



**QH<sup>TM</sup> FLANGES C61 C62**

**SOUDÉES / WELDED**

**FILETÉES / THREADED**





## SELECTION LIENS RAPIDES / QUICK LINKS



# FLANGES SOUDÉES / FILETÉES



### **Threaded Forged Steel Flanges**

Premium Quality Steel Flanges resist breakage from tapered threads.



### **Threaded 90° Steel Elbows**

Forged Steel 90° Elbow Flanges promote laminar flow and reduce turbulence with a smooth fluid passage. Offered in Standard type, NPT & SAE thread up to 2" size.



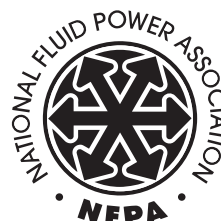
### **Socket Weld 90° Steel Elbows**

Forged Steel 90° Elbow Flanges promote laminar flow and reduce turbulence with a smooth fluid passage. Offered in Deep Socket Weld for Sch 40 / Sch 80 / Sch 160 pipe.



### **Deep Socket Weld Standard & Companion Flanges**

The easiest way to construct accurate welded piping systems is with DMIC's Deep Socket Weld flanges.





# FLANGES SOUDÉES / FILETÉES



## **Butt Weld Standard/Companion**

The most elegant piping assemblies are butt-welded.



## **SAE Split Flanges**

Heavy Duty Forged Steel Split Flanges in SAE Code 61 (3,000 PSI) and Code 62 (6,000 PSI).



## **FDM/FDH**

DMIC Custom Pattern 3000 PSI and 6000 PSI Socket and Butt Welded Flanges available in Carbon Steel and Stainless Steel.



## **Factory Approved Hardware**

Factory Approved Hardware Kits for DMIC Forged Steel and Stainless Steel Flanges.



## **Blank Unported 4-Bolt Flanges, Blank Heads for Split Flanges, & Gauge Spacer**

Indispensable for emergency non-standard spare parts, transducer mounting, and system reconfiguration.



## **Connector, Elbow & Tee Block for Split Flanges**



# Code 61 Threaded 4-Bolt

For imperial SAE Flange spec; NPT-F & SAE-F ports  
Standard & Companion ~ Full & Reduced Port models



DMIC's FL series of Forged Steel 4-Bolt flanges are chosen by quality oriented Engineers & Designers for superior strength and elimination of porosity problems. DMIC stocks thousands of Forged Steel flanges in full port and reduced port versions for rapid shipment.

- Sizes from 1/2" through 4", full port and one-size-reduced port models
- Extensive stock of "Standard" and "Companion" types in NPT & SAE
- Available in Stainless Steel; production leadtime may apply
- DMIC "Standard" flanges designed to accept either UNC or metric bolts

## Standard Code 61 Threaded 4-Bolt Flanges (with O-Ring Groove)

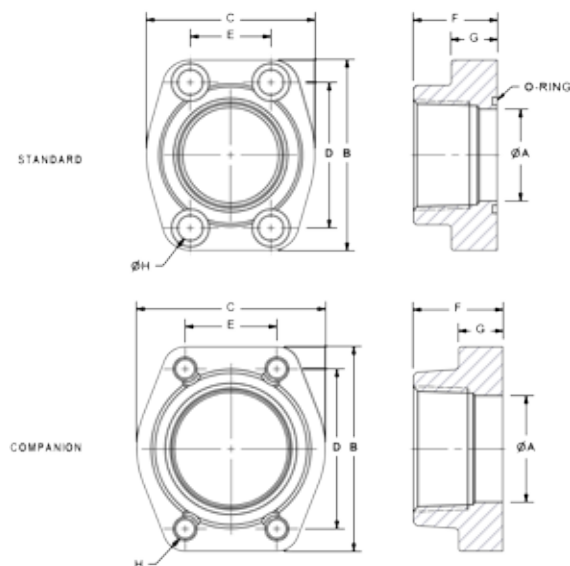
| Standard Flange<br>Part Number                        | Size          |                | Working<br>PSI | Dimensions (inches) |      |      |      |      |      |      |      |      | O-Ring |
|-------------------------------------------------------|---------------|----------------|----------------|---------------------|------|------|------|------|------|------|------|------|--------|
|                                                       | Flange<br>Pad | Port<br>Thread |                | A                   | B    | C    | D    | E    | F    | G    | H    | lbs. |        |
| FL4SU-NSN (NPT-F Thread, Standard, C.61)              |               |                |                |                     |      |      |      |      |      |      |      |      |        |
| FL4SU-0500NSN                                         | ½"            | ½" NPT         | 5000           | 0.51                | 2.24 | 1.81 | 1.50 | 0.69 | 1.42 | 0.63 | 0.35 | 0.55 | 2-210  |
| FL4SU-0750NSN                                         | ¾"            | ¾" NPT         | 5000           | 0.75                | 2.56 | 1.97 | 1.88 | 0.88 | 1.42 | 0.71 | 0.43 | 0.82 | 2-214  |
| FL4SU-1000NSN                                         | 1"            | 1" NPT         | 5000           | 0.98                | 2.76 | 2.17 | 2.06 | 1.03 | 1.50 | 0.71 | 0.43 | 0.99 | 2-219  |
| FL4SU-1250NSN                                         | 1¼"           | 1¼" NPT        | 4000           | 1.26                | 3.11 | 2.68 | 2.31 | 1.19 | 1.61 | 0.83 | 0.45 | 1.46 | 2-222  |
| FL4SU-1500NSN                                         | 1½"           | 1½" NPT        | 3000           | 1.50                | 3.66 | 3.07 | 2.75 | 1.41 | 1.77 | 0.98 | 0.53 | 2.31 | 2-225  |
| FL4SU-2000NSN                                         | 2"            | 2" NPT         | 3000           | 2.01                | 4.02 | 3.54 | 3.06 | 1.69 | 1.77 | 0.98 | 0.53 | 2.58 | 2-228  |
| FL4SU-2500NSN                                         | 2½"           | 2½" NPT        | 2500           | 2.48                | 4.49 | 4.13 | 3.50 | 2.00 | 1.97 | 0.98 | 0.53 | 3.51 | 2-232  |
| FL4SU-3000NSN                                         | 3"            | 3" NPT         | 2000           | 2.87                | 5.28 | 4.88 | 4.19 | 2.44 | 1.97 | 1.06 | 0.69 | 5.03 | 2-237  |
| FL4SU-3500NSN                                         | 3½"           | 3½" NPT        | 500            | 3.50                | 5.98 | 5.35 | 4.75 | 2.75 | 1.89 | 1.06 | 0.69 | 5.34 | 2-241  |
| FL4SU-4000NSN                                         | 4"            | 4" NPT         | 500            | 3.90                | 6.38 | 5.75 | 5.13 | 3.06 | 1.89 | 1.06 | 0.69 | 6.13 | 2-245  |
| FL4SU-SSN (SAE-F Thread, Standard, C.61)              |               |                |                |                     |      |      |      |      |      |      |      |      |        |
| FL4SU-0500SSN                                         | ½"            | ½" SAE         | 5000           | 0.51                | 2.24 | 1.81 | 1.50 | 0.69 | 1.42 | 0.63 | 0.35 | 0.55 | 2-210  |
| FL4SU-0750SSN                                         | ¾"            | ¾" SAE         | 5000           | 0.75                | 2.56 | 1.97 | 1.88 | 0.88 | 1.42 | 0.71 | 0.43 | 0.82 | 2-214  |
| FL4SU-1000SSN                                         | 1"            | 1" SAE         | 5000           | 0.98                | 2.76 | 2.17 | 2.06 | 1.03 | 1.50 | 0.71 | 0.43 | 0.99 | 2-219  |
| FL4SU-1250SSN                                         | 1¼"           | 1¼" SAE        | 4000           | 1.26                | 3.11 | 2.68 | 2.31 | 1.19 | 1.61 | 0.83 | 0.45 | 1.46 | 2-222  |
| FL4SU-1500SSN                                         | 1½"           | 1½" SAE        | 3000           | 1.50                | 3.66 | 3.07 | 2.75 | 1.41 | 1.77 | 0.98 | 0.53 | 2.31 | 2-225  |
| FL4SU-2000SSN                                         | 2"            | 2" SAE         | 3000           | 2.01                | 4.02 | 3.54 | 3.06 | 1.69 | 1.77 | 0.98 | 0.53 | 2.58 | 2-228  |
| FLRSU-NSN (Reduced Port NPT-F Thread, Standard, C.61) |               |                |                |                     |      |      |      |      |      |      |      |      |        |
| FLRSU-0500NSN                                         | ½"            | ⅜" NPT         | 5000           | 0.51                | 2.24 | 1.81 | 1.50 | 0.69 | 1.42 | 0.63 | 0.35 | 0.60 | 2-210  |
| FLRSU-0750NSN                                         | ¾"            | ½" NPT         | 5000           | 0.51                | 2.56 | 1.97 | 1.88 | 0.88 | 1.42 | 0.71 | 0.43 | 0.88 | 2-214  |
| FLRSU-1000NSN                                         | 1"            | ¾" NPT         | 5000           | 0.75                | 2.76 | 2.17 | 2.06 | 1.03 | 1.38 | 0.83 | 0.43 | 1.12 | 2-219  |
| FLRSU-1250NSN                                         | 1¼"           | 1" NPT         | 4000           | 0.98                | 3.19 | 2.56 | 2.31 | 1.19 | 1.65 | 0.98 | 0.45 | 1.76 | 2-222  |
| FLRSU-1500NSN                                         | 1½"           | 1¼" NPT        | 3000           | 1.26                | 3.74 | 3.07 | 2.75 | 1.41 | 1.77 | 1.06 | 0.53 | 2.58 | 2-225  |
| FLRSU-2000NSN                                         | 2"            | 1½" NPT        | 3000           | 1.50                | 4.02 | 3.54 | 3.06 | 1.69 | 1.77 | 0.98 | 0.53 | 3.35 | 2-228  |
| FLRSU-SSN (Reduced Port SAE-F Thread, Standard, C.61) |               |                |                |                     |      |      |      |      |      |      |      |      |        |
| FLRSU-0500SSN                                         | ½"            | ⅜" SAE         | 5000           | 0.51                | 2.24 | 1.81 | 1.50 | 0.69 | 1.42 | 0.63 | 0.35 | 0.60 | 2-210  |
| FLRSU-0750SSN                                         | ¾"            | ½" SAE         | 5000           | 0.51                | 2.56 | 1.97 | 1.88 | 0.88 | 1.42 | 0.71 | 0.43 | 0.88 | 2-214  |
| FLRSU-1000SSN                                         | 1"            | ¾" SAE         | 5000           | 0.75                | 2.76 | 2.17 | 2.06 | 1.03 | 1.38 | 0.83 | 0.43 | 1.12 | 2-219  |
| FLRSU-1250SSN                                         | 1¼"           | 1" SAE         | 4000           | 0.98                | 3.19 | 2.56 | 2.31 | 1.19 | 1.65 | 0.98 | 0.45 | 1.76 | 2-222  |
| FLRSU-1500SSN                                         | 1½"           | 1¼" SAE        | 3000           | 1.26                | 3.74 | 3.07 | 2.75 | 1.41 | 1.77 | 1.06 | 0.53 | 2.58 | 2-225  |
| FLRSU-2000SSN                                         | 2"            | 1½" SAE        | 3000           | 1.50                | 4.02 | 3.54 | 3.06 | 1.69 | 1.77 | 0.98 | 0.53 | 3.35 | 2-228  |





## Ordering Codes Summary

|                                |                                                               |          |               |            |          |          |
|--------------------------------|---------------------------------------------------------------|----------|---------------|------------|----------|----------|
| <b>FL</b>                      | <b>4S</b>                                                     | <b>U</b> | <b>- 3500</b> | <b>- N</b> | <b>S</b> | <b>N</b> |
|                                |                                                               |          |               |            |          |          |
| <b>Type</b>                    |                                                               |          |               |            |          |          |
| 4S                             | Full Port                                                     |          |               |            |          |          |
| RS                             | Reduced Port                                                  |          |               |            |          |          |
| <b>Configuration</b>           |                                                               |          |               |            |          |          |
| U                              | Standard Flange                                               |          |               |            |          |          |
| C                              | Companion Flange                                              |          |               |            |          |          |
| <b>Size</b>                    |                                                               |          |               |            |          |          |
| Expressed in 1/1000" units     |                                                               |          |               |            |          |          |
| <b>Port Thread</b>             |                                                               |          |               |            |          |          |
| N                              | NPT-F                                                         |          |               |            |          |          |
| S                              | SAE-F                                                         |          |               |            |          |          |
| <b>Material</b>                |                                                               |          |               |            |          |          |
| S                              | Forged Steel                                                  |          |               |            |          |          |
| Z                              | Stainless Steel                                               |          |               |            |          |          |
| <b>Hardware Kit Easy Order</b> |                                                               |          |               |            |          |          |
| N                              | Flange Only                                                   |          |               |            |          |          |
| K                              | Add Hardware Kit for this flange<br>(See Page 16 for Options) |          |               |            |          |          |



Due to our policy of continual product improvement, the specifications in this catalog may change without notice. When designing by spec, please request a certified print.

## Companion Code 61 Threaded 4-Bolt Flanges (with Tapped Bolt Holes)

| Companion<br>Flange<br>Part Number              | Size          |                | Working<br>PSI | Dimensions (inches) |      |      |      |      |      |      |         |      |
|-------------------------------------------------|---------------|----------------|----------------|---------------------|------|------|------|------|------|------|---------|------|
|                                                 | Flange<br>Pad | Port<br>Thread |                | A                   | B    | C    | D    | E    | F    | G    | H (UNC) | lbs. |
| FL4SC-NSN (NPT-F Thread, Companion, C.61)       |               |                |                |                     |      |      |      |      |      |      |         |      |
| FL4SC-0500NSN                                   | 1/2"          | 1/2" NPT       | 5000           | 0.51                | 2.13 | 1.81 | 1.50 | 0.69 | 1.42 | 0.63 | 5/16"   | 0.57 |
| FL4SC-0750NSN                                   | 3/4"          | 3/4" NPT       | 5000           | 0.75                | 2.56 | 1.97 | 1.88 | 0.88 | 1.42 | 0.71 | 3/8"    | 0.90 |
| FL4SC-1000NSN                                   | 1"            | 1" NPT         | 5000           | 0.98                | 2.76 | 2.17 | 2.06 | 1.03 | 1.50 | 0.71 | 3/8"    | 1.08 |
| FL4SC-1250NSN                                   | 1 1/4"        | 1 1/4" NPT     | 4000           | 1.26                | 3.11 | 2.68 | 2.31 | 1.19 | 1.61 | 0.83 | 7/16"   | 1.56 |
| FL4SC-1500NSN                                   | 1 1/2"        | 1 1/2" NPT     | 3000           | 1.50                | 3.66 | 3.07 | 2.75 | 1.41 | 1.77 | 0.98 | 1/2"    | 2.46 |
| FL4SC-2000NSN                                   | 2"            | 2" NPT         | 3000           | 2.01                | 4.02 | 3.54 | 3.06 | 1.69 | 1.77 | 0.98 | 1/2"    | 2.73 |
| FL4SC-2500NSN                                   | 2 1/2"        | 2 1/2" NPT     | 2500           | 2.48                | 4.49 | 4.13 | 3.50 | 2.00 | 1.97 | 0.98 | 1/2"    | 3.65 |
| FL4SC-3000NSN                                   | 3"            | 3" NPT         | 2000           | 2.87                | 5.28 | 4.88 | 4.19 | 2.44 | 1.97 | 1.06 | 5/8"    | 5.21 |
| FL4SC-3500NSN                                   | 3 1/2"        | 3 1/2" NPT     | 500            | 3.50                | 5.98 | 5.35 | 4.75 | 2.75 | 1.89 | 1.06 | 5/8"    | 5.52 |
| FL4SC-4000NSN                                   | 4"            | 4" NPT         | 500            | 3.90                | 6.38 | 5.75 | 5.13 | 3.06 | 1.89 | 1.06 | 5/8"    | 6.31 |
| FL4SC-SSN (SAE-F Thread, Companion, C.61)       |               |                |                |                     |      |      |      |      |      |      |         |      |
| FL4SC-0500SSN                                   | 1/2"          | 1/2" SAE       | 5000           | 0.51                | 2.24 | 1.81 | 1.50 | 0.69 | 1.42 | 0.63 | 5/16"   | 0.57 |
| FL4SC-0750SSN                                   | 3/4"          | 3/4" SAE       | 5000           | 0.75                | 2.56 | 1.97 | 1.88 | 0.88 | 1.42 | 0.71 | 3/8"    | 0.90 |
| FL4SC-1000SSN                                   | 1"            | 1" SAE         | 5000           | 0.98                | 2.76 | 2.17 | 2.06 | 1.03 | 1.50 | 0.71 | 3/8"    | 1.08 |
| FL4SC-1250SSN                                   | 1 1/4"        | 1 1/4" SAE     | 4000           | 1.26                | 3.11 | 2.68 | 2.31 | 1.19 | 1.61 | 0.83 | 7/16"   | 1.57 |
| FL4SC-1500SSN                                   | 1 1/2"        | 1 1/2" SAE     | 3000           | 1.50                | 3.66 | 3.07 | 2.75 | 1.41 | 1.77 | 0.98 | 1/2"    | 2.47 |
| FL4SC-2000SSN                                   | 2"            | 2" SAE         | 3000           | 2.01                | 4.02 | 3.54 | 3.06 | 1.69 | 1.77 | 0.98 | 1/2"    | 2.73 |
| FLRSC-NSN (Reduced Port NPT-F, Companion, C.61) |               |                |                |                     |      |      |      |      |      |      |         |      |
| FLRSC-0500SSN                                   | 1/2"          | 3/8" NPT       | 5000           | 0.51                | 2.24 | 1.81 | 1.50 | 0.69 | 1.42 | 0.63 | 5/16"   | 0.62 |
| FLRSC-0750SSN                                   | 3/4"          | 1/2" NPT       | 5000           | 0.51                | 2.56 | 1.97 | 1.88 | 0.88 | 1.42 | 0.71 | 3/8"    | 0.97 |
| FLRSC-1000SSN                                   | 1"            | 3/4" NPT       | 5000           | 0.75                | 2.76 | 2.17 | 2.06 | 1.03 | 1.38 | 0.83 | 3/8"    | 1.21 |
| FLRSC-1250SSN                                   | 1 1/4"        | 1" NPT         | 4000           | 0.98                | 3.19 | 2.56 | 2.31 | 1.19 | 1.65 | 0.98 | 7/16"   | 1.87 |
| FLRSC-1500SSN                                   | 1 1/2"        | 1 1/4" NPT     | 3000           | 1.26                | 3.74 | 3.07 | 2.75 | 1.41 | 1.77 | 1.06 | 1/2"    | 2.73 |
| FLRSC-2000SSN                                   | 2"            | 1 1/2" NPT     | 3000           | 1.50                | 4.02 | 3.54 | 3.06 | 1.69 | 1.77 | 0.98 | 1/2"    | 3.51 |
| FLRSC-SSN (Reduced Port SAE-F, Companion, C.61) |               |                |                |                     |      |      |      |      |      |      |         |      |
| FLRSC-0500SSN                                   | 1/2"          | 3/8" SAE       | 5000           | 0.51                | 2.24 | 1.81 | 1.50 | 0.69 | 1.42 | 0.63 | 5/16"   | 0.62 |
| FLRSC-0750SSN                                   | 3/4"          | 1/2" SAE       | 5000           | 0.51                | 2.56 | 1.97 | 1.88 | 0.88 | 1.42 | 0.71 | 3/8"    | 0.97 |
| FLRSC-1000SSN                                   | 1"            | 3/4" SAE       | 5000           | 0.75                | 2.76 | 2.17 | 2.06 | 1.03 | 1.38 | 0.83 | 3/8"    | 1.21 |
| FLRSC-1250SSN                                   | 1 1/4"        | 1" SAE         | 4000           | 0.98                | 3.19 | 2.56 | 2.31 | 1.19 | 1.65 | 0.98 | 7/16"   | 1.87 |
| FLRSC-1500SSN                                   | 1 1/2"        | 1 1/4" SAE     | 3000           | 1.26                | 3.74 | 3.07 | 2.75 | 1.41 | 1.77 | 1.06 | 1/2"    | 2.73 |
| FLRSC-2000SSN                                   | 2"            | 1 1/2" SAE     | 3000           | 1.50                | 4.02 | 3.54 | 3.06 | 1.69 | 1.77 | 0.98 | 1/2"    | 3.51 |



# Code 62 Threaded 4-Bolt

For imperial SAE Flange spec; NPT-F & SAE-F ports  
Standard & Companion ~ Full & Reduced Port models



DMIC's **FH** series of Code 62 Forged Steel 4-Bolt flanges are suitable for increasingly more prevalent applications which exceed the Code 61 specification (>3,000 PSI). Engineered with extra heavy construction and generous safety factor for complete peace of mind.

