 | 1.750 | 3.812 | 2.56 | 1.46 | 2.490 | 1.505 | 2.375 | .781  | 3/4-10      | 228                  | 3/4-10X3.00  |
| W33-40                                | W32-40                          | 2.50         | 2.50        | 5.00 | 6.88 | 2.311 | 4.874 | 2.37 | 1.50 | 2.995 | 1.773 | 2.875 | .906  | 7/8-9       | 232                  | 7/8-9X3.00   |
| W33-48                                | W32-48                          | 3.00         | 3.00        | 6.00 | 8.50 | 2.811 | 6.000 | 2.96 | 2.00 | 3.615 | 2.302 | 3.500 | 1.190 | 1 1/8-7     | 237                  | 1 1/8-7X4.00 |



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# Saddle Weld

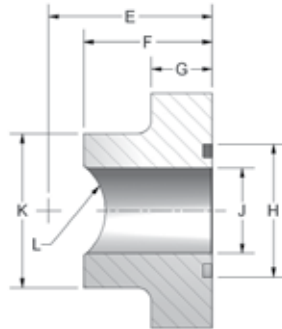
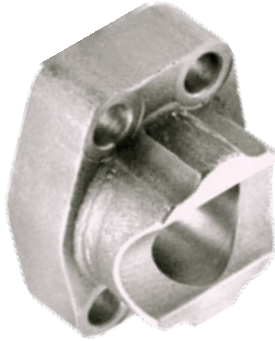


Figure 1

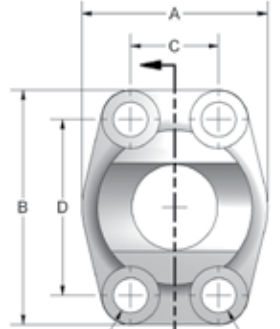


FIG. 1

FIG. 2

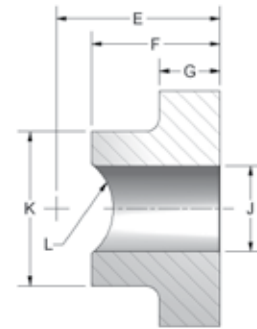


Figure 2

\*No Spotface

## CODE 61 SADDLE WELD - PIPE

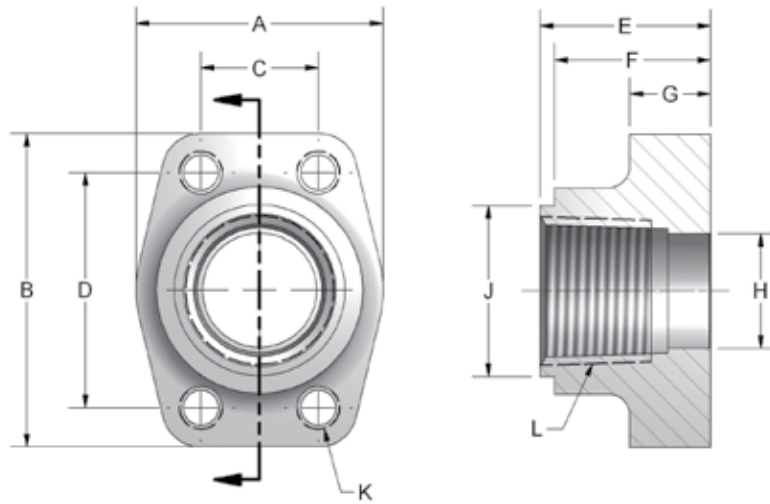
| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E     | F    | G   | H     | J     | K    | L     | M    | N<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|-------|------|-----|-------|-------|------|-------|------|-------------|----------------------|--------------|
|                              |                                 |              |             |      |      |       |       |       |      |     |       |       |      |       |      |             | O-RING               | SHCS         |
| W8-12-12                     | W7-12-12                        | .75          | .75         | 1.97 | 2.56 | .875  | 1.875 | 1.775 | 1.42 | .71 | 1.250 | .752  | 1.54 | .532  | .406 | 3/8-16      | 214                  | 3/8-16X1.50  |
| W8-16-16                     | W7-16-16                        | 1.00         | 1.00        | 2.17 | 2.75 | 1.031 | 2.062 | 1.912 | 1.50 | .71 | 1.560 | 1.002 | 1.81 | .665  | .406 | 3/8-16      | 219                  | 3/8-16X1.50  |
| W8-20-20                     | W7-20-20                        | 1.25         | 1.25        | 2.68 | 3.12 | 1.188 | 2.312 | 2.146 | 1.61 | .83 | 1.750 | 1.252 | 2.22 | .837  | .469 | 7/16-14     | 222                  | 7/16-14X1.75 |
| W8-24-24                     | W7-24-24                        | 1.50         | 1.50        | 3.07 | 3.66 | 1.406 | 2.750 | 2.290 | 1.77 | .98 | 2.115 | 1.502 | 2.50 | .957  | .531 | 1/2-13      | 225                  | 1/2-13X1.75  |
| W8-32-32                     | W7-32-32                        | 2.00         | 2.00        | 3.54 | 4.00 | 1.688 | 3.062 | 2.340 | 1.77 | .98 | 2.490 | 2.002 | 3.12 | 1.200 | .531 | 1/2-13      | 228                  | 1/2-13X1.75  |
| W8-40-40                     | W7-40-40                        | 2.50         | 2.50        | 4.09 | 4.49 | 2.000 | 3.500 | 2.660 | 1.97 | .98 | 2.995 | 2.502 | 3.62 | 1.451 | .531 | 1/2-13      | 232                  | 1/2-13X1.75  |

## CODE 61 SADDLE WELD - TUBE

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | TUBE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E     | F    | G   | H     | J     | K    | L     | M    | N<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|-------|------|-----|-------|-------|------|-------|------|-------------|----------------------|--------------|
|                              |                                 |              |             |      |      |       |       |       |      |     |       |       |      |       |      |             | O-RING               | SHCS         |
| W87-12-12                    | W69-12-12                       | .75          | .75         | 1.97 | 2.56 | .875  | 1.875 | 1.420 | 1.41 | .71 | 1.250 | .614  | 1.05 | .382  | .406 | 3/8-16      | 214                  | 3/8-16X1.50  |
| W87-16-12                    | W69-16-12                       | 1.00         | .75         | 1.97 | 2.56 | .875  | 1.875 | 1.737 | 1.42 | .71 | 1.250 | .752  | 1.54 | .507  | .406 | 3/8-16      | 214                  | 3/8-16X1.50  |
| W87-16-16                    | W69-16-16                       | 1.00         | 1.00        | 2.17 | 2.75 | 1.031 | 2.062 | 1.500 | 1.47 | .71 | 1.560 | .817  | 1.32 | .507  | .406 | 3/8-16      | 219                  | 3/8-16X1.50  |
| W87-20-16                    | W69-20-16                       | 1.25         | 1.00        | 2.17 | 2.75 | 1.031 | 2.062 | 1.858 | 1.50 | .71 | 1.560 | 1.002 | 1.81 | .632  | .406 | 3/8-16      | 219                  | 3/8-16X1.50  |
| W87-20-20                    | W69-20-20                       | 1.25         | 1.25        | 2.68 | 3.12 | 1.188 | 2.312 | 1.665 | 1.61 | .83 | 1.750 | 1.162 | 1.66 | .632  | .469 | 7/16-14     | 222                  | 7/16-14X1.75 |
| W87-24-20                    | W69-24-20                       | 1.50         | 1.25        | 2.68 | 3.12 | 1.188 | 2.312 | 2.022 | 1.61 | .83 | 1.750 | 1.252 | 2.22 | .757  | .469 | 7/16-14     | 222                  | 7/16-14X1.75 |
| W87-28-24                    | W69-28-24                       | 1.75         | 1.50        | 3.07 | 3.66 | 1.406 | 2.750 | 2.198 | 1.77 | .98 | 2.115 | 1.502 | 2.50 | .882  | .531 | 1/2-13      | 225                  | 1/2-13X1.75  |
| W87-32-32                    | W69-32-32                       | 2.00         | 2.00        | 3.54 | 4.00 | 1.688 | 3.062 | 2.262 | 1.77 | .98 | 2.490 | 1.689 | 2.38 | 1.007 | .531 | 1/2-13      | 228                  | 1/2-13X1.75  |
| W87-36-32                    | W69-36-32                       | 2.25         | 2.00        | 3.54 | 4.00 | 1.688 | 3.062 | 2.247 | 1.77 | .98 | 2.490 | 2.002 | 3.12 | 1.132 | .531 | 1/2-13      | 228                  | 1/2-13X1.75  |

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

# NPTF Tank Pilot



| CODE 61 NPTF TANK PILOT |           |          |      |      |       |       |      |      |      |       |       |             |            |
|-------------------------|-----------|----------|------|------|-------|-------|------|------|------|-------|-------|-------------|------------|
| PART NO.                | PIPE SIZE | PAD SIZE | A    | B    | C     | D     | E    | F    | G    | H     | J     | K<br>UNC-2B | L<br>NPTF  |
| W22-12                  | .750      | .750     | 1.97 | 2.56 | .875  | 1.875 | 1.42 | 1.30 | .71  | .752  | 1.375 | 3/8-16      | 3/4-14     |
| W22-16                  | 1.00      | 1.00     | 2.17 | 2.75 | 1.031 | 2.062 | 1.50 | 1.37 | .71  | 1.002 | 1.500 | 3/8-16      | 1-11.5     |
| W22-20                  | 1.25      | 1.25     | 2.68 | 3.12 | 1.188 | 2.312 | 1.61 | 1.49 | .83  | 1.252 | 1.750 | 7/16-14     | 1 1/4-11.5 |
| W22-24                  | 1.50      | 1.50     | 3.07 | 3.66 | 1.406 | 2.750 | 1.77 | 1.64 | .98  | 1.502 | 2.125 | 1/2-13      | 1 1/2-11.5 |
| W22-32                  | 2.00      | 2.00     | 3.54 | 4.00 | 1.688 | 3.062 | 1.77 | 1.65 | .98  | 2.002 | 2.500 | 1/2-13      | 2-11.5     |
| W22-40                  | 2.50      | 2.50     | 4.09 | 4.49 | 2.000 | 3.500 | 1.97 | 1.85 | .98  | 2.502 | 3.250 | 1/2-13      | 2 1/2-8    |
| W22-48                  | 3.00      | 3.00     | 4.88 | 5.28 | 2.438 | 4.188 | 1.97 | 1.85 | 1.06 | 3.002 | 3.625 | 5/8-11      | 3-8        |
| W22-56                  | 3.50      | 3.50     | 5.35 | 5.98 | 2.750 | 4.750 | 1.89 | 1.77 | 1.06 | 3.504 | 4.125 | 5/8-11      | 3 1/2-8    |
| W22-64                  | 4.00      | 4.00     | 5.75 | 6.38 | 3.062 | 5.125 | 1.89 | 1.77 | 1.06 | 3.898 | 4.625 | 5/8-11      | 4-8        |

Female NPTF thread added to facilitate pump suction line and return line applications.



# Elbow Block

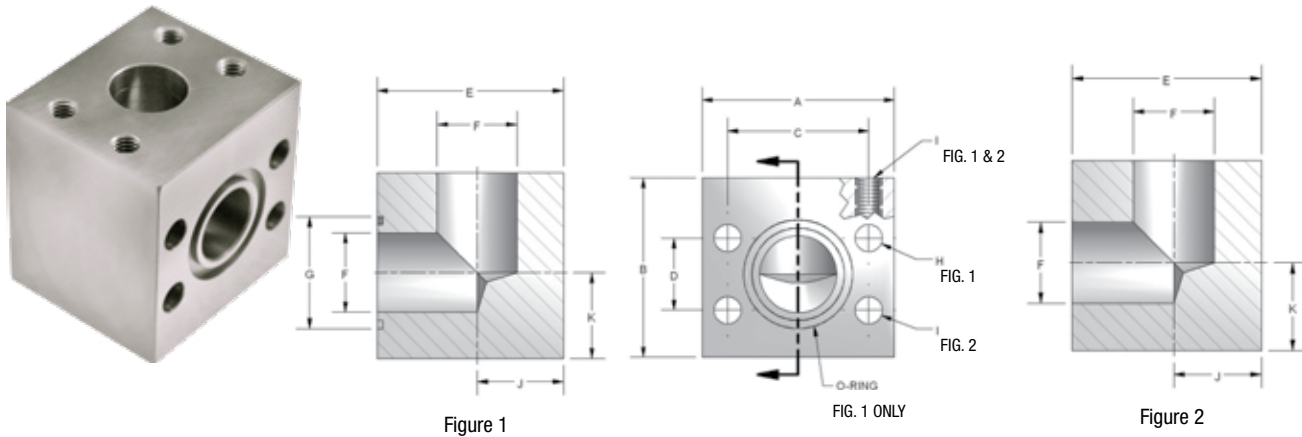


Figure 1

FIG. 1 ONLY

Figure 2

| CODE 61 ELBOW BLOCK          |                                 |             |      |      |       |       |      |      |       |      |             |      |      |                   |              |
|------------------------------|---------------------------------|-------------|------|------|-------|-------|------|------|-------|------|-------------|------|------|-------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H    | I<br>UNC-2B | J    | K    | MOUNTING HARDWARE |              |
|                              |                                 |             |      |      |       |       |      |      |       |      |             |      |      | O-RING            | SHCS         |
| W14-12                       | W15-12                          | .75         | 2.62 | 2.47 | 1.875 | .875  | 2.25 | .75  | 1.250 | .406 | 3/8-16      | 1.03 | 1.03 | 214               | 3/8-16X3.00  |
| W14-16                       | W15-16                          | 1.00        | 2.82 | 2.47 | 2.062 | 1.031 | 2.47 | 1.00 | 1.560 | .406 | 3/8-16      | 1.16 | 1.09 | 219               | 3/8-16X3.25  |
| W14-20                       | W15-20                          | 1.25        | 3.19 | 2.97 | 2.312 | 1.188 | 2.97 | 1.25 | 1.750 | .469 | 7/16-14     | 1.44 | 1.31 | 222               | 7/16-14X4.00 |
| W14-24                       | W15-24                          | 1.50        | 3.75 | 3.47 | 2.750 | 1.406 | 3.47 | 1.50 | 2.115 | .531 | 1/2-13      | 1.62 | 1.62 | 225               | 1/2-13X4.50  |
| W14-32                       | W15-32                          | 2.00        | 4.00 | 3.97 | 3.062 | 1.688 | 3.97 | 2.00 | 2.490 | .531 | 1/2-13      | 1.91 | 1.91 | 228               | 1/2-13X5.00  |

| CODE 62 ELBOW BLOCK          |                                 |             |      |      |       |       |      |      |       |      |             |      |      |                   |              |
|------------------------------|---------------------------------|-------------|------|------|-------|-------|------|------|-------|------|-------------|------|------|-------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H    | I<br>UNC-2B | J    | K    | MOUNTING HARDWARE |              |
|                              |                                 |             |      |      |       |       |      |      |       |      |             |      |      | O-RING            | SHCS         |
| W12-12                       | W13-12                          | .75         | 2.82 | 2.47 | 2.000 | .937  | 2.47 | .750 | 1.250 | .406 | 3/8-16      | 1.19 | 1.06 | 214               | 3/8-16X3.50  |
| W12-16                       | W13-16                          | 1.00        | 3.19 | 2.97 | 2.250 | 1.093 | 2.97 | 1.00 | 1.560 | .469 | 7/16-14     | 1.38 | 1.38 | 219               | 7/16-14X4.00 |
| W12-20                       | W13-20                          | 1.25        | 3.75 | 3.47 | 2.625 | 1.250 | 3.47 | 1.25 | 1.750 | .531 | 1/2-13      | 1.62 | 1.41 | 222               | 1/2-13X4.50  |
| W12-24                       | W13-24                          | 1.50        | 4.50 | 3.97 | 3.125 | 1.437 | 3.97 | 1.50 | 2.115 | .656 | 5/8-11      | 1.88 | 1.75 | 225               | 5/8-11X5.00  |
| W12-32                       | W13-32                          | 2.00        | 5.25 | 4.97 | 3.812 | 1.75  | 4.97 | 2.00 | 2.490 | .781 | 3/4-10      | 2.25 | 2.50 | 228               | 3/4-10X6.00  |

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

# Tee Junction Block

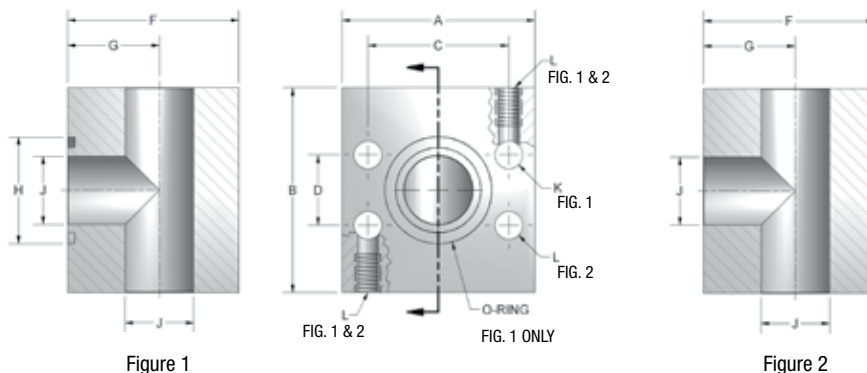


Figure 1

Figure 2

| CODE 61 TEE JUNCTION BLOCK   |                                 |             |      |      |       |       |      |      |       |      |      |             |                   |              |
|------------------------------|---------------------------------|-------------|------|------|-------|-------|------|------|-------|------|------|-------------|-------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PAD<br>SIZE | A    | B    | C     | D     | F    | G    | H     | J    | K    | L<br>UNC-2B | MOUNTING HARDWARE |              |
|                              |                                 |             |      |      |       |       |      |      |       |      |      |             | O-RING            | SHCS         |
| W17-12                       | W16-12                          | .75         | 2.62 | 2.75 | 1.875 | .875  | 2.25 | 1.22 | 1.250 | .75  | .406 | 3/8-16      | 214               | 3/8-16X3.00  |
| W17-16                       | W16-16                          | 1.00        | 2.82 | 2.97 | 2.062 | 1.031 | 2.50 | 1.34 | 1.560 | 1.00 | .406 | 3/8-16      | 219               | 3/8-16X3.25  |
| W17-20                       | W16-20                          | 1.25        | 3.19 | 3.47 | 2.312 | 1.188 | 3.00 | 1.56 | 1.750 | 1.25 | .469 | 7/16-14     | 222               | 7/16-14X4.00 |
| W17-24                       | W16-24                          | 1.50        | 3.75 | 3.97 | 2.750 | 1.406 | 3.50 | 1.88 | 2.115 | 1.50 | .531 | 1/2-13      | 225               | 1/2-13X4.50  |
| W17-32                       | W16-32                          | 2.00        | 4.00 | 4.25 | 3.062 | 1.688 | 3.97 | 2.09 | 2.490 | 2.00 | .531 | 1/2-13      | 228               | 1/2-13X5.00  |

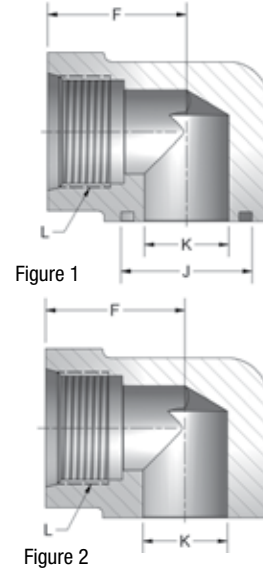
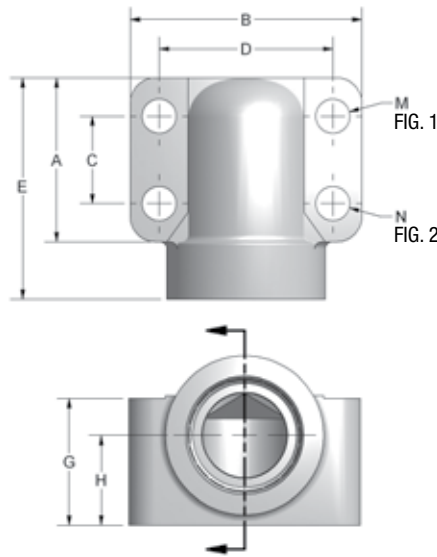
| CODE 62 TEE JUNCTION BLOCK   |                                 |             |      |      |       |       |      |       |       |       |      |             |                   |              |
|------------------------------|---------------------------------|-------------|------|------|-------|-------|------|-------|-------|-------|------|-------------|-------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PAD<br>SIZE | A    | B    | C     | D     | F    | G     | H     | J     | K    | L<br>UNC-2B | MOUNTING HARDWARE |              |
|                              |                                 |             |      |      |       |       |      |       |       |       |      |             | O-RING            | SHCS         |
| W19-12                       | W18-12                          | .75         | 2.81 | 2.97 | 2.00  | .937  | 2.50 | 1.310 | 1.250 | .750  | .406 | 3/8-16      | 214               | 3/8-16X3.25  |
| W19-16                       | W18-16                          | 1.00        | 3.19 | 3.47 | 2.25  | 1.093 | 3.00 | 1.620 | 1.560 | 1.000 | .492 | 7/16-14     | 219               | 7/16-14X4.00 |
| W19-20                       | W18-20                          | 1.25        | 3.75 | 3.97 | 2.625 | 1.250 | 3.50 | 1.880 | 1.750 | 1.250 | .531 | 1/2-13      | 222               | 1/2-13X4.50  |
| W19-24                       | W18-24                          | 1.50        | 4.50 | 4.47 | 3.125 | 1.437 | 4.00 | 2.120 | 2.115 | 1.500 | .656 | 5/8-11      | 225               | 5/8-11X5.00  |
| W19-32                       | W18-32                          | 2.00        | 5.25 | 4.97 | 3.812 | 1.750 | 4.97 | 2.750 | 2.490 | 1.940 | .781 | 3/4-10      | 228               | 3/4-10X6.00  |

Mounting kit available on O-Ring grooved flanges by simply adding suffix letter 'U' to part number.





