



# FLANGE FITTINGS

*HYDRAULIC FLANGES, ADAPTERS & ACCESSORIES*





# FLANGE FITTINGS

Available in both forged and one-piece swept configurations, Brennan Industries now manufactures a full line of flange adapters for use with Brennan's expanded split and 4-bolt flange product line.

Made to endure extremely high working pressures and tensile strength, Brennan flange adapters are designed to perform in a variety of clearance applications.

Brennan flange adapters are available in connection sizes ranging from 1/2" to 4".

**Contact a Brennan representative to learn more: (888) 331-1523.**

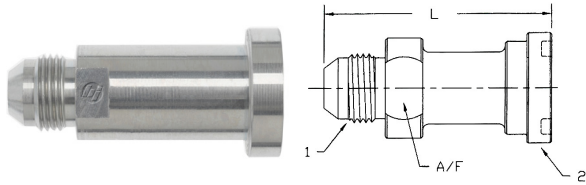
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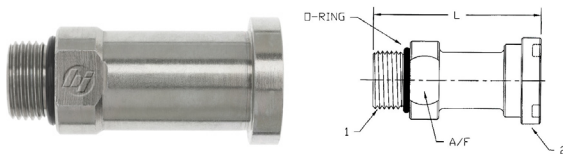
# STRAIGHTS

## 1700 MJ-FLANGE STRAIGHT CODE 61



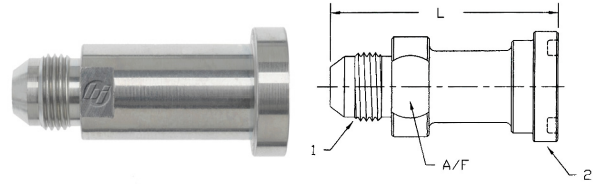
| PART NO.   | TUBE O.D. | 1 THREAD  | 2 FLANGE | L (in.) | A/F (in.) |
|------------|-----------|-----------|----------|---------|-----------|
| 1700-08-08 | 1/2       | 3/4-16    | 1/2      | 2.600   | 1.000     |
| 1700-08-12 | 1/2       | 3/4-16    | 3/4      | 2.750   | 1.125     |
| 1700-10-10 | 5/8       | 7/8-14    | 5/8      | 3.69    | .9375     |
| 1700-12-10 | 3/4       | 1 1/16-12 | 5/8      | 2.55    | 1.125     |
| 1700-12-12 | 3/4       | 1 1/16-12 | 3/4      | 2.750   | 1.375     |
| 1700-12-16 | 3/4       | 1 1/16-12 | 1        | 2.800   | 1.250     |
| 1700-12-20 | 3/4       | 1 1/16-12 | 1 1/4    | 2.800   | 1.688     |
| 1700-12-24 | 3/4       | 1 1/16-12 | 1 1/2    | 2.80    | 1.50      |
| 1700-16-12 | 1         | 1 5/16-12 | 3/4      | 2.750   | 1.375     |
| 1700-16-16 | 1         | 1 5/16-12 | 1        | 2.800   | 1.625     |
| 1700-16-20 | 1         | 1 5/16-12 | 1 1/4    | 2.800   | 1.375     |
| 1700-16-24 | 1         | 1 5/16-12 | 1 1/2    | 2.800   | 1.687     |
| 1700-20-16 | 1 1/4     | 1 5/8-12  | 1        | 2.800   | 1.625     |
| 1700-20-20 | 1 1/4     | 1 5/8-12  | 1 1/4    | 2.80    | 1 11/16   |
| 1700-20-24 | 1 1/4     | 1 5/8-12  | 1 1/2    | 3.375   | 2.125     |
| 1700-20-32 | 1 1/4     | 1 5/8-12  | 2        | 3.50    | 1 11/16   |
| 1700-24-16 | 1 1/2     | 1 7/8-12  | 1        | 3.130   | 1.875     |
| 1700-24-20 | 1 1/2     | 1 7/8-12  | 1 1/4    | 3.40    | 2         |
| 1700-24-24 | 1 1/2     | 1 7/8-12  | 1 1/2    | 3.50    | 2         |
| 1700-24-32 | 1 1/2     | 1 7/8-12  | 2        | 3.730   | 2.000     |
| 1700-24-40 | 1 1/2     | 2 7/8-12  | 2 1/2    | 3.97    |           |
| 1700-32-24 | 2         | 2 1/2-12  | 1 1/2    | 4.20    | 2.622     |
| 1700-32-32 | 2         | 2 1/2-12  | 2        | 3.980   | 2.625     |
| 1700-32-40 | 2         | 2 1/2-12  | 2 1/2    | 3.638   | 2.750     |
| 1700-40-40 | 2 1/2     | 3-12      | 2 1/2    | 4.209   | 3.250     |

