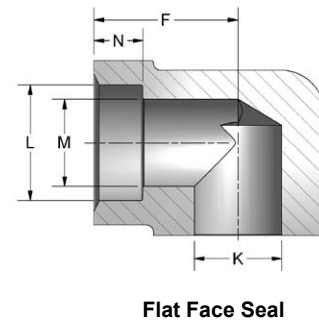
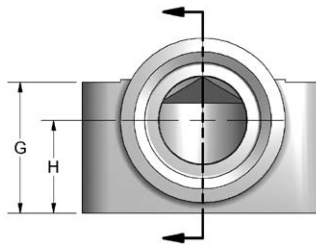
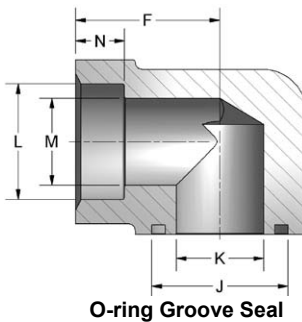
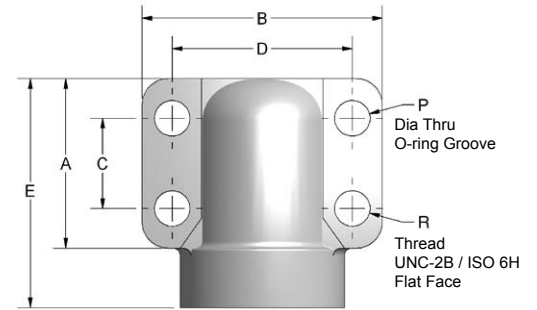
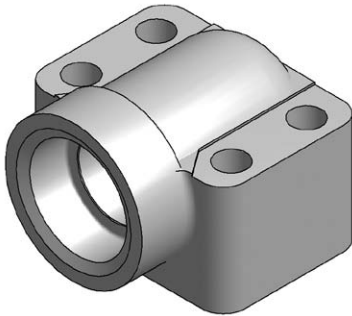


Socket Weld Pipe Elbow

Carbon Steel



Ordering Information

| FG | Flange Size | Material | Product Type | Seal | Rating Code | Pipe Size | Port Type | Mounting | | | | | | | | | | | | | |
|--------------------|---|-------------|--------------|--------------------|-------------|-----------|-----------|----------|-------|----|-------|----|-------|----|-------|--------------------|--|----|-------|----|-------|
| | <table border="1"> <thead> <tr> <th colspan="2">Flange Size</th> </tr> <tr> <td colspan="2">Rating code 1 or 2</td> </tr> <tr> <td>12</td> <td>0.75"</td> </tr> <tr> <td>16</td> <td>1.00"</td> </tr> <tr> <td>20</td> <td>1.25"</td> </tr> <tr> <td>24</td> <td>1.50"</td> </tr> <tr> <td>32</td> <td>2.00"</td> </tr> <tr> <td colspan="2">Rating code 1 only</td> </tr> <tr> <td>40</td> <td>2.50"</td> </tr> <tr> <td>48</td> <td>3.00"</td> </tr> </thead></table> | Flange Size | | Rating code 1 or 2 | | 12 | 0.75" | 16 | 1.00" | 20 | 1.25" | 24 | 1.50" | 32 | 2.00" | Rating code 1 only | | 40 | 2.50" | 48 | 3.00" |
| Flange Size | | | | | | | | | | | | | | | | | | | | | |
| Rating code 1 or 2 | | | | | | | | | | | | | | | | | | | | | |
| 12 | 0.75" | | | | | | | | | | | | | | | | | | | | |
| 16 | 1.00" | | | | | | | | | | | | | | | | | | | | |
| 20 | 1.25" | | | | | | | | | | | | | | | | | | | | |
| 24 | 1.50" | | | | | | | | | | | | | | | | | | | | |
| 32 | 2.00" | | | | | | | | | | | | | | | | | | | | |
| Rating code 1 only | | | | | | | | | | | | | | | | | | | | | |
| 40 | 2.50" | | | | | | | | | | | | | | | | | | | | |
| 48 | 3.00" | | | | | | | | | | | | | | | | | | | | |