# Threaded Elbow



| CODE 61 ELBOW SAE STRAIGHT THREAD |                                 |             |      |      |       |       |      |      |      |       |       |       |           |      |             |                      |              |
|-----------------------------------|---------------------------------|-------------|------|------|-------|-------|------|------|------|-------|-------|-------|-----------|------|-------------|----------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1      | PART NO.<br>FLAT FACE<br>FIG. 2 | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G    | H     | J     | K     | L         | M    | N<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|                                   |                                 |             |      |      |       |       |      |      |      |       |       |       |           |      |             | O-RING               | SHCS         |
| W164-12-12                        | W165-12-12                      | .75         | 1.69 | 2.56 | .875  | 1.875 | 2.28 | 1.44 | 1.25 | .875  | 1.250 | .752  | 1-1/16-12 | .406 | 3/8-16      | 214                  | 3/8-16X2.00  |
| W164-16-16                        | W165-16-16                      | 1.00        | 1.94 | 2.75 | 1.031 | 2.062 | 2.62 | 1.66 | 1.50 | 1.062 | 1.560 | 1.002 | 1-5/16-12 | .406 | 3/8-16      | 219                  | 3/8-16X2.25  |
| W164-20-20                        | W165-20-20                      | 1.25        | 2.19 | 3.12 | 1.188 | 2.312 | 3.00 | 1.91 | 1.81 | 1.188 | 1.750 | 1.252 | 1-5/8-12  | .469 | 7/16-14     | 222                  | 7/16-14X2.75 |
| W164-24-24                        | W165-24-24                      | 1.50        | 2.56 | 3.69 | 1.406 | 2.750 | 3.33 | 2.05 | 2.00 | 1.312 | 2.115 | 1.502 | 1-7/8-12  | .531 | 1/2-13      | 225                  | 1/2-13X3.00  |
| W164-32-32                        | W165-32-32                      | 2.00        | 3.06 | 4.33 | 1.688 | 3.062 | 3.81 | 2.28 | 2.50 | 1.656 | 1.490 | 2.002 | 2-1/2-12  | .531 | 1/2-13      | 228                  | 1/2-13X3.50  |

| CODE 61 ELBOW NPTF THREAD    |                                 |             |      |      |       |       |      |      |      |       |       |       |      |      |             |                      |              |
|------------------------------|---------------------------------|-------------|------|------|-------|-------|------|------|------|-------|-------|-------|------|------|-------------|----------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G    | H     | J     | K     | L    | M    | N<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|                              |                                 |             |      |      |       |       |      |      |      |       |       |       |      |      |             | O-RING               | SHCS         |
| W168-12-12                   | W170-12-12                      | .75         | 1.69 | 2.56 | .875  | 1.875 | 2.28 | 1.44 | 1.25 | .875  | 1.250 | .752  | .75  | .406 | 3/8-16      | 214                  | 3/8-16X2.00  |
| W168-16-16                   | W170-16-16                      | 1.00        | 1.94 | 2.75 | 1.031 | 2.062 | 2.62 | 1.66 | 1.50 | 1.062 | 1.560 | 1.002 | 1.00 | .406 | 3/8-16      | 219                  | 3/8-16X2.25  |
| W168-20-20                   | W170-20-20                      | 1.25        | 2.19 | 3.12 | 1.188 | 2.312 | 3.00 | 1.91 | 1.81 | 1.188 | 1.750 | 1.252 | 1.25 | .469 | 7/16-14     | 222                  | 7/16-14X2.75 |
| W168-24-24                   | W170-24-24                      | 1.50        | 2.56 | 3.69 | 1.406 | 2.750 | 3.33 | 2.05 | 2.00 | 1.312 | 2.115 | 1.502 | 1.50 | .531 | 1/2-13      | 225                  | 1/2-13X3.00  |
| W168-32-32                   | W170-32-32                      | 2.00        | 3.06 | 4.33 | 1.688 | 3.062 | 3.81 | 2.28 | 2.50 | 1.656 | 2.490 | 2.002 | 2.00 | .531 | 1/2-13      | 228                  | 1/2-13X3.50  |

| CODE 62 ELBOW SAE STRAIGHT THREAD |                                 |             |      |      |       |       |      |      |      |       |       |       |           |      |             |                      |              |
|-----------------------------------|---------------------------------|-------------|------|------|-------|-------|------|------|------|-------|-------|-------|-----------|------|-------------|----------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1      | PART NO.<br>FLAT FACE<br>FIG. 2 | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G    | H     | J     | K     | L         | M    | N<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|                                   |                                 |             |      |      |       |       |      |      |      |       |       |       |           |      |             | O-RING               | SHCS         |
| W184-12-12                        | W185-12-12                      | .75         | 1.94 | 2.75 | .937  | 2.000 | 2.62 | 1.66 | 1.50 | 1.062 | 1.250 | .752  | 1-1/16-12 | .406 | 3/8-16      | 214                  | 3/8-16X2.25  |
| W184-16-16                        | W185-16-16                      | 1.00        | 2.19 | 3.12 | 1.093 | 2.250 | 3.00 | 1.91 | 1.81 | 1.188 | 1.560 | 1.002 | 1-5/16-12 | .492 | 7/16-14     | 219                  | 7/16-14X2.50 |
| W184-20-20                        | W185-20-20                      | 1.25        | 2.56 | 3.69 | 1.250 | 2.625 | 3.32 | 2.05 | 2.00 | 1.312 | 1.750 | 1.252 | 1-5/8-12  | .531 | 1/2-13      | 222                  | 1/2-13X3.00  |
| W184-24-24                        | W185-24-24                      | 1.50        | 3.06 | 4.33 | 1.437 | 3.125 | 3.81 | 2.28 | 2.50 | 1.656 | 2.115 | 1.502 | 1-7/8-12  | .656 | 5/8-11      | 225                  | 5/8-11X3.50  |

| CODE 62 ELBOW NPTF THREAD    |                                 |             |      |      |       |       |      |      |      |       |       |       |      |      |             |                      |              |
|------------------------------|---------------------------------|-------------|------|------|-------|-------|------|------|------|-------|-------|-------|------|------|-------------|----------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G    | H     | J     | K     | L    | M    | N<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|                              |                                 |             |      |      |       |       |      |      |      |       |       |       |      |      |             | O-RING               | SHCS         |
| W188-12-12                   | W180-12-12                      | .75         | 1.94 | 2.75 | .937  | 2.000 | 2.62 | 1.66 | 1.50 | 1.062 | 1.250 | .752  | .75  | .406 | 3/8-16      | 214                  | 3/8-16X2.25  |
| W188-16-16                   | W180-16-16                      | 1.00        | 2.19 | 3.12 | 1.093 | 2.250 | 3.00 | 1.91 | 1.81 | 1.188 | 1.560 | 1.002 | 1.00 | .492 | 7/16-14     | 219                  | 7/16-14X2.50 |
| W188-20-20                   | W180-20-20                      | 1.25        | 2.56 | 3.69 | 1.250 | 2.625 | 3.32 | 2.05 | 2.00 | 1.312 | 1.750 | 1.252 | 1.25 | .531 | 1/2-13      | 222                  | 1/2-13X3.00  |
| W188-24-24                   | W180-24-24                      | 1.50        | 3.06 | 4.33 | 1.437 | 3.125 | 3.81 | 2.28 | 2.50 | 1.656 | 2.115 | 1.502 | 1.50 | .656 | 5/8-11      | 225                  | 5/8-11X3.50  |

Mounting kit available on O-Ring grooved flanges by simply adding suffix letter 'U' to part number.

866-FLANGES | 513.527.4444 | Fax 513.527.4449

sales@anchorfluidpower.com | anchorfluidpower.com



# Socket Weld Pipe Elbow

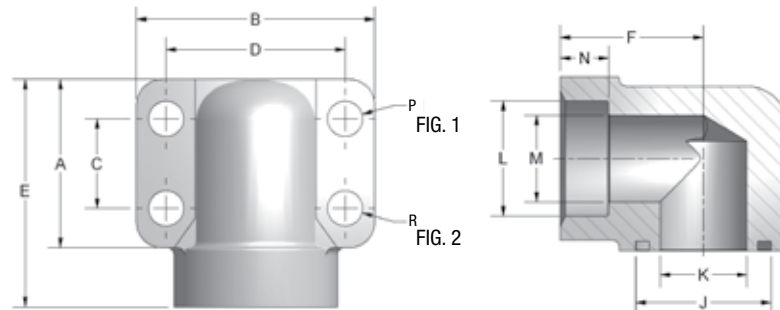


Figure 1

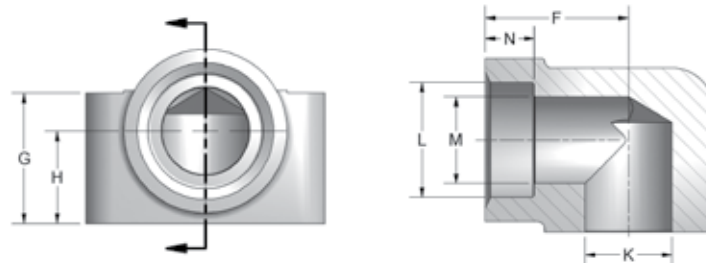


Figure 2

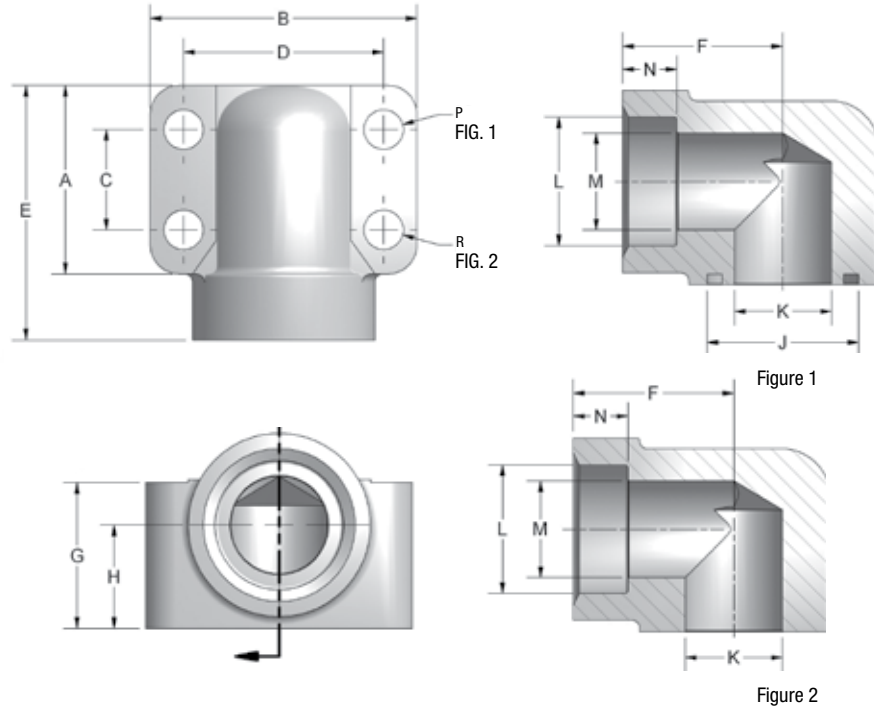
| CODE 61 ELBOW SOCKET WELD - PIPE |                                 |             |      |      |       |       |      |      |      |       |       |       |       |      |     |      |             |                      |              |
|----------------------------------|---------------------------------|-------------|------|------|-------|-------|------|------|------|-------|-------|-------|-------|------|-----|------|-------------|----------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1     | PART NO.<br>FLAT FACE<br>FIG. 2 | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G    | H     | J     | K     | L     | M    | N   | P    | R<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|                                  |                                 |             |      |      |       |       |      |      |      |       |       |       |       |      |     |      |             | O-RING               | SHCS         |
| W176-12-12                       | W169-12-12                      | .75         | 1.69 | 2.56 | .875  | 1.875 | 2.28 | 1.44 | 1.25 | .875  | 1.250 | .752  | 1.062 | .75  | .56 | .406 | 3/8-16      | 214                  | 3/8-16X2.00  |
| W176-16-16                       | W169-16-16                      | 1.00        | 1.94 | 2.75 | 1.031 | 2.062 | 2.62 | 1.66 | 1.50 | 1.062 | 1.560 | 1.002 | 1.328 | 1.00 | .56 | .406 | 3/8-16      | 219                  | 3/8-16X2.25  |
| W176-20-20                       | W169-20-20                      | 1.25        | 2.19 | 3.12 | 1.188 | 2.312 | 3.00 | 1.91 | 1.81 | 1.188 | 1.750 | 1.252 | 1.672 | 1.25 | .62 | .469 | 7/16-14     | 222                  | 7/16-14X2.75 |
| W176-24-24                       | W169-24-24                      | 1.50        | 2.56 | 3.69 | 1.406 | 2.750 | 3.33 | 2.05 | 2.00 | 1.312 | 2.115 | 1.502 | 1.922 | 1.50 | .69 | .531 | 1/2-13      | 225                  | 1/2-13X3.00  |
| W176-32-32                       | W169-32-32                      | 2.00        | 3.06 | 4.33 | 1.688 | 3.062 | 3.81 | 2.28 | 2.50 | 1.656 | 2.490 | 2.002 | 2.406 | 2.00 | .75 | .531 | 1/2-13      | 228                  | 1/2-13X3.50  |
| W176-40-40                       | W169-40-40                      | 2.50        | 3.56 | 5.00 | 2.000 | 3.500 | 4.66 | 2.88 | 2.78 | 1.900 | 2.995 | 2.502 | 2.906 | 2.50 | .75 | .531 | 1/2-13      | 232                  | 1/2-13X5.00  |
| W176-48-48                       | W169-48-48                      | 3.00        | 4.00 | 5.50 | 2.438 | 4.188 | 5.00 | 3.00 | 3.35 | 2.400 | 3.615 | 3.002 | 3.547 | 3.00 | .75 | .656 | 5/8-11      | 237                  | 5/8-11X6.00  |

| CODE 62 ELBOW SOCKET WELD - PIPE |                                 |             |      |      |       |       |      |      |      |       |       |       |       |      |     |      |             |                      |              |
|----------------------------------|---------------------------------|-------------|------|------|-------|-------|------|------|------|-------|-------|-------|-------|------|-----|------|-------------|----------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1     | PART NO.<br>FLAT FACE<br>FIG. 2 | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G    | H     | J     | K     | L     | M    | N   | P    | R<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|                                  |                                 |             |      |      |       |       |      |      |      |       |       |       |       |      |     |      |             | O-RING               | SHCS         |
| W186-12-12                       | W189-12-12                      | .75         | 1.94 | 2.75 | .937  | 2.000 | 2.62 | 1.66 | 1.50 | 1.062 | 1.250 | .752  | 1.062 | .75  | .56 | .406 | 3/8-16      | 214                  | 3/8-16X2.25  |
| W186-16-16                       | W189-16-16                      | 1.00        | 2.19 | 3.12 | 1.093 | 2.250 | 3.00 | 1.91 | 1.81 | 1.188 | 1.560 | 1.002 | 1.328 | 1.00 | .62 | .492 | 7/16-14     | 219                  | 7/16-14X2.50 |
| W186-20-20                       | W189-20-20                      | 1.25        | 2.56 | 3.69 | 1.250 | 2.625 | 3.32 | 2.05 | 2.00 | 1.312 | 1.750 | 1.252 | 1.672 | 1.25 | .69 | .531 | 1/2-13      | 222                  | 1/2-13X3.00  |
| W186-24-24                       | W189-24-24                      | 1.50        | 3.06 | 4.33 | 1.437 | 3.125 | 3.81 | 2.28 | 2.50 | 1.656 | 2.115 | 1.502 | 1.922 | 1.50 | .75 | .656 | 5/8-11      | 225                  | 5/8-11X3.50  |
| W186-32-32                       | W189-32-32                      | 2.00        | 3.56 | 5.00 | 1.750 | 3.812 | 4.66 | 2.88 | 2.69 | 1.900 | 2.490 | 2.002 | 2.406 | 2.00 | .75 | .781 | 3/4-10      | 228                  | 3/4-10X4.50  |

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.



# Socket Weld Tube Elbow



| CODE 61 ELBOW SOCKET WELD - TUBE |                                 |             |      |      |       |       |      |      |      |       |       |       |       |       |      |      |             |                      |              |
|----------------------------------|---------------------------------|-------------|------|------|-------|-------|------|------|------|-------|-------|-------|-------|-------|------|------|-------------|----------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1     | PART NO.<br>FLAT FACE<br>FIG. 2 | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G    | H     | J     | K     | L     | M     | N    | P    | R<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|                                  |                                 |             |      |      |       |       |      |      |      |       |       |       |       |       |      |      |             | O-RING               | SHCS         |
| W172-12-12                       | W177-12-12                      | .75         | 1.69 | 2.56 | .875  | 1.875 | 2.28 | 1.44 | 1.25 | .875  | 1.250 | .752  | .752  | .625  | .312 | .406 | 3/8-16      | 214                  | 3/8-16X2.00  |
| W172-16-12                       | W177-16-12                      | .75         | 1.69 | 2.56 | .875  | 1.875 | 2.28 | 1.44 | 1.25 | .875  | 1.250 | .752  | 1.002 | .750  | .438 | .406 | 3/8-16      | 214                  | 3/8-16X2.00  |
| W172-16-16                       | W177-16-16                      | 1.00        | 1.94 | 2.75 | 1.031 | 2.062 | 2.62 | 1.66 | 1.50 | 1.062 | 1.560 | 1.002 | 1.002 | .875  | .438 | .406 | 3/8-16      | 219                  | 3/8-16X2.25  |
| W172-20-16                       | W177-20-16                      | 1.00        | 1.94 | 2.75 | 1.031 | 2.062 | 2.62 | 1.66 | 1.50 | 1.062 | 1.560 | 1.002 | 1.252 | 1.000 | .500 | .406 | 3/8-16      | 219                  | 3/8-16X2.25  |
| W172-20-20                       | W177-20-20                      | 1.25        | 2.19 | 3.12 | 1.188 | 2.312 | 3.00 | 1.91 | 1.81 | 1.188 | 1.750 | 1.252 | 1.252 | 1.125 | .500 | .469 | 7/16-14     | 222                  | 7/16-14X2.75 |
| W172-24-20                       | W177-24-20                      | 1.25        | 2.19 | 3.12 | 1.188 | 2.312 | 3.00 | 1.91 | 1.81 | 1.188 | 1.750 | 1.252 | 1.502 | 1.250 | .562 | .469 | 7/16-14     | 222                  | 7/16-14X2.75 |
| W172-24-24                       | W177-24-24                      | 1.50        | 2.56 | 3.69 | 1.406 | 2.750 | 3.33 | 2.05 | 2.00 | 1.312 | 2.115 | 1.502 | 1.502 | 1.375 | .562 | .531 | 1/2-13      | 225                  | 1/2-13X3.00  |
| W172-28-24                       | W177-28-24                      | 1.50        | 2.56 | 3.69 | 1.406 | 2.750 | 3.33 | 2.05 | 2.00 | 1.312 | 2.115 | 1.502 | 1.752 | 1.500 | .562 | .531 | 1/2-13      | 225                  | 1/2-13X3.00  |
| W172-32-32                       | W177-32-32                      | 2.00        | 3.06 | 4.33 | 1.688 | 3.062 | 3.81 | 2.28 | 2.50 | 1.656 | 2.490 | 2.002 | 2.002 | 1.875 | .625 | .531 | 1/2-13      | 228                  | 1/2-13X3.50  |
| W172-36-32                       | W177-36-32                      | 2.00        | 3.06 | 4.33 | 1.688 | 3.062 | 3.81 | 2.28 | 2.50 | 1.656 | 2.490 | 2.002 | 2.252 | 2.000 | .625 | .531 | 1/2-13      | 228                  | 1/2-13X3.50  |

| CODE 62 ELBOW SOCKET WELD - TUBE |                                 |             |      |      |       |       |      |      |      |       |       |       |       |       |     |      |             |                      |              |
|----------------------------------|---------------------------------|-------------|------|------|-------|-------|------|------|------|-------|-------|-------|-------|-------|-----|------|-------------|----------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1     | PART NO.<br>FLAT FACE<br>FIG. 2 | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G    | H     | J     | K     | L     | M     | N   | P    | R<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|                                  |                                 |             |      |      |       |       |      |      |      |       |       |       |       |       |     |      |             | O-RING               | SHCS         |
| W182-12-12                       | W187-12-12                      | .75         | 1.94 | 2.75 | .937  | 2.000 | 2.62 | 1.66 | 1.50 | 1.062 | 1.250 | .752  | .752  | .625  | .56 | .406 | 3/8-16      | 214                  | 3/8-16X2.25  |
| W182-16-12                       | W187-16-12                      | .75         | 1.94 | 2.75 | .937  | 2.000 | 2.62 | 1.66 | 1.50 | 1.062 | 1.250 | .752  | 1.002 | .750  | .62 | .406 | 3/8-16      | 214                  | 3/8-16X2.25  |
| W182-16-16                       | W187-16-16                      | 1.00        | 2.19 | 3.12 | 1.093 | 2.250 | 3.00 | 1.91 | 1.81 | 1.188 | 1.560 | 1.002 | 1.002 | .875  | .62 | .492 | 7/16-14     | 219                  | 7/16-14X2.50 |
| W182-20-16                       | W187-20-16                      | 1.00        | 2.19 | 3.12 | 1.093 | 2.250 | 3.00 | 1.91 | 1.81 | 1.188 | 1.560 | 1.002 | 1.252 | 1.000 | .69 | .492 | 7/16-14     | 219                  | 7/16-14X2.50 |
| W182-20-20                       | W187-20-20                      | 1.25        | 2.56 | 3.69 | 1.250 | 2.625 | 3.32 | 2.05 | 2.00 | 1.312 | 1.750 | 1.252 | 1.252 | 1.125 | .69 | .531 | 1/2-13      | 222                  | 1/2-13X3.00  |
| W182-24-20                       | W187-24-20                      | 1.25        | 2.56 | 3.69 | 1.250 | 2.625 | 3.32 | 2.05 | 2.00 | 1.312 | 1.750 | 1.252 | 1.502 | 1.250 | .75 | .531 | 1/2-13      | 222                  | 1/2-13X3.00  |
| W182-24-24                       | W187-24-24                      | 1.50        | 3.06 | 4.33 | 1.437 | 3.125 | 3.81 | 2.28 | 2.50 | 1.656 | 2.115 | 1.502 | 1.502 | 1.375 | .75 | .656 | 5/8-11      | 225                  | 5/8-11X3.50  |
| W182-28-24                       | W187-28-24                      | 1.50        | 3.06 | 4.33 | 1.437 | 3.125 | 3.81 | 2.28 | 2.50 | 1.656 | 2.115 | 1.502 | 1.752 | 1.500 | .75 | .656 | 5/8-11      | 225                  | 5/8-11X3.50  |