## 1710 MB-FLANGE STRAIGHT



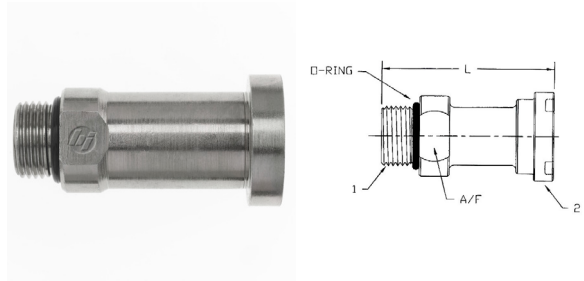
| PART NO.   | TUBE O.D. | THREAD       | FLANGE | L LGTH | A/F   |
|------------|-----------|--------------|--------|--------|-------|
| 1710-08-08 | 1/2       | 3/4-16 UNF   | 1/2    | 2.490  | 0.875 |
| 1710-12-12 | 3/4       | 1 1/16-12 UN | 3/4    | 2.610  | 1.250 |
| 1710-16-16 | 1         | 1 5/16-12 UN | 1      | 2.61   | 1 1/2 |
| 1710-20-20 | 1 1/4     | 1 5/8-12 UN  | 1 1/4  | 3.13   | 1 7/8 |
| 1710-24-24 | 1 1/2     | 1 7/8-12 UN  | 1 1/2  | 3.140  | 2.125 |
| 1710-32-32 | 2         | 2 1/2-12     | 2      | 3.630  | 2.750 |

## 1800 MJ-FLANGE STRAIGHT CODE 62



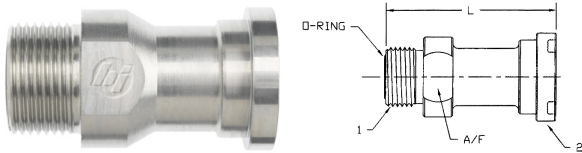
| PART NO.   | TUBE O.D. | 1 THREAD     | 2 FLANGE | L (in.) | A/F (in.) |
|------------|-----------|--------------|----------|---------|-----------|
| 1800-08-08 | 1/2       | 3/4-16       | 1/2      | 2.610   | 0.812     |
| 1800-08-12 | 1/2       | 3/4-16       | 3/4      | 2.75    | 1.125     |
| 1800-12-12 | 3/4       | 1 1/16-12    | 3/4      | 2.750   | 1.375     |
| 1800-12-16 | 3/4       | 1 1/16-12    | 1        | 2.800   | 1.625     |
| 1800-12-20 | 3/4       | 1 1/16-12    | 1 1/4    | 3.050   | 1.500     |
| 1800-16-12 | 1         | 1 5/16-12 UN | 3/4      | 2.75    | 1 3/8     |
| 1800-16-16 | 1         | 1 5/16-12    | 1        | 2.800   | 1.375     |
| 1800-16-20 | 1         | 1 5/16-12 UN | 1 1/4    | 3.05    | 1 3/8     |
| 1800-16-24 | 1         | 1 5/16-12    | 1 1/2    | 3.330   | 1.688     |
| 1800-20-16 | 1 1/4     | 1 5/8-12     | 1        | 2.800   | 1.625     |
| 1800-20-20 | 1 1/4     | 1 5/8-12     | 1 1/4    | 3.050   | 1.750     |
| 1800-20-24 | 1 1/4     | 1 5/8-12     | 1 1/2    | 3.500   | 2.125     |
| 1800-24-20 | 1 1/2     | 1 7/8-12     | 1 1/4    | 3.300   | 1.875     |
| 1800-24-24 | 1 1/2     | 1 7/8-12     | 1 1/2    | 3.500   | 2.125     |
| 1800-24-32 | 1 1/2     | 1 7/8-12     | 2        | 3.980   | 2.625     |
| 1800-32-24 | 2         | 2 1/2-12     | 1 1/2    | 4.940   | 2.625     |
| 1800-32-32 | 2         | 2 1/2-12     | 2        | 4.230   | 2.625     |

## 1810 MB-FLANGE STRAIGHT CODE 62



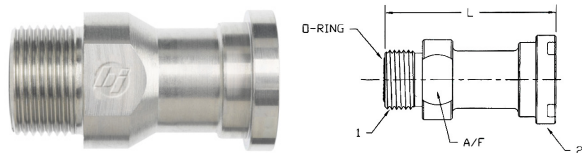
| PART NO.   | TUBE O.D. | 1 THREAD    | 2 FLANGE | L1 (in.) | A/F (in.) |
|------------|-----------|-------------|----------|----------|-----------|
| 1810-08-08 | 1/2       | 3/4-16 UNF  | 1/2      | 2.50     | 7/8       |
| 1810-12-12 | 3/4       | 1 1/16-12   | 3/4      | 2.620    | 1.375     |
| 1810-16-16 | 1         | 1 5/16-12   | 1        | 2.625    | 1.625     |
| 1810-20-20 | 1 1/4     | 1 5/8-12 UN | 1 1/4    | 3.00     | 1 7/8     |
| 1810-24-24 | 1 1/2     | 1 7/8-12 UN | 1 1/2    | 3.40     | 2 1/8     |
| 1810-32-32 | 2         | 2 1/2-12 UN | 2        | 3.75     | 2 3/4     |