- Sizes from 1/2" through 2", full port and one-size-reduced port models
- Extensive stock of "Standard" and "Companion" types
- Available in Stainless Steel; production leadtime may apply
- Metric companion model is available by special order
- DMIC "Standard" flanges designed to accept either UNC or metric bolt

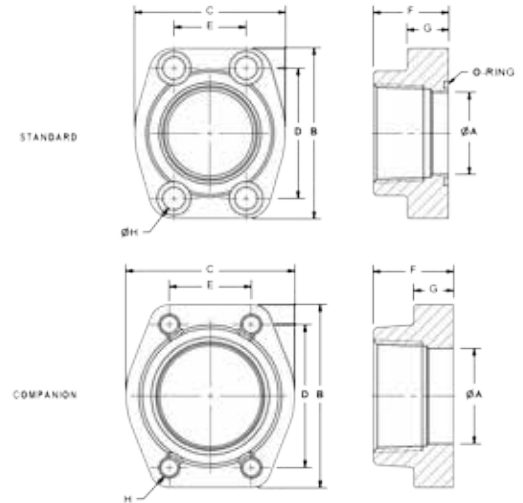
## Standard Code 62 Threaded 4-Bolt Flanges (with O-Ring Groove)

| Standard Flange<br>Part Number                 | Size          |                | Working<br>PSI | Dimensions (inches) |      |      |      |      |      |      |      |       | O-Ring |
|------------------------------------------------|---------------|----------------|----------------|---------------------|------|------|------|------|------|------|------|-------|--------|
|                                                | Flange<br>Pad | Port<br>Thread |                | A                   | B    | C    | D    | E    | F    | G    | H    | lbs.  |        |
| FH4SU-NSN (NPT-F Thread, Standard, C.62)       |               |                |                |                     |      |      |      |      |      |      |      |       |        |
| FH4SU-0500NSN                                  | ½"            | ½" NPT         | 6000<br>PSI    | 0.51                | 2.24 | 1.81 | 1.59 | 0.72 | 1.42 | 0.63 | 0.35 | 0.55  | 2-210  |
| FH4SU-0750NSN                                  | ¾"            | ¾" NPT         |                | 0.75                | 2.80 | 2.17 | 2.00 | 0.94 | 1.38 | 0.83 | 0.43 | 1.12  | 2-214  |
| FH4SU-1000NSN                                  | 1"            | 1" NPT         |                | 0.98                | 3.19 | 2.56 | 2.25 | 1.09 | 1.65 | 0.98 | 0.51 | 1.79  | 2-219  |
| FH4SU-1250NSN                                  | 1¼"           | 1¼" NPT        |                | 1.26                | 3.74 | 3.07 | 2.63 | 1.25 | 1.77 | 1.06 | 0.59 | 2.49  | 2-222  |
| FH4SU-1500NSN                                  | 1½"           | 1½" NPT        |                | 1.50                | 4.41 | 3.70 | 3.13 | 1.44 | 1.97 | 1.18 | 0.67 | 3.99  | 2-225  |
| FH4SU-2000NSN                                  | 2"            | 2" NPT         |                | 2.01                | 5.28 | 4.49 | 3.81 | 1.75 | 2.56 | 1.46 | 0.83 | 7.30  | 2-228  |
| FH4SU-2500NSN                                  | 2½"           | 2½" NPT        |                | 2.48                | 7.09 | 5.98 | 4.87 | 2.31 | 3.15 | 1.77 | 1.02 | 15.40 | 2-232  |
| FH4SU-3000NSN                                  | 3"            | 3" NPT         |                | 2.87                | 8.19 | 7.01 | 6.00 | 2.81 | 3.54 | 2.17 | 1.30 | 24.64 | 2-237  |
| FH4SU-SSN (SAE-F Thread, Standard, C.62)       |               |                |                |                     |      |      |      |      |      |      |      |       |        |
| FH4SU-0500SSN                                  | ½"            | ½" SAE         | 6000<br>PSI    | 0.51                | 2.24 | 1.81 | 1.59 | 0.72 | 1.42 | 0.63 | 0.35 | 0.55  | 2-210  |
| FH4SU-0750SSN                                  | ¾"            | ¾" SAE         |                | 0.75                | 2.80 | 2.17 | 2.00 | 0.94 | 1.38 | 0.83 | 0.43 | 1.12  | 2-214  |
| FH4SU-1000SSN                                  | 1"            | 1" SAE         |                | 0.98                | 3.19 | 2.56 | 2.25 | 1.09 | 1.65 | 0.98 | 0.51 | 1.79  | 2-219  |
| FH4SU-1250SSN                                  | 1¼"           | 1¼" SAE        |                | 1.26                | 3.74 | 3.07 | 2.63 | 1.25 | 1.77 | 1.06 | 0.59 | 2.49  | 2-222  |
| FH4SU-1500SSN                                  | 1½"           | 1½" SAE        |                | 1.50                | 4.41 | 3.70 | 3.13 | 1.44 | 1.97 | 1.18 | 0.67 | 3.99  | 2-225  |
| FH4SU-2000SSN                                  | 2"            | 2" SAE         |                | 2.01                | 5.28 | 4.49 | 3.81 | 1.75 | 2.56 | 1.46 | 0.83 | 7.30  | 2-228  |
| FHRSU-NSN (Reduced Port NPT-F, Standard, C.62) |               |                |                |                     |      |      |      |      |      |      |      |       |        |
| FHRSU-0500NSN                                  | ½"            | ⅜" NPT         | 6000<br>PSI    | 0.51                | 2.24 | 1.81 | 1.59 | 0.72 | 1.42 | 0.63 | 0.35 | 0.62  | 2-210  |
| FHRSU-0750NSN                                  | ¾"            | ½" NPT         |                | 0.51                | 2.80 | 2.17 | 2.00 | 0.94 | 1.38 | 0.83 | 0.43 | 1.23  | 2-214  |
| FHRSU-1000NSN                                  | 1"            | ¾" NPT         |                | 0.75                | 3.19 | 2.56 | 2.25 | 1.09 | 1.65 | 0.98 | 0.51 | 1.85  | 2-219  |
| FHRSU-1250NSN                                  | 1¼"           | 1" NPT         |                | 0.98                | 3.74 | 3.07 | 2.63 | 1.25 | 1.77 | 1.06 | 0.59 | 2.78  | 2-222  |
| FHRSU-1500NSN                                  | 1½"           | 1¼" NPT        |                | 1.26                | 4.41 | 3.70 | 3.13 | 1.44 | 1.97 | 1.18 | 0.67 | 4.30  | 2-225  |
| FHRSU-2000NSN                                  | 2"            | 1½" NPT        |                | 1.50                | 5.28 | 4.49 | 3.81 | 1.75 | 2.56 | 1.46 | 0.83 | 8.38  | 2-228  |
| FHRSU-SSN (Reduced Port SAE-F, Standard, C.62) |               |                |                |                     |      |      |      |      |      |      |      |       |        |
| FHRSU-0500SSN                                  | ½"            | ⅜" SAE         | 6000<br>PSI    | 0.51                | 2.24 | 1.81 | 1.59 | 0.72 | 1.42 | 0.63 | 0.35 | 0.62  | 2-210  |
| FHRSU-0750SSN                                  | ¾"            | ½" SAE         |                | 0.51                | 2.80 | 2.17 | 2.00 | 0.94 | 1.38 | 0.83 | 0.43 | 1.23  | 2-214  |
| FHRSU-1000SSN                                  | 1"            | ¾" SAE         |                | 0.75                | 3.19 | 2.56 | 2.25 | 1.09 | 1.65 | 0.98 | 0.51 | 1.85  | 2-219  |
| FHRSU-1250SSN                                  | 1¼"           | 1" SAE         |                | 0.98                | 3.74 | 3.07 | 2.63 | 1.25 | 1.77 | 1.06 | 0.59 | 2.78  | 2-222  |
| FHRSU-1500SSN                                  | 1½"           | 1¼" SAE        |                | 1.26                | 4.41 | 3.70 | 3.13 | 1.44 | 1.97 | 1.18 | 0.67 | 4.30  | 2-225  |
| FHRSU-2000SSN                                  | 2"            | 1½" SAE        |                | 1.50                | 5.28 | 4.49 | 3.81 | 1.75 | 2.56 | 1.46 | 0.83 | 8.38  | 2-228  |



## Ordering Codes Summary

|                                |                                                                  |          |   |             |   |          |          |          |
|--------------------------------|------------------------------------------------------------------|----------|---|-------------|---|----------|----------|----------|
| <b>FH</b>                      | <b>RS</b>                                                        | <b>C</b> | - | <b>1500</b> | - | <b>S</b> | <b>S</b> | <b>K</b> |
|                                |                                                                  |          |   |             |   |          |          |          |
| <b>Type</b>                    |                                                                  |          |   |             |   |          |          |          |
| 4S                             | Full Port                                                        |          |   |             |   |          |          |          |
| RS                             | Reduced Port                                                     |          |   |             |   |          |          |          |
| <b>Configuration</b>           |                                                                  |          |   |             |   |          |          |          |
| U                              | Standard Flange                                                  |          |   |             |   |          |          |          |
| C                              | Companion Flange                                                 |          |   |             |   |          |          |          |
| <b>Size</b>                    |                                                                  |          |   |             |   |          |          |          |
| Expressed in 1/1000" units     |                                                                  |          |   |             |   |          |          |          |
| <b>Port Thread</b>             |                                                                  |          |   |             |   |          |          |          |
| N                              | NPT-F                                                            |          |   |             |   |          |          |          |
| S                              | SAE-F                                                            |          |   |             |   |          |          |          |
| <b>Material</b>                |                                                                  |          |   |             |   |          |          |          |
| S                              | Forged Steel                                                     |          |   |             |   |          |          |          |
| Z                              | Stainless Steel                                                  |          |   |             |   |          |          |          |
| <b>Hardware Kit Easy Order</b> |                                                                  |          |   |             |   |          |          |          |
| N                              | Flange Only                                                      |          |   |             |   |          |          |          |
| K                              | Add Hardware Kit<br>for this flange<br>(See Page 16 for Options) |          |   |             |   |          |          |          |



Due to our policy of continual product improvement, the specifications in this catalog may change without notice. When designing by spec, please request a certified print.

## Companion Code 62 Threaded 4-Bolt Flanges (with Tapped Bolt Holes)

| Standard Flange<br>Part Number                  | Size          |                | Working<br>PSI | Dimensions (inches) |      |      |      |      |      |      |         |       |
|-------------------------------------------------|---------------|----------------|----------------|---------------------|------|------|------|------|------|------|---------|-------|
|                                                 | Flange<br>Pad | Port<br>Thread |                | A                   | B    | C    | D    | E    | F    | G    | H (UNC) | lbs.  |
| FH4SC-NSN (NPT-F Thread, Companion, C.62)       |               |                |                |                     |      |      |      |      |      |      |         |       |
| FH4SC-0500NSN                                   | ½"            | ½" NPT         | 6000<br>PSI    | 0.51                | 2.24 | 1.81 | 1.59 | 0.72 | 1.42 | 0.63 | ⅝"      | 0.57  |
| FH4SC-0750NSN                                   | ¾"            | ¾" NPT         |                | 0.75                | 2.80 | 2.17 | 2.00 | 0.94 | 1.38 | 0.83 | ⅜"      | 1.21  |
| FH4SC-1000NSN                                   | 1"            | 1" NPT         |                | 0.98                | 3.19 | 2.56 | 2.25 | 1.09 | 1.65 | 0.98 | ⅞"      | 1.92  |
| FH4SC-1250NSN                                   | 1¼"           | 1¼" NPT        |                | 1.26                | 3.74 | 3.07 | 2.63 | 1.25 | 1.77 | 1.06 | ½"      | 2.67  |
| FH4SC-1500NSN                                   | 1½"           | 1½" NPT        |                | 1.50                | 4.41 | 3.70 | 3.13 | 1.44 | 1.97 | 1.18 | ⅝"      | 4.19  |
| FH4SC-2000NSN                                   | 2"            | 2" NPT         |                | 2.01                | 5.28 | 4.49 | 3.81 | 1.75 | 2.56 | 1.46 | ¾"      | 7.56  |
| FH4SC-2500NSN                                   | 2½"           | 2½" NPT        |                | 2.48                | 7.09 | 5.98 | 4.87 | 2.31 | 3.15 | 1.77 | ⅞"      | 15.95 |
| FH4SC-3000NSN                                   | 3"            | 3" NPT         |                | 2.87                | 8.19 | 7.01 | 6.00 | 2.81 | 3.54 | 2.17 | 1⅛"     | 25.96 |
| FH4SC-SSN (SAE-F Thread, Companion, C.62)       |               |                |                |                     |      |      |      |      |      |      |         |       |
| FH4SC-0500SSN                                   | ½"            | ½" SAE         | 6000<br>PSI    | 0.51                | 2.24 | 1.81 | 1.59 | 0.72 | 1.42 | 0.63 | ⅝"      | 0.57  |
| FH4SC-0750SSN                                   | ¾"            | ¾" SAE         |                | 0.75                | 2.80 | 2.17 | 2.00 | 0.94 | 1.38 | 0.83 | ⅜"      | 1.21  |
| FH4SC-1000SSN                                   | 1"            | 1" SAE         |                | 0.98                | 3.19 | 2.56 | 2.25 | 1.09 | 1.65 | 0.98 | ⅞"      | 1.92  |
| FH4SC-1250SSN                                   | 1¼"           | 1¼" SAE        |                | 1.26                | 3.74 | 3.07 | 2.63 | 1.25 | 1.77 | 1.06 | ½"      | 2.67  |
| FH4SC-1500SSN                                   | 1½"           | 1½" SAE        |                | 1.50                | 4.41 | 3.70 | 3.13 | 1.44 | 1.97 | 1.18 | ⅝"      | 4.19  |
| FH4SC-2000SSN                                   | 2"            | 2" SAE         |                | 2.01                | 5.28 | 4.49 | 3.81 | 1.75 | 2.56 | 1.46 | ¾"      | 7.56  |
| FHRSC-NSN (Reduced Port NPT-F, Companion, C.62) |               |                |                |                     |      |      |      |      |      |      |         |       |
| FHRSC-0500NSN                                   | ½"            | ⅜" NPT         | 6000<br>PSI    | 0.51                | 2.24 | 1.81 | 1.59 | 0.72 | 1.42 | 0.63 | ⅝"      | 0.64  |
| FHRSC-0750NSN                                   | ¾"            | ½" NPT         |                | 0.51                | 2.80 | 2.17 | 2.00 | 0.94 | 1.38 | 0.83 | ⅜"      | 1.32  |
| FHRSC-1000NSN                                   | 1"            | ¾" NPT         |                | 0.75                | 3.19 | 2.56 | 2.25 | 1.09 | 1.65 | 0.98 | ⅞"      | 1.98  |
| FHRSC-1250NSN                                   | 1¼"           | 1" NPT         |                | 0.98                | 3.74 | 3.07 | 2.63 | 1.25 | 1.77 | 1.06 | ½"      | 2.95  |
| FHRSC-1500NSN                                   | 1½"           | 1¼" NPT        |                | 1.26                | 4.41 | 3.70 | 3.13 | 1.44 | 1.97 | 1.18 | ⅝"      | 4.48  |
| FHRSC-2000NSN                                   | 2"            | 1½" NPT        |                | 1.50                | 5.28 | 4.49 | 3.81 | 1.75 | 2.56 | 1.46 | ¾"      | 8.64  |
| FHRSC-SSN (Reduced Port SAE-F, Companion, C.62) |               |                |                |                     |      |      |      |      |      |      |         |       |
| FHRSC-0500SSN                                   | ½"            | ⅜" SAE         | 6000<br>PSI    | 0.51                | 2.24 | 1.81 | 1.59 | 0.72 | 1.42 | 0.63 | ⅝"      | 0.64  |
| FHRSC-0750SSN                                   | ¾"            | ½" SAE         |                | 0.51                | 2.80 | 2.17 | 2.00 | 0.94 | 1.38 | 0.83 | ⅜"      | 1.32  |
| FHRSC-1000SSN                                   | 1"            | ¾" SAE         |                | 0.75                | 3.19 | 2.56 | 2.25 | 1.09 | 1.65 | 0.98 | ⅞"      | 1.98  |
| FHRSC-1250SSN                                   | 1¼"           | 1" SAE         |                | 0.98                | 3.74 | 3.07 | 2.63 | 1.25 | 1.77 | 1.06 | ½"      | 2.95  |
| FHRSC-1500SSN                                   | 1½"           | 1¼" SAE        |                | 1.26                | 4.41 | 3.70 | 3.13 | 1.44 | 1.97 | 1.18 | ⅝"      | 4.48  |
| FHRSC-2000SSN                                   | 2"            | 1½" SAE        |                | 1.50                | 5.28 | 4.49 | 3.81 | 1.75 | 2.56 | 1.46 | ¾"      | 8.64  |



# Threaded 90° Elbows

## Premium Forged Steel design NPT/SAE thread ~ Sizes from 1/2" to 2"



DMIC Forged Steel 90° Elbows are engineered to promote laminar flow through the change of fluid direction. Additional benefits include weight savings and aesthetic improvement. DMIC offers extensive stock of 90° Elbows for rapid shipment.