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

# 3000 Series Square Pattern

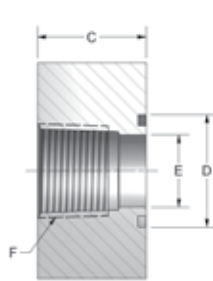


Figure 1

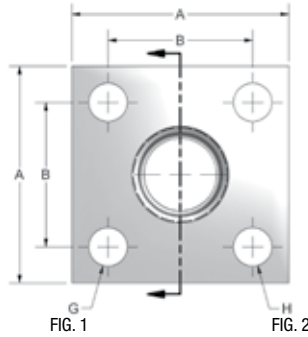


FIG. 1

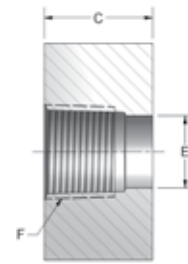


Figure 2

| 3000 SERIES SQUARE NPTF THREAD |                                 |             |      |       |      |       |       |      |      |             |                      |             |
|--------------------------------|---------------------------------|-------------|------|-------|------|-------|-------|------|------|-------------|----------------------|-------------|
| PART NO.<br>O-RING<br>FIG. 1   | PART NO.<br>FLAT FACE<br>FIG. 2 | PAD<br>SIZE | A    | B     | C    | D     | E     | F    | G    | H<br>UNC-2B | MOUNTING<br>HARDWARE |             |
|                                |                                 |             |      |       |      |       |       |      |      |             | O-RING               | SHCS        |
| W65-12                         | W75-12                          | .75         | 2.25 | 1.438 | 1.25 | 1.250 | .752  | .75  | .406 | 3/8-16      | 214                  | 3/8-16X2.00 |
| W65-16                         | W75-16                          | 1.00        | 3.00 | 2.000 | 1.50 | 1.560 | 1.002 | 1.00 | .531 | 1/2-13      | 219                  | 1/2-13X2.25 |
| W65-20                         | W75-20                          | 1.25        | 3.00 | 2.000 | 1.50 | 1.750 | 1.252 | 1.25 | .531 | 1/2-13      | 222                  | 1/2-13X2.25 |
| W65-24                         | W75-24                          | 1.50        | 4.00 | 2.750 | 1.75 | 2.115 | 1.502 | 1.50 | .656 | 5/8-11      | 225                  | 5/8-11X2.75 |
| W65-32                         | W75-32                          | 2.00        | 4.00 | 2.750 | 1.75 | 2.490 | 2.002 | 2.00 | .656 | 5/8-11      | 228                  | 5/8-11X2.75 |
| W65-40                         | W75-40*                         | 2.50        | 5.50 | 3.750 | 2.25 | 2.995 | 2.502 | 2.50 | .906 | 7/8-9       | 232                  | 7/8-9X3.50* |
| W65-48                         | W75-48*                         | 3.00        | 5.50 | 3.750 | 2.25 | 3.615 | 3.002 | 3.00 | .906 | 7/8-9       | 237                  | 7/8-9X3.50* |

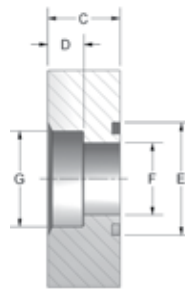


Figure 1

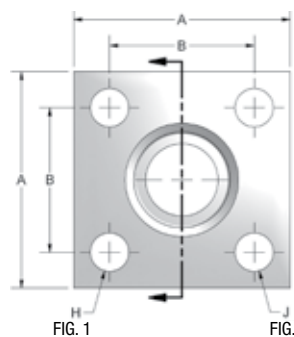


FIG. 1

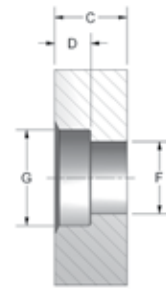


Figure 2

| 3000 SERIES SQUARE SOCKET WELD - PIPE |                                 |             |      |       |      |     |       |       |       |       |             |                      |             |
|---------------------------------------|---------------------------------|-------------|------|-------|------|-----|-------|-------|-------|-------|-------------|----------------------|-------------|
| PART NO.<br>O-RING<br>FIG. 1          | PART NO.<br>FLAT FACE<br>FIG. 2 | PAD<br>SIZE | A    | B     | C    | D   | E     | F     | G     | H     | J<br>UNC-2B | MOUNTING<br>HARDWARE |             |
|                                       |                                 |             |      |       |      |     |       |       |       |       |             | O-RING               | SHCS        |
| W66-12                                | W76-12                          | .75         | 2.25 | 1.438 | 1.00 | .50 | 1.250 | .752  | 1.062 | .406  | 3/8-16      | 214                  | 3/8-16X1.75 |
| W66-16                                | W76-16                          | 1.00        | 3.00 | 2.000 | 1.00 | .50 | 1.560 | 1.002 | 1.328 | .531  | 1/2-13      | 219                  | 1/2-13X1.75 |
| W66-20                                | W76-20                          | 1.25        | 3.00 | 2.000 | 1.00 | .50 | 1.750 | 1.252 | 1.672 | .531  | 1/2-13      | 222                  | 1/2-13X1.75 |
| W66-24                                | W76-24                          | 1.50        | 4.00 | 2.750 | 1.25 | .62 | 2.115 | 1.502 | 1.922 | .656  | 5/8-11      | 225                  | 5/8-11X2.25 |
| W66-32                                | W76-32                          | 2.00        | 4.00 | 2.750 | 1.25 | .62 | 2.490 | 2.002 | 2.406 | .656  | 5/8-11      | 228                  | 5/8-11X2.25 |
| W66-40                                | W76-40*                         | 2.50        | 5.50 | 3.750 | 1.50 | .75 | 2.995 | 2.502 | 2.906 | .906  | 7/8-9       | 232                  | 7/8-9X2.75* |
| W66-48                                | W76-48*                         | 3.00        | 5.50 | 3.750 | 1.50 | .75 | 3.615 | 3.002 | 3.547 | .906  | 7/8-9       | 237                  | 7/8-9X2.75* |
| W66-64                                | W76-64*                         | 4.00        | 7.00 | 5.000 | 2.00 | .75 | 4.625 | 3.880 | 4.578 | 1.060 | 1-8         | 347                  | 1-8X3.50*   |

\*HHCS provided on 7/8" size bolts and larger.

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.



**866-FLANGES | 513.527.4444 | Fax 513.527.4449**

[sales@anchorfluidpower.com](mailto:sales@anchorfluidpower.com) | [anchorfluidpower.com](http://anchorfluidpower.com)

# 6000 Series Square Pattern

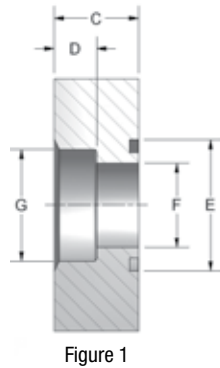


Figure 1

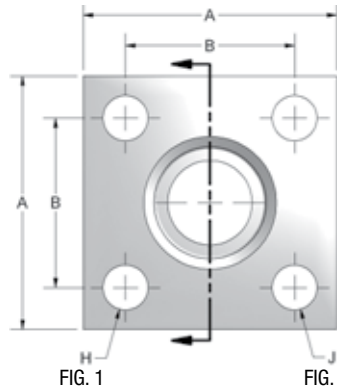


FIG. 1

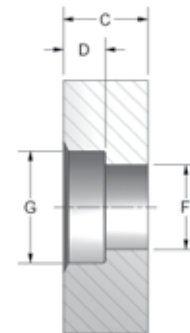


Figure 2

| 6000 SERIES SQUARE SOCKET WELD - PIPE |                                 |              |       |       |      |       |       |      |       |      |             |                   |            |
|---------------------------------------|---------------------------------|--------------|-------|-------|------|-------|-------|------|-------|------|-------------|-------------------|------------|
| PART NO.<br>O-RING<br>FIG. 1          | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | A     | B     | C    | D     | E     | F    | G     | H    | J<br>UNC-2B | MOUNTING HARDWARE |            |
|                                       |                                 |              |       |       |      |       |       |      |       |      |             | O-RING            | HHCS       |
| W56-40                                | W57-40                          | 2.50         | 5.50  | 3.750 | 1.75 | .75   | 2.995 | 2.12 | 2.911 | .94  | 7/8-9       | 232               | 7/8-9X3.50 |
| W56-48                                | W57-48                          | 3.00         | 6.75  | 4.750 | 2.00 | .75   | 3.615 | 2.62 | 3.540 | 1.06 | 1-8         | 236               | 1-8X4.00   |
| W56-56                                | W57-56                          | 3.50         | 8.00  | 5.500 | 2.40 | 1.002 | 3.990 | 3.00 | 4.045 | 1.31 | 1 1/4-7     | 342               | 1 1/4X5.00 |
| W56-64                                | W57-64                          | 4.00         | 8.50  | 6.000 | 2.40 | 1.002 | 4.490 | 3.44 | 4.550 | 1.31 | 1 1/4-7     | 346               | 1 1/4X5.00 |
| W56-80                                | W57-80                          | 5.00         | 10.00 | 7.250 | 2.90 | 1.002 | 5.365 | 4.31 | 5.625 | 1.56 | 1 1/2-6     | 353               | 1 1/2X6.00 |

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

INLINE  
VALVES

BALL  
VALVES

QUICK  
COUPLINGS

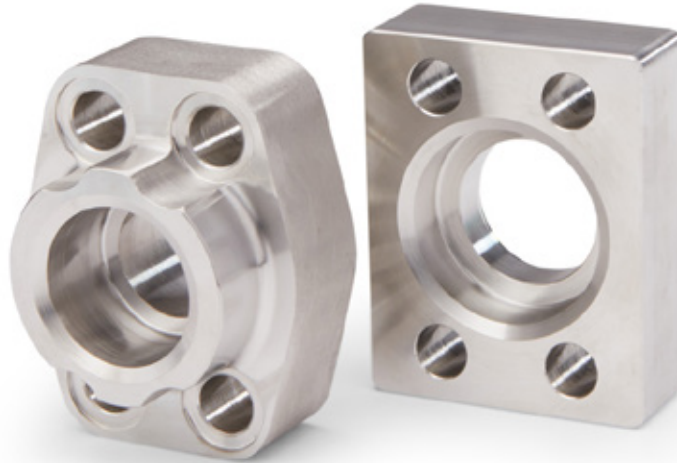
WELD  
COUPLINGS

SUCTION  
AND RETURN

C/S  
FLANGES

S/S  
FLANGES

# FLANGES - STAINLESS STEEL



## AFP SUPPLIED 18-8(304) STAINLESS STEEL FASTENER TORQUE REQUIREMENTS

| CODE 61 SAE J518-1 / ISO 6162-1 BOLT PATTERN |           |                                              |
|----------------------------------------------|-----------|----------------------------------------------|
| DASH SIZE                                    | INCH SIZE | SOCKET AND HEX HEAD<br>FASTENER TORQUE VALUE |
|                                              |           | 18-8 UNC (LB-FT)                             |
| -8                                           | 1/2"      | 9                                            |
| -12                                          | 3/4"      | 16                                           |
| -16                                          | 1"        | 16                                           |
| -20                                          | 1 1/4"    | 26                                           |
| -24                                          | 1 1/2"    | 40                                           |
| -32                                          | 2"        | 40                                           |
| -40                                          | 2 1/2"    | 40                                           |
| -48                                          | 3"        | 79                                           |
| -56                                          | 3 1/2"    | 79                                           |
| -64                                          | 4"        | 79                                           |
| -80                                          | 5"        | 79                                           |

| CODE 62 SAE J518-2 / ISO 6162-2 BOLT PATTERN |           |                                              |
|----------------------------------------------|-----------|----------------------------------------------|
| DASH SIZE                                    | INCH SIZE | SOCKET AND HEX HEAD<br>FASTENER TORQUE VALUE |
|                                              |           | 18-8 UNC (LB-FT)                             |
| -8                                           | 1/2"      | 9                                            |
| -12                                          | 3/4"      | 16                                           |
| -16                                          | 1"        | 26                                           |
| -20                                          | 1 1/4"    | 40                                           |
| -24                                          | 1 1/2"    | 79                                           |
| -32                                          | 2"        | 140*                                         |

\*-32 CODE 62 Hex Head torque value is 97 (lb-ft).

NOTE - All stainless steel fastener torque values were configured using regular grade Never-Seez® as lubricant. Use of another lubricant on fasteners can affect torque value. Consult factory for additional information.

\* The use of stainless steel fasteners may reduce the maximum working pressure of the assembly.

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FLUID POWER**

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sales@anchorfluidpower.com | anchorfluidpower.com

## SAE J518 Split/Captive Flanges

For SAE Flanged Head Connection

|                                     |     |
|-------------------------------------|-----|
| CD 61 - CD 62                       | 128 |
| CD 61 - CD 62 Split Flange Adapters | 129 |

## SAE 4 Bolt Flanges

|                                              |     |
|----------------------------------------------|-----|
| CD 61 - CD 62 Blanking                       | 130 |
| CD 61 - CD 62 NPTF                           | 131 |
| CD 61 - CD 62 SAE Thread                     | 132 |
| CD 61 - CD 62 Flat Socket Weld Pipe          | 133 |
| CD 61 - CD 62 Deep Socket Weld Pipe          | 134 |
| CD 61 Butt Weld-Sched 40/Sched 80/Sched 160  | 135 |
| CD 62 Butt Weld-Sched 80/Sched 160/Sched XXS | 136 |
| CD 61 - CD 62 Elbow Socket Weld Pipe         | 137 |
| CD 61 - CD 62 Elbow Block                    | 138 |

## Square 4 Bolt Flanges

|                              |     |
|------------------------------|-----|
| 3000 Series Flat Socket Weld | 140 |
| 3000 Series NPTF Thread      | 140 |

The standard grade of material for Anchor's stainless steel flanges is 316L. Other material grades are available upon request. In addition, material grades and flange dimensions may vary due to availability of raw material.

INLINE  
VALVES

BALL  
VALVES

QUICK  
COUPLINGS

WELD  
COUPLINGS

SUCTION  
AND RETURN

C/S  
FLANGES

S/S  
FLANGES

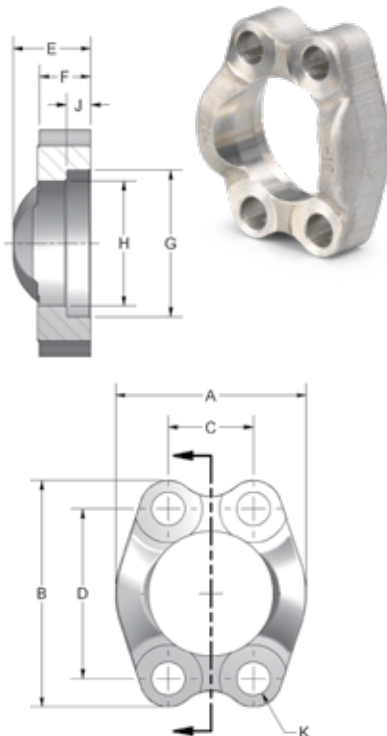
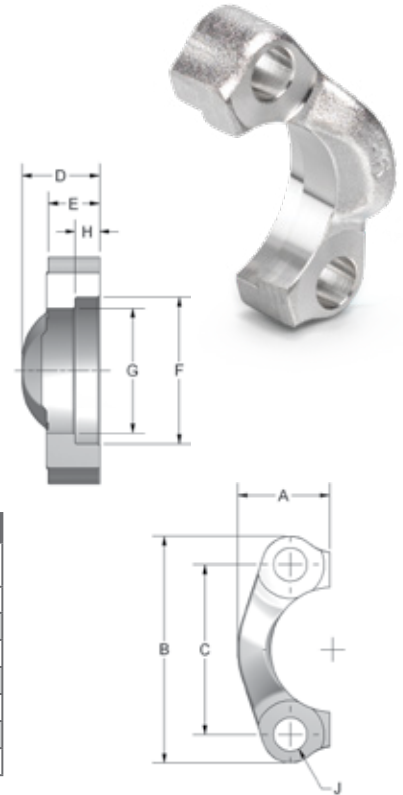
# J518 Split & Captive Flange

| CODE 61 SPLIT FLANGE |                |             |      |      |       |      |      |       |       |      |      |                   |              |
|----------------------|----------------|-------------|------|------|-------|------|------|-------|-------|------|------|-------------------|--------------|
| *PART NO.            | **KIT PART NO. | FLANGE SIZE | A    | B    | C     | D    | E    | F     | G     | H    | J    | MOUNTING HARDWARE |              |
|                      |                |             |      |      |       |      |      |       |       |      |      | O-RING            | HHCS         |
| 8SF-2-SS             | 8SFO-SS        | .50         | .86  | 2.12 | 1.500 | .75  | .50  | 1.219 | .955  | .245 | .344 | 210               | 5/16-18X1.25 |
| 12SF-2-SS            | 12SFO-SS       | .75         | .98  | 2.56 | 1.875 | .88  | .56  | 1.531 | 1.265 | .245 | .406 | 214               | 3/8-16X1.25  |
| 16SF-2-SS            | 16SFO-SS       | 1.00        | 1.11 | 2.75 | 2.062 | .94  | .62  | 1.781 | 1.515 | .295 | .406 | 219               | 3/8-16X1.25  |
| 20SF-2-SS            | 20SFO-SS       | 1.25        | 1.39 | 3.12 | 2.312 | .88  | .56  | 2.031 | 1.720 | .295 | .469 | 222               | 7/16-14X1.50 |
| 24SF-2-SS            | 24SFO-SS       | 1.50        | 1.58 | 3.69 | 2.750 | 1.00 | .62  | 2.406 | 2.000 | .295 | .531 | 225               | 1/2-13X1.50  |
| 32SF-2-SS            | 32SFO-SS       | 2.00        | 1.86 | 4.00 | 3.062 | 1.03 | .62  | 2.844 | 2.470 | .355 | .531 | 228               | 1/2-13X1.50  |
| 40SF-2-SS            | 40SFO-SS       | 2.50        | 2.09 | 4.50 | 3.500 | 1.50 | .75  | 3.344 | 2.950 | .355 | .531 | 232               | 1/2-13X1.75  |
| 48SF-2-SS            | 48SFO-SS       | 3.00        | 2.53 | 5.31 | 4.188 | 1.62 | .88  | 4.031 | 3.580 | .355 | .656 | 237               | 5/8-11X1.75  |
| 56SF-2-SS            | 56SFO-SS       | 3.50        | 2.70 | 6.00 | 4.750 | 1.12 | .88  | 4.531 | 4.030 | .422 | .656 | 241               | 5/8-11X2.00  |
| 64SF-2-SS            | 64SFO-SS       | 4.00        | 2.95 | 6.38 | 5.125 | 1.38 | 1.00 | 5.031 | 4.530 | .422 | .656 | 245               | 5/8-11X2.00  |

| CODE 62 SPLIT FLANGE |                |             |      |      |       |      |      |       |       |      |      |                   |              |
|----------------------|----------------|-------------|------|------|-------|------|------|-------|-------|------|------|-------------------|--------------|
| *PART NO.            | **KIT PART NO. | FLANGE SIZE | A    | B    | C     | D    | E    | F     | G     | H    | J    | MOUNTING HARDWARE |              |
|                      |                |             |      |      |       |      |      |       |       |      |      | O-RING            | HHCS         |
| 8SFX-2-SS            | 8SFXO-SS       | .50         | .89  | 2.22 | 1.594 | .88  | .62  | 1.281 | .970  | .285 | .344 | 210               | 5/16-18X1.25 |
| 12SFX-2-SS           | 12SFXO-SS      | .75         | 1.14 | 2.81 | 2.000 | 1.12 | .75  | 1.656 | 1.280 | .325 | .406 | 214               | 3/8-16X1.50  |
| 16SFX-2-SS           | 16SFXO-SS      | 1.00        | 1.33 | 3.19 | 2.250 | 1.31 | .94  | 1.906 | 1.530 | .355 | .469 | 219               | 7/16-14X1.75 |
| 20SFX-2-SS           | 20SFXO-SS      | 1.25        | 1.48 | 3.75 | 2.625 | 1.50 | 1.06 | 2.156 | 1.750 | .385 | .531 | 222               | 1/2-13X1.75  |
| 24SFX-2-SS           | 24SFXO-SS      | 1.50        | 1.83 | 4.44 | 3.125 | 1.69 | 1.19 | 2.531 | 2.030 | .475 | .656 | 225               | 5/8-11X2.25  |
| 32SFX-2-SS           | 32SFXO-SS      | 2.00        | 2.20 | 5.25 | 3.812 | 2.06 | 1.44 | 3.156 | 2.660 | .475 | .781 | 228               | 3/4-10X2.75  |