## FS1700 MFS-FLANGE STRAIGHT - CODE 61



| PART NO.     | TUBE O.D. | 1 THREAD    | 2 FLANGE | L (in.) | A/F (in.) |
|--------------|-----------|-------------|----------|---------|-----------|
| FS1700-08-08 | 1/2       | 13/16-16 UN | 1/2      | 2.450   | 1.125     |
| FS1700-12-12 | 3/4       | 1-3/16-12   | 3/4      | 2.750   | 1.375     |
| FS1700-12-16 | 3/4       | 1-3/16-12   | 1        | 2.800   | 1.250     |
| FS1700-16-12 | 1         | 1-7/16-12   | 3/4      | 2.750   | 1.625     |
| FS1700-16-16 | 1         | 1-7/16-12   | 1        | 2.800   | 1.500     |
| FS1700-16-20 | 1         | 1-7/16-12   | 1 1/4    | 2.800   | 1.688     |
| FS1700-20-16 | 1 1/4     | 1-11/16-12  | 1        | 2.800   | 1.875     |
| FS1700-20-20 | 1 1/4     | 1-11/16-12  | 1 1/4    | 2.800   | 1.875     |
| FS1700-20-24 | 1 1/4     | 1-11/16-12  | 1 1/2    | 3.500   | 2.000     |
| FS1700-24-20 | 1 1/2     | 2-12        | 1 1/4    | 3.200   | 2.125     |
| FS1700-24-24 | 1 1/2     | 2-12        | 1 1/2    | 3.500   | 2.125     |
| FS1700-24-32 | 1 1/2     | 2-12        | 2        | 3.330   | 2.125     |

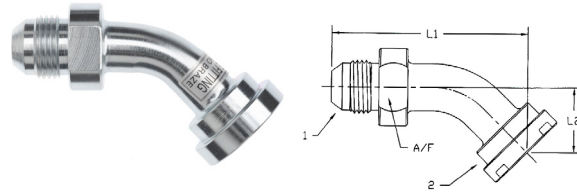
## FS1800 MFS-FLANGE STRT CODE 62



| PART NO.     | TUBE O.D. | 1 THREAD   | 2 FLANGE | L (in.) | A/F (in.) |
|--------------|-----------|------------|----------|---------|-----------|
| FS1800-08-08 | 1/2       | 13/16-16   | 1/2      | 2.580   | 0.875     |
| FS1800-12-12 | 3/4       | 1-3/16-12  | 3/4      | 2.750   | 1.375     |
| FS1800-12-16 | 3/4       | 1-3/16-12  | 1        | 2.800   | 1.625     |
| FS1800-16-12 | 1         | 1-7/16-12  | 3/4      | 2.750   | 1.625     |
| FS1800-16-16 | 1         | 1-7/16-12  | 1        | 3.360   | 1.500     |
| FS1800-16-20 | 1         | 1-7/16-12  | 1 1/4    | 3.050   | 1.500     |
| FS1800-20-16 | 1 1/4     | 1-11/16-12 | 1        | 3.200   | 1.750     |
| FS1800-20-20 | 1 1/4     | 1-11/16-12 | 1 1/4    | 3.050   | 1.875     |
| FS1800-20-24 | 1 1/4     | 1-11/16-12 | 1 1/2    | 3.500   | 2.125     |
| FS1800-24-20 | 1 1/2     | 2-12       | 1 1/4    | 3.300   | 2.125     |
| FS1800-24-24 | 1 1/2     | 2-12       | 1 1/2    | 3.500   | 2.125     |
| FS1800-24-32 | 1 1/2     | 2-12       | 2        | 3.580   | 2.125     |

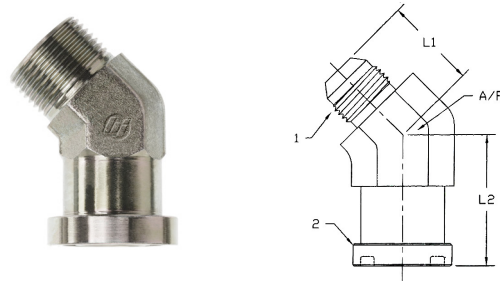
## ELBOWS

### 1703 MJ-FLANGE 45 DEG ELBOW CODE 61



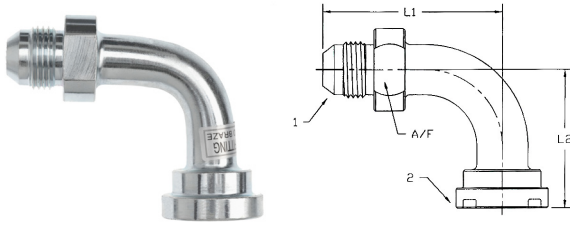
| PART NO.   | TUBE O.D. | 1 THREAD     | 2 FLANGE | L1 (in.) | L2 (in.) | A/F (in.) |
|------------|-----------|--------------|----------|----------|----------|-----------|
| 1703-08-08 | 1/2       | 3/4-16 UNF   | 1/2      | 2.72     | 0.91     | 7/8       |
| 1703-08-12 | 1/2       | 3/4-16 UNF   | 3/4      | 2.72     | 0.94     | 7/8       |
| 1703-12-12 | 3/4       | 1 1/16-12 UN | 3/4      | 3.15     | 1.02     | 1 1/8     |
| 1703-12-16 | 3/4       | 1 1/16-12 UN | 1        | 3.15     | 1.02     | 1 1/8     |
| 1703-12-20 | 3/4       | 1 1/16-12 UN | 1 1/4    | 3.15     | 1.02     | 1 1/8     |
| 1703-16-12 | 1         | 1 5/16-12 UN | 3/4      | 3.66     | 1.18     | 1 3/8     |
| 1703-16-16 | 1         | 1 5/16-12 UN | 1        | 3.66     | 1.18     | 1 3/8     |
| 1703-16-20 | 1         | 1 5/16-12 UN | 1 1/4    | 3.66     | 1.18     | 1 3/8     |
| 1703-16-24 | 1         | 1 5/16-12 UN | 1 1/2    | 3.74     | 1.26     | 1 3/8     |
| 1703-20-12 | 1 1/4     | 1 5/8-12 UN  | 3/4      | 3.78     | 1.18     | 1 11/16   |
| 1703-20-16 | 1 1/4     | 1 5/8-12 UN  | 1        | 3.86     | 1.22     | 1 11/16   |
| 1703-20-20 | 1 1/4     | 1 5/8-12 UN  | 1 1/4    | 4.21     | 1.38     | 1 11/16   |
| 1703-20-24 | 1 1/4     | 1 5/8-12 UN  | 1 1/2    | 4.25     | 1.42     | 1 11/16   |
| 1703-24-16 | 1 1/2     | 1 7/8-12     | 1        | 4.165    | 1.200    | 2.00      |
| 1703-24-20 | 1 1/2     | 1 7/8-12 UN  | 1 1/4    | 4.70     | 1.46     | 2         |
| 1703-24-24 | 1 1/2     | 1 7/8-12 UN  | 1 1/2    | 4.96     | 1.69     | 2         |
| 1703-24-32 | 1 1/2     | 1 7/8-12 UN  | 2        | 5.12     | 1.81     | 2         |
| 1703-32-32 | 2         | 2 1/2-12 UN  | 2        | 6.22     | 2.17     | 2 3/4     |