- Sizes from 1/2" through 2", full port size only
- "Standard" type with through bolt holes and O-Ring groove
- Reduced pressure drop and improved laminar flow
- DMIC "Standard" flanges designed to accept either UNC or metric bolts

## Code 61 Threaded 90° Elbow Flanges (with O-Ring Groove)

| 90° Elbow<br>Flange<br>Part Number       | Size          |                | Working<br>PSI | Dimensions (inches) |      |      |      |      |      |      |      |      |      | O-Ring |
|------------------------------------------|---------------|----------------|----------------|---------------------|------|------|------|------|------|------|------|------|------|--------|
|                                          | Flange<br>Pad | Port<br>Thread |                | A                   | B    | C    | D    | E    | F    | G    | H    | J    | lbs. |        |
| FL4EU-NSN (NPT-F Thread, Standard, C.61) |               |                |                |                     |      |      |      |      |      |      |      |      |      |        |
| FL4EU-0500NSN                            | ½"            | ½" NPT         | 5000           | 0.51                | 2.13 | 2.36 | 1.50 | 0.69 | 0.79 | 0.63 | 0.35 | 1.46 | 0.62 | 2-210  |
| FL4EU-0750NSN                            | ¾"            | ¾" NPT         | 5000           | 0.75                | 2.56 | 2.48 | 1.88 | 0.88 | 0.94 | 0.71 | 0.43 | 1.50 | 0.99 | 2-214  |
| FL4EU-1000NSN                            | 1"            | 1" NPT         | 5000           | 0.98                | 2.76 | 2.76 | 2.06 | 1.03 | 1.10 | 0.75 | 0.43 | 1.69 | 1.23 | 2-219  |
| FL4EU-1250NSN                            | 1¼"           | 1¼" NPT        | 4000           | 1.26                | 3.11 | 3.35 | 2.31 | 1.19 | 1.34 | 0.83 | 0.45 | 2.01 | 1.96 | 2-222  |
| FL4EU-1500NSN                            | 1½"           | 1½" NPT        | 3000           | 1.50                | 3.66 | 3.74 | 2.75 | 1.41 | 1.50 | 0.98 | 0.53 | 2.20 | 2.60 | 2-225  |
| FL4EU-2000NSN                            | 2"            | 2" NPT         | 3000           | 2.01                | 4.33 | 4.33 | 3.06 | 1.69 | 1.65 | 0.98 | 0.53 | 2.56 | 4.54 | 2-228  |
| FL4EU-SSN (SAE-F Thread, Standard, C.61) |               |                |                |                     |      |      |      |      |      |      |      |      |      |        |
| FL4EU-0500SSN                            | ½"            | ½" SAE         | 5000           | 0.51                | 2.13 | 2.36 | 1.50 | 0.69 | 0.79 | 0.63 | 0.35 | 1.46 | 0.62 | 2-210  |
| FL4EU-0750SSN                            | ¾"            | ¾" SAE         | 5000           | 0.75                | 2.56 | 2.48 | 1.88 | 0.88 | 0.94 | 0.71 | 0.43 | 1.50 | 0.99 | 2-214  |
| FL4EU-1000SSN                            | 1"            | 1" SAE         | 5000           | 0.98                | 2.76 | 2.76 | 2.06 | 1.03 | 1.10 | 0.75 | 0.43 | 1.69 | 1.23 | 2-219  |
| FL4EU-1250SSN                            | 1¼"           | 1¼" SAE        | 4000           | 1.26                | 3.11 | 3.35 | 2.31 | 1.19 | 1.34 | 0.83 | 0.45 | 2.01 | 1.96 | 2-222  |
| FL4EU-1500SSN                            | 1½"           | 1½" SAE        | 3000           | 1.50                | 3.66 | 3.74 | 2.75 | 1.41 | 1.50 | 0.98 | 0.53 | 2.20 | 2.60 | 2-225  |
| FL4EU-2000SSN                            | 2"            | 2" SAE         | 3000           | 2.01                | 4.33 | 4.33 | 3.06 | 1.69 | 1.65 | 0.98 | 0.53 | 2.56 | 4.54 | 2-228  |

## Code 62 Threaded 90° Elbow Flanges (with O-Ring Groove)

| 90° Elbow<br>Flange<br>Part Number       | Size          |                | Working<br>PSI | Dimensions (inches) |      |      |      |      |      |      |      |      |      | O-Ring |
|------------------------------------------|---------------|----------------|----------------|---------------------|------|------|------|------|------|------|------|------|------|--------|
|                                          | Flange<br>Pad | Port<br>Thread |                | A                   | B    | C    | D    | E    | F    | G    | H    | J    | lbs. |        |
| FH4EU-NSN (NPT-F Thread, Standard, C.62) |               |                |                |                     |      |      |      |      |      |      |      |      |      |        |
| FH4EU-0500NSN                            | ½"            | ½" NPT         | 6000           | 0.51                | 2.13 | 2.36 | 1.59 | 0.72 | 0.79 | 0.63 | 0.35 | 1.46 | 0.62 | 2-210  |
| FH4EU-0750NSN                            | ¾"            | ¾" NPT         |                | 0.75                | 2.76 | 2.76 | 2.00 | 0.94 | 1.10 | 0.75 | 0.43 | 1.69 | 1.52 | 2-214  |
| FH4EU-1000NSN                            | 1"            | 1" NPT         |                | 0.98                | 3.11 | 3.35 | 2.25 | 1.09 | 1.34 | 0.83 | 0.51 | 2.01 | 2.45 | 2-219  |
| FH4EU-1250NSN                            | 1¼"           | 1¼" NPT        |                | 1.26                | 3.66 | 3.74 | 2.63 | 1.25 | 1.50 | 0.98 | 0.59 | 2.20 | 3.20 | 2-222  |
| FH4EU-1500NSN                            | 1½"           | 1½" NPT        |                | 1.50                | 4.33 | 4.33 | 3.13 | 1.44 | 1.65 | 0.98 | 0.67 | 2.56 | 6.06 | 2-225  |
| FH4EU-2000NSN                            | 2"            | 2" NPT         |                | 2.01                | 5.28 | 5.20 | 3.81 | 1.75 | 1.77 | 1.38 | 0.83 | 2.95 | 8.71 | 2-228  |
| FH4EU-SSN (SAE-F Thread, Standard, C.62) |               |                |                |                     |      |      |      |      |      |      |      |      |      |        |
| FH4EU-0500SSN                            | ½"            | ½" SAE         | 6000           | 0.51                | 2.13 | 2.36 | 1.59 | 0.72 | 0.79 | 0.63 | 0.35 | 1.46 | 0.62 | 2-210  |
| FH4EU-0750SSN                            | ¾"            | ¾" SAE         |                | 0.75                | 2.76 | 2.76 | 2.00 | 0.94 | 1.10 | 0.75 | 0.43 | 1.69 | 1.52 | 2-214  |
| FH4EU-1000SSN                            | 1"            | 1" SAE         |                | 0.98                | 3.11 | 3.35 | 2.25 | 1.09 | 1.34 | 0.83 | 0.51 | 2.01 | 2.45 | 2-219  |
| FH4EU-1250SSN                            | 1¼"           | 1¼" SAE        |                | 1.26                | 3.66 | 3.74 | 2.63 | 1.25 | 1.50 | 0.98 | 0.59 | 2.20 | 3.20 | 2-222  |
| FH4EU-1500SSN                            | 1½"           | 1½" SAE        |                | 1.50                | 4.33 | 4.33 | 3.13 | 1.44 | 1.65 | 0.98 | 0.67 | 2.56 | 6.06 | 2-225  |
| FH4EU-2000SSN                            | 2"            | 2" SAE         |                | 2.01                | 5.28 | 5.20 | 3.81 | 1.75 | 1.77 | 1.38 | 0.83 | 2.95 | 8.71 | 2-228  |



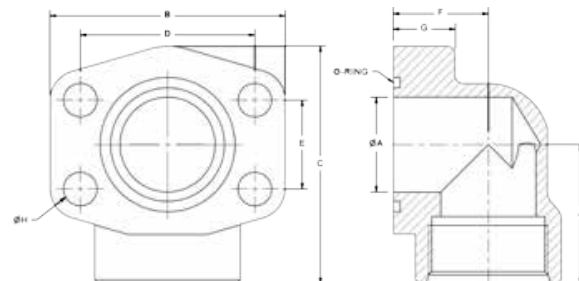


## Ordering Codes Summary

| Series                     |                  |
|----------------------------|------------------|
| FL                         | C.61             |
| FH                         | C.62             |
| Type                       |                  |
| 4E                         | 90° Forged Elbow |
| Configuration              |                  |
| U                          | Standard Flange  |
| C                          | Companion Flange |
| Size                       |                  |
| Expressed in 1/1000" units |                  |
| Port Thread                |                  |
| N                          | NPT-F            |
| S                          | SAE-F            |
| Material                   |                  |
| S                          | Forged Steel     |
| Z                          | Stainless Steel  |

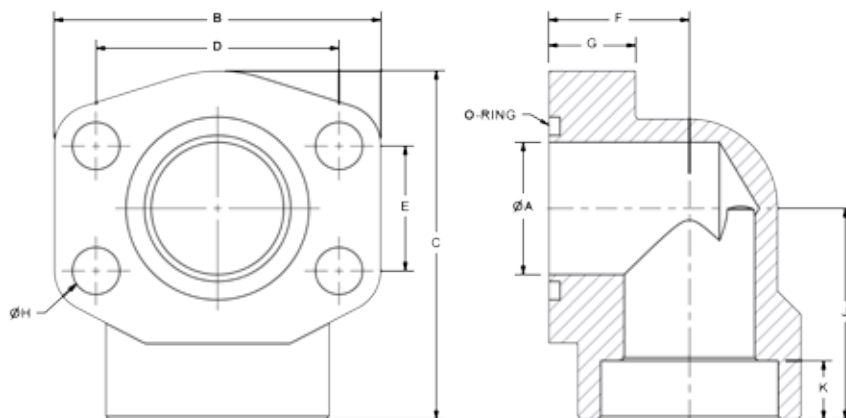
**FH 4E U - 0750 - N S N**

| Hardware Kit Easy Order |                                                            |
|-------------------------|------------------------------------------------------------|
| N                       | Flange Only                                                |
| K                       | Add Hardware Kit for this flange (See Page 16 for Options) |



Due to our policy of continual product improvement, the specifications in this catalog may change without notice. When designing by spec, please request a certified print.

## Socket Weld 90° Elbows



| Standard<br>Flange<br>Part Number   | Size          |         | Working<br>PSI | Dimensions (inches) |      |      |      |      |      |      |      |      |      |      | O-Ring |  |
|-------------------------------------|---------------|---------|----------------|---------------------|------|------|------|------|------|------|------|------|------|------|--------|--|
|                                     | Flange<br>Pad | Pipe OD |                | A                   | B    | C    | D    | E    | F    | G    | H    | J    | K    | lbs. |        |  |
| FWIEL (Socket Weld, Standard, C.61) |               |         |                |                     |      |      |      |      |      |      |      |      |      |      |        |  |
| FWIEL-0500SN                        | ½"            | 0.84    | 5000           | 0.51                | 2.13 | 2.36 | 1.50 | 0.69 | 0.79 | 0.63 | 0.35 | 1.46 | 0.39 | 0.62 | 2-210  |  |
| FWIEL-0750SN                        | ¾"            | 1.05    | 5000           | 0.75                | 2.56 | 2.48 | 1.88 | 0.88 | 0.94 | 0.71 | 0.43 | 1.50 | 0.39 | 0.99 | 2-214  |  |
| FWIEL-1000SN                        | 1"            | 1.31    | 5000           | 0.98                | 2.76 | 2.76 | 2.06 | 1.03 | 1.10 | 0.75 | 0.43 | 1.69 | 0.47 | 1.23 | 2-219  |  |
| FWIEL-1250SN                        | 1¼"           | 1.66    | 4000           | 1.26                | 3.11 | 3.35 | 2.31 | 1.19 | 1.34 | 0.83 | 0.45 | 2.01 | 0.55 | 1.96 | 2-222  |  |
| FWIEL-1500SN                        | 1½"           | 1.91    | 3000           | 1.50                | 3.66 | 3.74 | 2.75 | 1.41 | 1.50 | 0.98 | 0.53 | 2.20 | 0.63 | 2.60 | 2-225  |  |
| FWIEL-2000SN                        | 2"            | 2.38    | 3000           | 2.01                | 4.33 | 4.33 | 3.06 | 1.69 | 1.65 | 0.98 | 0.53 | 2.56 | 0.71 | 4.54 | 2-228  |  |
| FWIEH (Socket Weld, Standard, C.62) |               |         |                |                     |      |      |      |      |      |      |      |      |      |      |        |  |
| FWIEH-0500SN                        | ½"            | 0.84    | 6000           | 0.51                | 2.13 | 2.36 | 1.59 | 0.72 | 0.79 | 0.63 | 0.35 | 1.46 | 0.39 | 0.62 | 2-210  |  |
| FWIEH-0750SN                        | ¾"            | 1.05    |                | 0.75                | 0.39 | 2.76 | 2.00 | 0.94 | 1.10 | 0.75 | 0.43 | 1.69 | 0.47 | 1.52 | 2-214  |  |
| FWIEH-1000SN                        | 1"            | 1.31    |                | 0.98                | 3.11 | 3.35 | 2.25 | 1.09 | 1.34 | 0.83 | 0.51 | 2.01 | 0.55 | 2.45 | 2-219  |  |
| FWIEH-1250SN                        | 1¼"           | 1.66    |                | 1.26                | 3.66 | 3.74 | 2.63 | 1.25 | 1.50 | 0.98 | 0.59 | 2.20 | 0.63 | 3.20 | 2-222  |  |
| FWIEH-1500SN                        | 1½"           | 1.91    |                | 1.50                | 4.33 | 4.33 | 3.13 | 1.44 | 1.65 | 0.98 | 0.67 | 2.56 | 0.71 | 6.06 | 2-225  |  |
| FWIEH-2000SN                        | 2"            | 2.38    |                | 2.01                | 5.28 | 5.20 | 3.81 | 1.75 | 1.77 | 1.38 | 0.83 | 2.95 | 0.98 | 8.49 | 2-228  |  |



# Socket Weld 4-Bolt

Deep socket pipe guide reduces skilled welding labor  
Standard & Companion ~ Pipe & Tube\* models



DMIC's **FWI** Deep Socket Weld flanges contain a deep pipe guide that ensures square and true welded connections. Extensive stock of all sizes for rapid shipment.

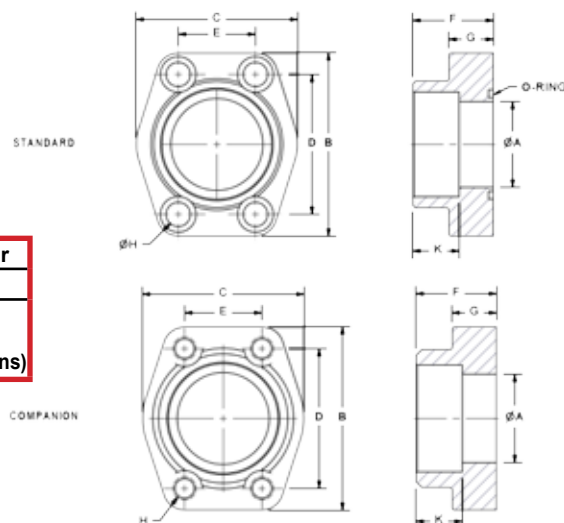
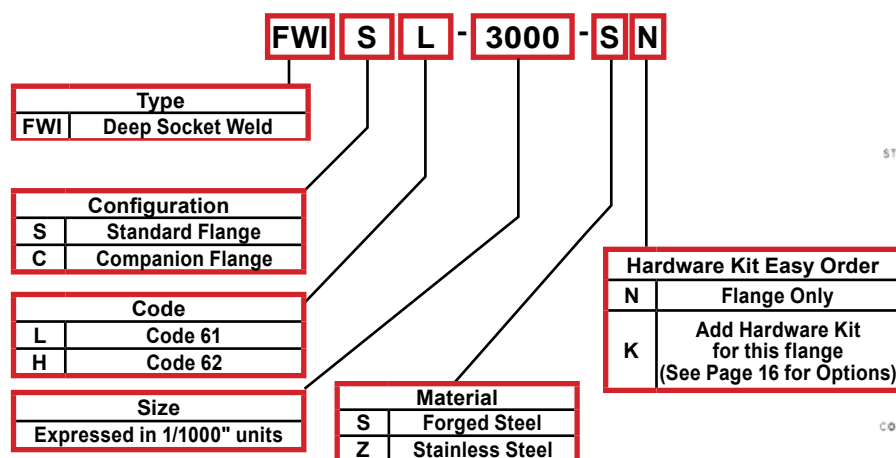
- Sizes from 1/2" through 4"
- Extensive stock of "Standard" and "Companion" types
- Available in Stainless Steel (production leadtime may apply)
- DMIC "Standard" flanges designed to accept either UNC or metric bolts