\*Anchor part # includes: (1) split flange half only

\*\*Kit part # includes: (2) split flange halves, (4) hex head bolts with flat washers, and (1) Viton O-Ring



| CODE 61 CAPTIVE FLANGE |                 |             |      |      |       |       |      |      |       |       |      |      |          |
|------------------------|-----------------|-------------|------|------|-------|-------|------|------|-------|-------|------|------|----------|
| DRILLED PART NO.       | TAPPED PART NO. | FLANGE SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J    | K    | K UNC-2B |
| 8SFW-SS                | 8SFTW-SS        | .50         | 1.81 | 2.12 | .688  | 1.500 | .75  | .50  | 1.219 | .955  | .245 | .344 | 5/16-18  |
| 12SFW-SS               | 12SFTW-SS       | .75         | 2.06 | 2.56 | .875  | 1.875 | .88  | .56  | 1.531 | 1.265 | .245 | .406 | 3/8-16   |
| 16SFW-SS               | 16SFTW-SS       | 1.00        | 2.31 | 2.75 | 1.031 | 2.062 | .94  | .62  | 1.781 | 1.515 | .295 | .406 | 3/8-16   |
| 20SFW-SS               | 20SFTW-SS       | 1.25        | 2.88 | 3.12 | 1.188 | 2.312 | .88  | .56  | 2.031 | 1.720 | .295 | .469 | 7/16-14  |
| 24SFW-SS               | 24SFTW-SS       | 1.50        | 3.25 | 3.69 | 1.406 | 2.750 | 1.00 | .62  | 2.406 | 2.000 | .295 | .531 | 1/2-13   |
| 32SFW-SS               | 32SFTW-SS       | 2.00        | 3.81 | 4.00 | 1.688 | 3.062 | 1.03 | .62  | 2.844 | 2.470 | .355 | .531 | 1/2-13   |
| 40SFW-SS               | 40SFTW-SS       | 2.50        | 4.28 | 4.50 | 2.000 | 3.500 | 1.50 | .75  | 3.344 | 2.950 | .355 | .531 | 1/2-13   |
| 48SFW-SS               | 48SFTW-SS       | 3.00        | 5.16 | 5.31 | 2.438 | 4.188 | 1.62 | .88  | 4.031 | 3.580 | .355 | .656 | 5/8-11   |
| 56SFW-SS               | 56SFTW-SS       | 3.50        | 5.50 | 6.00 | 2.750 | 4.750 | 1.12 | .88  | 4.531 | 4.030 | .422 | .656 | 5/8-11   |
| 64SFW-SS               | 64SFTW-SS       | 4.00        | 6.00 | 6.38 | 3.062 | 5.125 | 1.38 | 1.00 | 5.031 | 4.530 | .422 | .656 | 5/8-11   |

| CODE 62 CAPTIVE FLANGE |                 |             |      |      |       |       |      |      |       |       |      |      |          |
|------------------------|-----------------|-------------|------|------|-------|-------|------|------|-------|-------|------|------|----------|
| DRILLED PART NO.       | TAPPED PART NO. | FLANGE SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J    | K    | K UNC-2B |
| 8SFXW-SS               | 8SFXTW-SS       | .50         | 1.86 | 2.22 | .718  | 1.594 | .88  | .62  | 1.281 | .970  | .285 | .344 | 5/16-18  |
| 12SFXW-SS              | 12SFXTW-SS      | .75         | 2.38 | 2.81 | .937  | 2.000 | 1.12 | .75  | 1.656 | 1.280 | .325 | .406 | 3/8-16   |
| 16SFXW-SS              | 16SFXTW-SS      | 1.00        | 2.75 | 3.19 | 1.093 | 2.250 | 1.31 | .94  | 1.906 | 1.530 | .355 | .469 | 7/16-14  |
| 20SFXW-SS              | 20SFXTW-SS      | 1.25        | 3.06 | 3.75 | 1.250 | 2.625 | 1.50 | 1.06 | 2.156 | 1.750 | .385 | .531 | 1/2-13   |
| 24SFXW-SS              | 24SFXTW-SS      | 1.50        | 3.75 | 4.44 | 1.437 | 3.125 | 1.69 | 1.19 | 2.531 | 2.030 | .475 | .656 | 5/8-11   |
| 32SFXW-SS              | 32SFXTW-SS      | 2.00        | 4.50 | 5.25 | 1.750 | 3.812 | 2.06 | 1.44 | 3.156 | 2.660 | .475 | .781 | 3/4-10   |

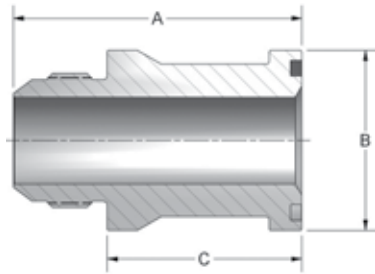
**ANCHOR  
FLUID POWER**

866-FLANGES | 513.527.4444 | Fax 513.527.4449

sales@anchorfluidpower.com | anchorfluidpower.com



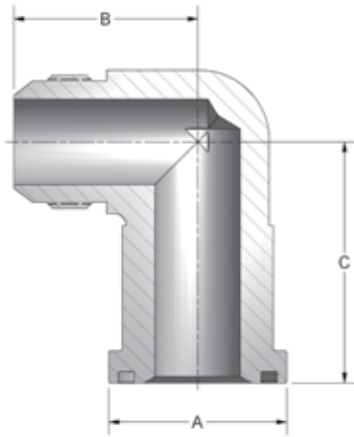
# Split Flange Adapters



| CODE 61 JIC THREAD |           |             |      |       |      |           |
|--------------------|-----------|-------------|------|-------|------|-----------|
| PART NO.           | TUBE O.D. | FLANGE SIZE | A    | B     | C    | THREAD    |
| 300-8-8-SS         | 1/2       | 1/2         | 2.60 | 1.188 | 1.94 | 3/4-16    |
| 300-12-12-SS       | 3/4       | 3/4         | 2.75 | 1.500 | 1.89 | 1 1/16-12 |
| 300-16-16-SS       | 1         | 1           | 2.80 | 1.750 | 1.89 | 1 5/16-12 |
| 300-20-20-SS       | 1 1/4     | 1 1/4       | 2.80 | 2.000 | 1.84 | 1 5/8-12  |
| 300-24-24-SS       | 1 1/2     | 1 1/2       | 3.50 | 2.375 | 2.42 | 1 7/8-12  |

For additional jump sizes, please consult factory.

| CODE 62 JIC THREAD |           |             |      |       |      |           |
|--------------------|-----------|-------------|------|-------|------|-----------|
| PART NO.           | TUBE O.D. | FLANGE SIZE | A    | B     | C    | THREAD    |
| 600-12-12-SS       | 3/4       | 3/4         | 2.75 | 1.625 | 1.89 | 1 1/16-12 |
| 600-16-16-SS       | 1         | 1           | 2.80 | 1.875 | 1.89 | 1 5/16-12 |
| 600-20-20-SS       | 1 1/4     | 1 1/4       | 3.05 | 2.125 | 2.09 | 1 5/8-12  |
| 600-24-24-SS       | 1 1/2     | 1 1/2       | 3.50 | 2.500 | 2.42 | 1 7/8-12  |

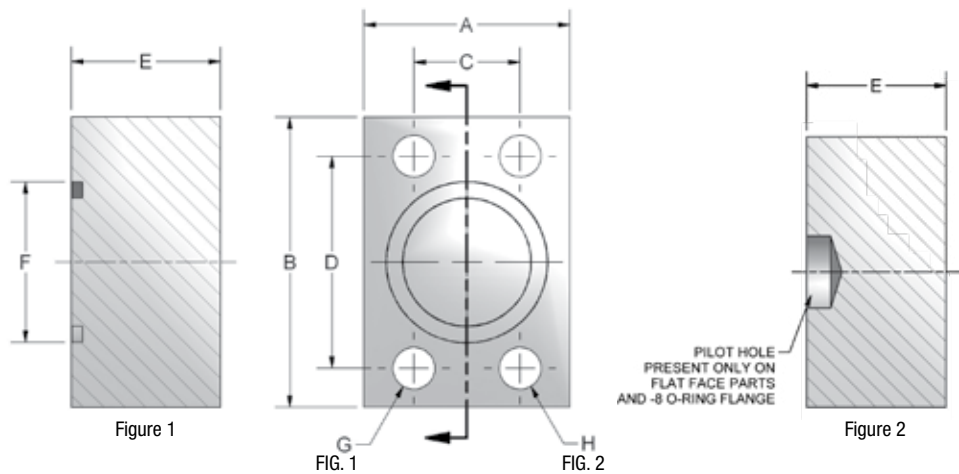


| CODE 61 90 DEGREE JIC THREAD |           |             |       |      |      |           |
|------------------------------|-----------|-------------|-------|------|------|-----------|
| PART NO.                     | TUBE O.D. | FLANGE SIZE | A     | B    | C    | THREAD    |
| 390-12-12-SS                 | 3/4       | 3/4         | 1.500 | 1.66 | 2.13 | 1 1/16-12 |
| 390-16-16-SS                 | 1         | 1           | 1.750 | 1.81 | 2.37 | 1 5/16-12 |
| 390-20-20-SS                 | 1 1/4     | 1 1/4       | 2.000 | 2.06 | 2.62 | 1 5/8-12  |
| 390-24-24-SS                 | 1 1/2     | 1 1/2       | 2.375 | 2.33 | 3.15 | 1 7/8-12  |

For additional jump sizes, please consult factory.

| CODE 62 90 DEGREE JIC THREAD |           |             |       |      |      |           |
|------------------------------|-----------|-------------|-------|------|------|-----------|
| PART NO.                     | TUBE O.D. | FLANGE SIZE | A     | B    | C    | THREAD    |
| 690-12-12-SS                 | 3/4       | 3/4         | 1.625 | 1.66 | 2.13 | 1 1/16-12 |
| 690-16-16-SS                 | 1         | 1           | 1.875 | 1.81 | 2.37 | 1 5/16-12 |
| 690-20-20-SS                 | 1 1/4     | 1 1/4       | 2.125 | 2.06 | 2.76 | 1 5/8-12  |
| 690-24-24-SS                 | 1 1/2     | 1 1/2       | 2.500 | 2.33 | 3.15 | 1 7/8-12  |

## Blanking



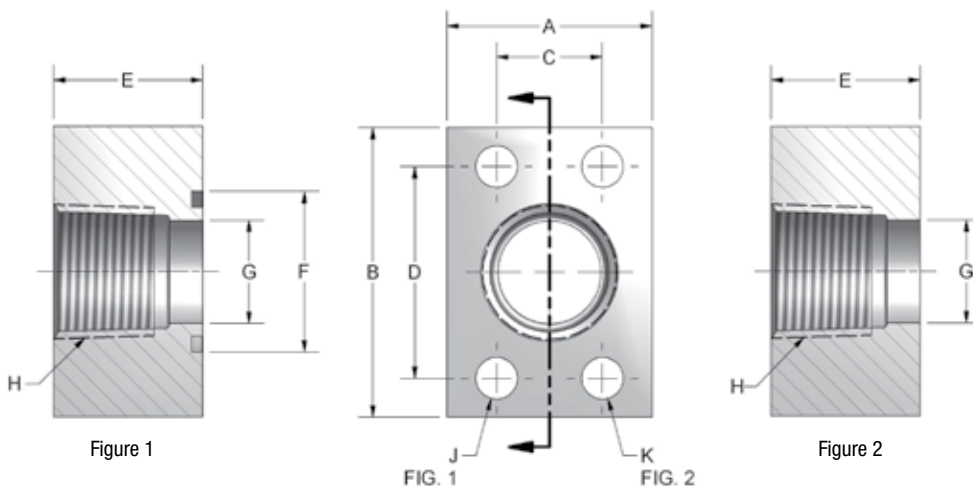
| CODE 61 BLANKING             |                                 |      |      |      |       |       |      |       |      |             |                      |              |
|------------------------------|---------------------------------|------|------|------|-------|-------|------|-------|------|-------------|----------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PAD  | A    | B    | C     | D     | E    | F     | G    | H<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|                              |                                 |      |      |      |       |       |      |       |      |             | O-RING               | SHCS         |
| W36-8-8-SS                   | W37-8-8-SS                      | .50  | 1.50 | 2.12 | .688  | 1.50  | 1.20 | 1.000 | .344 | 5/16-18     | 210                  | 5/16-18X2.00 |
| W36-12-12-SS                 | W37-12-12-SS                    | .75  | 1.75 | 2.62 | .875  | 1.875 | 1.20 | 1.250 | .406 | 3/8-16      | 214                  | 3/8-16X2.00  |
| W36-16-16-SS                 | W37-16-16-SS                    | 1.00 | 2.00 | 2.82 | 1.031 | 2.063 | 1.45 | 1.560 | .406 | 3/8-16      | 219                  | 3/8-16X2.25  |
| W36-20-20-SS                 | W37-20-20-SS                    | 1.25 | 2.50 | 3.19 | 1.188 | 2.313 | 1.45 | 1.750 | .469 | 7/16-14     | 222                  | 7/16-14X2.25 |
| W36-24-24-SS                 | W37-24-24-SS                    | 1.50 | 2.75 | 3.75 | 1.406 | 2.750 | 1.70 | 2.115 | .531 | 1/2-13      | 225                  | 1/2-13X2.50  |
| W36-32-32-SS                 | W37-32-32-SS                    | 2.00 | 3.25 | 4.00 | 1.688 | 3.063 | 1.70 | 2.490 | .531 | 1/2-13      | 228                  | 1/2-13X2.50  |
| W36-40-40-SS                 | W37-40-40-SS                    | 2.50 | 4.00 | 4.50 | 2.000 | 3.500 | 1.95 | 2.995 | .531 | 1/2-13      | 232                  | 1/2-13X2.75  |
| W36-48-48-SS                 | W37-48-48-SS                    | 3.00 | 4.50 | 5.31 | 2.438 | 4.188 | 2.20 | 3.615 | .656 | 5/8-11      | 237                  | 5/8-11X3.50  |
| W36-56-56-SS                 | W37-56-56-SS                    | 3.50 | 5.00 | 6.00 | 2.750 | 4.750 | 1.45 | 4.095 | .656 | 5/8-11      | 241                  | 5/8-11X2.75  |
| W36-64-64-SS                 | W37-64-64-SS                    | 4.00 | 5.50 | 6.38 | 3.062 | 5.125 | 1.45 | 4.595 | .656 | 5/8-11      | 245                  | 5/8-11X2.75  |

| CODE 62 BLANKING             |                                 |      |      |      |       |       |      |       |       |             |                      |              |
|------------------------------|---------------------------------|------|------|------|-------|-------|------|-------|-------|-------------|----------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PAD  | A    | B    | C     | D     | E    | F     | G     | H<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|                              |                                 |      |      |      |       |       |      |       |       |             | O-RING               | SHCS         |
| W38-8-8-SS                   | W39-8-8-SS                      | .50  | 1.75 | 2.22 | .718  | 1.594 | .94  | 1.000 | .344  | 5/16-18     | 210                  | 5/16-18X1.50 |
| W38-12-12-SS                 | W39-12-12-SS                    | .75  | 2.00 | 2.81 | .937  | 2.000 | 1.19 | 1.250 | .406  | 3/8-16      | 214                  | 3/8-16X2.00  |
| W38-16-16-SS                 | W39-16-16-SS                    | 1.00 | 2.25 | 3.19 | 1.093 | 2.250 | 1.44 | 1.560 | .492  | 7/16-14     | 219                  | 7/16-14X2.25 |
| W38-20-20-SS                 | W39-20-20-SS                    | 1.25 | 2.75 | 3.75 | 1.250 | 2.625 | 1.44 | 1.750 | .531  | 1/2-13      | 222                  | 1/2-13X2.50  |
| W38-24-24-SS                 | W39-24-24-SS                    | 1.50 | 3.25 | 4.50 | 1.437 | 3.125 | 1.69 | 2.115 | .656  | 5/8-11      | 225                  | 5/8-11X2.75  |
| W38-32-32-SS                 | W39-32-32-SS                    | 2.00 | 4.00 | 5.25 | 1.750 | 3.812 | 1.69 | 2.490 | .781  | 3/4-10      | 228                  | 3/4-10X3.00  |
| W38-40-40-SS                 | W39-40-40-SS                    | 2.50 | 5.00 | 6.88 | 2.311 | 4.874 | 1.94 | 2.995 | .906  | 7/8-9       | 232                  | 7/8-9X3.75   |
| W38-48-48-SS                 | W39-48-48-SS                    | 3.00 | 6.00 | 8.50 | 2.811 | 6.000 | 2.44 | 3.615 | 1.190 | 1 1/8-7     | 237                  | 1 1/8-7X4.50 |

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.