### 1703-FG MJ-FLANGE 45 DEG CODE 61



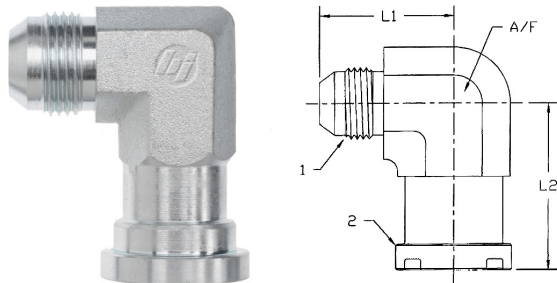
| PART NO.      | TUBE O.D. | 1 THREAD     | 2 FLANGE | L1 (in.) | L2 (in.) | A/F (in.) |
|---------------|-----------|--------------|----------|----------|----------|-----------|
| 1703-12-12-FG | 3/4       | 1 1/16-12 UN | 3/4      | 1.280    | 1.580    | 1.0625    |
| 1703-16-16-FG | 1         | 1 5/16-12 UN | 1        | 1.470    | 1.850    | 1.3125    |
| 1703-20-20-FG | 1 1/4     | 1 5/8-12 UN  | 1 1/4    | 1.590    | 2.040    | 1.625     |
| 1703-24-24-FG | 1 1/2     | 1 7/8-12 UN  | 1 1/2    | 1.78     | 2.38     | 1 7/8     |
| 1703-32-32-FG | 2         | 2 1/2-12 UN  | 2        | 2.220    | 3.000    | 2.500     |

# 1704 MJ-FLANGE 90 DEG CODE 61



| PART NO.   | TUBE O.D. | 1 THREAD     | 2 FLANGE | L1 (in.) | L2 (in.) | A/F (in.) |
|------------|-----------|--------------|----------|----------|----------|-----------|
| 1704-08-08 | 1/2       | 3/4-16 UNF   | 1/2      | 2.32     | 1.81     | 7/8       |
| 1704-08-12 | 1/2       | 3/4-16 UNF   | 3/4      | 2.32     | 1.85     | 7/8       |
| 1704-10-10 | 5/8       | 7/8-14       | 5/8      | 2.729    | 2.114    | .9375     |
| 1704-12-10 | 3/4       | 1-1/16-12    | 5/8      | 2.850    | 1.910    | 1.125     |
| 1704-12-12 | 3/4       | 1-1/16-12 UN | 3/4      | 2.83     | 2.13     | 1 1/8     |
| 1704-12-16 | 3/4       | 1-1/16-12 UN | 1        | 2.83     | 2.13     | 1 1/8     |
| 1704-12-20 | 3/4       | 1-1/16-12 UN | 1 1/4    | 2.83     | 2.13     | 1 1/8     |
| 1704-12-24 | 3/4       | 1-1/16-12    | 1-1/2    | 2.901    | 2.458    | 1.125     |
| 1704-16-12 | 1         | 1-5/16-12 UN | 3/4      | 2.95     | 2.13     | 1 3/8     |
| 1704-16-16 | 1         | 1-5/16-12 UN | 1        | 3.39     | 2.60     | 1 3/8     |
| 1704-16-20 | 1         | 1-5/16-12 UN | 1 1/4    | 3.39     | 2.60     | 1 3/8     |
| 1704-16-24 | 1         | 1-5/16-12 UN | 1 1/2    | 3.39     | 2.66     | 1 3/8     |
| 1704-20-12 | 1-1/4     | 1-5/8-12     | 3/4      | 3.052    | 2.26     | 1.6875    |
| 1704-20-16 | 1-1/4     | 1-5/8-12 UN  | 1        | 3.54     | 2.60     | 1 11/16   |
| 1704-20-20 | 1-1/4     | 1-5/8-12 UN  | 1 1/4    | 3.98     | 3.03     | 1 11/16   |
| 1704-20-24 | 1-1/4     | 1-5/8-12 UN  | 1 1/2    | 3.98     | 3.11     | 1 11/16   |
| 1704-20-32 | 1-1/4     | 1-5/8-12     | 2        | 3.976    | 3.504    | 1.688     |
| 1704-24-16 | 1-1/2     | 1-7/8-12     | 1        | 4.039    | 2.849    | 2.000     |
| 1704-24-20 | 1 1/2     | 1-7/8-12 UN  | 1 1/4    | 4.21     | 3.03     | 2         |
| 1704-24-24 | 1 1/2     | 1-7/8-12 UN  | 1 1/2    | 4.57     | 3.66     | 2         |
| 1704-24-32 | 1 1/2     | 1-7/8-12 UN  | 2        | 4.57     | 3.86     | 2         |
| 1704-32-24 | 2         | 2 1/2-12 UN  | 1 1/2    | 5.04     | 3.66     | 2 3/4     |
| 1704-32-32 | 2         | 2 1/2-12 UN  | 2        | 5.79     | 4.84     | 2 3/4     |