## Standard Socket Weld Flanges (with O-Ring Groove)

| Standard<br>Flange<br>Part Number   | Size   |         | Working<br>PSI | Dimensions (inches) |      |      |      |      |      |      |      |      |       | O-Ring |
|-------------------------------------|--------|---------|----------------|---------------------|------|------|------|------|------|------|------|------|-------|--------|
|                                     | Flange | Pipe OD |                | A                   | B    | C    | D    | E    | F    | G    | H    | K    | lbs.  |        |
| FWISL (Socket Weld, Standard, C.61) |        |         |                |                     |      |      |      |      |      |      |      |      |       |        |
| FWISL-0500SN                        | ½"     | 0.84    | 5000           | 0.51                | 2.24 | 1.81 | 1.50 | 0.69 | 1.42 | 0.63 | 0.35 | 0.75 | 0.55  | 2-210  |
| FWISL-0750SN                        | ¾"     | 1.05    | 5000           | 0.75                | 2.56 | 1.97 | 1.88 | 0.88 | 1.42 | 0.71 | 0.43 | 0.75 | 0.82  | 2-214  |
| FWISL-1000SN                        | 1"     | 1.31    | 5000           | 0.98                | 2.76 | 2.17 | 2.06 | 1.03 | 1.50 | 0.71 | 0.43 | 0.75 | 0.99  | 2-219  |
| FWISL-1250SN                        | 1¼"    | 1.66    | 4000           | 1.26                | 3.11 | 2.68 | 2.31 | 1.19 | 1.61 | 0.83 | 0.45 | 0.87 | 1.46  | 2-222  |
| FWISL-1500SN                        | 1½"    | 1.91    | 3000           | 1.50                | 3.66 | 3.07 | 2.75 | 1.41 | 1.77 | 0.98 | 0.53 | 0.94 | 2.27  | 2-225  |
| FWISL-2000SN                        | 2"     | 2.38    | 3000           | 2.01                | 4.02 | 3.54 | 3.06 | 1.69 | 1.77 | 0.98 | 0.53 | 1.02 | 2.58  | 2-228  |
| FWISL-2500SN                        | 2½"    | 2.88    | 2500           | 2.48                | 4.49 | 4.13 | 3.50 | 2.00 | 1.97 | 0.98 | 0.53 | 1.18 | 3.37  | 2-232  |
| FWISL-3000SN                        | 3"     | 3.50    | 2000           | 2.87                | 5.28 | 4.88 | 4.19 | 2.44 | 1.97 | 1.06 | 0.69 | 1.34 | 4.61  | 2-237  |
| FWISL-3500SN                        | 3½"    | 4.00    | 500            | 3.50                | 5.98 | 5.35 | 4.75 | 2.75 | 1.89 | 1.06 | 0.69 | 1.34 | 5.18  | 2-241  |
| FWISL-4000SN                        | 4"     | 4.50    | 500            | 3.90                | 6.38 | 5.75 | 5.13 | 3.06 | 1.89 | 1.06 | 0.69 | 1.34 | 5.95  | 2-245  |
| FWISH (Socket Weld, Standard, C.62) |        |         |                |                     |      |      |      |      |      |      |      |      |       |        |
| FWISH-0500SN                        | ½"     | 0.84    | 6000           | 0.51                | 2.24 | 1.81 | 1.59 | 0.72 | 1.42 | 0.63 | 0.35 | 0.75 | 0.55  | 2-210  |
| FWISH-0750SN                        | ¾"     | 1.05    |                | 0.75                | 2.80 | 2.17 | 2.00 | 0.94 | 1.38 | 0.83 | 0.43 | 0.87 | 1.12  | 2-214  |
| FWISH-1000SN                        | 1"     | 1.31    |                | 0.98                | 3.19 | 2.56 | 2.25 | 1.09 | 1.65 | 0.98 | 0.51 | 0.87 | 1.76  | 2-219  |
| FWISH-1250SN                        | 1¼"    | 1.66    |                | 1.26                | 3.74 | 3.07 | 2.63 | 1.25 | 1.77 | 1.06 | 0.59 | 0.98 | 2.49  | 2-222  |
| FWISH-1500SN                        | 1½"    | 1.91    |                | 1.50                | 4.41 | 3.70 | 3.13 | 1.43 | 1.97 | 1.18 | 0.67 | 1.10 | 4.10  | 2-225  |
| FWISH-2000SN                        | 2"     | 2.38    |                | 2.01                | 5.28 | 4.49 | 3.81 | 1.75 | 2.56 | 1.46 | 0.83 | 0.94 | 7.28  | 2-228  |
| FWISH-2500SN                        | 2½"    | 3.02    |                | 2.48                | 7.09 | 5.98 | 4.87 | 2.31 | 3.15 | 1.77 | 1.02 | 1.18 | 15.40 | 2-232  |
| FWISH-3000SN                        | 3"     | 3.56    |                | 2.87                | 8.19 | 7.01 | 6.00 | 2.81 | 3.54 | 2.17 | 1.30 | 1.18 | 24.64 | 2-237  |



## Ordering Codes Summary



Due to our policy of continual product improvement, the specifications in this catalog may change without notice. When designing by spec, please request a certified print.

## Companion Socket Weld Flanges (with Tapped Bolt Holes)

| Companion<br>Flange<br>Part Number   | Size   |         | Working<br>PSI | Dimensions (inches) |      |      |      |      |      |      |         |      |       |
|--------------------------------------|--------|---------|----------------|---------------------|------|------|------|------|------|------|---------|------|-------|
|                                      | Flange | Pipe OD |                | A                   | B    | C    | D    | E    | F    | G    | H (UNC) | K    | lbs.  |
| FWICL (Socket Weld, Companion, C.61) |        |         |                |                     |      |      |      |      |      |      |         |      |       |
| FWICL-0500SN                         | ½"     | 0.84    | 5000           | 0.51                | 2.24 | 1.81 | 1.50 | 0.69 | 1.42 | 0.63 | ⅝"      | 0.75 | 0.55  |
| FWICL-0750SN                         | ¾"     | 1.05    | 5000           | 0.75                | 2.56 | 1.97 | 1.88 | 0.88 | 1.42 | 0.71 | ⅜"      | 0.75 | 0.86  |
| FWICL-1000SN                         | 1"     | 1.31    | 5000           | 0.98                | 2.76 | 2.17 | 2.06 | 1.03 | 1.50 | 0.71 | ⅜"      | 0.75 | 1.01  |
| FWICL-1250SN                         | 1¼"    | 1.66    | 4000           | 1.26                | 3.11 | 2.68 | 2.31 | 1.19 | 1.61 | 0.83 | ⅞"      | 0.87 | 1.57  |
| FWICL-1500SN                         | 1½"    | 1.91    | 3000           | 1.50                | 3.66 | 3.07 | 2.75 | 1.41 | 1.77 | 0.98 | ½"      | 0.94 | 2.45  |
| FWICL-2000SN                         | 2"     | 2.38    | 3000           | 2.01                | 4.02 | 3.54 | 3.06 | 1.69 | 1.77 | 0.98 | ½"      | 1.02 | 2.62  |
| FWICL-2500SN                         | 2½"    | 2.88    | 2500           | 2.48                | 4.49 | 4.13 | 3.50 | 2.00 | 1.97 | 0.98 | ½"      | 1.18 | 3.09  |
| FWICL-3000SN                         | 3"     | 3.50    | 2000           | 2.87                | 5.28 | 4.88 | 4.19 | 2.44 | 1.97 | 1.06 | ⅝"      | 1.34 | 4.74  |
| FWICL-3500SN                         | 3½"    | 4.00    | 500            | 3.50                | 5.98 | 5.35 | 4.75 | 2.75 | 1.89 | 1.06 | ⅝"      | 1.34 | 5.29  |
| FWICL-4000SN                         | 4"     | 4.50    | 500            | 3.90                | 6.38 | 5.75 | 5.13 | 3.06 | 1.89 | 1.06 | ⅝"      | 1.34 | 6.28  |
| FWICH (Socket Weld, Companion, C.62) |        |         |                |                     |      |      |      |      |      |      |         |      |       |
| FWICH-0500SN                         | ½"     | 0.84    | 6000<br>PSI    | 0.51                | 2.24 | 1.81 | 1.59 | 0.72 | 1.42 | 0.63 | ⅝"      | 0.75 | 0.57  |
| FWICH-0750SN                         | ¾"     | 1.05    |                | 0.75                | 2.80 | 2.17 | 2.00 | 0.94 | 1.38 | 0.83 | ⅜"      | 0.87 | 1.10  |
| FWICH-1000SN                         | 1"     | 1.31    |                | 0.98                | 3.19 | 2.56 | 2.25 | 1.09 | 1.65 | 0.98 | ⅞"      | 0.87 | 1.68  |
| FWICH-1250SN                         | 1¼"    | 1.66    |                | 1.26                | 3.74 | 3.07 | 2.63 | 1.25 | 1.77 | 1.06 | ½"      | 0.98 | 2.65  |
| FWICH-1500SN                         | 1½"    | 1.91    |                | 1.50                | 4.41 | 3.70 | 3.13 | 1.44 | 1.97 | 1.18 | ⅝"      | 1.10 | 4.28  |
| FWICH-2000SN                         | 2"     | 2.38    |                | 2.01                | 5.28 | 4.49 | 3.81 | 1.75 | 2.56 | 1.46 | ¾"      | 0.94 | 7.54  |
| FWICH-2500SN                         | 2½"    | 3.02    |                | 2.48                | 7.09 | 5.98 | 4.87 | 2.31 | 3.15 | 1.77 | ⅞"      | 1.18 | 15.95 |
| FWICH-3000SN                         | 3      | 3.56    |                | 2.87                | 8.19 | 7.01 | 6.00 | 2.81 | 3.54 | 2.17 | 1⅞"     | 1.18 | 25.96 |

## Installation Tips for Socket Weld Flanges - Pipe & Tube

### 1. PREPARE PIPE BEFORE WELDING

For best results, remove all burrs and cutting residue before welding. Debris can compromise the quality of the weld and contaminate the system.

### 2. TACK WELD FLANGE INTO POSITION

Determine the correct orientation of flange ports before commencing.

Align flange to specifications and tack weld into place. Remove accumulated welding scale.

### 3. PROCEED TO WELD FLANGE TO PIPE

Minimize weld splatter. Remove all weld scale before joining weld pass and between multiple passes. Ensure that all tapped holes and SHCS eye holes are clear of scale before use.



# Butt Weld 4-Bolt

**Chamfered end; Skilled welding labor required**  
Standard & Companion ~Pipe & Tube models



DMIC's **FBW** Butt Weld flanges can produce exquisite welded piping assemblies in the hands of master welders. However, the possibility of leakage and failure is increased at pressure relative to our **FWI** Socket Weld series.

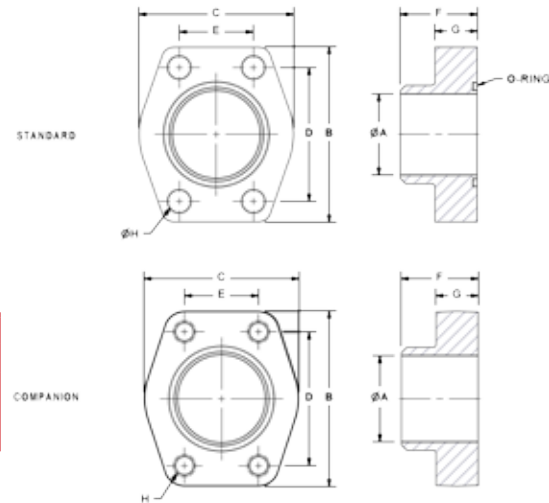
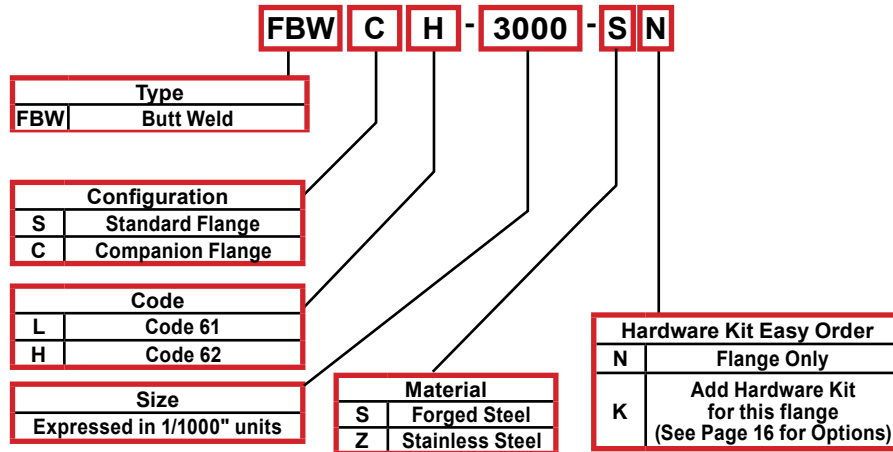
- Sizes from ½" through 4"
- Extensive stock of "Standard" and "Companion" types
- DMIC "Standard" flanges designed to accept either UNC or metric bolts
- Optional Viton & EPR hardware kits (see pg. 16)

## Standard Butt Weld Flanges (with O-Ring Groove)

| Standard<br>Flange<br>Part Number | Size   |         | Working<br>PSI | Dimensions (inches) |      |      |      |      |      |      |      |      | O-Ring |
|-----------------------------------|--------|---------|----------------|---------------------|------|------|------|------|------|------|------|------|--------|
|                                   | Flange | Pipe OD |                | A                   | B    | C    | D    | E    | F    | G    | H    | lbs. |        |
| FBWSL (Butt Weld, Standard, C.61) |        |         |                |                     |      |      |      |      |      |      |      |      |        |
| FBWSL-0500SN                      | ½"     | 0.84    | 5000           | 0.51                | 2.24 | 1.81 | 1.50 | 0.69 | 1.42 | 0.63 | 0.35 | 0.53 | 2-210  |
| FBWSL-0750SN                      | ¾"     | 1.05    | 5000           | 0.75                | 2.56 | 1.97 | 1.88 | 0.88 | 1.42 | 0.71 | 0.43 | 0.77 | 2-214  |
| FBWSL-1000SN                      | 1"     | 1.31    | 5000           | 0.98                | 2.76 | 2.17 | 2.06 | 1.03 | 1.50 | 0.71 | 0.43 | 0.90 | 2-219  |
| FBWSL-1250SN                      | 1¼"    | 1.66    | 4000           | 1.26                | 3.11 | 2.68 | 2.31 | 1.19 | 1.61 | 0.83 | 0.45 | 1.41 | 2-222  |
| FBWSL-1500SN                      | 1½"    | 1.91    | 3000           | 1.50                | 3.66 | 3.07 | 2.75 | 1.41 | 1.73 | 0.98 | 0.53 | 2.16 | 2-225  |
| FBWSL-2000SN                      | 2"     | 2.38    | 3000           | 2.01                | 4.02 | 3.54 | 3.06 | 1.69 | 1.77 | 0.98 | 0.53 | 2.51 | 2-228  |
| FBWSL-2500SN                      | 2½"    | 2.88    | 2500           | 2.48                | 4.49 | 4.13 | 3.50 | 2.00 | 1.97 | 0.98 | 0.53 | 3.42 | 2-232  |
| FBWSL-3000SN                      | 3"     | 3.50    | 2000           | 2.87                | 5.28 | 4.88 | 4.19 | 2.44 | 1.97 | 1.06 | 0.69 | 5.14 | 2-237  |
| FBWSL-3500SN                      | 3½"    | 4.00    | 500            | 3.50                | 5.98 | 5.35 | 4.75 | 2.75 | 1.89 | 1.06 | 0.69 | 5.29 | 2-241  |
| FBWSL-4000SN                      | 4"     | 4.50    | 500            | 3.90                | 6.38 | 5.75 | 5.13 | 3.06 | 1.89 | 1.06 | 0.69 | 6.28 | 2-245  |
| FBWSH (Butt Weld, Standard, C.62) |        |         |                |                     |      |      |      |      |      |      |      |      |        |
| FBWSH-0500SN                      | ½"     | 0.84    | 6000           | 0.51                | 2.24 | 1.81 | 1.59 | 0.72 | 1.42 | 0.63 | 0.35 | 0.53 | 2-210  |
| FBWSH-0750SN                      | ¾"     | 1.05    |                | 0.75                | 2.80 | 2.17 | 2.00 | 0.94 | 1.38 | 0.83 | 0.43 | 1.06 | 2-214  |
| FBWSH-1000SN                      | 1"     | 1.31    |                | 0.98                | 3.11 | 2.68 | 2.25 | 1.09 | 1.61 | 0.83 | 0.51 | 1.41 | 2-219  |
| FBWSH-1250SN                      | 1¼"    | 1.66    |                | 1.26                | 3.66 | 3.07 | 2.63 | 1.25 | 1.73 | 0.98 | 0.59 | 2.20 | 2-222  |
| FBWSH-1500SN                      | 1½"    | 1.91    |                | 1.50                | 4.41 | 3.70 | 3.13 | 1.44 | 2.17 | 1.18 | 0.67 | 3.70 | 2-225  |
| FBWSH-2000SN                      | 2"     | 2.38    |                | 2.01                | 5.28 | 4.49 | 3.81 | 1.75 | 2.56 | 1.46 | 0.83 | 6.31 | 2-228  |



## Ordering Codes Summary



Due to our policy of continual product improvement, the specifications in this catalog may change without notice. When designing by spec, please request a certified print.

## Companion Butt Weld Flanges (with Tapped Bolt Holes)

| Companion<br>Flange<br>Part Number | Size   |         | Working<br>PSI | Dimensions (inches) |      |      |      |      |      |      |         |      |
|------------------------------------|--------|---------|----------------|---------------------|------|------|------|------|------|------|---------|------|
|                                    | Flange | Pipe OD |                | A                   | B    | C    | D    | E    | F    | G    | H (UNC) | lbs. |
| FBWCL (Butt Weld, Companion, C.61) |        |         |                |                     |      |      |      |      |      |      |         |      |
| FBWCL-0500SN                       | ½"     | 0.84    | 5000           | 0.51                | 2.24 | 1.81 | 1.50 | 0.69 | 1.42 | 0.63 | ⅝"      | 0.55 |
| FBWCL-0750SN                       | ¾"     | 1.05    | 5000           | 0.75                | 2.56 | 1.97 | 1.88 | 0.88 | 1.42 | 0.71 | ⅜"      | 0.86 |
| FBWCL-1000SN                       | 1"     | 1.31    | 5000           | 0.98                | 2.76 | 2.17 | 2.06 | 1.03 | 1.50 | 0.71 | ⅜"      | 0.99 |
| FBWCL-1250SN                       | 1¼"    | 1.66    | 4000           | 1.26                | 3.11 | 2.68 | 2.31 | 1.19 | 1.61 | 0.83 | ⅞"      | 1.52 |
| FBWCL-1500SN                       | 1½"    | 1.91    | 3000           | 1.50                | 3.66 | 3.07 | 2.75 | 1.41 | 1.73 | 0.98 | ½"      | 2.31 |
| FBWCL-2000SN                       | 2"     | 2.38    | 3000           | 2.01                | 4.02 | 3.54 | 3.06 | 1.69 | 1.77 | 0.98 | ½"      | 2.69 |
| FBWCL-2500SN                       | 2½"    | 2.88    | 2500           | 2.48                | 4.49 | 4.13 | 3.50 | 2.00 | 1.97 | 0.98 | ½"      | 3.59 |
| FBWCL-3000SN                       | 3"     | 3.50    | 2000           | 2.87                | 5.28 | 4.88 | 4.19 | 2.44 | 1.97 | 1.06 | ⅝"      | 5.34 |
| FBWCL-3500SN                       | 3½"    | 4.00    | 500            | 3.50                | 5.98 | 5.35 | 4.75 | 2.75 | 1.89 | 1.06 | ⅝"      | 5.49 |
| FBWCL-4000SN                       | 4"     | 4.50    | 500            | 3.90                | 6.38 | 5.75 | 5.13 | 3.06 | 1.89 | 1.06 | ⅝"      | 6.48 |
| FBWCH (Butt Weld, Companion, C.62) |        |         |                |                     |      |      |      |      |      |      |         |      |
| FBWCH-0500SN                       | ½"     | 0.84    | 6000<br>PSI    | 0.51                | 2.24 | 1.81 | 1.59 | 0.72 | 1.42 | 0.63 | ⅝"      | 0.55 |
| FBWCH-0750SN                       | ¾"     | 1.05    |                | 0.75                | 2.80 | 2.17 | 2.00 | 0.94 | 1.38 | 0.83 | ⅜"      | 1.15 |
| FBWCH-1000SN                       | 1"     | 1.31    |                | 0.98                | 3.11 | 2.68 | 2.25 | 1.09 | 1.61 | 0.83 | ⅞"      | 1.54 |
| FBWCH-1250SN                       | 1¼"    | 1.66    |                | 1.26                | 3.66 | 3.07 | 2.63 | 1.25 | 1.73 | 0.98 | ½"      | 2.38 |
| FBWCH-1500SN                       | 1½"    | 1.91    |                | 1.50                | 4.41 | 3.70 | 3.13 | 1.44 | 2.17 | 1.18 | ⅝"      | 3.88 |
| FBWCH-2000SN                       | 2"     | 2.38    |                | 2.01                | 5.28 | 4.49 | 3.81 | 1.75 | 2.56 | 1.46 | ¾"      | 6.57 |





# Split Flanges & Kits

**For Code 61 & Code 62 (6,000 PSI)**  
Forged Steel Construction ~ Zinc Dichromate plated



DMIC Forged Steel Split Flanges are the quality-oriented choice when safety and design integrity override price. Due to our high production volume, DMIC's FS Split Flange Kits can net out within pennies of "econo" Split Flanges, with no quality compromises.