# NPTF Thread



| CODE 61 NPTF THREAD          |                                 |              |             |      |      |       |       |      |       |       |      |      |             |                      |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|-------|-------|------|------|-------------|----------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F     | G     | H    | J    | K<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|                              |                                 |              |             |      |      |       |       |      |       |       |      |      |             | O-RING               | SHCS         |
| W43-8-8-SS                   | W104-8-8-SS                     | .50          | .50         | 1.50 | 2.12 | .688  | 1.500 | 1.20 | 1.000 | .502  | .50  | .344 | 5/16-18     | 210                  | 5-16-18X1.75 |
| W43-12-12-SS                 | W104-12-12-SS                   | .75          | .75         | 1.75 | 2.62 | .875  | 1.875 | 1.20 | 1.250 | .752  | .75  | .406 | 3/8-16      | 214                  | 3/8-16X2.00  |
| W43-16-16-SS                 | W104-16-16-SS                   | 1.00         | 1.00        | 2.00 | 2.82 | 1.031 | 2.062 | 1.45 | 1.560 | 1.002 | 1.00 | .406 | 3/8-16      | 219                  | 3/8-16X2.25  |
| W43-20-20-SS                 | W104-20-20-SS                   | 1.25         | 1.25        | 2.50 | 3.19 | 1.188 | 2.312 | 1.45 | 1.750 | 1.252 | 1.25 | .469 | 7/16-14     | 222                  | 7/16-14X2.25 |
| W43-24-24-SS                 | W104-24-24-SS                   | 1.50         | 1.50        | 2.75 | 3.75 | 1.406 | 2.750 | 1.70 | 2.115 | 1.502 | 1.50 | .531 | 1/2-13      | 225                  | 1/2-13X2.50  |
| W43-32-32-SS                 | W104-32-32-SS                   | 2.00         | 2.00        | 3.25 | 4.00 | 1.688 | 3.062 | 1.70 | 2.490 | 2.002 | 2.00 | .531 | 1/2-13      | 228                  | 1/2-13X2.50  |
| W43-40-40-SS                 | W104-40-40-SS                   | 2.50         | 2.50        | 4.00 | 4.50 | 2.000 | 3.500 | 1.95 | 2.995 | 2.502 | 2.50 | .531 | 1/2-13      | 232                  | 1/2-13X2.75  |
| W43-48-48-SS                 | W104-48-48-SS                   | 3.00         | 3.00        | 4.50 | 5.31 | 2.438 | 4.188 | 2.20 | 3.615 | 3.002 | 3.00 | .656 | 5/8-11      | 237                  | 5/8-11X3.00  |

| CODE 62 NPTF THREAD          |                                 |              |             |      |      |       |       |      |       |       |      |      |             |                      |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|-------|-------|------|------|-------------|----------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F     | G     | H    | J    | K<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|                              |                                 |              |             |      |      |       |       |      |       |       |      |      |             | O-RING               | SHCS         |
| W44-8-8-SS                   | W45-8-8-SS                      | .50          | .50         | 1.75 | 2.22 | .718  | 1.594 | .95  | 1.000 | .502  | .50  | .344 | 5/16-18     | 210                  | 5/16-18X1.50 |
| W44-12-12-SS                 | W45-12-12-SS                    | .75          | .75         | 2.00 | 2.81 | .937  | 2.000 | 1.20 | 1.250 | .752  | .75  | .406 | 3/8-16      | 214                  | 3/8-16X2.00  |
| W44-16-16-SS                 | W45-16-16-SS                    | 1.00         | 1.00        | 2.25 | 3.19 | 1.093 | 2.250 | 1.45 | 1.560 | 1.002 | 1.00 | .492 | 7/16-14     | 219                  | 7/16-14X2.50 |
| W44-20-20-SS                 | W45-20-20-SS                    | 1.25         | 1.25        | 2.75 | 3.75 | 1.250 | 2.625 | 1.45 | 1.750 | 1.252 | 1.25 | .531 | 1/2-13      | 222                  | 1/2-13X2.25  |
| W44-24-24-SS                 | W45-24-24-SS                    | 1.50         | 1.50        | 3.25 | 4.50 | 1.437 | 3.125 | 1.70 | 2.115 | 1.502 | 1.50 | .656 | 5/8-11      | 225                  | 5/8-11X2.75  |
| W44-32-32-SS                 | W45-32-32-SS                    | 2.00         | 2.00        | 4.00 | 5.25 | 1.750 | 3.812 | 1.70 | 2.490 | 2.002 | 2.00 | .781 | 3/4-10      | 228                  | 3/4-10X3.00  |

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

## SAE Thread

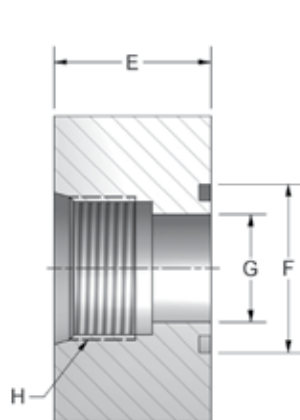


Figure 1

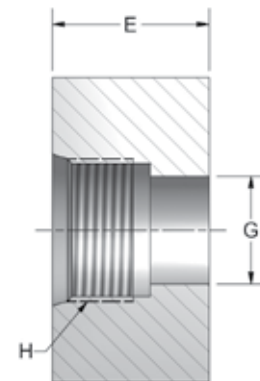
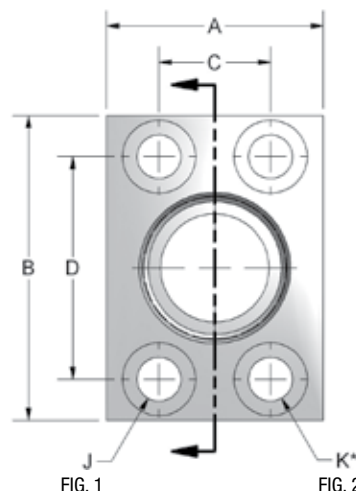


Figure 2

\*No Counterbore

### CODE 61 SAE STRAIGHT THREAD

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | TUBE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F     | G     | H         | J    | K<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|-------|-------|-----------|------|-------------|----------------------|--------------|
|                              |                                 |              |             |      |      |       |       |      |       |       |           |      |             | O-RING               | SHCS         |
| W46-8-8-SS                   | W106-8-8-SS                     | .50          | .50         | 1.50 | 2.12 | .688  | 1.500 | 1.20 | 1.000 | .502  | 3/4-16    | .344 | 5/16-18     | 210                  | 5-16-18X1.25 |
| W46-12-12-SS                 | W106-12-12-SS                   | .75          | .75         | 1.75 | 2.62 | .875  | 1.875 | 1.20 | 1.250 | .752  | 1 1/16-12 | .406 | 3/8-16      | 214                  | 3/8-16X1.50  |
| W46-16-16-SS                 | W106-16-16-SS                   | 1.00         | 1.00        | 2.00 | 2.82 | 1.031 | 2.062 | 1.45 | 1.560 | 1.002 | 1 5/16-12 | .406 | 3/8-16      | 219                  | 3/8-16X1.50  |
| W46-20-20-SS                 | W106-20-20-SS                   | 1.25         | 1.25        | 2.50 | 3.19 | 1.188 | 2.312 | 1.45 | 1.750 | 1.252 | 1 5/8-12  | .469 | 7/16-14     | 222                  | 7/16-14X1.75 |
| W46-24-24-SS                 | W106-24-24-SS                   | 1.50         | 1.50        | 2.75 | 3.75 | 1.406 | 2.750 | 1.70 | 2.115 | 1.502 | 1 7/8-12  | .531 | 1/2-13      | 225                  | 1/2-13X2.00  |
| *W46-32-32-SS                | W106-32-32-SS                   | 2.00         | 2.00        | 3.25 | 4.00 | 1.688 | 3.062 | 1.70 | 2.490 | 2.002 | 2 1/2-12  | .531 | 1/2-13      | 228                  | 1/2-13X2.00  |
| **W46-40-40-SS               | W106-40-40-SS                   | 2.50         | 2.50        | 4.00 | 4.50 | 2.00  | 3.50  | 1.95 | 3.000 | 2.500 | 3-12      | .530 | 1/2-13      | 232                  | 1/2-13X2.25  |
| **W46-48-48-SS               | W106-48-48-SS                   | 3.00         | 3.00        | 4.50 | 5.31 | 2.44  | 4.19  | 2.20 | 3.62  | 3.000 | 3 1/2-12  | .660 | 5/8-11      | 237                  | 5/8-11X2.25  |
| **W46-64-64-SS               | W106-64-64-SS                   | 4.00         | 4.00        | 5.50 | 6.38 | 3.06  | 5.13  | 1.45 | 4.60  | 4.000 | 4 1/2-12  | .660 | 5/8-11      | 245                  | 5/8-11X1.50  |

\*1000 PSI max for W46-32-32-SS

\*\*Consult Factory For Working Pressure

### CODE 62 SAE STRAIGHT THREAD

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | TUBE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F     | G     | H         | J    | K<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|-------|-------|-----------|------|-------------|----------------------|--------------|
|                              |                                 |              |             |      |      |       |       |      |       |       |           |      |             | O-RING               | SHCS         |
| W48-8-8-SS                   | W49-8-8-SS                      | .50          | .50         | 1.75 | 2.22 | .718  | 1.594 | .95  | 1.000 | .502  | 3/4-16    | .344 | 5/16-18     | 210                  | 5/16-18X1.25 |
| W48-12-12-SS                 | W49-12-12-SS                    | .75          | .75         | 2.00 | 2.81 | .937  | 2.000 | 1.20 | 1.250 | .752  | 1 1/16-12 | .406 | 3/8-16      | 214                  | 3/8-16X1.50  |
| W48-16-16-SS                 | W49-16-16-SS                    | 1.00         | 1.00        | 2.25 | 3.19 | 1.093 | 2.250 | 1.45 | 1.560 | 1.002 | 1 5/16-12 | .492 | 7/16-14     | 219                  | 7/16-14X1.75 |
| W48-20-20-SS                 | W49-20-20-SS                    | 1.25         | 1.25        | 2.75 | 3.75 | 1.250 | 2.625 | 1.45 | 1.750 | 1.252 | 1 5/8-12  | .531 | 1/2-13      | 222                  | 1/2-13X1.50  |
| W48-24-24-SS                 | W49-24-24-SS                    | 1.50         | 1.50        | 3.25 | 4.50 | 1.437 | 3.125 | 1.70 | 2.115 | 1.502 | 1 7/8-12  | .656 | 5/8-11      | 225                  | 5/8-11X2.00  |
| W48-32-32-SS                 | W49-32-32-SS                    | 2.00         | 2.00        | 4.00 | 5.25 | 1.750 | 3.812 | 1.70 | 2.490 | 2.002 | 2 1/2-12  | .781 | 3/4-10      | 228                  | 3/4-10X2.00  |

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.



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# Flat Socket Weld Pipe

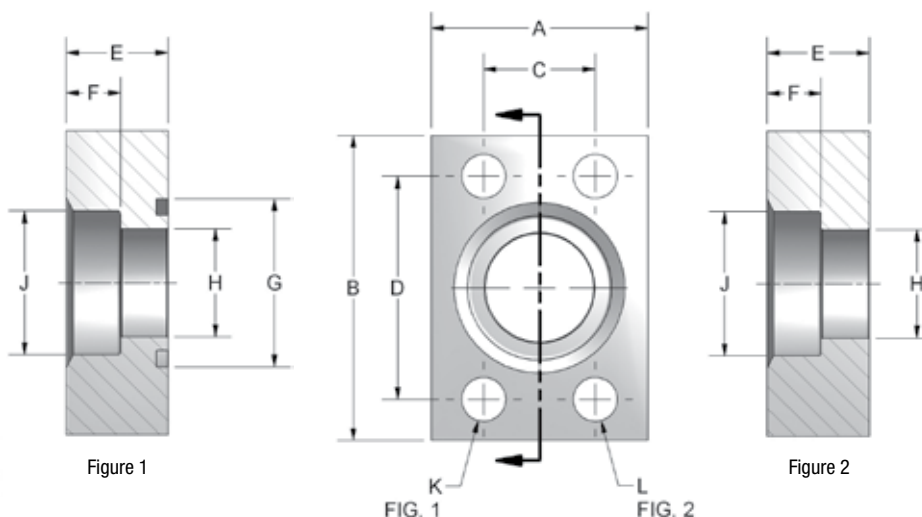


Figure 1

FIG. 1

FIG. 2

Figure 2

## CODE 61 FLAT SOCKET WELD - PIPE

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J     | K    | L<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|------|-------|-------|-------|------|-------------|----------------------|--------------|
|                              |                                 |              |             |      |      |       |       |      |      |       |       |       |      |             | O-RING               | SHCS         |
| W4-8-8-SS                    | W61-8-8-SS                      | .50          | .50         | 1.50 | 2.12 | .688  | 1.500 | .69  | .38  | 1.000 | .502  | .860  | .344 | 5/16-18     | 210                  | 5/16-18X1.25 |
| W4-12-12-SS                  | W61-12-12-SS                    | .75          | .75         | 1.75 | 2.62 | .875  | 1.875 | .94  | .50  | 1.250 | .752  | 1.070 | .406 | 3/8-16      | 214                  | 3/8-16X1.75  |
| W4-16-16-SS                  | W61-16-16-SS                    | 1.00         | 1.00        | 2.00 | 2.82 | 1.031 | 2.062 | .94  | .50  | 1.560 | 1.002 | 1.335 | .406 | 3/8-16      | 219                  | 3/8-16X1.75  |
| W4-20-20-SS                  | W61-20-20-SS                    | 1.25         | 1.25        | 2.50 | 3.19 | 1.188 | 2.312 | .94  | .50  | 1.750 | 1.252 | 1.680 | .469 | 7/16-14     | 222                  | 7/16-14X1.75 |
| W4-24-24-SS                  | W61-24-24-SS                    | 1.50         | 1.50        | 2.75 | 3.75 | 1.406 | 2.750 | 1.19 | .50  | 2.115 | 1.502 | 1.920 | .531 | 1/2-13      | 225                  | 1/2-13X2.25  |
| W4-32-32-SS                  | W61-32-32-SS                    | 2.00         | 2.00        | 3.25 | 4.00 | 1.688 | 3.062 | 1.44 | .62  | 2.490 | 2.002 | 2.411 | .531 | 1/2-13      | 228                  | 1/2-13X2.50  |
| W4-40-40-SS                  | W61-40-40-SS                    | 2.50         | 2.50        | 4.00 | 4.50 | 2.000 | 3.500 | 1.69 | .75  | 2.995 | 2.502 | 2.911 | .531 | 1/2-13      | 232                  | 1/2-13X2.75  |
| W4-48-48-SS                  | W61-48-48-SS                    | 3.00         | 3.00        | 4.50 | 5.31 | 2.438 | 4.188 | 2.12 | 1.24 | 3.615 | 3.002 | 3.540 | .656 | 5/8-11      | 237                  | 5/8-11X3.50  |

## CODE 62 FLAT SOCKET WELD - PIPE

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F   | G     | H     | J     | K     | L<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|-----|-------|-------|-------|-------|-------------|----------------------|--------------|
|                              |                                 |              |             |      |      |       |       |      |     |       |       |       |       |             | O-RING               | SHCS         |
| W59-8-8-SS                   | W60-8-8-SS                      | .50          | .50         | 1.75 | 2.22 | .718  | 1.594 | .940 | .50 | 1.000 | .502  | .860  | .344  | 5/16-18     | 210                  | 5/16-18X1.50 |
| W59-12-12-SS                 | W60-12-12-SS                    | .75          | .75         | 2.00 | 2.81 | .937  | 2.000 | .940 | .50 | 1.250 | .752  | 1.070 | .406  | 3/8-16      | 214                  | 3/8-16X1.75  |
| W59-16-16-SS                 | W60-16-16-SS                    | 1.00         | 1.00        | 2.25 | 3.19 | 1.093 | 2.250 | .940 | .50 | 1.560 | 1.002 | 1.335 | .492  | 7/16-14     | 219                  | 7/16-14X1.75 |
| W59-20-20-SS                 | W60-20-20-SS                    | 1.25         | 1.25        | 2.75 | 3.75 | 1.250 | 2.625 | 1.19 | .50 | 1.750 | 1.252 | 1.672 | .531  | 1/2-13      | 222                  | 1/2-13X2.25  |
| W59-24-24-SS                 | W60-24-24-SS                    | 1.50         | 1.50        | 3.25 | 4.50 | 1.437 | 3.125 | 1.44 | .50 | 2.115 | 1.502 | 1.920 | .656  | 5/8-11      | 225                  | 5/8-11X2.75  |
| W59-32-32-SS                 | W60-32-32-SS                    | 2.00         | 2.00        | 4.00 | 5.25 | 1.750 | 3.812 | 1.69 | .62 | 2.490 | 2.002 | 2.411 | .781  | 3/4-10      | 228                  | 3/4-10X3.00  |
| W59-40-40-SS                 | W60-40-40-SS                    | 2.50         | 2.50        | 5.00 | 6.88 | 2.311 | 4.874 | 1.94 | .62 | 2.995 | 2.502 | 2.911 | .906  | 7/8-9       | 232                  | 7/8-9X3.50   |
| W59-48-48-SS                 | W60-48-48-SS                    | 3.00         | 3.00        | 6.00 | 8.50 | 2.811 | 6.000 | 2.44 | .62 | 3.615 | 3.002 | 3.540 | 1.190 | 1-1/8-7     | 237                  | 1-1/8-7X4.50 |

## CODE 61 FLAT SOCKET WELD - PIPE - ALL SIZES 500 PSI

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E     | F    | G     | H     | J     | K    | L<br>UNC-2B | MOUNTING<br>HARDWARE |             |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|-------|------|-------|-------|-------|------|-------------|----------------------|-------------|
|                              |                                 |              |             |      |      |       |       |       |      |       |       |       |      |             | O-RING               | SHCS        |
| W72-48-48-SS                 | W91-48-48-SS                    | 3.00         | 3.00        | 4.50 | 5.31 | 2.438 | 4.188 | 1.38  | 1.13 | 3.615 | 3.002 | 3.540 | .656 | 5/8-11      | 237                  | 5/8-11X2.50 |
| W72-56-56-SS                 | W91-56-56-SS                    | 3.50         | 3.50        | 5.00 | 6.00 | 2.750 | 4.750 | 1.44  | 1.19 | 4.095 | 3.502 | 4.054 | .656 | 5/8-11      | 241                  | 5/8-11X2.50 |
| W72-64-64-SS                 | W91-64-64-SS                    | 4.00         | 4.00        | 5.50 | 6.38 | 3.062 | 5.125 | 1.450 | 1.20 | 4.595 | 4.002 | 4.550 | .656 | 5/8-11      | 245                  | 5/8-11X2.50 |

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

# Deep Socket Weld Pipe

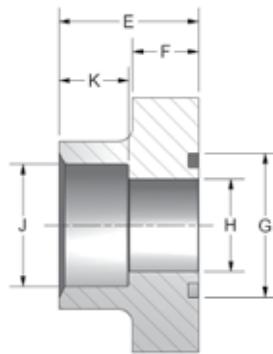


Figure 1

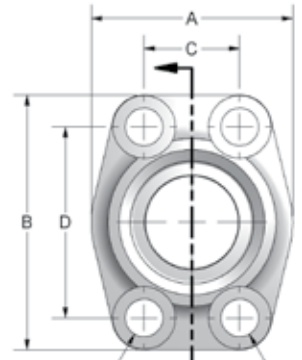


FIG. 1

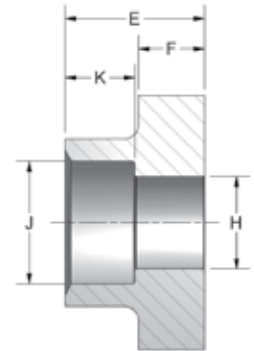


Figure 2

## CODE 61 DEEP SOCKET WELD - PIPE

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J     | K    | L    | M<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|------|-------|-------|-------|------|------|-------------|----------------------|--------------|
|                              |                                 |              |             |      |      |       |       |      |      |       |       |       |      |      |             | O-RING               | SHCS         |
| W31-8-8-SS                   | W3-8-8-SS                       | .50          | .50         | 1.81 | 2.13 | .688  | 1.500 | 1.42 | .63  | 1.000 | .502  | .855  | .75  | .344 | 5/16-18     | 210                  | 5/16-18X1.25 |
| W31-12-12-SS                 | W3-12-12-SS                     | .75          | .75         | 1.97 | 2.56 | .875  | 1.875 | 1.42 | .71  | 1.250 | .752  | 1.062 | .75  | .406 | 3/8-16      | 214                  | 3/8-16X1.50  |
| W31-16-16-SS                 | W3-16-16-SS                     | 1.00         | 1.00        | 2.17 | 2.75 | 1.031 | 2.062 | 1.50 | .71  | 1.560 | 1.002 | 1.328 | .75  | .406 | 3/8-16      | 219                  | 3/8-16X1.50  |
| W31-20-20-SS                 | W3-20-20-SS                     | 1.25         | 1.25        | 2.68 | 3.12 | 1.188 | 2.312 | 1.61 | .83  | 1.750 | 1.252 | 1.672 | .87  | .469 | 7/16-14     | 222                  | 7/16-14X1.75 |
| W31-24-24-SS                 | W3-24-24-SS                     | 1.50         | 1.50        | 3.07 | 3.66 | 1.406 | 2.750 | 1.77 | .98  | 2.115 | 1.502 | 1.922 | .94  | .531 | 1/2-13      | 225                  | 1/2-13X1.75  |
| W31-32-32-SS                 | W3-32-32-SS                     | 2.00         | 2.00        | 3.54 | 4.00 | 1.688 | 3.062 | 1.77 | .98  | 2.490 | 2.002 | 2.406 | 1.02 | .531 | 1/2-13      | 228                  | 1/2-13X1.75  |
| W31-40-40-SS                 | W3-40-40-SS                     | 2.50         | 2.50        | 4.09 | 4.49 | 2.000 | 3.500 | 1.97 | .98  | 2.995 | 2.502 | 2.908 | 1.18 | .531 | 1/2-13      | 232                  | 1/2-13X1.75  |
| W31-48-48-SS                 | W3-48-48-SS                     | 3.00         | 3.00        | 4.88 | 5.28 | 2.438 | 4.188 | 1.97 | 1.06 | 3.615 | 3.002 | 3.547 | 1.34 | .656 | 5/8-11      | 237                  | 5/8-11X2.00  |

## CODE 62 DEEP SOCKET WELD - PIPE

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J     | K    | L    | M<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|------|-------|-------|-------|------|------|-------------|----------------------|--------------|
|                              |                                 |              |             |      |      |       |       |      |      |       |       |       |      |      |             | O-RING               | SHCS         |
| W81-8-8-SS                   | W80-8-8-SS                      | .50          | .50         | 1.81 | 2.21 | .718  | 1.594 | 1.42 | .63  | 1.000 | .502  | .855  | .75  | .344 | 5/16-18     | 210                  | 5/16-18X1.25 |
| W81-12-12-SS                 | W80-12-12-SS                    | .75          | .75         | 2.17 | 2.80 | .937  | 2.000 | 1.38 | .83  | 1.250 | .752  | 1.062 | .87  | .406 | 3/8-16      | 214                  | 3/8-16X1.50  |
| W81-16-16-SS                 | W80-16-16-SS                    | 1.00         | 1.00        | 2.56 | 3.19 | 1.093 | 2.250 | 1.65 | .98  | 1.560 | 1.002 | 1.328 | .87  | .492 | 7/16-14     | 219                  | 7/16-14X1.75 |
| W81-20-20-SS                 | W80-20-20-SS                    | 1.25         | 1.25        | 3.07 | 3.75 | 1.250 | 2.625 | 1.77 | 1.06 | 1.750 | 1.252 | 1.672 | .98  | .531 | 1/2-13      | 222                  | 1/2-13X1.75  |
| W81-24-24-SS                 | W80-24-24-SS                    | 1.50         | 1.50        | 3.70 | 4.41 | 1.437 | 3.125 | 1.97 | 1.18 | 2.115 | 1.502 | 1.922 | 1.10 | .656 | 5/8-11      | 225                  | 5/8-11X2.25  |
| W81-32-32-SS                 | W80-32-32-SS                    | 2.00         | 2.00        | 4.50 | 5.28 | 1.750 | 3.812 | 2.56 | 1.46 | 2.490 | 2.002 | 2.406 | .94  | .781 | 3/4-10      | 228                  | 3/4-10X2.75  |

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.