# 1704-FG MJ-FLANGE 90 DEG CODE 61

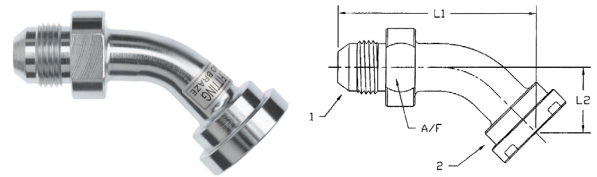


| PART NO.      | TUBE O.D. | 1 THREAD     | 2 FLANGE | L1 (in.) | L2 (in.) | A/F (in.) |
|---------------|-----------|--------------|----------|----------|----------|-----------|
| 1704-08-08-FG | 1/2       | 3/4-16 UNF   | 1/2      | 1.460    | 2.050    | 0.875     |
| 1704-08-12-FG | 1/2       | 3/4-16       | 3/4      | 1.660    | 2.130    | 1.062     |
| 1704-08-24-FG | 1/2       | 3/4-16 UNF   | 1 1/2    | 2.319    | 3.134    | 1.9218    |
| 1704-12-12-FG | 3/4       | 1-1/16-12 UN | 3/4      | 1.660    | 2.130    | 1.0625    |
| 1704-12-16-FG | 3/4       | 1-1/16-12 UN | 1        | 1.81     | 2.37     | 1 5/16    |
| 1704-12-20-FG | 3/4       | 1-1/16-12 UN | 1 1/4    | 2.06     | 2.62     | 1.625     |
| 1704-12-24-FG | 3/4       | 1-1/16-12 UN | 1 1/2    | 2.20     | 3.15     | 1 5/8     |
| 1704-16-12-FG | 1         | 1-5/16-12    | 3/4      | 1.660    | 2.130    | 1.062     |
| 1704-16-16-FG | 1         | 1-5/16-12 UN | 1        | 1.811    | 2.370    | 1.3125    |
| 1704-16-20-FG | 1         | 1-5/16-12 UN | 1 1/4    | 2.060    | 2.620    | 1.625     |
| 1704-20-16-FG | 1-1/4     | 1-5/8-12     | 1        | 1.810    | 2.370    | 1.312     |
| 1704-20-20-FG | 1-1/4     | 1-5/8-12     | 1-1/4    | 2.060    | 2.620    | 1.625     |

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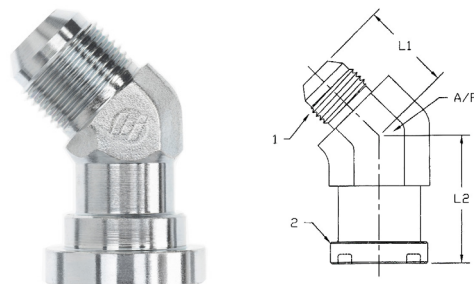
| PART NO.      | TUBE O.D. | 1 THREAD    | 2 FLANGE | L1 (in.) | L2 (in.) | A/F (in.) |
|---------------|-----------|-------------|----------|----------|----------|-----------|
| 1704-20-24-FG | 1 1/4     | 1-5/8-12 UN | 1 1/2    | 2.330    | 3.150    | 1.875     |
| 1704-24-20-FG | 1 1/2     | 1-7/8-12    | 1 1/4    | 2.060    | 2.620    | 1.625     |
| 1704-24-24-FG | 1-1/2     | 1-7/8-12    | 1-1/2    | 2.330    | 3.150    | 1.875     |
| 1704-24-32-FG | 1 1/2     | 1-7/8-12 UN | 2        | 3.060    | 4.250    | 2.500     |
| 1704-32-24-FG | 2         | 2-1/2-12    | 1-1/2    | 3.060    | 4.250    | 2.500     |
| 1704-32-32-FG | 2         | 2 1/2-12 UN | 2        | 3.06     | 4.25     | 2.500     |