- Extensive stock in all SAE J518 sizes up to 5" in Code 61, 3" in Code 62
- Bare "SN" flanges sold as halves, for complete kit (2 halves plus hardware kit) simply change "SN" suffix to "SK"

| Split Flange<br>Part Number                     | Flange<br>Size | Working<br>PSI | Dimensions (inches) |      |      |      |      |      |      |      |      |      |       |
|-------------------------------------------------|----------------|----------------|---------------------|------|------|------|------|------|------|------|------|------|-------|
|                                                 |                |                | A                   | B    | C    | D    | E    | F    | G    | H    | J    | K    | lbs.  |
| FSL (Split Flange Halves for C.61)              |                |                |                     |      |      |      |      |      |      |      |      |      |       |
| FSL-0500SN                                      | ½"             | 5000           | 0.96                | 2.13 | 0.90 | 1.50 | 0.34 | 0.75 | 0.51 | 0.34 | 1.22 | 0.24 | 0.26  |
| FSL-0750SN                                      | ¾"             | 5000           | 1.26                | 2.56 | 1.02 | 1.88 | 0.44 | 0.87 | 0.55 | 0.42 | 1.53 | 0.24 | 0.35  |
| FSL-1000SN                                      | 1"             | 5000           | 1.51                | 2.76 | 1.15 | 2.06 | 0.51 | 0.94 | 0.63 | 0.42 | 1.78 | 0.29 | 0.49  |
| FSL-1250SN                                      | 1¼"            | 4000           | 1.72                | 3.11 | 1.43 | 2.31 | 0.59 | 0.87 | 0.55 | 0.47 | 2.03 | 0.29 | 0.66  |
| FSL-1500SN                                      | 1½"            | 3000           | 2.00                | 3.70 | 1.62 | 2.75 | 0.70 | 0.98 | 0.63 | 0.53 | 2.41 | 0.29 | 0.95  |
| FSL-2000SN                                      | 2"             | 3000           | 2.47                | 4.02 | 1.90 | 3.06 | 0.84 | 1.02 | 0.63 | 0.53 | 2.84 | 0.36 | 1.23  |
| FSL-2500SN                                      | 2½"            | 2500           | 2.95                | 4.49 | 2.13 | 3.50 | 1.00 | 1.50 | 0.75 | 0.53 | 3.34 | 0.36 | 1.63  |
| FSL-3000SN                                      | 3"             | 2000           | 3.58                | 5.31 | 2.57 | 4.19 | 1.22 | 1.61 | 0.87 | 0.66 | 4.03 | 0.36 | 2.87  |
| FSL-3500SN                                      | 3½"            | 500            | 4.03                | 5.98 | 2.74 | 4.75 | 1.37 | 1.10 | 0.87 | 0.67 | 4.53 | 0.42 | 2.80  |
| FSL-4000SN                                      | 4"             | 500            | 4.53                | 6.38 | 2.99 | 5.13 | 1.53 | 1.38 | 0.98 | 0.67 | 5.03 | 0.42 | 3.64  |
| FSH Split Flange Halves for Code 62 (6,000 PSI) |                |                |                     |      |      |      |      |      |      |      |      |      |       |
| FSH-0500SN                                      | ½"             | 6000<br>PSI    | 0.97                | 2.20 | 0.93 | 1.59 | 0.36 | 0.87 | 0.63 | 0.34 | 1.28 | 0.29 | 0.35  |
| FSH-0750SN                                      | ¾"             |                | 1.28                | 2.80 | 1.18 | 2.00 | 0.47 | 1.10 | 0.75 | 0.43 | 1.66 | 0.33 | 0.75  |
| FSH-1000SN                                      | 1"             |                | 1.53                | 3.19 | 1.37 | 2.25 | 0.55 | 1.30 | 0.94 | 0.51 | 1.91 | 0.36 | 1.12  |
| FSH-1250SN                                      | 1¼"            |                | 1.75                | 3.74 | 1.52 | 2.63 | 0.63 | 1.50 | 1.06 | 0.59 | 2.16 | 0.39 | 1.76  |
| FSH-1500SN                                      | 1½"            |                | 2.03                | 4.45 | 1.87 | 3.13 | 0.72 | 1.69 | 1.18 | 0.67 | 2.53 | 0.48 | 3.17  |
| FSH-2000SN                                      | 2"             |                | 2.66                | 5.24 | 2.24 | 3.81 | 0.88 | 2.05 | 1.46 | 0.83 | 3.16 | 0.48 | 4.63  |
| FSH-2500SN                                      | 2½"            |                | 3.52                | 7.09 | 2.99 | 4.87 | 1.16 | N/A  | 1.77 | 1.02 | 4.27 | 0.79 | 10.12 |
| FSH-3000SN                                      | 3"             |                | 4.51                | 8.19 | 3.50 | 6.00 | 1.41 | N/A  | 2.17 | 1.30 | 5.22 | 0.98 | 14.74 |

## Installation Tips for DMIC Split Flange Kits

### 1. CHECK AND CLEAN MATING SURFACE

Verify that the O-Ring Groove is free of contamination and physical damage. Damaged surfaces or the presence of debris may result in leaks.

### 2. LUBRICATE & INSTALL O-RING; VERIFY HEAD TO FLANGE CONTACT

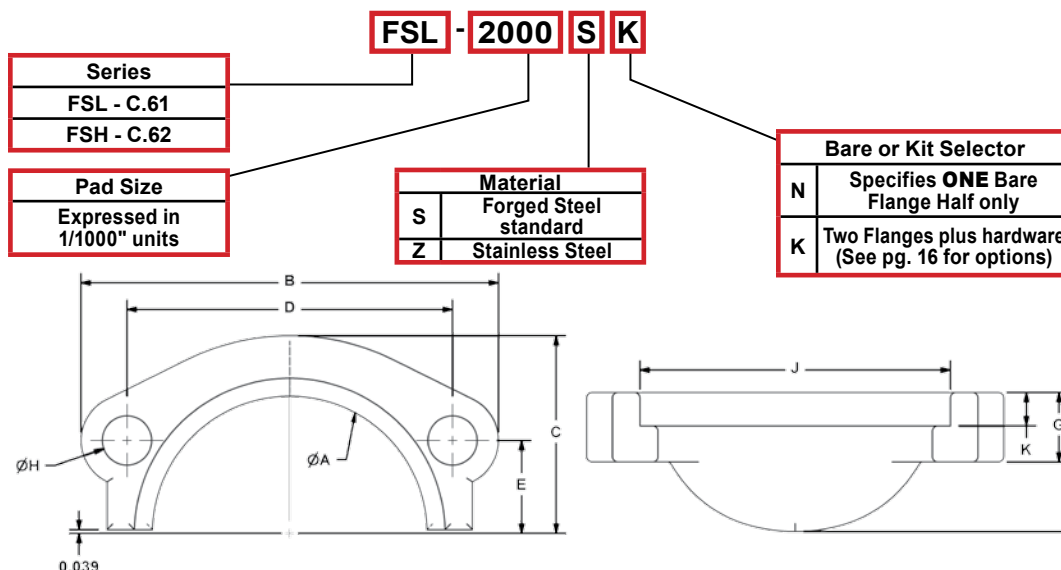
Lubricate the O-Ring lightly, and seat into clean groove of Flange Head fitting. Position and push clamp halves inward around flange head tightly.

### 3. TIGHTEN FOUR BOLTS KITTY CORNER

Tighten the bolts evenly in a reversing "Z" pattern to ensure even distribution of forces about the flange.



## Ordering Codes Summary



## Stepper Flanges

Flanges with one side “standard, the other “companion”  
Adapts dissimilar flange genders/codes/standards



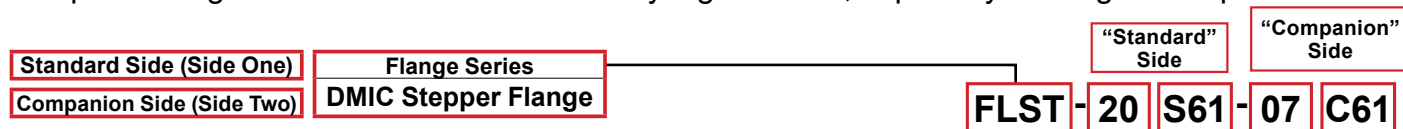
DMIC's **FLST** flanges are indispensable for stepping one type of flanged connection to another. DMIC's Engineering Dept. is able to furnish any step-size flange desired, if it is possible to construct.

- Sizes from 1/2" **through 5"**, from any size to any size that's possible to make; also allows possibility of Code 62/Code 61 interconnection
- One-side “metric” bolts, and one-side DIN available (if possible to make)
- Stock of frequently ordered units in UNC Code 61 & 62 for rapid shipment
- Available in Stainless Steel; production leadtime may apply

## How to Specify & Order your DMIC Step-Size Flange Requirement

Almost every DMIC Stepper Flange order solves a new, different problem. Moreover, there is no simple way to catalog the huge array of flanges which are available under DMIC's Stepper Flange program. Therefore, DMIC will manufacture your Stepper Flange requirements more or less to order from our large CAD library of SAE 4-Bolt, Metric Pump, DIN, and CETOP Flange designs. **Order codes are unified with DMIC Valves.**

Note that while DMIC can construct ANY stepper flange request, certain types are not feasible as one-piece flanges and will incur consummately higher costs, especially for single-unit quantities.





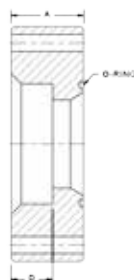
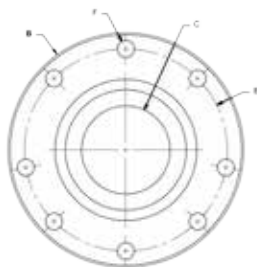
# Custom Flanges for BVFF Valves

FLANGES SOUDÉES / FILETÉES

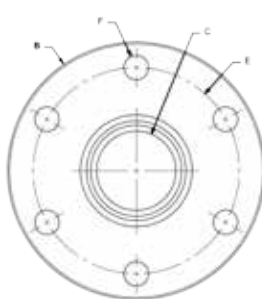


DMIC Custom 3000 and 6000 PSI Flanges designed to mount to BVFF and CVDMM valve series for large bore high pressure applications. Available in Carbon Steel and Stainless Steel

- Sizes from 2½" through 6"
- DMIC Selected hardware kits to mount to specified valves
- Butt Weld and Socket Weld Flanges

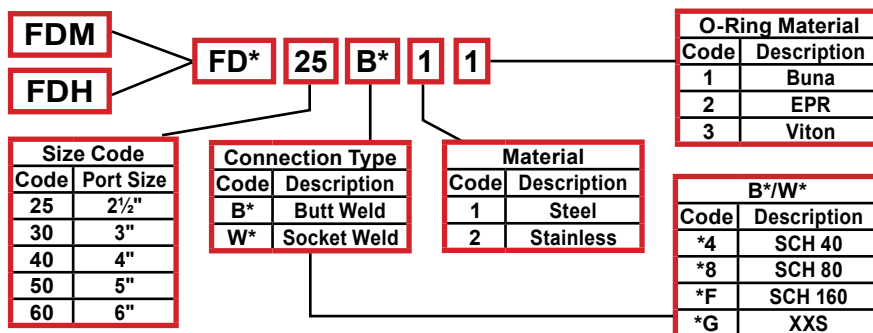


| Socket Weld<br>Flange Base<br>Number                     | Port Size | PSI<br>Rating | Dimensions (inches) |       |                      |      |        |      |    | O-Ring |
|----------------------------------------------------------|-----------|---------------|---------------------|-------|----------------------|------|--------|------|----|--------|
|                                                          |           |               | A                   | B     | C                    | D    | E      | F    | G  |        |
| BVFF Fixed Flange, Round Body, DM Flange, 3000 PSI Rated |           |               |                     |       |                      |      |        |      |    |        |
| FDM-25B*                                                 | 2½"       | 3000          | 2.25                | 5.69  | Per Pipe<br>Schedule | 1.00 | 4.875  | 0.41 | 8  | 2-232  |
| FDM-30B*                                                 | 3"        |               | 2.25                | 6.94  |                      | 1.00 | 6.000  | 0.53 | 6  | 2-237  |
| FDM-40B*                                                 | 4"        |               | 2.75                | 8.44  |                      | 1.25 | 7.125  | 0.66 | 8  | 2-244  |
| FDM-50B*                                                 | 5"        |               | 3.38                | 10.94 |                      | 1.50 | 9.375  | 0.78 | 12 | 2-356  |
| FDM-60B*                                                 | 6"        |               | 4.00                | 12.47 |                      | 2.00 | 10.625 | 0.91 | 12 | 2-363  |
| BVFF Fixed Flange, Round Body, DH Flange, 6000 PSI Rated |           |               |                     |       |                      |      |        |      |    |        |
| FDH-25B*                                                 | 2½"       | 6000          | 2.25                | 6.94  | Per Pipe<br>Schedule | 1.06 | 5.531  | 0.66 | 6  | 2-232  |
| FDH-30B*                                                 | 3"        |               | 2.25                | 7.44  |                      | 1.00 | 6.188  | 0.66 | 8  | 2-237  |
| FDH-40B*                                                 | 4"        |               | 3.00                | 8.69  |                      | 1.25 | 7.375  | 0.78 | 10 | 2-244  |
| FDH-50B*                                                 | 5"        |               | 3.75                | 10.94 |                      | 1.75 | 9.375  | 0.91 | 12 | 2-356  |
| FDH-60B*                                                 | 6"        |               | 4.50                | 12.69 |                      | 2.50 | 10.625 | 0.91 | 12 | 2-363  |



| Socket Weld<br>Flange Base<br>Number                     | Port Size | PSI<br>Rating | Dimensions (inches) |       |                      |      |        |      |    | O-Ring |
|----------------------------------------------------------|-----------|---------------|---------------------|-------|----------------------|------|--------|------|----|--------|
|                                                          |           |               | A                   | B     | C                    | D    | E      | F    | G  |        |
| BVFF Fixed Flange, Round Body, DM Flange, 3000 PSI Rated |           |               |                     |       |                      |      |        |      |    |        |
| FDM-25W*                                                 | 2½"       | 3000          | 1.75                | 5.69  | Per Pipe<br>Schedule | 1.00 | 4.875  | 0.41 | 8  | 2-232  |
| FDM-30W*                                                 | 3"        |               | 1.75                | 6.94  |                      | 1.00 | 6.000  | 0.53 | 6  | 2-237  |
| FDM-40W*                                                 | 4"        |               | 2.00                | 8.44  |                      | 1.06 | 7.125  | 0.66 | 8  | 2-244  |
| FDM-50W*                                                 | 5"        |               | 2.50                | 10.94 |                      | 1.25 | 9.375  | 0.78 | 12 | 2-356  |
| FDM-60W*                                                 | 6"        |               | 3.00                | 12.47 |                      | 1.25 | 10.625 | 0.91 | 12 | 2-363  |
| BVFF Fixed Flange, Round Body, DH Flange, 6000 PSI Rated |           |               |                     |       |                      |      |        |      |    |        |
| FDH-25W*                                                 | 2½"       | 6000          | 1.75                | 6.94  | Per Pipe<br>Schedule | 1.00 | 5.531  | 0.66 | 6  | 2-232  |
| FDH-30W*                                                 | 3"        |               | 2.00                | 7.44  |                      | 1.00 | 6.188  | 0.66 | 8  | 2-237  |
| FDH-40W*                                                 | 4"        |               | 2.25                | 8.69  |                      | 1.06 | 7.375  | 0.78 | 10 | 2-244  |
| FDH-50W*                                                 | 5"        |               | 3.25                | 10.94 |                      | 1.25 | 9.375  | 0.91 | 12 | 2-356  |
| FDH-60W*                                                 | 6"        |               | 3.50                | 12.69 |                      | 1.50 | 10.625 | 0.91 | 12 | 2-363  |

## Ordering Codes Summary





# Factory Hardware Kits

Approved for use in Code 61 (3,000 PSI) & Code 62 (6,000 PSI) applications to full SAE J518 rated PSI



Fasteners used to mount DMIC flanges in hydraulic applications must be of acceptable grade and only of highest quality. DMIC Factory Hardware Kits are proven, for total safety and peace of mind.