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# Butt Weld Pipe

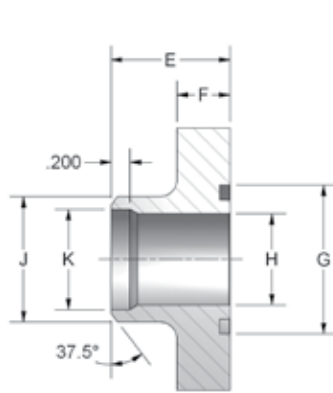
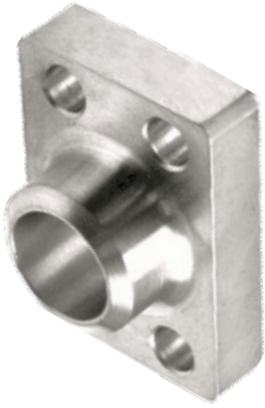


Figure 1

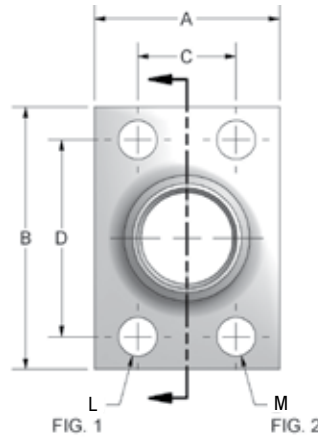


FIG. 1

FIG. 2

Figure 2

## CODE 61 BUTT WELD - SCHEDULE 40 PIPE

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J     | K     | L    | M<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|------|-------|-------|-------|-------|------|-------------|----------------------|--------------|
|                              |                                 |              |             |      |      |       |       |      |      |       |       |       |       |      |             | O-RING               | SHCS         |
| W35-8-SS                     | W34-8-SS                        | .50          | .50         | 1.47 | 2.09 | .688  | 1.500 | 1.06 | .50  | 1.000 | .548  | .840  | .624  | .344 | 5/16-18     | 210                  | 5/16-18X1.25 |
| W35-12-SS                    | W34-12-SS                       | .75          | .75         | 1.69 | 2.56 | .875  | 1.875 | 1.06 | .50  | 1.250 | .744  | 1.050 | .826  | .406 | 3/8-16      | 214                  | 3/8-16X1.25  |
| W35-16-SS                    | W34-16-SS                       | 1.00         | 1.00        | 1.94 | 2.75 | 1.031 | 2.062 | 1.25 | .56  | 1.560 | .959  | 1.315 | 1.051 | .406 | 3/8-16      | 219                  | 3/8-16X1.25  |
| W35-20-SS                    | W34-20-SS                       | 1.25         | 1.25        | 2.19 | 3.12 | 1.188 | 2.312 | 1.44 | .62  | 1.750 | 1.280 | 1.660 | 1.382 | .469 | 7/16-14     | 222                  | 7/16-14X1.50 |
| W35-24-SS                    | W34-24-SS                       | 1.50         | 1.50        | 2.56 | 3.69 | 1.406 | 2.750 | 1.75 | .81  | 2.115 | 1.502 | 1.900 | 1.612 | .531 | 1/2-13      | 225                  | 1/2-13X1.75  |
| W35-32-SS                    | W34-32-SS                       | 2.00         | 2.00        | 3.06 | 4.00 | 1.688 | 3.062 | 2.00 | 1.06 | 2.490 | 1.941 | 2.375 | 2.069 | .531 | 1/2-13      | 228                  | 1/2-13X2.00  |
| W35-40-SS                    | W34-40-SS                       | 2.50         | 2.50        | 3.56 | 4.50 | 2.000 | 3.500 | 2.31 | 1.12 | 2.995 | 2.325 | 2.875 | 2.471 | .531 | 1/2-13      | 232                  | 1/2-13X2.00  |
| W35-48-SS                    | W34-48-SS                       | 3.00         | 3.00        | 4.19 | 5.31 | 2.438 | 4.188 | 2.75 | 1.62 | 3.615 | 2.902 | 3.500 | 3.070 | .656 | 5/8-11      | 237                  | 5/8-11X2.75  |
| W35-56-SS                    | W34-56-SS                       | 3.50         | 3.50        | 5.00 | 6.00 | 2.750 | 4.750 | 1.50 | 1.00 | 4.095 | 3.366 | 4.000 | 3.550 | .656 | 5/8-11      | 241                  | 5/8-11X2.00  |
| W35-64-SS                    | W34-64-SS                       | 4.00         | 4.00        | 5.50 | 6.38 | 3.062 | 5.125 | 1.50 | 1.00 | 4.595 | 3.828 | 4.500 | 4.028 | .656 | 5/8-11      | 245                  | 5/8-11X2.00  |
| W35-80-SS                    | W34-80-SS                       | 5.00         | 5.00        | 7.00 | 7.25 | 3.625 | 6.000 | 2.00 | 1.25 | 5.595 | 4.81  | 5.62  | 5.078 | .660 | 5/8-11      | 253                  | 5/8-11X2.50  |

## CODE 61 BUTT WELD - SCHEDULE 80 PIPE

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J     | K                   | L    | M<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|------|-------|-------|-------|---------------------|------|-------------|----------------------|--------------|
|                              |                                 |              |             |      |      |       |       |      |      |       |       |       |                     |      |             | O-RING               | SHCS         |
| W24-8-SS                     | W23-8-SS                        | .50          | .50         | 1.50 | 2.12 | .688  | 1.500 | 1.06 | .50  | 1.000 | .546  | .840  | SCHEDULE 40<br>ONLY | .344 | 5/16-18     | 210                  | 5/16-18X1.25 |
| W24-12-SS                    | W23-12-SS                       | .75          | .75         | 1.69 | 2.56 | .875  | 1.875 | 1.06 | .50  | 1.250 | .752  | 1.050 |                     | .406 | 3/8-16      | 214                  | 3/8-16X1.25  |
| W24-16-SS                    | W23-16-SS                       | 1.00         | 1.00        | 1.94 | 2.75 | 1.031 | 2.062 | 1.25 | .56  | 1.560 | .959  | 1.315 |                     | .406 | 3/8-16      | 219                  | 3/8-16X1.25  |
| W24-20-SS                    | W23-20-SS                       | 1.25         | 1.25        | 2.19 | 3.12 | 1.188 | 2.312 | 1.44 | .62  | 1.750 | 1.280 | 1.660 |                     | .469 | 7/16-14     | 222                  | 7/16-14X1.50 |
| W24-24-SS                    | W23-24-SS                       | 1.50         | 1.50        | 2.56 | 3.69 | 1.406 | 2.750 | 1.75 | .81  | 2.115 | 1.502 | 1.900 |                     | .531 | 1/2-13      | 225                  | 1/2-13X1.75  |
| W24-32-SS                    | W23-32-SS                       | 2.00         | 2.00        | 3.06 | 4.00 | 1.688 | 3.062 | 2.00 | 1.06 | 2.490 | 1.941 | 2.375 |                     | .531 | 1/2-13      | 228                  | 1/2-13X2.00  |
| W24-40-SS                    | W23-40-SS                       | 2.50         | 2.50        | 3.56 | 4.50 | 2.000 | 3.500 | 2.31 | 1.12 | 2.995 | 2.325 | 2.875 |                     | .531 | 1/2-13      | 232                  | 1/2-13X2.00  |
| W24-48-SS                    | W23-48-SS                       | 3.00         | 3.00        | 4.19 | 5.31 | 2.438 | 4.188 | 2.75 | 1.62 | 3.615 | 2.902 | 3.500 |                     | .656 | 5/8-11      | 237                  | 5/8-11X2.75  |

## CODE 61 BUTT WELD - SCHEDULE 160 PIPE

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J     | K                   | L    | M<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|------|-------|-------|-------|---------------------|------|-------------|----------------------|--------------|
|                              |                                 |              |             |      |      |       |       |      |      |       |       |       |                     |      |             | O-RING               | SHCS         |
| W27-8-SS                     | W25-8-SS                        | .50          | .50         | 1.50 | 2.12 | .688  | 1.500 | 1.06 | .50  | 1.000 | .466  | .840  | SCHEDULE 40<br>ONLY | .344 | 5/16-18     | 210                  | 5/16-18X1.25 |
| W27-12-SS                    | W25-12-SS                       | .75          | .75         | 1.69 | 2.56 | .875  | 1.875 | 1.06 | .50  | 1.250 | .616  | 1.050 |                     | .406 | 3/8-16      | 214                  | 3/8-16X1.25  |
| W27-16-SS                    | W25-16-SS                       | 1.00         | 1.00        | 1.94 | 2.75 | 1.031 | 2.062 | 1.25 | .56  | 1.560 | .817  | 1.315 |                     | .406 | 3/8-16      | 219                  | 3/8-16X1.25  |
| W27-20-SS                    | W25-20-SS                       | 1.25         | 1.25        | 2.19 | 3.12 | 1.188 | 2.312 | 1.44 | .62  | 1.750 | 1.162 | 1.660 |                     | .469 | 7/16-14     | 222                  | 7/16-14X1.50 |
| W27-24-SS                    | W25-24-SS                       | 1.50         | 1.50        | 2.56 | 3.69 | 1.406 | 2.750 | 1.75 | .81  | 2.115 | 1.339 | 1.900 |                     | .531 | 1/2-13      | 225                  | 1/2-13X1.75  |
| W27-32-SS                    | W25-32-SS                       | 2.00         | 2.00        | 3.06 | 4.00 | 1.688 | 3.062 | 2.00 | 1.06 | 2.490 | 1.691 | 2.375 |                     | .531 | 1/2-13      | 228                  | 1/2-13X2.00  |
| W27-40-SS                    | W25-40-SS                       | 2.50         | 2.50        | 3.56 | 4.50 | 2.000 | 3.500 | 2.31 | 1.12 | 2.995 | 2.127 | 2.875 |                     | .531 | 1/2-13      | 232                  | 1/2-13X2.00  |
| W27-48-SS                    | W25-48-SS                       | 3.00         | 3.00        | 4.19 | 5.31 | 2.438 | 4.188 | 2.75 | 1.62 | 3.615 | 2.626 | 3.500 |                     | .656 | 5/8-11      | 237                  | 5/8-11X2.75  |

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

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# Butt Weld Pipe

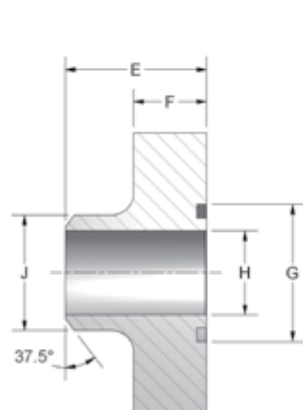
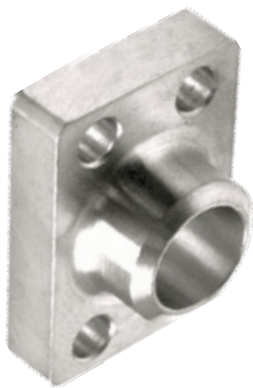


Figure 1

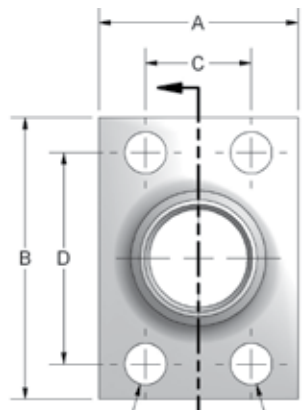


FIG. 1

FIG. 2

Figure 2

## CODE 62 BUTT WELD - SCHEDULE 80 PIPE

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J     | K     | L<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|------|-------|-------|-------|-------|-------------|----------------------|--------------|
|                              |                                 |              |             |      |      |       |       |      |      |       |       |       |       |             | O-RING               | SHCS         |
| W28-8-SS                     | W26-8-SS                        | .50          | .50         | 1.75 | 2.22 | .718  | 1.594 | 1.25 | .776 | 1.000 | .548  | .840  | .344  | 5/16-18     | 210                  | 5/16-18X1.50 |
| W28-12-SS                    | W26-12-SS                       | .75          | .75         | 1.94 | 2.81 | .937  | 2.000 | 1.42 | .83  | 1.250 | .744  | 1.050 | .406  | 3/8-16      | 214                  | 3/8-16X1.50  |
| W28-16-SS                    | W26-16-SS                       | 1.00         | 1.00        | 2.18 | 3.19 | 1.093 | 2.250 | 1.61 | .83  | 1.560 | .959  | 1.315 | .492  | 7/16-14     | 219                  | 7/16-14X1.50 |
| W28-20-SS                    | W26-20-SS                       | 1.25         | 1.25        | 2.44 | 3.75 | 1.250 | 2.625 | 1.73 | .94  | 1.750 | 1.280 | 1.660 | .531  | 1/2-13      | 222                  | 1/2-13X2.00  |
| W28-24-SS                    | W26-24-SS                       | 1.50         | 1.50        | 2.81 | 4.44 | 1.437 | 3.125 | 2.17 | 1.10 | 2.115 | 1.502 | 1.900 | .656  | 5/8-11      | 225                  | 5/8-11X2.25  |
| W28-32-SS                    | W26-32-SS                       | 2.00         | 2.00        | 3.44 | 5.25 | 1.750 | 3.812 | 2.48 | 1.46 | 2.490 | 1.941 | 2.375 | .781  | 3/4-10      | 228                  | 3/4-10X3.00  |
| W28-40-SS                    | W26-40-SS                       | 2.50         | 2.50        | 5.00 | 6.88 | 2.311 | 4.874 | 2.37 | 1.50 | 2.995 | 2.325 | 2.875 | .940  | 7/8-9       | 232                  | 7/8-9X3.00   |
| W28-48-SS                    | W26-48-SS                       | 3.00         | 3.00        | 6.00 | 8.50 | 2.811 | 6.000 | 2.96 | 2.00 | 3.615 | 2.902 | 3.500 | 1.190 | 1-1/8-7     | 237                  | 1-1/8-7X4.00 |

## CODE 62 BUTT WELD - SCHEDULE 160 PIPE

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J     | K     | L<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|------|-------|-------|-------|-------|-------------|----------------------|--------------|
|                              |                                 |              |             |      |      |       |       |      |      |       |       |       |       |             | O-RING               | SHCS         |
| W30-12-SS                    | W29-12-SS                       | .75          | .75         | 1.94 | 2.81 | .937  | 2.000 | 1.42 | .83  | 1.250 | .616  | 1.050 | .406  | 3/8-16      | 214                  | 3/8-16X1.50  |
| W30-16-SS                    | W29-16-SS                       | 1.00         | 1.00        | 2.18 | 3.19 | 1.093 | 2.250 | 1.61 | .83  | 1.560 | .817  | 1.315 | .492  | 7/16-14     | 219                  | 7/16-14X1.50 |
| W30-20-SS                    | W29-20-SS                       | 1.25         | 1.25        | 2.44 | 3.75 | 1.250 | 2.625 | 1.73 | .94  | 1.750 | 1.162 | 1.660 | .531  | 1/2-13      | 222                  | 1/2-13X2.00  |
| W30-24-SS                    | W29-24-SS                       | 1.50         | 1.50        | 2.81 | 4.44 | 1.437 | 3.125 | 2.17 | 1.10 | 2.115 | 1.339 | 1.900 | .656  | 5/8-11      | 225                  | 5/8-11X2.25  |
| W30-32-SS                    | W29-32-SS                       | 2.00         | 2.00        | 3.44 | 5.25 | 1.750 | 3.812 | 2.48 | 1.46 | 2.490 | 1.691 | 2.375 | .781  | 3/4-10      | 228                  | 3/4-10X3.00  |
| W30-40-SS                    | W29-40-SS                       | 2.50         | 2.50        | 5.00 | 6.88 | 2.311 | 4.874 | 2.37 | 1.50 | 2.995 | 2.127 | 2.875 | .940  | 7/8-9       | 232                  | 7/8-9X3.00   |
| W30-48-SS                    | W29-48-SS                       | 3.00         | 3.00        | 6.00 | 8.50 | 2.811 | 6.000 | 2.96 | 2.00 | 3.615 | 2.626 | 3.500 | 1.190 | 1-1/8-7     | 237                  | 1-1/8-7X4.00 |

## CODE 62 BUTT WELD - SCHEDULE XXS PIPE

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J     | K     | L<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|------|-------|-------|-------|-------|-------------|----------------------|--------------|
|                              |                                 |              |             |      |      |       |       |      |      |       |       |       |       |             | O-RING               | SHCS         |
| W33-12-SS                    | W32-12-SS                       | .75          | .75         | 1.94 | 2.81 | .937  | 2.000 | 1.42 | .83  | 1.250 | .436  | 1.050 | .406  | 3/8-16      | 214                  | 3/8-16X1.50  |
| W33-16-SS                    | W32-16-SS                       | 1.00         | 1.00        | 2.18 | 3.19 | 1.093 | 2.250 | 1.61 | .83  | 1.560 | .601  | 1.315 | .492  | 7/16-14     | 219                  | 7/16-14X1.50 |
| W33-20-SS                    | W32-20-SS                       | 1.25         | 1.25        | 2.44 | 3.75 | 1.250 | 2.625 | 1.73 | .94  | 1.750 | .898  | 1.660 | .531  | 1/2-13      | 222                  | 1/2-13X2.00  |
| W33-24-SS                    | W32-24-SS                       | 1.50         | 1.50        | 2.81 | 4.44 | 1.437 | 3.125 | 2.17 | 1.10 | 2.115 | 1.102 | 1.900 | .656  | 5/8-11      | 225                  | 5/8-11X2.25  |
| W33-32-SS                    | W32-32-SS                       | 2.00         | 2.00        | 3.44 | 5.25 | 1.750 | 3.812 | 2.48 | 1.46 | 2.490 | 1.505 | 2.375 | .781  | 3/4-10      | 228                  | 3/4-10X3.00  |
| W33-40-SS                    | W32-40-SS                       | 2.50         | 2.50        | 5.00 | 6.88 | 2.311 | 4.874 | 2.37 | 1.50 | 2.995 | 1.773 | 2.875 | .940  | 7/8-9       | 232                  | 7/8-9X3.00   |
| W33-48-SS                    | W32-48-SS                       | 3.00         | 3.00        | 6.00 | 8.50 | 2.811 | 6.000 | 2.96 | 2.00 | 3.615 | 2.302 | 3.500 | 1.190 | 1-1/8-7     | 237                  | 1-1/8-7X4.00 |

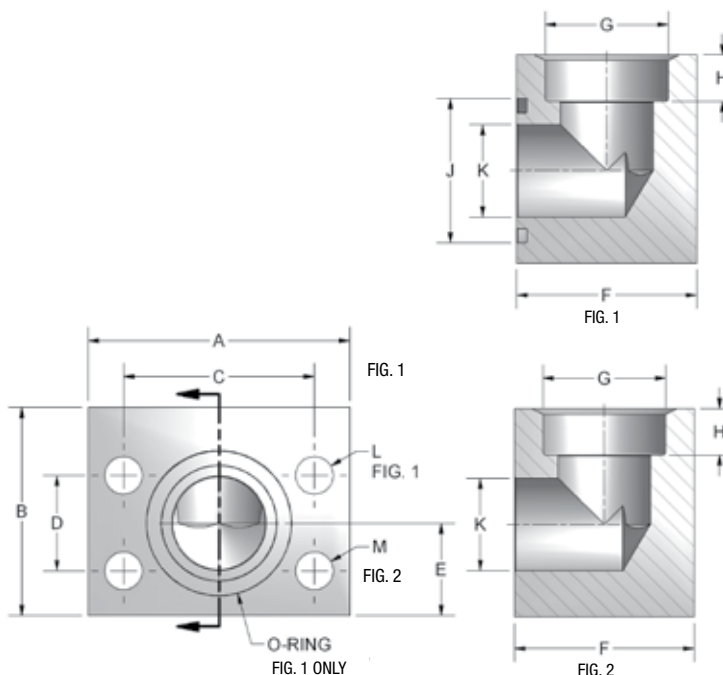
Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

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**866-FLANGES | 513.527.4444 | Fax 513.527.4449**

[sales@anchorfluidpower.com](mailto:sales@anchorfluidpower.com) | [anchorfluidpower.com](http://anchorfluidpower.com)