# 1803 MJ-FLANGE 45 DEG CODE 62



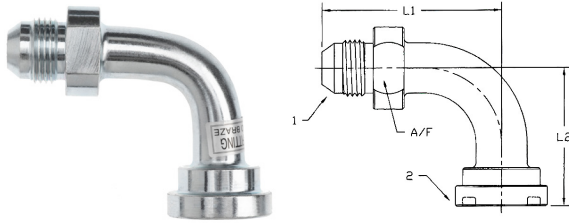
| PART NO.   | TUBE O.D. | 1 THREAD     | 2 FLANGE | L1 (in.) | L2 (in.) | A/F (in.) |
|------------|-----------|--------------|----------|----------|----------|-----------|
| 1803-08-08 | 1/2       | 3/4-16 UNF   | 1/2      | 2.76     | 0.94     | 7/8       |
| 1803-12-12 | 3/4       | 1-1/16-12 UN | 3/4      | 3.31     | 1.14     | 1 1/8     |
| 1803-12-16 | 3/4       | 1-1/16-12 UN | 1        | 3.35     | 1.22     | 1 1/8     |
| 1803-12-20 | 3/4       | 1-1/16-12    | 1-1/4    | 3.75     | 1.62     | 1.125     |
| 1803-16-12 | 1         | 1-5/16-12 UN | 3/4      | 3.46     | 1.18     | 1 3/8     |
| 1803-16-16 | 1         | 1-5/16-12 UN | 1        | 3.86     | 1.38     | 1 3/8     |
| 1803-16-20 | 1         | 1-5/16-12 UN | 1 1/4    | 3.98     | 1.50     | 1 3/8     |
| 1803-16-24 | 1         | 1-5/16-12 UN | 1 1/2    | 4.13     | 1.61     | 1 3/8     |
| 1803-20-12 | 1 1/4     | 1-5/8-12 UN  | 3/4      | 4.13     | 1.42     | 1 1/2     |
| 1803-20-16 | 1 1/4     | 1-5/8-12 UN  | 1        | 4.13     | 1.42     | 1 11/16   |
| 1803-20-20 | 1 1/4     | 1-5/8-12 UN  | 1 1/4    | 4.53     | 1.65     | 1 11/16   |
| 1803-20-24 | 1 1/4     | 1-5/8-12 UN  | 1 1/2    | 4.65     | 1.81     | 1 11/16   |
| 1803-24-20 | 1-1/2     | 1-7/8-12     | 1-1/4    | 4.875    | 1.400    | 2.000     |
| 1803-24-24 | 1 1/2     | 1-7/8-12 UN  | 1 1/2    | 5.16     | 1.93     | 2         |
| 1803-32-32 | 2         | 2 1/2-12 UN  | 2        | 6.54     | 2.48     | 2 3/4     |

# 1803-FG MJ-FLANGE 45 DEG CODE 62



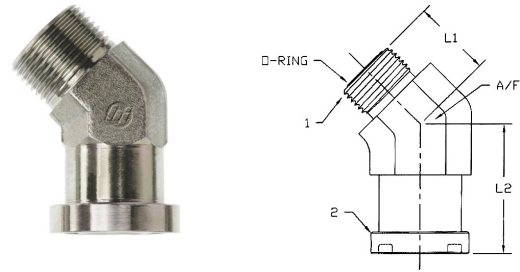
| PART NO.      | TUBE O.D. | 1 THREAD     | 2 FLANGE | L1 (in.) | L2 (in.) | A/F (in.) |
|---------------|-----------|--------------|----------|----------|----------|-----------|
| 1803-12-12-FG | 3/4       | 1-1/16-12 UN | 3/4      | 1.28     | 1.58     | 1 1/16    |
| 1803-16-16-FG | 1         | 1-5/16-12    | 1        | 1.470    | 1.850    | 1.312     |
| 1803-20-20-FG | 1-1/4     | 1-5/8-12     | 1-1/4    | 1.590    | 2.040    | 1.625     |
| 1803-20-24-FG | 1-1/4     | 1-5/8-12     | 1 1/2    | 4.65     | 1.81     | 1 11/16   |
| 1803-24-24-FG | 1 1/2     | 1-7/8-12 UN  | 1 1/2    | 1.780    | 2.380    | 1 7/8     |

## 1804 MJ-FLANGE 90 DEG CODE 62



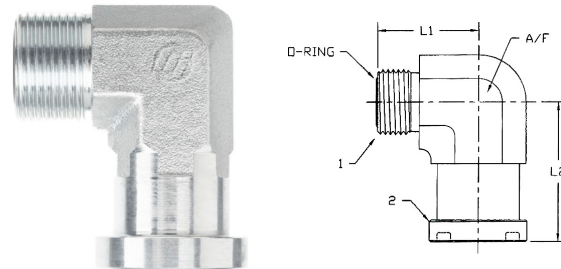
| PART NO.   | TUBE O.D. | 1 THREAD     | 2 FLANGE | L1 (in.) | L2 (in.) | A/F (in.) |
|------------|-----------|--------------|----------|----------|----------|-----------|
| 1804-08-08 | 1/2       | 3/4-16 UNF   | 1/2      | 2.32     | 1.85     | 7/8       |
| 1804-10-10 | 5/8       | 7/8-14       | 5/8      | 2.610    | 2.090    | 1         |
| 1804-12-12 | 3/4       | 1 1/16-12 UN | 3/4      | 2.83     | 2.28     | 1 1/8     |
| 1804-12-16 | 3/4       | 1 1/16-12 UN | 1        | 2.83     | 2.40     | 1 1/8     |
| 1804-12-20 | 3/4       | 1 1/16-12 UN | 1 1/4    | 2.83     | 2.76     | 1 1/8     |
| 1804-16-12 | 1         | 1 5/16-12 UN | 3/4      | 2.93     | 2.28     | 1 3/8     |
| 1804-16-16 | 1         | 1 5/16-12 UN | 1        | 3.39     | 2.87     | 1 3/8     |
| 1804-16-20 | 1         | 1 5/16-12 UN | 1 1/4    | 3.39     | 3.03     | 1 3/8     |
| 1804-16-24 | 1         | 1 5/16-12 UN | 1 1/2    | 3.39     | 3.23     | 1 3/8     |
| 1804-20-12 | 1 1/4     | 1 5/8-12 UN  | 3/4      | 3.22     | 2.60     | 2         |
| 1804-20-16 | 1 1/4     | 1 5/8-12 UN  | 1        | 3.54     | 2.87     | 1 11/16   |
| 1804-20-20 | 1 1/4     | 1 5/8-12 UN  | 1 1/4    | 3.98     | 3.46     | 1 11/16   |
| 1804-20-24 | 1 1/4     | 1 5/8-12 UN  | 1 1/2    | 3.98     | 3.66     | 1 11/16   |
| 1804-24-16 | 1 1/2     | 1 7/8-12 UN  | 1        | 3.94     | 2.87     | 2         |
| 1804-24-20 | 1 1/2     | 1 7/8-12 UN  | 1 1/4    | 4.33     | 3.46     | 2         |
| 1804-24-24 | 1 1/2     | 1 7/8-12 UN  | 1 1/2    | 4.57     | 4.02     | 2         |
| 1804-24-32 | 1 1/2     | 1 7/8-12     | 2        | 4.833    | 4.303    | 2.000     |
| 1804-32-32 | 2         | 2 1/2-12 UN  | 2        | 5.79     | 5.31     | 2 3/4     |