 | Material | | |----------|--------------| | C | Carbon Steel | | | Product Type | | |--------------|-------------------| | L | Socket Weld Elbow | | | Seal | | |------|---------------| | G | O-ring Groove | | F | Flat Face | | | Rating Code | | |-------------|---| | 1 | Code 61 • SAE J518 3.5 - 35 MPa • ISO 6162-1 | | 2 | Code 62 • SAE J518 40 MPa • ISO 6162-2 | | | Pipe Size | | |---|-------| | Not all pipe sizes are available for each flange size. See chart next page. | | | 12 | 0.75" | | 16 | 1.00" | | 20 | 1.25" | | 24 | 1.50" | | 32 | 2.00" | | 40 | 2.50" | | 48 | 3.00" | | | Port Type | | |-----------|------------------| | P | Pipe Socket Weld | | | Mounting | | |------------------|--| | Seal code G only | | | U | UNC mounting kit | | M | Metric mounting kit | | Seal code G or F | | | X | No kit included UNC mounting holes | | Y | No kit included Metric mounting holes | |



Socket Weld Pipe Elbow

Carbon Steel

| CODE 61 SOCKET WELD PIPE ELBOW | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|------|------|-------|-------|------|------|------|-------|-------|-------|-------|------|-----|-----------------|-----------------|---------------|---------------|------------------------|---------------|--------------|
| FLANGE SIZE | A | B | C | D | E | F | G | H | J | K | L | M | N | P DIA THRU | | R THREAD | | MOUNTING HARDWARE SHCS | | |
| | | | | | | | | | | | | | | Mounting U or X | Mounting M or Y | UNC-2B U or X | ISO 6H M or Y | O-RING | Mounting U | Mounting M |
| 0.75 | 1.69 | 2.56 | .875 | 1.875 | 2.28 | 1.44 | 1.25 | .875 | 1.250 | .752 | 1.062 | .75 | .56 | .406 | 10.5mm | 0.375-16 | M10-1.5 | 214 | 0.375-16x2.00 | M10-1.5x50 |
| 1.00 | 1.94 | 2.75 | 1.031 | 2.062 | 2.62 | 1.66 | 1.50 | 1.062 | 1.560 | 1.002 | 1.328 | 1.00 | .56 | .406 | 10.5mm | 0.375-16 | M10-1.5 | 219 | 0.375-16x2.25 | M10-1.5x55 |
| 1.25 | 2.19 | 3.12 | 1.188 | 2.312 | 3.00 | 1.91 | 1.81 | 1.188 | 1.750 | 1.252 | 1.672 | 1.25 | .62 | .469 | 10.5mm | 0.438-14 | M10-1.5 | 222 | 0.438-14x2.75 | M10-1.5x70 |
| 1.50 | 2.56 | 3.69 | 1.406 | 2.750 | 3.33 | 2.05 | 2.00 | 1.312 | 2.115 | 1.502 | 1.922 | 1.50 | .69 | .531 | 12.5mm | 0.500-13 | M12-1.75 | 225 | 0.500-13x3.00 | M12-1.75x75 |
| 2.00 | 3.06 | 4.33 | 1.688 | 3.062 | 3.81 | 2.28 | 2.50 | 1.656 | 2.490 | 2.002 | 2.406 | 2.00 | .75 | .531 | 12.5mm | 0.500-13 | M12-1.75 | 228 | 0.500-13x3.50 | M12-1.75x90 |
| 2.50 | 3.56 | 5.00 | 2.000 | 3.500 | 4.66 | 2.88 | 2.78 | 1.900 | 2.995 | 2.502 | 2.906 | 2.50 | .75 | .531 | 12.5mm | 0.500-13 | M12-1.75 | 232 | 0.500-13x5.00 | M12-1.75x130 |
| 3.00 | 4.00 | 5.50 | 2.438 | 4.188 | 5.00 | 3.00 | 3.35 | 2.400 | 3.615 | 3.002 | 3.547 | 3.00 | .75 | .656 | 16.5mm | 0.625-11 | M16-2.0 | 237 | 0.625-11x6.00 | M16-2.0x150 |