# Socket Weld Pipe Elbow


**CODE 61 ELBOW SOCKET WELD - PIPE**

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H    | J     | K    | L    | M<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|------|-------|------|-------|------|------|-------------|----------------------|--------------|
|                              |                                 |              |             |      |      |       |       |      |      |       |      |       |      |      |             | O-RING               | SHCS         |
| W176-8-8-SS                  | W169-8-8-SS                     | .50          | .50         | 2.12 | 1.75 | 1.500 | .688  | .75  | 1.44 | .855  | .380 | 1.000 | .50  | .344 | 5/16-18     | 210                  | 5/16-18X2.00 |
| W176-12-12-SS                | W169-12-12-SS                   | .75          | .75         | 2.62 | 2.00 | 1.875 | .875  | .88  | 1.70 | 1.062 | .500 | 1.250 | .75  | .406 | 3/8-16      | 214                  | 3/8-16X2.50  |
| W176-16-16-SS                | W169-16-16-SS                   | 1.00         | 1.00        | 2.82 | 2.25 | 2.062 | 1.031 | 1.00 | 1.94 | 1.328 | .500 | 1.560 | 1.00 | .406 | 3/8-16      | 219                  | 3/8-16X2.75  |
| W176-20-20-SS                | W169-20-20-SS                   | 1.25         | 1.25        | 3.19 | 2.75 | 2.312 | 1.188 | 1.25 | 2.40 | 1.672 | .500 | 1.750 | 1.25 | .469 | 7/16-14     | 222                  | 7/16-14X3.00 |
| W176-24-24-SS                | W169-24-24-SS                   | 1.50         | 1.50        | 3.75 | 3.00 | 2.750 | 1.406 | 1.38 | 2.90 | 1.922 | .500 | 2.115 | 1.50 | .531 | 1/2-13      | 225                  | 1/2-13X4.00  |
| W176-32-32-SS                | W169-32-32-SS                   | 2.00         | 2.00        | 4.00 | 3.50 | 3.062 | 1.688 | 1.62 | 3.40 | 2.406 | .500 | 2.490 | 2.00 | .531 | 1/2-13      | 228                  | 1/2-13X4.50  |
| W176-40-40-SS                | W169-40-40-SS                   | 2.50         | 2.50        | 4.50 | 4.00 | 3.500 | 2.000 | 2.00 | 3.96 | 2.906 | .500 | 2.995 | 2.50 | .531 | 1/2-13      | 232                  | 1/2-13X5.00  |
| W176-48-48-SS                | W169-48-48-SS                   | 3.00         | 3.00        | 5.31 | 5.00 | 4.188 | 2.438 | 2.25 | 4.96 | 3.547 | .625 | 3.615 | 3.00 | .656 | 5/8-11      | 237                  | 5/8-11X6.00  |

**CODE 62 ELBOW SOCKET WELD - PIPE**

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H    | J     | K    | L    | M<br>UNC-2B | MOUNTING<br>HARDWARE |              |
|------------------------------|---------------------------------|--------------|-------------|------|------|-------|-------|------|------|-------|------|-------|------|------|-------------|----------------------|--------------|
|                              |                                 |              |             |      |      |       |       |      |      |       |      |       |      |      |             | O-RING               | SHCS         |
| W186-8-8-SS                  | W189-8-8-SS                     | .50          | .50         | 2.22 | 2.00 | 1.594 | .718  | .88  | 1.46 | .860  | .380 | 1.000 | .50  | .344 | 5/16-18     | 210                  | 5/16-18X2.25 |
| W186-12-12-SS                | W189-12-12-SS                   | .75          | .75         | 2.81 | 2.25 | 2.000 | .937  | 1.00 | 1.70 | 1.062 | .500 | 1.250 | .75  | .406 | 3/8-16      | 214                  | 3/8-16X2.50  |
| W186-16-16-SS                | W189-16-16-SS                   | 1.00         | 1.00        | 3.19 | 2.50 | 2.250 | 1.093 | 1.12 | 2.21 | 1.328 | .500 | 1.560 | 1.00 | .492 | 7/16-14     | 219                  | 7/16-14X3.25 |
| W186-20-20-SS                | W189-20-20-SS                   | 1.25         | 1.25        | 3.75 | 3.00 | 2.625 | 1.250 | 1.38 | 2.44 | 1.672 | .500 | 1.750 | 1.25 | .531 | 1/2-13      | 222                  | 1/2-13X3.25  |
| W186-24-24-SS                | W189-24-24-SS                   | 1.50         | 1.50        | 4.50 | 3.50 | 3.125 | 1.437 | 1.62 | 2.96 | 1.922 | .500 | 2.115 | 1.50 | .656 | 5/8-11      | 225                  | 5/8-11X4.00  |
| W186-32-32-SS                | W189-32-32-SS                   | 2.00         | 2.00        | 5.25 | 4.00 | 3.812 | 1.750 | 2.00 | 3.46 | 2.406 | .500 | 2.490 | 2.00 | .781 | 3/4-10      | 228                  | 3/4-10X5.00  |

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

# Elbow Block

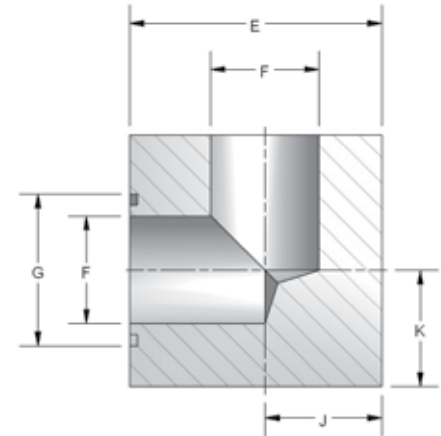


FIG. 1

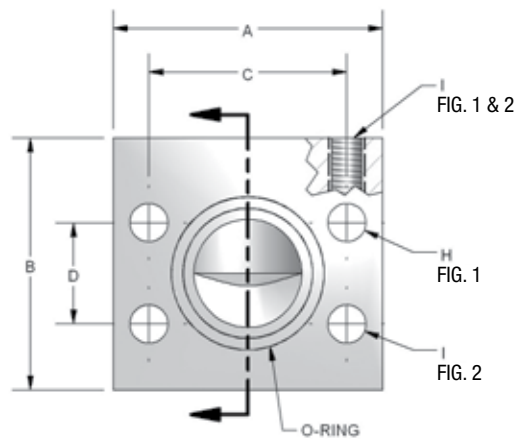


FIG. 1 ONLY

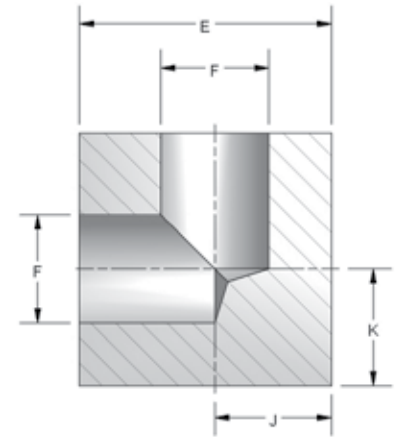


FIG. 2

## CODE 61 ELBOW BLOCK

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H    | I<br>UNC-2B | J    | K    | MOUNTING HARDWARE |              |
|------------------------------|---------------------------------|-------------|------|------|-------|-------|------|------|-------|------|-------------|------|------|-------------------|--------------|
|                              |                                 |             |      |      |       |       |      |      |       |      |             |      |      | O-RING            | SHCS         |
| W14-12-SS                    | W15-12-SS                       | .75         | 2.62 | 2.50 | 1.875 | .875  | 2.25 | .75  | 1.250 | .406 | 3/8-16      | 1.03 | 1.03 | 214               | 3/8-16X3.00  |
| W14-16-SS                    | W15-16-SS                       | 1.00        | 2.82 | 2.50 | 2.062 | 1.031 | 2.50 | 1.00 | 1.560 | .406 | 3/8-16      | 1.16 | 1.09 | 219               | 3/8-16X3.25  |
| W14-20-SS                    | W15-20-SS                       | 1.25        | 3.19 | 3.00 | 2.312 | 1.188 | 3.00 | 1.25 | 1.750 | .469 | 7/16-14     | 1.44 | 1.31 | 222               | 7/16-14X4.00 |
| W14-24-SS                    | W15-24-SS                       | 1.50        | 3.75 | 3.50 | 2.750 | 1.406 | 3.50 | 1.50 | 2.115 | .531 | 1/2-13      | 1.62 | 1.62 | 225               | 1/2-13X4.50  |
| W14-32-SS                    | W15-32-SS                       | 2.00        | 4.00 | 4.00 | 3.062 | 1.688 | 4.00 | 2.00 | 2.490 | .531 | 1/2-13      | 1.91 | 1.91 | 228               | 1/2-13X5.00  |

## CODE 62 ELBOW BLOCK

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H    | I<br>UNC-2B | J    | K    | MOUNTING HARDWARE |              |
|------------------------------|---------------------------------|-------------|------|------|-------|-------|------|------|-------|------|-------------|------|------|-------------------|--------------|
|                              |                                 |             |      |      |       |       |      |      |       |      |             |      |      | O-RING            | SHCS         |
| W12-12-SS                    | W13-12-SS                       | .75         | 2.82 | 2.50 | 2.000 | .937  | 2.50 | .750 | 1.250 | .406 | 3/8-16      | 1.19 | 1.06 | 214               | 3/8-16X3.50  |
| W12-16-SS                    | W13-16-SS                       | 1.00        | 3.19 | 3.00 | 2.250 | 1.093 | 3.00 | 1.00 | 1.560 | .469 | 7/16-14     | 1.38 | 1.38 | 219               | 7/16-14X4.00 |
| W12-20-SS                    | W13-20-SS                       | 1.25        | 3.75 | 3.50 | 2.625 | 1.250 | 3.50 | 1.25 | 1.750 | .531 | 1/2-13      | 1.62 | 1.41 | 222               | 1/2-13X4.50  |
| W12-24-SS                    | W13-24-SS                       | 1.50        | 4.50 | 4.00 | 3.125 | 1.437 | 4.00 | 1.50 | 2.115 | .656 | 5/8-11      | 1.88 | 1.75 | 225               | 5/8-11X5.00  |
| W12-32-SS                    | W13-32-SS                       | 2.00        | 5.25 | 5.00 | 3.812 | 1.75  | 5.00 | 2.00 | 2.490 | .781 | 3/4-10      | 2.25 | 2.50 | 228               | 3/4-10X6.00  |

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.



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# Tee Junction Block

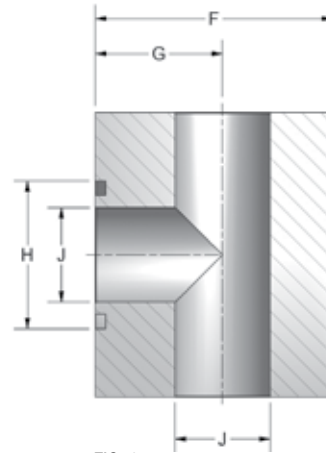


FIG. 1

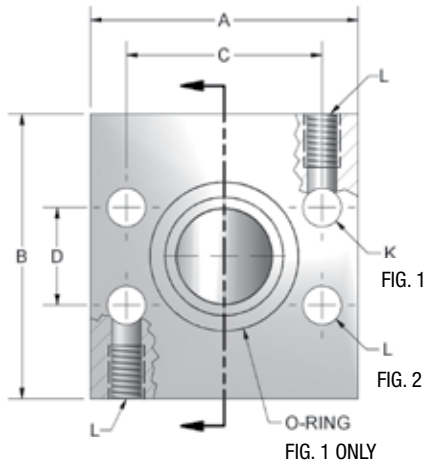


FIG. 1 ONLY

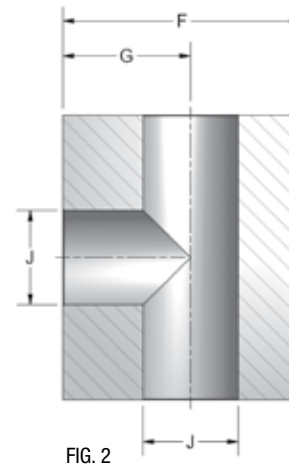


FIG. 2

| CODE 61 TEE JUNCTION BLOCK   |                                 |             |      |      |       |       |      |      |       |      |      |             |                   |              |
|------------------------------|---------------------------------|-------------|------|------|-------|-------|------|------|-------|------|------|-------------|-------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PAD<br>SIZE | A    | B    | C     | D     | F    | G    | H     | J    | K    | L<br>UNC-2B | MOUNTING HARDWARE |              |
|                              |                                 |             |      |      |       |       |      |      |       |      |      |             | O-RING            | SHCS         |
| W17-12-SS                    | W16-12-SS                       | .75         | 2.62 | 2.75 | 1.875 | .875  | 2.25 | 1.22 | 1.250 | .75  | .406 | 3/8-16      | 214               | 3/8-16X3.00  |
| W17-16-SS                    | W16-16-SS                       | 1.00        | 2.82 | 3.00 | 2.062 | 1.031 | 2.50 | 1.34 | 1.560 | 1.00 | .406 | 3/8-16      | 219               | 3/8-16X3.25  |
| W17-20-SS                    | W16-20-SS                       | 1.25        | 3.19 | 3.50 | 2.312 | 1.188 | 3.00 | 1.56 | 1.750 | 1.25 | .492 | 7/16-14     | 222               | 7/16-14X4.00 |
| W17-24-SS                    | W16-24-SS                       | 1.50        | 3.75 | 4.00 | 2.750 | 1.406 | 3.50 | 1.88 | 2.115 | 1.50 | .531 | 1/2-13      | 225               | 1/2-13X4.50  |
| W17-32-SS                    | W16-32-SS                       | 2.00        | 4.00 | 4.25 | 3.062 | 1.688 | 4.00 | 2.09 | 2.490 | 2.00 | .531 | 1/2-13      | 228               | 1/2-13X5.00  |

| CODE 62 TEE JUNCTION BLOCK   |                                 |             |      |      |       |       |      |      |       |       |       |      |             |                   |              |
|------------------------------|---------------------------------|-------------|------|------|-------|-------|------|------|-------|-------|-------|------|-------------|-------------------|--------------|
| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PAD<br>SIZE | A    | B    | C     | D     | E    | F    | G     | H     | J     | K    | L<br>UNC-2B | MOUNTING HARDWARE |              |
|                              |                                 |             |      |      |       |       |      |      |       |       |       |      |             | O-RING            | SHCS         |
| W19-12-SS                    | W18-12-SS                       | .75         | 2.81 | 3.00 | 2.000 | .937  | 1.50 | 2.50 | 1.310 | 1.250 | .750  | .406 | 3/8-16      | 214               | 3/8-16X3.25  |
| W19-16-SS                    | W18-16-SS                       | 1.00        | 3.19 | 3.50 | 2.250 | 1.093 | 1.75 | 3.00 | 1.620 | 1.560 | 1.000 | .492 | 7/16-14     | 219               | 7/16-14X4.00 |
| W19-20-SS                    | W18-20-SS                       | 1.25        | 3.75 | 4.00 | 2.625 | 1.250 | 2.00 | 3.50 | 1.880 | 1.750 | 1.250 | .531 | 1/2-13      | 222               | 1/2-13X4.50  |
| W19-24-SS                    | W18-24-SS                       | 1.50        | 4.50 | 4.50 | 3.125 | 1.437 | 2.25 | 4.00 | 2.120 | 2.115 | 1.500 | .656 | 5/8-11      | 225               | 5/8-11X5.00  |
| W19-32-SS                    | W18-32-SS                       | 2.00        | 5.25 | 5.00 | 3.812 | 1.750 | 2.50 | 5.00 | 2.750 | 2.490 | 2.00  | .781 | 3/4-10      | 228               | 3/4-10X6.00  |

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

# 3000 Series Square Pattern

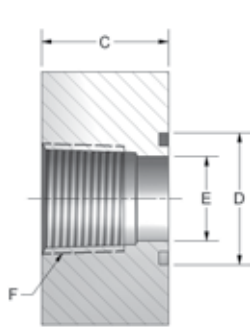


FIG. 1

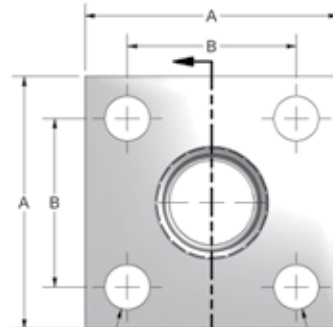


FIG. 1

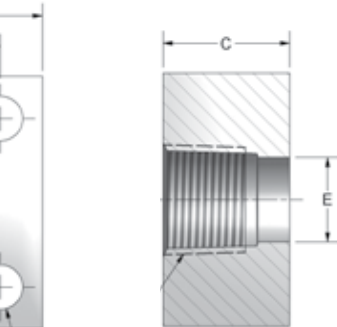


FIG. 2

**3000 SERIES SQUARE NPTF THREAD**

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | A    | B     | C    | D     | E     | F    | G    | H<br>UNC-2B | MOUNTING<br>HARDWARE |             |
|------------------------------|---------------------------------|--------------|------|-------|------|-------|-------|------|------|-------------|----------------------|-------------|
|                              |                                 |              |      |       |      |       |       |      |      |             | O-RING               | SHCS        |
| W65-12-SS                    | W75-12-SS                       | .75          | 2.25 | 1.438 | 1.25 | 1.375 | .752  | .75  | .406 | 3/8-16      | 216                  | 3/8-16X2.00 |
| W65-16-SS                    | W75-16-SS                       | 1.00         | 3.00 | 2.000 | 1.50 | 1.750 | 1.002 | 1.00 | .531 | 1/2-13      | 222                  | 1/2-13X2.25 |
| W65-20-SS                    | W75-20-SS                       | 1.25         | 3.00 | 2.000 | 1.50 | 1.750 | 1.252 | 1.25 | .531 | 1/2-13      | 222                  | 1/2-13X2.25 |
| W65-24-SS                    | W75-24-SS                       | 1.50         | 4.00 | 2.750 | 1.75 | 2.500 | 1.502 | 1.50 | .656 | 5/8-11      | 228                  | 5/8-11X2.75 |
| W65-32-SS                    | W75-32-SS                       | 2.00         | 4.00 | 2.750 | 1.75 | 2.500 | 2.002 | 2.00 | .656 | 5/8-11      | 228                  | 5/8-11X2.75 |
| W65-40-SS                    | W75-40-SS                       | 2.50         | 5.50 | 3.750 | 2.25 | 3.500 | 2.502 | 2.50 | .906 | 7/8-9       | 236                  | 7/8-9X3.50  |
| W65-48-SS                    | W75-48-SS                       | 3.00         | 5.50 | 3.750 | 2.25 | 3.500 | 3.002 | 3.00 | .906 | 7/8-9       | 236                  | 7/8-9X3.50  |

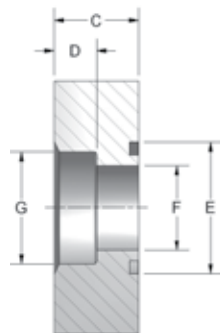


FIG. 1

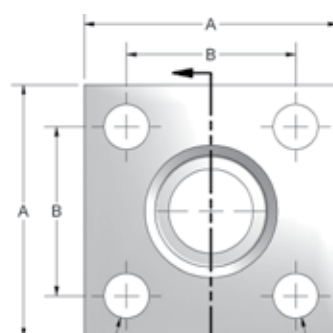


FIG. 1

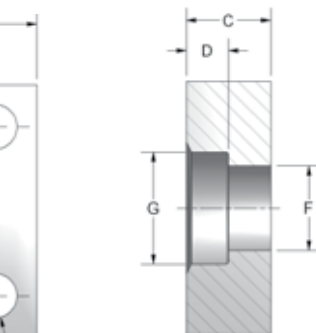


FIG. 2

**3000 SERIES SQUARE SOCKET WELD - PIPE**

| PART NO.<br>O-RING<br>FIG. 1 | PART NO.<br>FLAT FACE<br>FIG. 2 | PIPE<br>SIZE | A    | B     | C    | D   | E     | F     | G     | H     | J<br>UNC-2B | MOUNTING<br>HARDWARE |             |
|------------------------------|---------------------------------|--------------|------|-------|------|-----|-------|-------|-------|-------|-------------|----------------------|-------------|
|                              |                                 |              |      |       |      |     |       |       |       |       |             | O-RING               | SHCS        |
| W66-12-SS                    | W76-12-SS                       | .75          | 2.25 | 1.438 | 1.00 | .50 | 1.375 | .752  | 1.062 | .406  | 3/8-16      | 216                  | 3/8-16X1.75 |
| W66-16-SS                    | W76-16-SS                       | 1.00         | 3.00 | 2.000 | 1.00 | .50 | 1.750 | 1.002 | 1.328 | .531  | 1/2-13      | 222                  | 1/2-13X1.75 |
| W66-20-SS                    | W76-20-SS                       | 1.25         | 3.00 | 2.000 | 1.00 | .50 | 1.750 | 1.252 | 1.672 | .531  | 1/2-13      | 222                  | 1/2-13X1.75 |
| W66-24-SS                    | W76-24-SS                       | 1.50         | 4.00 | 2.750 | 1.25 | .62 | 2.500 | 1.502 | 1.922 | .656  | 5/8-11      | 228                  | 5/8-11X2.25 |
| W66-32-SS                    | W76-32-SS                       | 2.00         | 4.00 | 2.750 | 1.25 | .62 | 2.500 | 2.002 | 2.406 | .656  | 5/8-11      | 228                  | 5/8-11X2.25 |
| W66-40-SS                    | W76-40-SS                       | 2.50         | 5.50 | 3.750 | 1.50 | .75 | 3.500 | 2.502 | 2.906 | .906  | 7/8-9       | 236                  | 7/8-9X2.75  |
| W66-48-SS                    | W76-48-SS                       | 3.00         | 5.50 | 3.750 | 1.50 | .75 | 3.500 | 3.002 | 3.547 | .906  | 7/8-9       | 236                  | 7/8-9X2.75  |
| W66-64-SS                    | W76-64-SS                       | 4.00         | 7.00 | 5.000 | 2.00 | .75 | 4.625 | 3.880 | 4.550 | 1.060 | 1-8         | 347                  | 1-8X4.00    |

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

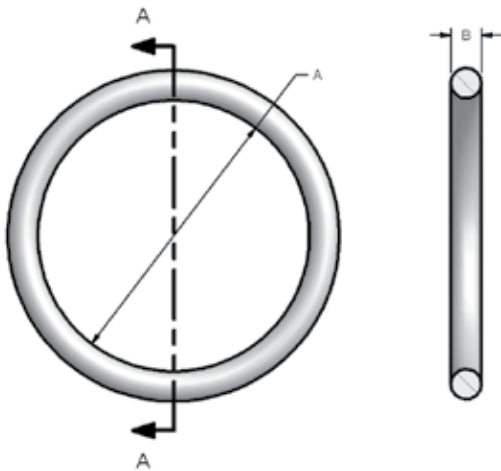
**ANCHOR  
FLUID POWER**

**866-FLANGES | 513.527.4444 | Fax 513.527.4449**

sales@anchorfluidpower.com | anchorfluidpower.com

# SAE J518 O-Ring Assortment Kit

Anchor Fluid Power now offers the most commonly sized o-rings for SAE J518 flange connections in one complete kit. This assortment of 90 durometer o-rings is available in Buna or Viton material and comes conveniently packaged in its own rigid case. Request part numbers SAEJ518KIT-B (Buna) and SAEJ518KIT-V (Viton) when inquiring.