## FS1703-FG MJ-FLANGE 45 DEG CODE 61



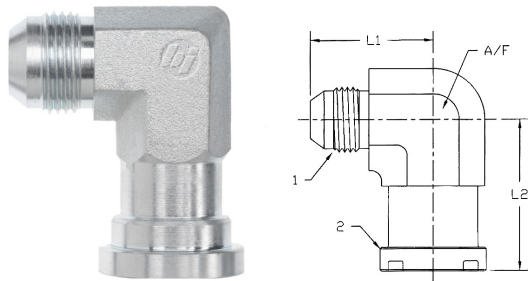
| PART NO.        | TUBE O.D. | 1 THREAD   | 2 FLANGE | L1 (in.) | L2 (in.) | A/F (in.) |
|-----------------|-----------|------------|----------|----------|----------|-----------|
| FS1703-12-12-FG | 3/4       | 1-3/16-12  | 3/4      | 1.280    | 1.580    | 1.062     |
| FS1703-12-16-FG | 3/4       | 1-3/16-12  | 1        | 1.470    | 1.850    | 1.311     |
| FS1703-16-16-FG | 1         | 1-7/16-12  | 1        | 1.470    | 1.850    | 1.311     |
| FS1703-20-20-FG | 1 1/4     | 1-11/16-12 | 1 1/4    | 1.590    | 2.040    | 1.625     |
| FS1703-24-24-FG | 1 1/2     | 2-12       | 1 1/2    | 1.780    | 2.380    | 1.875     |

## FS1704-FG MFS-FLANGE 90 DEG CODE 61



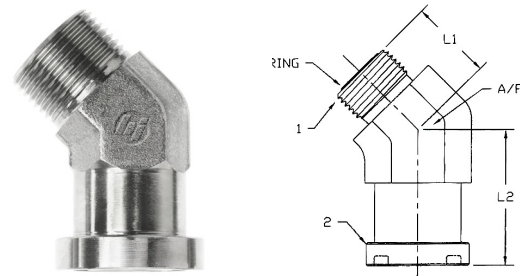
| PART NO.           | TUBE O.D. | 1 THREAD   | 2 FLANGE | L1 (in.) | L2 (in.) | A/F (in.) |
|--------------------|-----------|------------|----------|----------|----------|-----------|
| FS1704-12-12-FG    | 3/4       | 1-3/16-12  | 3/4      | 1.660    | 2.130    | 1.062     |
| FS1704-12-16-FG    | 3/4       | 1-3/16-12  | 1        | 1.810    | 2.370    | 1.438     |
| FS1704-16-12-FG    | 1         | 1-7/16-12  | 3/4      | 1.660    | 2.130    | 1.062     |
| FS1704-16-12-FG-BB | 1         | 1-7/16-12  | 3/4      | 1.660    | 2.130    | 1.438     |
| FS1704-16-16-FG    | 1         | 1-7/16-12  | 1        | 1.810    | 2.370    | 1.312     |
| FS1704-16-20-FG    | 1         | 1-7/16-12  | 1 1/4    | 2.060    | 2.620    | 1.625     |
| FS1704-20-16-FG    | 1 1/4     | 1-11/16-12 | 1        | 1.810    | 2.370    | 1.311     |
| FS1704-20-20-FG    | 1 1/4     | 1-11/16-12 | 1 1/4    | 2.060    | 2.620    | 1.625     |
| FS1704-20-24-FG    | 1 1/4     | 1-11/16-12 | 1 1/2    | 2.330    | 3.150    | 1.625     |
| FS1704-24-20-FG    | 1 1/2     | 2-12       | 1 1/4    | 2.060    | 2.620    | 1.625     |
| FS1704-24-24-FG    | 1 1/2     | 2-12       | 1 1/2    | 2.330    | 3.150    | 1.875     |