| CODE 62 SOCKET WELD PIPE ELBOW | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|------|------|-------|-------|------|------|------|-------|-------|-------|-------|------|-----|-----------------|-----------------|---------------|---------------|------------------------|---------------|-------------|
| FLANGE SIZE | A | B | C | D | E | F | G | H | J | K | L | M | N | P DIA THRU | | R THREAD | | MOUNTING HARDWARE SHCS | | |
| | | | | | | | | | | | | | | Mounting U or X | Mounting M or Y | UNC-2B U or X | ISO 6H M or Y | O-RING | Mounting U | Mounting M |
| 0.75 | 1.94 | 2.75 | .937 | 2.000 | 2.62 | 1.66 | 1.50 | 1.062 | 1.250 | .752 | 1.062 | .75 | .56 | .406 | 10.5mm | 0.375-16 | M10-1.5 | 214 | 0.375-16x2.25 | M10-1.5x55 |
| 1.00 | 2.19 | 3.12 | 1.093 | 2.250 | 3.00 | 1.91 | 1.81 | 1.188 | 1.560 | 1.002 | 1.328 | 1.00 | .62 | .492 | 12.5mm | 0.438-14 | M12-1.75 | 219 | 0.438-14x2.50 | M12-1.75x65 |
| 1.25 | 2.56 | 3.69 | 1.250 | 2.625 | 3.32 | 2.05 | 2.00 | 1.312 | 1.750 | 1.252 | 1.672 | 1.25 | .69 | .531 | 12.5mm | 0.500-13 | M12-1.75 | 222 | 0.500-13x3.00 | M12-1.75x75 |
| 1.50 | 3.06 | 4.33 | 1.437 | 3.125 | 3.81 | 2.28 | 2.50 | 1.656 | 2.115 | 1.502 | 1.922 | 1.50 | .75 | .656 | 16.5mm | 0.625-11 | M16-2.0 | 225 | 0.625-11x3.50 | M16-2.0x90 |
| 2.00 | 3.56 | 5.00 | 1.750 | 3.812 | 4.66 | 2.88 | 2.69 | 1.900 | 2.490 | 2.002 | 2.406 | 2.00 | .75 | .781 | 21.0mm | 0.750-10 | M20-2.5 | 228 | 0.750-10x4.50 | M20-2.5x110 |

Pressure Ratings and Fastener Torque Values

| CODE 61 SAE J518-1 / ISO 6162-1 | | | | | | |
|---------------------------------|-----------|----------------------|------|-----------------------|-------------------------|--|
| Dash Size | Inch Size | Max Working Pressure | | Fastener Torque Value | | |
| | | PSI | MPa | Grade 8 UNC (lb-ft) | Grade 10.9 Metric (N-m) | |
| -8 | 0.50" | 5000 | 35.0 | 24 | 32 | |
| -12 | 0.75" | 5000 | 35.0 | 44 | 70 | |
| -16 | 1.00" | 4600 | 32.0 | 44 | 70 | |
| -20 | 1.25" | 4000 | 28.0 | 68 | 70 | |
| -24 | 1.50" | 3000 | 21.0 | 111 | 130 | |
| -32 | 2.00" | 3000 | 21.0 | 111 | 130 | |
| -40 | 2.50" | 2500 | 17.5 | 111 | 130 | |
| -48 | 3.00" | 2300 | 16.0 | 218 | 295 | |
| -56 | 3.50" | 500 | 3.5 | 218 | 295 | |
| -64 | 4.00" | 500 | 3.5 | 218 | 295 | |
| -80 | 5.00" | 500 | 3.5 | 218 | 295 | |

| CODE 62 SAE J518-2 / ISO 6162-2 | | | | | | |
|---------------------------------|-----------|----------------------|------|-----------------------|-------------------------|--|
| Dash Size | Inch Size | Max Working Pressure | | Fastener Torque Value | | |
| | | PSI | MPa | Grade 8 UNC (lb-ft) | Grade 10.9 Metric (N-m) | |
| -8 | 0.50" | 6000 | 40.0 | 24 | 32 | |
| -12 | 0.75" | 6000 | 40.0 | 44 | 70 | |
| -16 | 1.00" | 6000 | 40.0 | 68 | 130 | |
| -20 | 1.25" | 6000 | 40.0 | 111 | 130 | |
| -24 | 1.50" | 6000 | 40.0 | 218 | 295 | |
| -32 | 2.00" | 6000 | 40.0 | 332 | 550 | |

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.