- Styles for 4-Bolt Flanges (Socket Head) and Split Flanges (Hex Head)
- Bolt lengths optimized to flange model thickness for extra safety
- Buyer may override construction codes to suit special requirements

| BKA Socket Head HW kits for SAE 4-Bolt Code 61 Flanges |           |           |        |               |              |
|--------------------------------------------------------|-----------|-----------|--------|---------------|--------------|
| Hardware Kit Part Number                               | Rated PSI | Fits Size | O-Ring | UNC Bolts     | Metric Bolts |
| BKA-0500                                               | 5000      | 1/2"      | 2-210  | 5/16 x 1 1/4" | M8 x 30      |
| BKA-0750                                               | 5000      | 3/4"      | 2-214  | 3/8 x 1 1/4"  | M10 x 35     |
| BKA-1000                                               | 5000      | 1"        | 2-219  | 3/8 x 1 1/2"  | M10 x 35     |
| BKA-1250                                               | 4000      | 1 1/4"    | 2-222  | 7/16 x 1 1/2" | M10 x 40     |
| BKA-1500                                               | 3000      | 1 1/2"    | 2-225  | 1/2 x 1 3/4"  | M12 x 45     |
| BKA-2000                                               | 3000      | 2"        | 2-228  | 1/2 x 1 3/4"  | M12 x 45     |
| BKA-2500                                               | 2500      | 2 1/2"    | 2-232  | 1/2 x 1 3/4"  | M12 x 45     |
| BKA-3000                                               | 2000      | 3"        | 2-237  | 5/8 x 2"      | M16 x 50     |
| BKA-3500                                               | 500       | 3 1/2"    | 2-241  | 5/8 x 2"      | M16 x 50     |
| BKA-4000                                               | 500       | 4"        | 2-245  | 5/8 x 2"      | M16 x 50     |

| BKC Hex Head HW kits for Split Flange Pairs, Code 61 |           |           |        |               |              |
|------------------------------------------------------|-----------|-----------|--------|---------------|--------------|
| Hardware Kit Part Number                             | Rated PSI | Fits Size | O-Ring | UNC Bolts     | Metric Bolts |
| BKC-0500                                             | 5000      | 1/2"      | 2-210  | 5/16 x 1"     | M8 x 30      |
| BKC-0750                                             | 5000      | 3/4"      | 2-214  | 3/8 x 1 1/4"  | M10 x 35     |
| BKC-1000                                             | 5000      | 1"        | 2-219  | 3/8 x 1 1/2"  | M10 x 35     |
| BKC-1250                                             | 4000      | 1 1/4"    | 2-222  | 7/16 x 1 1/2" | M10 x 40     |
| BKC-1500                                             | 3000      | 1 1/2"    | 2-225  | 1/2 x 1 3/4"  | M12 x 45     |
| BKC-2000                                             | 3000      | 2"        | 2-228  | 1/2 x 1 3/4"  | M12 x 45     |
| BKC-2500                                             | 2500      | 2 1/2"    | 2-232  | 1/2 x 1 3/4"  | M12 x 45     |
| BKC-3000                                             | 2000      | 3"        | 2-237  | 5/8 x 2"      | M16 x 50     |
| BKC-3500                                             | 500       | 3 1/2"    | 2-241  | 5/8 x 2"      | M16 x 50     |
| BKC-4000                                             | 500       | 4"        | 2-245  | 5/8 x 2"      | M16 x 50     |
| BKC-5000                                             | 500       | 5"        | 2-253  | 5/8 x 2"      | M16 x 50     |

| BKB Socket Head kits for SAE 4-Bolt Code 62 Flanges |           |           |        |               |              |
|-----------------------------------------------------|-----------|-----------|--------|---------------|--------------|
| Hardware Kit Part Number                            | Rated PSI | Fits Size | O-Ring | UNC Bolts     | Metric Bolts |
| BKB-0500                                            | 6000 PSI  | 1/2"      | 2-210  | 5/16 x 1 1/4" | M8 x 30      |
| BKB-0750                                            |           | 3/4"      | 2-214  | 3/8 x 1 1/2"  | M10 x 35     |
| BKB-1000                                            |           | 1"        | 2-219  | 7/16 x 1 3/4" | M12 x 40     |
| BKB-1250                                            |           | 1 1/4"    | 2-222  | 1/2 x 1 3/4"  | M12 x 45     |
| BKB-1500                                            |           | 1 1/2"    | 2-225  | 5/8 x 2 1/4"  | M16 x 50     |
| BKB-2000                                            |           | 2"        | 2-228  | 3/4 x 2 3/4"  | M20 x 70     |

| BKD Hex Head HW Kits for Split Flange Pairs, Code 62 |           |           |        |               |              |
|------------------------------------------------------|-----------|-----------|--------|---------------|--------------|
| Hardware Kit Part Number                             | Rated PSI | Fits Size | O-Ring | UNC Bolts     | Metric Bolts |
| BKD-0500                                             | 6000 PSI  | 1/2"      | 2-210  | 5/16 x 1"     | M8 x 30      |
| BKD-0750                                             |           | 3/4"      | 2-214  | 3/8 x 1 1/4"  | M10 x 35     |
| BKD-1000                                             |           | 1"        | 2-219  | 7/16 x 1 3/4" | M12 x 40     |
| BKD-1250                                             |           | 1 1/4"    | 2-222  | 1/2 x 1 3/4"  | M12 x 45     |
| BKD-1500                                             |           | 1 1/2"    | 2-225  | 5/8 x 2 1/4"  | M16 x 50     |
| BKD-2000                                             |           | 2"        | 2-228  | 3/4 x 2 3/4"  | M20 x 70     |

## Ordering Codes for Special Purpose Hardware Kits

| Type |                                        |
|------|----------------------------------------|
| BKA  | Socket Head Kit for Code 61 4-Bolt     |
| BKB  | Socket Head Kit for Code 62 4-Bolt     |
| BKC  | Hex Head Kit for Code 61 Split Flanges |
| BKD  | Hex Head Kit for Code 62 Split Flanges |

| Size                       |  |
|----------------------------|--|
| Expressed in 1/1000" units |  |

| Fastener Material |                 |
|-------------------|-----------------|
| 1                 | Carbon Steel    |
| 2                 | Stainless Steel |

**BAK - 2000 - 1 1 1 1**

| Bolt Thread |                             |
|-------------|-----------------------------|
| 1           | UN Coarse (U.S.A. standard) |
| 2           | Metric                      |

| O-Ring Upgrade |                                                                            |
|----------------|----------------------------------------------------------------------------|
| 1              | Buna-N 70 duro O-Ring with Hardware Kit                                    |
| 2              | EPR O-Ring with the Hardware Kit                                           |
| 3              | Viton O-Ring with the Hardware Kit                                         |
| 4              | Teflon (PTFE) O-Ring                                                       |
| 9              | Buna-N 90 duro O-Ring with Hardware Kit<br>Used with C.61 connections ONLY |

| Lockwasher Material |                 |
|---------------------|-----------------|
| 1                   | Carbon Steel    |
| 2                   | Stainless Steel |

## Important O-Ring Note

We now ship all flanges **without O-Rings** due to differing customer requirements.

Premium Buna O-Ring - All **C.61** kits come with **70** duro O-Ring. All **C.62** kits come with **90** duro O-Ring Standard.

The Buyer's choice of O-Ring is included with DMIC Hardware Kits.



# Blank Flanges and Heads

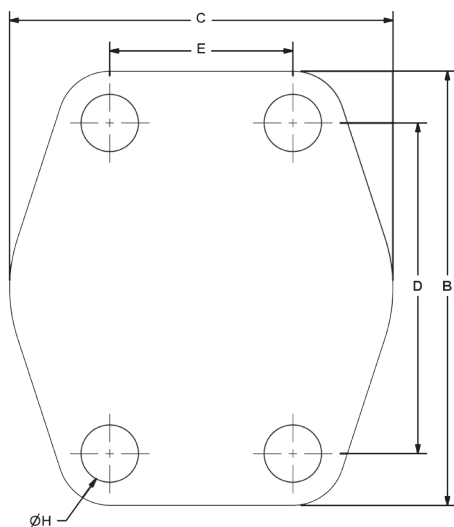
**Forged Steel & Stainless Steel construction**  
Sizes from 1/2" through 5" in Code 61, to 2" in Code 62



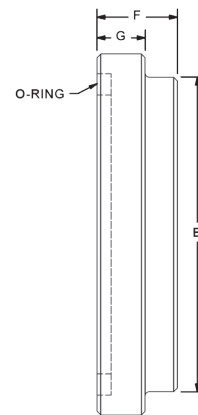
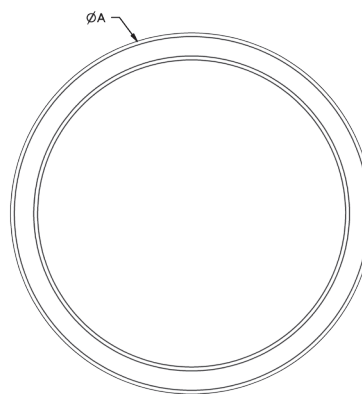
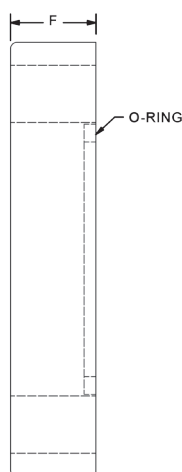
DMIC's **FLB** 4-Bolt Blank Flange series are handy to have around. Common uses of unported DMIC flanges include:

- Installation of pressure gauges or transducers
- Can be machined for rapid non-standard replacement parts availability
- Used as cover plates for spare pressurized ports
- Reconfigure & operate systems during repair and diagnosis
- **FLBH & FHBH** Blank Flange Heads are used with a split flange kit to achieve the same effect as an **FLB3** or **FLB6** 4-Bolt Blank.

**FLB3/FHB6**



**FLBH/FHBH**



**Note:** The **FLBH/FHBH** Blank Flange Head requires a Split Flange Kit for mounting.

## Ordering Codes Summary

| Type |                    |
|------|--------------------|
| FLB3 | Blank Flange, C.61 |
| FLB6 | Blank Flange, C.62 |
| FLBH | SF Head Plug, C.61 |
| FHBH | SF Head Plug, C.62 |

| Size                       |
|----------------------------|
| Expressed in 1/1000" units |

**FLB6 - 0500 - S N**

| Material |                 |
|----------|-----------------|
| S        | Forged Steel    |
| Z        | Stainless Steel |

| Hardware Kit Easy Order |                                  |
|-------------------------|----------------------------------|
| N                       | Flange Only                      |
| K                       | Add Hardware Kit for this flange |

Due to our policy of continual product improvement, the specifications in this catalog may change without notice. When designing by spec, please request a certified print.







# FLANGES SOUDÉES / FILETÉES

| Blank Flange<br>Part Number                | Flange<br>Size | Working<br>PSI | Dimensions (inches) |      |      |      |      |      |      | O-<br>Ring |
|--------------------------------------------|----------------|----------------|---------------------|------|------|------|------|------|------|------------|
|                                            |                |                | B                   | C    | D    | E    | F    | H    | lbs. |            |
| FLB3 (Blank 4-Bolt Flange, Standard, C.61) |                |                |                     |      |      |      |      |      |      |            |
| FLB3-0500SN                                | ½"             | 5000           | 2.20                | 1.81 | 1.50 | 0.69 | 0.63 | 0.35 | 0.53 | 2-210      |
| FLB3-0750SN                                | ¾"             | 5000           | 2.56                | 1.97 | 1.88 | 0.88 | 0.63 | 0.43 | 0.66 | 2-214      |
| FLB3-1000SN                                | 1"             | 5000           | 2.76                | 2.36 | 2.06 | 1.03 | 0.75 | 0.43 | 0.93 | 2-219      |
| FLB3-1250SN                                | 1¼"            | 4000           | 3.11                | 2.68 | 2.31 | 1.19 | 0.71 | 0.45 | 1.21 | 2-222      |
| FLB3-1500SN                                | 1½"            | 3000           | 3.66                | 3.07 | 2.75 | 1.41 | 0.79 | 0.53 | 1.81 | 2-225      |
| FLB3-2000SN                                | 2"             | 3000           | 4.02                | 3.54 | 3.06 | 1.69 | 0.79 | 0.53 | 2.38 | 2-228      |
| FLB3-2500SN                                | 2½"            | 2500           | 4.49                | 4.13 | 3.50 | 2.00 | 0.79 | 0.53 | 3.09 | 2-232      |
| FLB3-3000SN                                | 3"             | 2000           | 5.28                | 4.88 | 4.19 | 2.44 | 0.94 | 0.69 | 5.25 | 2-237      |
| FLB3-3500SN                                | 3½"            | 500            | 5.98                | 5.35 | 4.75 | 2.75 | 0.87 | 0.69 | 6.42 | 2-241      |
| FLB3-4000SN                                | 4"             | 500            | 6.38                | 5.75 | 5.13 | 3.06 | 0.98 | 0.69 | 8.77 | 2-245      |
| FLB6 (Blank 4-Bolt Flange, Standard, C.62) |                |                |                     |      |      |      |      |      |      |            |
| FLB6-0500SN                                | ½"             | 6000           | 2.20                | 1.89 | 1.59 | 0.72 | 0.63 | 0.35 | 0.53 | 2-210      |
| FLB6-0750SN                                | ¾"             |                | 2.80                | 2.36 | 2.00 | 0.94 | 0.75 | 0.43 | 0.93 | 2-214      |
| FLB6-1000SN                                | 1"             |                | 3.19                | 2.76 | 2.25 | 1.09 | 0.94 | 0.51 | 1.70 | 2-219      |
| FLB6-1250SN                                | 1¼"            |                | 3.74                | 3.07 | 2.63 | 1.25 | 1.06 | 0.59 | 2.56 | 2-222      |
| FLB6-1500SN                                | 1½"            |                | 4.41                | 3.70 | 3.13 | 1.44 | 1.18 | 0.67 | 3.97 | 2-225      |
| FLB6-2000SN                                | 2"             |                | 5.28                | 4.49 | 3.81 | 1.75 | 1.18 | 0.83 | 5.67 | 2-228      |

| Blank Flange<br>Part Number             | Flange<br>Size | Working<br>PSI | Dimensions (inches) |      |      |      | O-<br>Ring |
|-----------------------------------------|----------------|----------------|---------------------|------|------|------|------------|
|                                         |                |                | A                   | B    | F    | G    |            |
| FLBH (Split Head Blank, Standard, C.61) |                |                |                     |      |      |      |            |
| FLBH-0500SN                             | ½"             | 5000           | 1.19                | 0.94 | 0.50 | 0.26 | 2-210      |
| FLBH-0750SN                             | ¾"             | 5000           | 1.50                | 1.24 | 0.50 | 0.26 | 2-214      |
| FLBH-1000SN                             | 1"             | 5000           | 1.75                | 1.50 | 0.50 | 0.31 | 2-219      |
| FLBH-1250SN                             | 1¼"            | 4000           | 2.00                | 1.69 | 0.56 | 0.31 | 2-222      |
| FLBH-1500SN                             | 1½"            | 3000           | 2.37                | 1.97 | 0.63 | 0.31 | 2-225      |
| FLBH-2000SN                             | 2"             | 3000           | 2.81                | 2.44 | 0.63 | 0.37 | 2-228      |
| FLBH-2500SN                             | 2½"            | 2500           | 3.31                | 2.92 | 0.69 | 0.37 | 2-232      |
| FLBH-3000SN                             | 3"             | 2000           | 4.00                | 3.54 | 0.75 | 0.37 | 2-237      |
| FLBH-3500SN                             | 3½"            | 500            | 4.50                | 4.02 | 0.88 | 0.42 | 2-241      |
| FLBH-4000SN                             | 4"             | 500            | 5.00                | 4.49 | 0.88 | 0.42 | 2-245      |
| FHBH (Split Head Blank, Standard, C.62) |                |                |                     |      |      |      |            |
| FHBH-0500SN                             | ½"             | 6000           | 1.25                | 0.94 | 0.50 | 0.29 | 2-210      |
| FHBH-0750SN                             | ¾"             |                | 1.63                | 1.26 | 0.69 | 0.34 | 2-214      |
| FHBH-1000SN                             | 1"             |                | 1.87                | 1.50 | 0.81 | 0.37 | 2-219      |
| FHBH-1250SN                             | 1¼"            |                | 2.13                | 1.73 | 1.00 | 0.40 | 2-222      |
| FHBH-1500SN                             | 1½"            |                | 2.50                | 2.01 | 1.19 | 0.49 | 2-225      |
| FHBH-2000SN                             | 2"             |                | 3.13                | 2.64 | 1.50 | 0.49 | 2-228      |





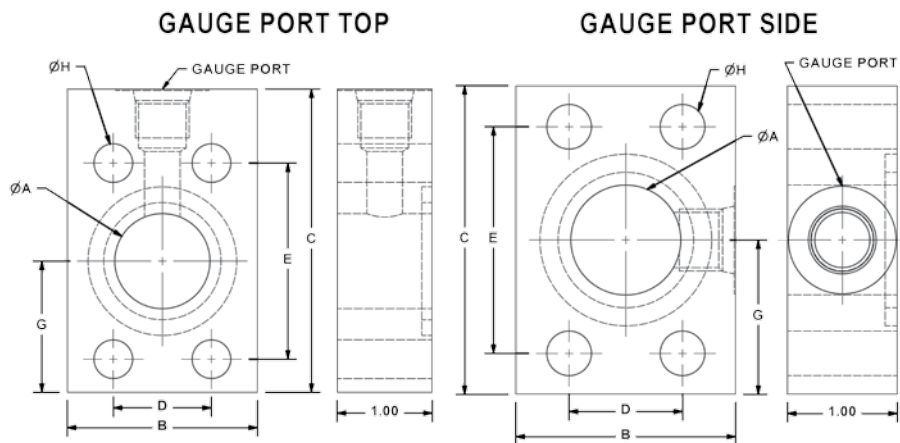
# Gauge Block

## Premium Gauge Block ~ Sizes from 3/4" to 4"



DMIC Gauge Block

- Add a Gauge Spacer - the easy way!
- Direct Mounted "Sandwich" style FLGB/FHGB. Simply slides into your existing SAE -4 Bolt connection
- Versatile test point for transducers, gauges, or to use as a drain point
- Requires longer bolts to mount in place



## Ordering Codes Summary

| Type |         |
|------|---------|
| FL   | Code 61 |
| FH   | Code 62 |

| Size                       |  |
|----------------------------|--|
| Expressed in 1/1000" units |  |

FLGB 10 03 - S - T S N

| Gauge Port Size |      |
|-----------------|------|
| 02              | 1/4" |
| 03              | 3/8" |

| Thread |     |
|--------|-----|
| S      | SAE |
| N      | NPT |

| Hardware Kit Easy Order |                                                          |
|-------------------------|----------------------------------------------------------|
| N                       | Flange Only                                              |
| K                       | Add Hardware Kit for this flange (Req'd 1" longer bolts) |

| Material |                     |
|----------|---------------------|
| S        | Carbon Steel        |
| Z        | 316 Stainless Steel |

| Gauge Port Position |      |
|---------------------|------|
| T                   | Top  |
| L                   | Side |