## O-Ring Sizing & Kit Information:

All measurements are in inches.

| 90 DUROMETER |        |      |        |      |       |
|--------------|--------|------|--------|------|-------|
| QTY          | O-RING | SIZE | - SIZE | A    | B     |
| 20           | 210    | 0.50 | 8      | 0.75 | 0.139 |
| 20           | 214    | 0.75 | 12     | 1.00 | 0.139 |
| 20           | 219    | 1.00 | 16     | 1.31 | 0.139 |
| 20           | 222    | 1.25 | 20     | 1.50 | 0.139 |
| 20           | 225    | 1.50 | 24     | 1.88 | 0.139 |
| 20           | 228    | 2.00 | 32     | 2.25 | 0.139 |
| 20           | 232    | 2.50 | 40     | 2.75 | 0.139 |
| 20           | 237    | 3.00 | 48     | 3.38 | 0.139 |
| 5            | 241    | 3.50 | 56     | 3.88 | 0.139 |
| 5            | 245    | 4.00 | 64     | 4.38 | 0.139 |



# ISO Certificates

**Certificate of Registration**

**nqa** global assurance

This is to certify that the Quality Management System of:

**Anchor Fluid Power**  
5553 Murray Road  
Cincinnati OH 45227  
United States of America

Central function listed above. See appendix for additional locations applicable to:

**Manufacture and distribution of fluid power components, hydraulic flanges, and couplings**

has been assessed and approved by National Quality Assurance, U.S.A., against the provisions of:

**ISO 9001:2015**

  
For and on behalf of NQA, USA

**ANAB**  
ACCREDITED  
NQA USA  
MANUFACTURING SYSTEMS  
CERTIFICATION BODY

Certificate Number: 10496  
EAC Code: 18  
Certified Since: August 6, 1999  
Valid Until: March 8, 2020  
Reissued: February 1, 2019  
Cycle Issued: March 9, 2017

Page 1 of 2

This approval is subject to the company maintaining its system to the required standard, which will be monitored by NQA, USA, 289 Great Road, Suite 105, Acton, MA 01720, an accredited organization under the ANSI-ASQ National Accreditation Board.

**Certificate of Registration**

**nqa** global assurance

This is to certify that the Occupational Health & Safety Management System of:

**Anchor Fluid Power**  
5553 Murray Road  
Cincinnati, OH 45227  
United States of America

Central function listed above. See appendix for additional locations applicable to:

**Manufacture and distribution of fluid power components, hydraulic flanges, and couplings**

has been assessed and registered by NQA against the provisions of:

**OHSAS 18001:2007**

This registration is subject to the company maintaining an occupational health & safety management system, to the above standard, which will be monitored by NQA.

  
Managing Director

**UKAS**  
ACCREDITED  
NQA  
OHSAS 18001

Certificate Number: OHS15806  
EAC Code: 18  
First Issued: April 14, 2015  
Valid Until: March 8, 2020  
Reissued: March 4, 2019  
Cycle Issued: March 9, 2017

Page 1 of 2

The use of the UKAS Accreditation Mark indicates accreditation in respect of those activities covered by the accreditation certificate number 015 held by NQA. NQA is a trading name of NQA Certification Limited, Registration No 0931758. Registered Office: Warwick House, Houghton Hall Park, Houghton Regis, Dunstable LU5 5ZX. This certificate is the property of NQA and must be returned on request.

**Certificate of Registration**

**nqa** global assurance

This is to certify that the Quality Management System of:

**Anchor Fluid Power**  
5553 Murray Rd  
Cincinnati OH 45227  
United States of America

applicable to:

**Manufacture and distribution of fluid power components and hydraulic flanges**

has been assessed and approved by National Quality Assurance, U.S.A., against the provisions of:

**ISO 9001:2015 and AS9100:2016**  
and in accordance with the requirements of AS9104/1:2012.

  
For and on behalf of NQA, USA

**ANAB**  
ACCREDITED  
NQA USA  
MANUFACTURING SYSTEMS  
CERTIFICATION BODY

Certificate Number: 16925  
EAC Code: 18  
Certified Since: March 30, 2017  
Valid Until: March 29, 2020  
Reissued: April 4, 2018  
Cycle Issued: March 30, 2017  
Site Structure: Single Site

Page 1 of 1

This approval is subject to the company maintaining its system to the required standard, which will be monitored by NQA, USA, 289 Great Road, Suite 105, Acton, MA 01720, an accredited organization under the Aerospace Registrar Management Program.



\*Stainless Steel

|            |     |                 |    |                       |                 |
|------------|-----|-----------------|----|-----------------------|-----------------|
| 300.....   | 79  | AB3 .....       | 28 | MV2B.....             | 47              |
| 300*.....  | 121 | ABF .....       | 36 | NN.....               | 10              |
| 301.....   | 82  | ABS/F .....     | 38 | NS.....               | 10              |
| 302.....   | 69  | ABS .....       | 32 | P-BWSF/P-BWSFN .....  | 83              |
| 304.....   | 80  | ACB/ACBX.....   | 91 | P-BWSFX/P-BWSFXN..... | 84              |
| 340.....   | 80  | ADOS/ADOSX..... | 92 | PTX.....              | 89              |
| 344.....   | 80  | AE2.....        | 16 | P-WSF .....           | 85              |
| 390.....   | 81  | AE3.....        | 24 | SF-2/SFX-2.....       | 120             |
| 390*.....  | 121 | AE3K .....      | 26 | SF-2/SFX-2*.....      | 120             |
| 394.....   | 81  | AEF.....        | 34 | SFO .....             | 66,67,69,78,120 |
| 600.....   | 79  | AES/F .....     | 38 | SFW/SFTW.....         | 78              |
| 600*.....  | 121 | AES .....       | 30 | SFW/SFTW*.....        | 120             |
| 601.....   | 82  | AFA/AFAC.....   | 96 | SFX0 .....            | 78              |
| 602.....   | 79  | AOP/AOPX.....   | 94 | SFXW/SFXTW.....       | 78              |
| 604.....   | 80  | APK .....       | 42 | SFXW/SFXTW*.....      | 120             |
| 640.....   | 80  | ARS .....       | 40 | SP/SPX .....          | 87              |
| 644.....   | 80  | AS/ASX .....    | 93 | T-SF/T-SFN.....       | 86              |
| 690.....   | 81  | AV2.....        | 20 | T-SFX/T-SFXN.....     | 86              |
| 690*.....  | 121 | AV3.....        | 22 | W104.....             | 98              |
| 694.....   | 81  | C0020ZB .....   | 45 | W104*.....            | 123             |
| 820.....   | 63  | C10106H .....   | 45 | W106.....             | 99              |
| 825.....   | 57  | C1010ZB .....   | 45 | W106*.....            | 124             |
| 830.....   | 57  | C1200ZB .....   | 45 | W12 .....             | 111             |
| 835.....   | 58  | C2950AV .....   | 45 | W12*.....             | 130             |
| 835B ..... | 58  | C69206H .....   | 45 | W13 .....             | 111             |
| 83590..... | 64  | C81302B .....   | 45 | W13*.....             | 130             |
| 840.....   | 63  | C81306H .....   | 45 | W14 .....             | 111             |
| 845.....   | 59  | C92501Z .....   | 45 | W14*.....             | 130             |
| 845B ..... | 59  | CN .....        | 8  | W15 .....             | 111             |
| 84590..... | 64  | CP/CPX.....     | 91 | W15*.....             | 130             |
| 850.....   | 61  | CS .....        | 4  | W16.....              | 112             |
| 855B ..... | 60  | F-FO .....      | 93 | W16*.....             | 131             |
| 860.....   | 61  | FN .....        | 8  | W17 .....             | 112             |
| 865.....   | 60  | FOP/FP .....    | 90 | W17*.....             | 131             |
| 880.....   | 62  | FOPX/FPX .....  | 90 | W18 .....             | 112             |
| 885.....   | 62  | FS.....         | 3  | W18*.....             | 131             |
| 1453.....  | 87  | GS .....        | 12 | W19 .....             | 112             |
| 51437..... | 88  | LK.....         | 44 | W19*.....             | 131             |
| AB2 .....  | 18  | LV2B.....       | 46 | W164.....             | 113             |

## INDEX

|             |     |            |     |            |     |
|-------------|-----|------------|-----|------------|-----|
| W165.....   | 113 | W3* .....  | 126 | W53.....   | 85  |
| W168.....   | 113 | W30.....   | 108 | W56.....   | 117 |
| W169.....   | 114 | W30* ..... | 128 | W57.....   | 117 |
| W169* ..... | 129 | W300.....  | 101 | W58.....   | 104 |
| W170.....   | 113 | W304.....  | 102 | W59.....   | 103 |
| W172.....   | 115 | W31.....   | 105 | W59* ..... | 125 |
| W176.....   | 114 | W31* ..... | 126 | W6.....    | 104 |
| W176* ..... | 129 | W32.....   | 108 | W60.....   | 103 |
| W177.....   | 115 | W32* ..... | 128 | W60* ..... | 125 |
| W180.....   | 113 | W33.....   | 108 | W600.....  | 101 |
| W182.....   | 115 | W33* ..... | 128 | W604.....  | 102 |
| W184.....   | 113 | W34.....   | 107 | W61.....   | 103 |
| W185.....   | 113 | W34* ..... | 127 | W61* ..... | 125 |
| W186.....   | 114 | W35.....   | 107 | W62.....   | 104 |
| W186* ..... | 129 | W35* ..... | 127 | W63.....   | 104 |
| W187.....   | 115 | W36.....   | 96  | W65.....   | 110 |
| W188.....   | 113 | W36* ..... | 122 | W65* ..... | 132 |
| W189.....   | 114 | W37.....   | 96  | W66.....   | 116 |
| W189* ..... | 129 | W37* ..... | 122 | W66* ..... | 132 |
| W192.....   | 100 | W38.....   | 96  | W69.....   | 109 |
| W193.....   | 100 | W38* ..... | 122 | W7.....    | 109 |
| W194.....   | 100 | W39.....   | 96  | W72.....   | 103 |
| W195.....   | 100 | W39* ..... | 122 | W72* ..... | 125 |
| W22.....    | 110 | W4.....    | 103 | W75.....   | 116 |
| W23.....    | 107 | W4* .....  | 125 | W75* ..... | 132 |
| W23* .....  | 127 | W43.....   | 98  | W76.....   | 116 |
| W24.....    | 107 | W43* ..... | 123 | W76* ..... | 132 |
| W24* .....  | 127 | W44.....   | 98  | W8.....    | 109 |
| W25.....    | 107 | W44* ..... | 123 | W80.....   | 105 |
| W25* .....  | 127 | W45.....   | 98  | W80* ..... | 126 |
| W26.....    | 108 | W45* ..... | 123 | W81.....   | 105 |
| W26* .....  | 128 | W46.....   | 99  | W81* ..... | 125 |
| W27.....    | 107 | W46* ..... | 124 | W87.....   | 117 |
| W27* .....  | 127 | W48.....   | 99  | W91.....   | 103 |
| W28.....    | 108 | W48* ..... | 124 | W91* ..... | 125 |
| W28* .....  | 128 | W49.....   | 99  |            |     |
| W29.....    | 108 | W49* ..... | 124 |            |     |
| W29* .....  | 128 | W5.....    | 106 |            |     |
| W3.....     | 105 | W51.....   | 106 |            |     |

## TERMS AND CONDITIONS OF SALE

1. **APPLICABILITY.** These Terms and Conditions of Sale (these "Terms") are the only terms which govern the sale of goods and/or products ("Products") by Anchor Fluid Power, LLC ("Anchor") to the buyer named in the quotation or invoice accompanying these Terms ("Buyer"). Any order received by Anchor shall not be binding on Anchor unless accepted by Anchor in writing by an authorized representative. Fulfillment of Buyer's order does not constitute acceptance of any of Buyer's terms and conditions and does not serve to modify or amend these Terms.
2. **ENTIRE AGREEMENT; AMENDMENT.** These Terms set forth the entire agreement between Anchor and Buyer regarding the subject matter hereof and supersede all prior or contemporaneous understandings, agreements, negotiations, representations, warranties and communications, whether written or oral, regarding the same. These Terms prevail over any of Buyer's general terms and conditions of purchase regardless of whether or when Buyer has submitted its purchase order or such terms to Anchor. These Terms may only be amended or modified in a writing which specifically states that it amends these Terms and is signed by an authorized representative of each of Anchor and Buyer.
3. **SHIPMENT; PASSAGE OF TITLE.** Shipments shall be made F.O.B. Origin and title to, and risk of loss with respect to, the Products shall pass to Buyer upon delivery to the carrier at the point of shipment, unless otherwise agreed by Anchor in writing. Anchor reserves the right to select the mode of transportation unless otherwise agreed by Anchor in writing. Neither Buyer nor Buyer's consignee (as applicable) shall have the right to divert or reassign such shipment to any destination other than that specified in the bill of lading without the prior written permission of Anchor.
4. **PAYMENTS.** Buyer represents that Buyer is solvent and can and will pay for the Products in accordance with these Terms. Buyer shall execute and deliver in a timely manner any documents or information reasonably requested by Anchor for the purpose of verifying that funds are available and committed for payment of Anchor's invoices from a source reasonably satisfactory to Anchor. In the event that Anchor is unable to verify the existence of such funds, Anchor reserves the right to require payment in cash, or security for payment from a source reasonably satisfactory to Anchor, prior to starting manufacture of the Products or making any delivery thereof, at Anchor's option. Any sales, use, excise, occupation or similar tax shall be solely payable by Buyer unless otherwise agreed by Anchor in writing. Anchor's invoices are due for payment no later than 30 days after the date of the invoice unless otherwise expressly stated in such invoice, and the time of payment for the Products provided hereunder is understood to be of the essence. A late payment charge shall be assessed monthly against all past due accounts. Invoices not paid when due shall accrue late payment charges from the due date thereof to the date of payment at a rate of 1.5% each 30 days the same remains past due.
5. **LIMITED WARRANTY.** Anchor warrants only that the Products conform to the dimensions set forth in its catalog at the time of sale. Catalog dimensions are subject to change. Anchor does not warrant products manufactured by manufacturers other than Anchor against defects in material or workmanship, though such products may be subject to warranties provided by those manufacturers. This warranty excludes damage and deterioration resulting from normal wear and tear and/or any misuse of the Product. This warranty is made in lieu of all other warranties, expressed or implied. All other warranties, expressed or implied, INCLUDING ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING OR TRADE, are excluded and will not apply to the Products sold. If Buyer disassembles or modifies Products in any way, warranty is void. Buyer must obtain written authorization from Anchor prior to returning Products. Nonconforming Products for which a return has been authorized by Anchor in accordance with Paragraph 12 (Returns) hereof must be returned to Anchor within 30 days of delivery to Buyer. Internal material defects may not be commercially detectable. Under no circumstances will Anchor be liable for any damages or claims with respect to soundness of material. No employee, agent, or representative of Anchor has the authority to orally vary the terms of the warranty described herein. This warranty does not apply to purchasers other than Anchor's direct customers.
6. **LIMITATION OF DAMAGES.** Buyer's sole and exclusive remedy against Anchor for nonconforming Products will be the furnishing of replacement Products (F.O.B. Anchor) or a credit for such Products, as determined by Anchor in its sole discretion; provided that the return of nonconforming Products shall be subject to the provisions of Paragraph 12 (Returns) hereof. Anchor shall not be liable to Buyer, its employees, agents, customers or to any third party for any claim, loss or damage, general or specific, incidental or consequential, including but not limited to death, personal injury, property damage, lost sales or lost profit, which in any way arises out of or in connection with the sale of any Product, or the use or nonuse of such Products, regardless of whether such loss or damage was foreseeable and whether or not Anchor has been advised of the possibility of such loss or damage.
7. **CLAIMS BY BUYER.** Anchor shall incur no liability for losses, damages, shortages or other causes alleged to have occurred or to have existed at or prior to delivery to the carrier unless Buyer has entered full details thereof on its receipt to the carrier, or it is proven to be concealed damage or shortage that existed prior to Anchor's delivery to the carrier. Claims by Buyer must be made within 10 days of receipt of shipment except as herein provided under Paragraph 5 (Limited Warranty), which Buyer and Anchor agree is a reasonable amount of time, or Buyer's claim shall be barred. In addition, Anchor must be given an opportunity to investigate the claim, including an inspection of the Products, or Buyer's claims shall be barred.
8. **FORCE MAJEURE.** Notwithstanding any other provision herein, Anchor shall not, in any event, be liable for any loss, damage or consequence which is due to any cause beyond Anchor's reasonable control, including, but not limited to, acts of God, fire, flood or other casualty, government regulation or requirements, pandemic, shortage or failure of raw material or transportation, breakdown of equipment and labor strike or dispute with workers whether or not Anchor is capable of settling any such labor problem. Any action by Buyer or Anchor for a breach of these Terms must be commenced within one (1) year after the cause of action accrues, or else the same is forever barred.
9. **SECURITY INTEREST.** Anchor shall have a purchase money security interest in all the Products provided hereunder, together with all proceeds and replacements, until all amounts owing by Buyer to Anchor with respect thereto have been paid in full. Anchor may file or record this or any other applicable document necessary to protect the interest of Anchor in the Products. Buyer shall promptly execute and deliver any documents reasonably requested by Anchor in connection with such purpose.
10. **TOLERANCES.** The soundness of materials used in the Products is not detectable commercially and cannot be assured by steel manufacturers. It is possible that a flange or other Product may fall from, among other things, a pinhole, porosity and/or cracks in the steel. Anchor makes no affirmation of fact and has made no promise relating to the materials used in the Products being sold which has become part of the basis of the bargain made or has created or amounted to a representation that the Products and/or the materials used therein conform to any such affirmation or promise, other than dimensional accuracy. If material or dimension certification is required, it must be specified in writing by Buyer at the time an order is placed, and shall only be binding on Anchor if such material or dimension specification is expressly agreed to by Anchor in writing.
11. **PATENTS.** Anchor shall indemnify Buyer against any damages or costs awarded against Buyer in the event any legal proceeding is brought against Buyer by a third person successfully alleges that any Products infringe upon any U.S. patent; provided that Buyer gives Anchor prompt written notice of the filing of any such suit, gives Anchor the opportunity to defend any such suit and cooperates with Anchor with respect to any such defense, unless the Products, design or specifications have been specifically required by Buyer, in which case Buyer shall similarly indemnify Anchor.
12. **RETURNS.** No Products may be returned to Anchor without Anchor's prior written consent. Authorized returns will be subject to a minimum restocking charge equal to 25% of Anchor's invoice price. No cash refunds will be offered by Anchor. A credit for properly returned Products will be issued to your account for future purchases from Anchor only.
13. **WAIVER.** Failure or inability of either Buyer or Anchor to enforce any right hereunder will not waive any right in respect to any other or future rights or occurrences. No waiver by Anchor of any of the provisions hereof shall be effective unless explicitly set forth in writing and signed by Anchor.
14. **SEVERABILITY.** In case any provision of these Terms is declared invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions will not in any way be affected or impaired.
15. **ASSIGNMENT.** Neither these Terms nor Buyer's right to receive properly purchased Products may be assigned by Buyer without the prior written consent of Anchor. Any attempted assignment not made in conformity with this Paragraph 15 (Assignment) will be null and void.
16. **APPLICABLE LAW; JURISDICTION.** All matters arising out of or relating to these Terms or Buyer's purchase of Products from Anchor shall be governed by and construed in accordance with the internal laws of the State of Ohio without giving effect to any choice or conflict of law provision or rule (whether of the State of Ohio or any other jurisdiction) that would cause the application of the laws of any jurisdiction other than those of the State of Ohio. Any legal suit, action or proceeding arising out of or relating to these Terms or Buyer's purchase of Products from Anchor shall be instituted in the federal courts of the United States of America or the courts of the State of Ohio, in each case located in the City of Cincinnati and County of Hamilton, and each party irrevocably submits to the exclusive jurisdiction of such courts in any such suit, action or proceeding.

## This image shows a full page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page, typical of notebook paper. There are no margins, text, or other markings on the page.