## Code 61 Sandwich Style Gauge Block (with O-Ring Groove)

| Part Number                   | Working PSI | Dimensions (inches) |      |      |      |      |      |      | O-Ring |
|-------------------------------|-------------|---------------------|------|------|------|------|------|------|--------|
|                               |             | A                   | B    | C    | D    | E    | G    | H    |        |
| FLGB - Top Guage Port - C.61  |             |                     |      |      |      |      |      |      |        |
| FLGB-07**STSN                 | 5000        | 0.75                | 1.75 | 3.13 | 0.88 | 1.88 | 1.28 | 0.41 | 2-210  |
| FLGB-10**STSN                 | 5000        | 1.00                | 2.00 | 3.19 | 1.03 | 2.06 | 1.38 | 0.41 | 2-214  |
| FLGB-12**STSN                 | 4000        | 1.25                | 2.50 | 3.50 | 1.19 | 2.31 | 1.56 | 0.47 | 2-219  |
| FLGB-15**STSN                 | 3000        | 1.50                | 3.00 | 3.69 | 1.41 | 2.75 | 1.84 | 0.53 | 2-222  |
| FLGB-20**STSN                 | 3000        | 2.00                | 3.50 | 4.00 | 1.69 | 3.06 | 2.00 | 0.53 | 2-225  |
| FLGB-25**STSN                 | 2500        | 2.50                | 4.00 | 4.50 | 2.00 | 3.50 | 2.25 | 0.53 | 2-228  |
| FLGB-30**STSN                 | 2000        | 3.00                | 5.00 | 5.31 | 2.44 | 4.19 | 2.66 | 0.67 | 2-232  |
| FLGB-35**STSN                 | 500         | 3.50                | 5.00 | 6.00 | 2.75 | 4.75 | 3.00 | 0.67 | 2-237  |
| FLGB-40**STSN                 | 500         | 4.00                | 6.00 | 6.38 | 3.06 | 5.13 | 3.19 | 0.67 | 2-245  |
| FLGB - Side Guage Port - C.61 |             |                     |      |      |      |      |      |      |        |
| FLGB-07**SLSN                 | 5000        | 0.75                | 1.75 | 2.63 | 0.88 | 1.88 | 1.31 | 0.41 | 2-210  |
| FLGB-10**SLSN                 | 5000        | 1.00                | 2.00 | 2.81 | 1.03 | 2.06 | 1.41 | 0.41 | 2-214  |
| FLGB-12**SLSN                 | 4000        | 1.25                | 2.50 | 3.13 | 1.19 | 2.31 | 1.56 | 0.47 | 2-219  |
| FLGB-15**SLSN                 | 3000        | 1.50                | 3.00 | 3.69 | 1.41 | 2.75 | 1.84 | 0.53 | 2-222  |
| FLGB-20**SLSN                 | 3000        | 2.00                | 3.50 | 4.00 | 1.69 | 3.06 | 2.00 | 0.53 | 2-225  |
| FLGB-25**SLSN                 | 2500        | 2.50                | 4.00 | 4.50 | 2.00 | 3.50 | 2.25 | 0.53 | 2-228  |
| FLGB-30**SLSN                 | 2000        | 3.00                | 5.00 | 5.31 | 2.44 | 4.19 | 2.66 | 0.67 | 2-232  |
| FLGB-35**SLSN                 | 500         | 3.50                | 5.00 | 6.00 | 2.75 | 4.75 | 3.00 | 0.67 | 2-237  |
| FLGB-40**SLSN                 | 500         | 4.00                | 6.00 | 6.38 | 3.06 | 5.13 | 3.19 | 0.67 | 2-245  |

## Code 62 Sandwich Style Gauge Block (with O-Ring Groove)

| Part Number                   | Working PSI | Dimensions (inches) |      |      |      |      |      |      | O-Ring |
|-------------------------------|-------------|---------------------|------|------|------|------|------|------|--------|
|                               |             | A                   | B    | C    | D    | E    | G    | H    |        |
| FHGB - Top Gauge Port - C.62  |             |                     |      |      |      |      |      |      |        |
| FHGB-07**STSN                 | 6000 PSI    | 0.75                | 2.00 | 3.31 | 0.93 | 2.00 | 1.41 | 0.41 | 2-210  |
| FHGB-10**STSN                 |             | 1.00                | 2.50 | 3.56 | 1.09 | 2.25 | 1.59 | 0.51 | 2-214  |
| FHGB-12**STSN                 |             | 1.25                | 3.00 | 4.00 | 1.25 | 2.62 | 1.88 | 0.53 | 2-219  |
| FHGB-15**STSN                 |             | 1.50                | 3.50 | 4.44 | 1.43 | 3.12 | 2.22 | 0.66 | 2-222  |
| FHGB-20**STSN                 |             | 2.00                | 4.00 | 5.25 | 1.75 | 3.81 | 2.63 | 0.78 | 2-225  |
| FHGB - Side Guage Port - C.62 |             |                     |      |      |      |      |      |      |        |
| FHGB-07**SLSN                 | 6000 PSI    | 0.75                | 2.00 | 2.81 | 0.93 | 2.00 | 1.41 | 0.41 | 2-210  |
| FHGB-10**SLSN                 |             | 1.00                | 2.50 | 3.19 | 1.09 | 2.25 | 1.60 | 0.51 | 2-214  |
| FHGB-12**SLSN                 |             | 1.25                | 3.00 | 3.75 | 1.25 | 2.62 | 1.88 | 0.53 | 2-219  |
| FHGB-15**SLSN                 |             | 1.50                | 3.50 | 4.44 | 1.43 | 3.12 | 2.22 | 0.66 | 2-222  |
| FHGB-20**SLSN                 |             | 2.00                | 4.00 | 5.25 | 1.75 | 3.81 | 2.63 | 0.78 | 2-225  |



# F3C/F6C Connector Block

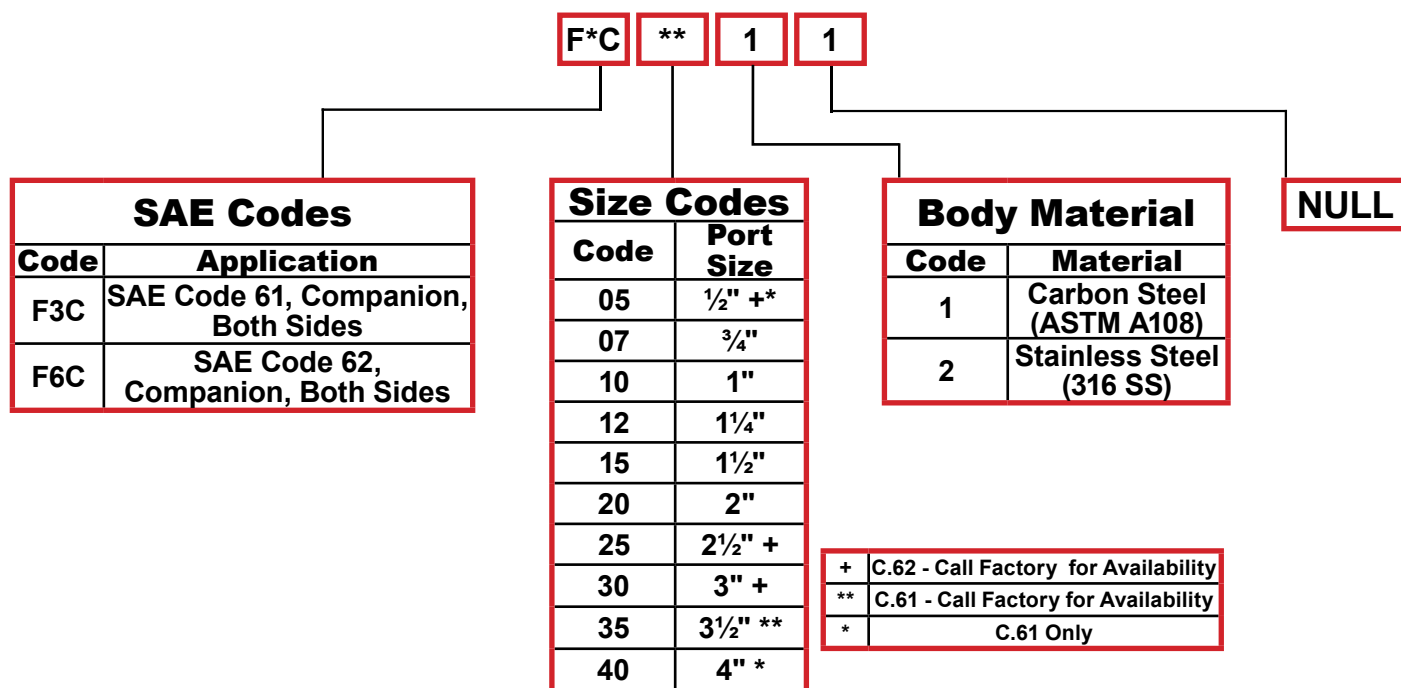
Joins two standard SAE 4-bolt O-Ring flanges or split flange heads.



F3C (C.61) and F6C (C.62) connector blocks offer companion (flat face) SAE 4-bolt UNC connections on opposing sides to facilitate the union of standard SAE 4-bolt thru-hole O-Ring flanges.

- Versions for SAE Code 61 and SAE Code 62.
- Carbon steel or stainless steel construction.
- Simplifies hydraulic line connectivity.
- Gender changer for standard SAE flanges and split flange heads with O-Ring groove.

## Ordering Codes Summary





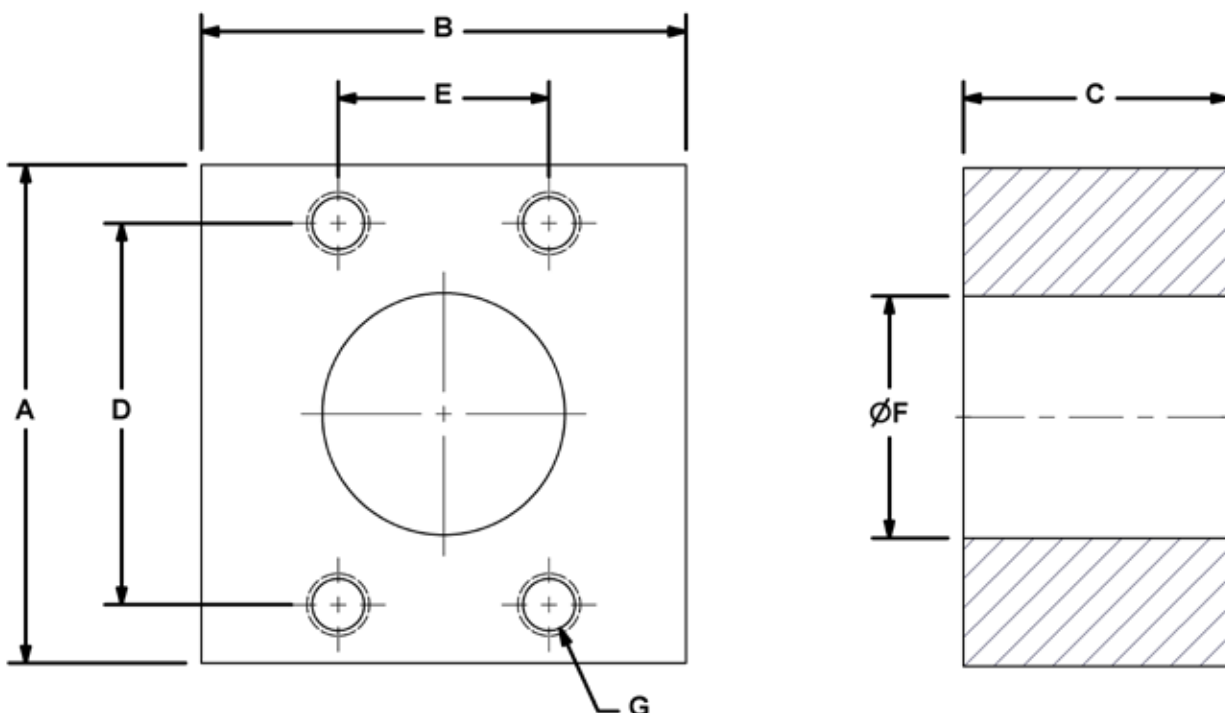
# F3C/F6C Connector Block

FLANGES SOUDÉES / FILETÉES

| F3C Code 61 Connector Block Dimensions |             |                |               |                   |              |               |           |          |
|----------------------------------------|-------------|----------------|---------------|-------------------|--------------|---------------|-----------|----------|
| Dimensions (in)                        | Working PSI | A              | B             | C                 | D            | E             | F         | G        |
| Size Code                              |             | Overall Height | Overall Width | Overall Thickness | FLG Pad Long | FLG Pad Short | Bore Size | UNC Thru |
| 05                                     | 5,000 PSI   | 2.25           | 2.00          | 1.69              | 1.50         | 0.69          | 0.50      | 5/16"    |
| 07                                     |             | 2.75           | 2.25          | 1.88              | 1.87         | 0.87          | 0.75      | 3/8"     |
| 10                                     |             | 3.00           | 2.50          | 1.88              | 2.06         | 1.03          | 1.00      | 3/8"     |
| 12                                     | 4,000 PSI   | 3.50           | 3.00          | 2.06              | 2.31         | 1.19          | 1.25      | 7/16"    |
| 15                                     | 3,000 PSI   | 4.00           | 3.50          | 2.25              | 2.75         | 1.41          | 1.50      | 1/2"     |
| 20                                     |             | 4.17           | 4.00          | 2.25              | 3.06         | 1.69          | 2.00      | 1/2"     |
| 25                                     | 2,500 PSI   | 4.50           | 4.50          | 2.25              | 3.50         | 2.00          | 2.50      | 1/2"     |
| 30                                     | 2,000 PSI   | 5.50           | 5.50          | 2.50              | 4.19         | 2.44          | 3.00      | 5/8"     |
| 35                                     | 500 PSI     | 6.00           | 6.00          | 2.50              | 4.75         | 2.75          | 3.50      | 5/8"     |
| 40                                     |             | 6.57           | 6.00          | 2.50              | 5.13         | 3.06          | 4.00      | 5/8"     |

| F6C Code 62 Connector Block Dimensions |             |                |               |                   |              |               |           |          |
|----------------------------------------|-------------|----------------|---------------|-------------------|--------------|---------------|-----------|----------|
| Dimensions (in)                        | Working PSI | A              | B             | C                 | D            | E             | F         | G        |
| Size Code                              |             | Overall Height | Overall Width | Overall Thickness | FLG Pad Long | FLG Pad Short | Bore Size | UNC Thru |
| 05                                     | 6,000 PSI   | 2.25           | 2.00          | 1.75              | 1.59         | 0.72          | 0.50      | 5/16"    |
| 07                                     |             | 3.00           | 2.00          | 2.00              | 2.00         | 0.94          | 0.75      | 3/8"     |
| 10                                     |             | 3.50           | 3.00          | 2.25              | 2.25         | 1.09          | 1.00      | 7/16"    |
| 12                                     |             | 4.00           | 3.00          | 2.06              | 2.63         | 1.25          | 1.25      | 1/2"     |
| 15                                     |             | 4.50           | 3.00          | 2.88              | 3.13         | 1.44          | 1.50      | 5/8"     |
| 20                                     |             | 5.43           | 4.00          | 3.13              | 3.81         | 1.75          | 2.00      | 3/4"     |
| 25                                     |             | 7.08           | 6.00          | 4.25              | 4.87         | 2.31          | 2.50      | 7/8"     |
| 30                                     |             | 8.50           | 7.00          | 4.88              | 6.00         | 2.81          | 3.00      | 1 1/8"   |



Note: Changes from Standard Materials may result in changes to temperature and/or pressure rating.

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## F3E/F6E Elbow Block

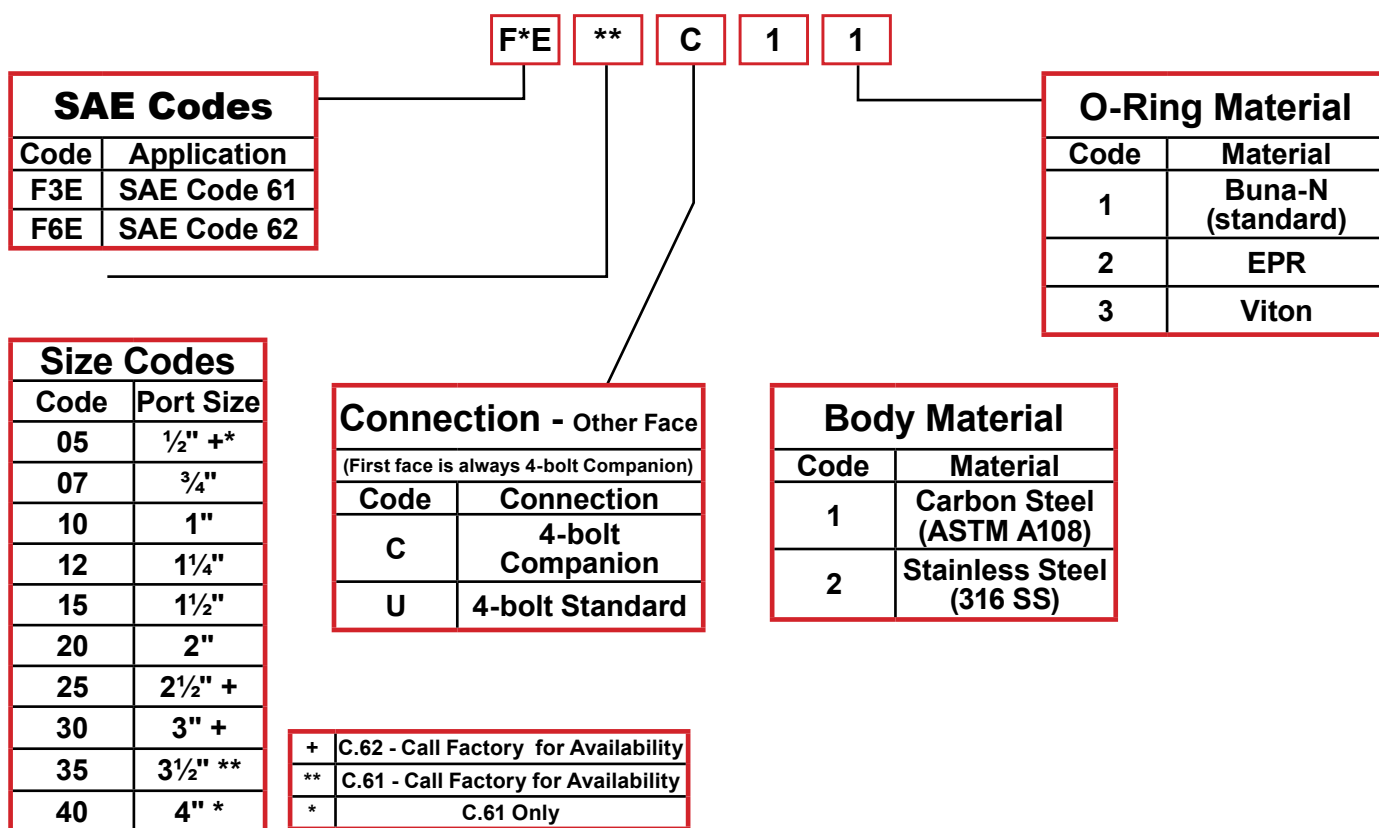
**Provides a 90° elbow connection for SAE 4-bolt flanges or split flange heads.**



F3E and F6E elbow blocks offer a companion SAE 4-bolt UNC flat face connection on one or both faces to facilitate the 90° union of SAE 4-bolt flanges or split flange heads.

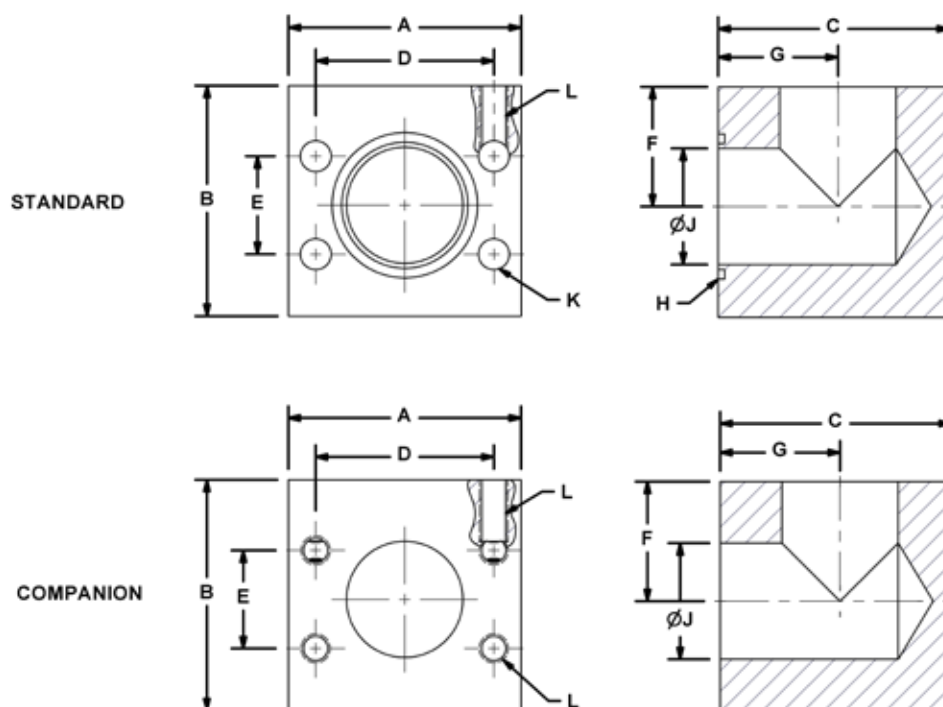
- Versions for SAE Code 61 and SAE Code 62.
- Carbon steel or stainless steel construction.
- 4-bolt companion (flat face) SAE UNC - always on one face.
- Choice of either 4-bolt companion (flat face) SAE UNC flange or 4-bolt standard SAE O-Ring flange on other face.
- Simplifies hydraulic line connectivity.
- Supplied with 2 O-Rings.

### Ordering Codes Summary





# F3E/F6E Elbow Block



**F3E Code 61 Elbow Block Dimensions**

| Dimensions (in) | Working PSI | A             | B              | C                 | D            | E             | F             | G               | H          | J         | K              | L       |
|-----------------|-------------|---------------|----------------|-------------------|--------------|---------------|---------------|-----------------|------------|-----------|----------------|---------|
| Size Code       |             | Overall Width | Overall Height | Overall Thickness | FLG Pad Long | FLG Pad Short | Top To Center | Front To Center | O-Ring No. | Bore Size | Clearance Hole | UNC THD |
| 05              | 5,000 PSI   | 2.25          | 2.38           | 2.22              | 1.50         | 0.69          | 1.38          | 1.22            | 2-210      | 0.50      | 0.33           | 5/16"   |
| 07              |             | 3.00          | 2.75           | 2.47              | 1.87         | 0.87          | 1.63          | 1.31            | 2-214      | 0.75      | 0.40           | 3/8"    |
| 10              |             | 3.00          | 3.00           | 2.97              | 2.06         | 1.03          | 1.75          | 1.69            | 2-219      | 1.00      | 0.40           | 3/8"    |
| 12              | 4,000 PSI   | 3.50          | 3.56           | 3.47              | 2.31         | 1.19          | 2.00          | 1.94            | 2-222      | 1.25      | 0.47           | 7/16"   |
| 15              | 3,000 PSI   | 4.00          | 3.88           | 3.97              | 2.75         | 1.41          | 2.13          | 2.25            | 2-225      | 1.50      | 0.53           | 1/2"    |
| 20              |             | 4.50          | 4.50           | 4.47              | 3.06         | 1.69          | 2.25          | 2.44            | 2-228      | 2.00      | 0.53           | 1/2"    |
| 25              | 2,500 PSI   | 4.50          | 4.75           | 4.47              | 3.50         | 2.00          | 2.38          | 2.25            | 2-232      | 2.50      | 0.53           | 1/2"    |
| 30              | 2,000 PSI   | 5.50          | 5.50           | 5.47              | 4.19         | 2.44          | 2.75          | 2.78            | 2-237      | 3.00      | 0.66           | 5/8"    |
| 35              | 500 PSI     | 6.00          | 6.00           | 5.97              | 4.75         | 2.75          | 3.00          | 3.13            | 2-241      | 3.50      | 0.66           | 5/8"    |
| 40              |             | 6.50          | 6.50           | 6.47              | 5.13         | 3.06          | 3.25          | 3.38            | 2-245      | 4.00      | 0.66           | 5/8"    |

**F6E Code 62 Elbow Block Dimensions**

| Dimensions (in) | Working PSI | A             | B              | C                 | D            | E             | F             | G               | H          | J         | K              | L       |
|-----------------|-------------|---------------|----------------|-------------------|--------------|---------------|---------------|-----------------|------------|-----------|----------------|---------|
| Pad Size        |             | Overall Width | Overall Height | Overall Thickness | FLG Pad Long | FLG Pad Short | Top To Center | Front To Center | O-Ring No. | Bore Size | Clearance Hole | UNC THD |
| 05              | 6,000 PSI   | 2.50          | 2.50           | 2.47              | 1.59         | 0.72          | 1.44          | 1.44            | 2-210      | 0.50      | 0.33           | 5/16"   |
| 07              |             | 3.00          | 3.00           | 2.97              | 2.00         | 0.94          | 1.69          | 1.63            | 2-214      | 0.75      | 0.40           | 3/8"    |
| 10              |             | 3.50          | 3.50           | 3.47              | 2.25         | 1.09          | 2.00          | 2.00            | 2-219      | 1.00      | 0.47           | 7/16"   |
| 12              |             | 4.00          | 4.00           | 3.47              | 2.63         | 1.25          | 2.00          | 1.84            | 2-222      | 1.25      | 0.53           | 1/2"    |
| 15              |             | 4.50          | 5.13           | 4.47              | 3.13         | 1.44          | 2.56          | 2.50            | 2-225      | 1.50      | 0.66           | 5/8"    |
| 20              |             | 5.50          | 5.75           | 4.97              | 3.81         | 1.75          | 2.88          | 2.63            | 2-228      | 2.00      | 0.78           | 3/4"    |
| 25              |             | 7.00          | 7.50           | 6.97              | 4.87         | 2.31          | 3.75          | 3.94            | 2-232      | 2.50      | 0.91           | 7/8"    |
| 30              |             | 8.00          | 9.00           | 7.97              | 6.00         | 2.81          | 4.50          | 4.44            | 2-237      | 3.00      | 1.16           | 1 1/8"  |

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# F3J/F6J Tee Junction Block

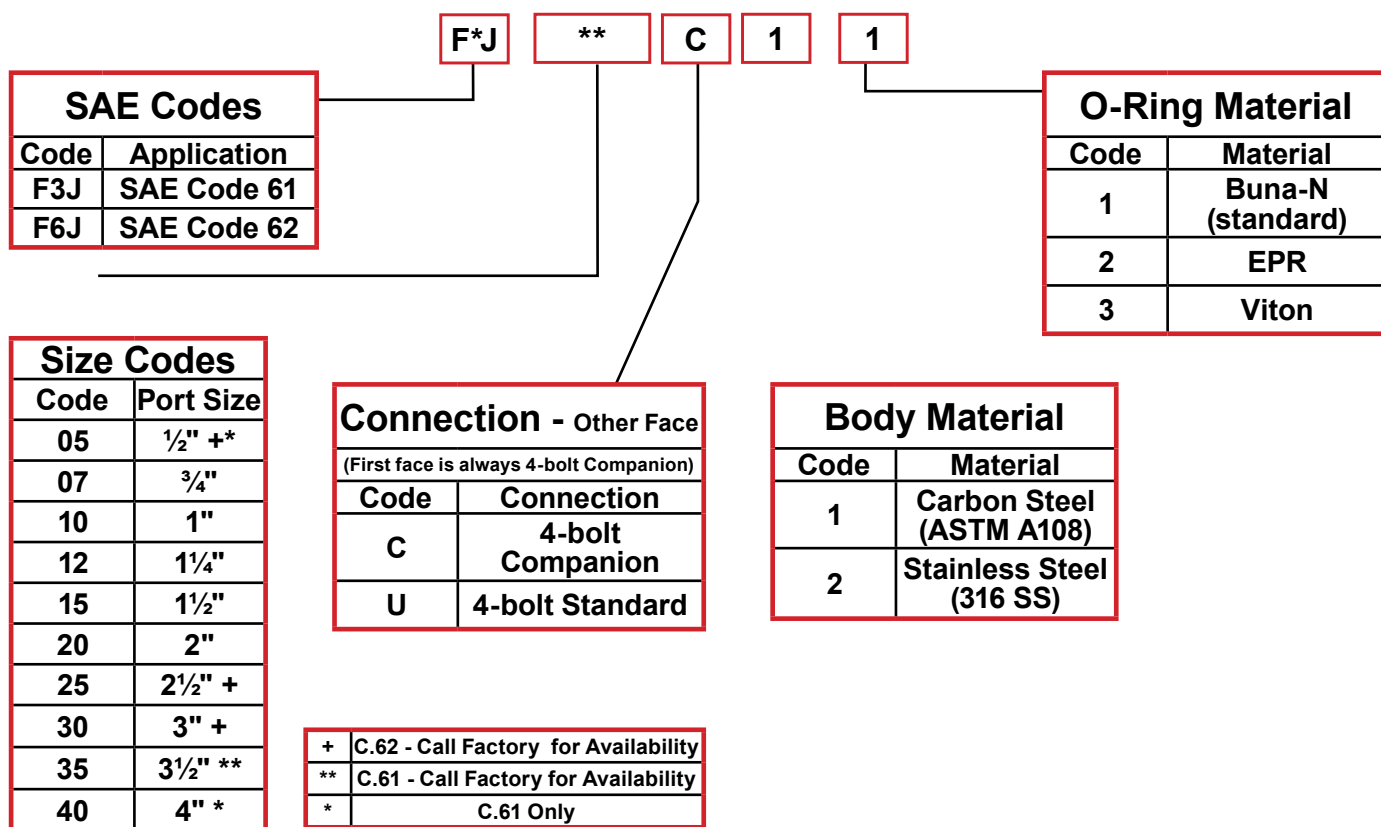
Provides a branch connection for SAE 4-bolt flanges or split flange heads.



F3J and F6J tee junction blocks offer a 4-bolt companion (flat face) SAE UNC connection on opposing faces and either the same 4-bolt companion (flat face) SAE UNC connection or a 4-bolt standard SAE O-Ring connection on the 90° branch face.

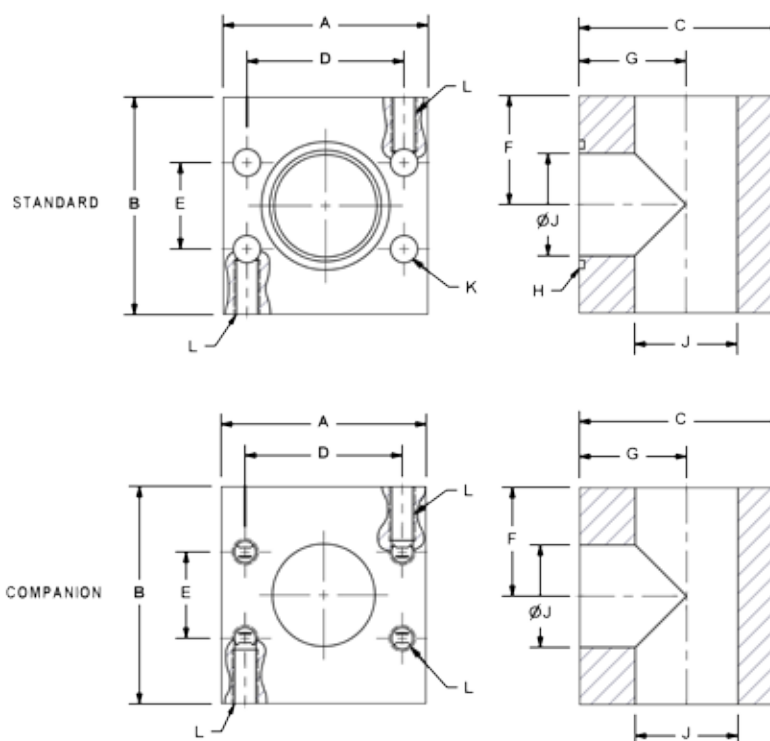
- Versions for SAE Code 61 and SAE Code 62.
- Carbon steel or stainless steel construction.
- 4-bolt companion (flat face) SAE UNC - always on opposing faces.
- Choice of either 4-bolt companion (flat face) SAE UNC flange or 4-bolt standard SAE O-ring flange on the branch face.
- Simplifies hydraulic line connectivity.
- Supplied with 3 O-Rings.

## Ordering Codes Summary





# F3J/F6J Tee Junction Block



**F3J Code 61 Tee Junction Block Dimensions**

| Dimensions (in) | Working PSI | A             | B              | C                 | D            | E             | F             | G               | H          | J         | K              | L       |
|-----------------|-------------|---------------|----------------|-------------------|--------------|---------------|---------------|-----------------|------------|-----------|----------------|---------|
| Pad Size        |             | Overall Width | Overall Height | Overall Thickness | FLG Pad Long | FLG Pad Short | Top To Center | Front To Center | O-Ring No. | Bore Size | Clearance Hole | UNC THD |
| 05              | 5,000 PSI   | 2.25          | 2.75           | 2.22              | 1.50         | 0.69          | 1.38          | 1.22            | 2-210      | 0.50      | 0.33           | 5/16"   |
| 07              |             | 3.00          | 3.25           | 2.47              | 1.87         | 0.87          | 1.63          | 1.31            | 2-214      | 0.75      | 0.33           | 3/8"    |
| 10              |             | 3.00          | 3.50           | 2.97              | 2.06         | 1.03          | 1.75          | 1.69            | 2-219      | 1.00      | 0.40           | 3/8"    |
| 12              | 4,000 PSI   | 3.50          | 4.00           | 3.47              | 2.31         | 1.19          | 2.00          | 1.94            | 2-222      | 1.25      | 0.47           | 7/16"   |
| 15              | 3,000 PSI   | 4.00          | 4.25           | 3.97              | 2.75         | 1.41          | 2.13          | 2.25            | 2-225      | 1.50      | 0.53           | 1/2"    |
| 20              |             | 4.50          | 4.50           | 4.47              | 3.06         | 1.69          | 2.25          | 2.44            | 2-228      | 2.00      | 0.53           | 1/2"    |
| 25              | 2,500 PSI   | 4.50          | 4.75           | 4.47              | 3.50         | 2.00          | 2.38          | 2.25            | 2-232      | 2.50      | 0.53           | 1/2"    |
| 30              | 2,000 PSI   | 5.50          | 5.50           | 5.47              | 4.19         | 2.44          | 2.75          | 2.78            | 2-237      | 3.00      | 0.66           | 5/8"    |
| 35              | 500 PSI     | 6.00          | 6.00           | 5.97              | 4.75         | 2.75          | 3.00          | 3.13            | 2-241      | 3.50      | 0.66           | 5/8"    |
| 40              |             | 6.50          | 6.50           | 6.47              | 5.13         | 3.06          | 3.25          | 3.38            | 2-245      | 4.00      | 0.66           | 5/8"    |

**F6J Code 62 Tee Junction Block Dimensions**

| Dimensions (in) | Working PSI | A             | B              | C                 | D            | E             | F             | G               | H          | J         | K              | L       |
|-----------------|-------------|---------------|----------------|-------------------|--------------|---------------|---------------|-----------------|------------|-----------|----------------|---------|
| Pad Size        |             | Overall Width | Overall Height | Overall Thickness | FLG Pad Long | FLG Pad Short | Top To Center | Front To Center | O-Ring No. | Bore Size | Clearance Hole | UNC THD |
| 05              | 6,000 PSI   | 2.50          | 2.88           | 2.47              | 1.59         | 0.72          | 1.44          | 1.44            | 2-210      | 0.50      | 0.33           | 5/16"   |
| 07              |             | 3.00          | 3.38           | 2.97              | 2.00         | 0.94          | 1.69          | 1.63            | 2-214      | 0.75      | 0.40           | 3/8"    |
| 10              |             | 3.50          | 4.00           | 3.47              | 2.25         | 1.09          | 2.00          | 2.00            | 2-219      | 1.00      | 0.47           | 7/16"   |
| 12              |             | 4.00          | 4.00           | 3.47              | 2.63         | 1.25          | 2.00          | 1.84            | 2-222      | 1.25      | 0.53           | 1/2"    |
| 15              |             | 4.50          | 5.13           | 4.47              | 3.13         | 1.44          | 2.56          | 2.50            | 2-225      | 1.50      | 0.66           | 5/8"    |
| 20              |             | 5.50          | 5.75           | 4.97              | 3.81         | 1.75          | 2.88          | 2.63            | 2-228      | 2.00      | 0.78           | 3/4"    |
| 25              |             | 7.00          | 7.50           | 6.97              | 4.87         | 2.31          | 3.75          | 3.94            | 2-228      | 2.50      | 0.91           | 7/8"    |
| 30              |             | 8.00          | 9.00           | 7.97              | 6.00         | 2.81          | 4.50          | 4.44            | 2-228      | 3.00      | 1.16           | 1 1/8"  |