## 1804-FG MJ-FLANGE 90 DEG CODE 62



| PART NO.      | TUBE O.D. | 1 THREAD     | 2 FLANGE | L1 (in.) | L2 (in.) | A/F (in.) |
|---------------|-----------|--------------|----------|----------|----------|-----------|
| 1804-08-08-FG | 1/2       | 3/4-16       | 1/2      | 1.520    | 2.050    | 0.875     |
| 1804-08-12-FG | 1/2       | 3/4-16       | 3/4      | 1.660    | 2.130    | 1.062     |
| 1804-12-12-FG | 3/4       | 1 1/16-12    | 3/4      | 1.660    | 2.130    | 1.062     |
| 1804-12-16-FG | 3/4       | 1 1/16-12    | 1        | 2.060    | 2.430    | 1.312     |
| 1804-16-12-FG | 1         | 1 5/16-12    | 3/4      | 1.660    | 2.130    | 1.062     |
| 1804-16-16-FG | 1         | 1 5/16-12    | 1        | 1.810    | 2.370    | 1.312     |
| 1804-16-20-FG | 1         | 1 5/16-12 UN | 1 1/4    | 2.06     | 2.76     | 1 5/16    |
| 1804-20-16-FG | 1 1/4     | 1 5/8-12     | 1        | 1.810    | 2.370    | 1.625     |
| 1804-20-20-FG | 1 1/4     | 1 5/8-12     | 1 1/4    | 2.060    | 2.760    | 1.625     |
| 1804-20-24-FG | 1 1/4     | 1 5/8-12 UN  | 1 1/2    | 2.33     | 3.15     | 1 7/8     |
| 1804-24-20-FG | 1 1/2     | 1 7/8-12 UN  | 1 1/4    | 2.19     | 2.76     | 1 5/8     |
| 1804-24-24-FG | 1 1/2     | 1 7/8-12     | 1 1/2    | 2.330    | 3.150    | 1.875     |
| 1804-24-32-FG | 1 1/2     | 1 7/8-12     | 2        | 3.060    | 4.250    | 2.500     |
| 1804-32-24-FG | 2         | 2 1/2-12     | 1 1/2    | 3.060    | 4.250    | 2.625     |
| 1804-32-32-FG | 2         | 2 1/2-12     | 2        | 3.060    | 4.250    | 2.500     |

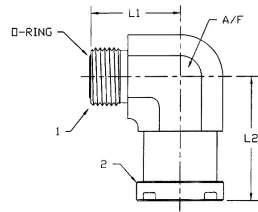
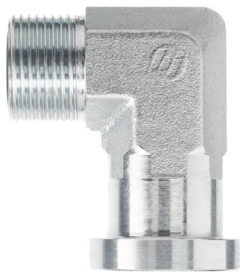
## FS1803-FG MJ-FLANGE 45 DEG CODE 62



| PART NO.        | TUBE O.D. | 1 THREAD   | 2 FLANGE | L1 (in.) | L2 (in.) | A/F (in.) |
|-----------------|-----------|------------|----------|----------|----------|-----------|
| FS1803-12-12-FG | 3/4       | 1-3/16-12  | 3/4      | 1.280    | 1.850    | 1.312     |
| FS1803-16-16-FG | 1         | 1-7/16-12  | 1        | 1.470    | 1.850    | 1.312     |
| FS1803-20-20-FG | 1 1/4     | 1-11/16-12 | 1 1/4    | 1.590    | 2.040    | 1.625     |
| FS1803-24-24-FG | 1 1/2     | 2-12       | 1 1/2    | 1.780    | 2.380    | 1.875     |

## FS1804-FG

MFS-FLANGE 90 DEG CODE 62

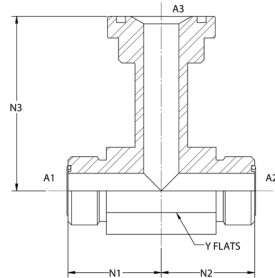
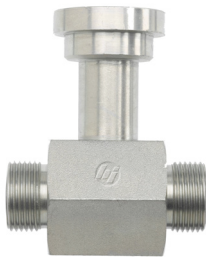


| PART NO.           | TUBE O.D. | 1 THREAD     | 2 FLANGE | L1 (in.) | L2 (in.) | A/F (in.) |
|--------------------|-----------|--------------|----------|----------|----------|-----------|
| FS1804-12-12-FG    | 3/4       | 1-3/16-12    | 3/4      | 1.660    | 2.130    | 1.062     |
| FS1804-12-16-FG    | 3/4       | 1-3/16-12    | 1        | 1.810    | 2.370    | 1.312     |
| FS1804-16-12-FG    | 1         | 1-7/16-12    | 3/4      | 1.660    | 2.130    | 1.062     |
| FS1804-16-12-FG-BB | 1         | 1-7/16-12    | 3/4      | 1.660    | 2.130    | 1.062     |
| FS1804-16-16-FG    | 1         | 1-7/16-12    | 1        | 1.810    | 2.370    | 1.312     |
| FS1804-16-20-FG    | 1         | 1-7/16-12 UN | 1 1/4    | 2.100    | 2.760    | 1.625     |
| FS1804-20-16-FG    | 1-1/4     | 1-11/16-12   | 1        | 1.810    | 2.370    | 1.312     |
| FS1804-20-20-FG    | 1-1/4     | 1-11/16-12   | 1-1/4    | 2.060    | 2.750    | 1.625     |
| FS1804-20-24-FG    | 1-1/4     | 1-11/16-12   | 1-1/2    | 2.330    | 3.150    | 1.875     |
| FS1804-24-20-FG    | 1-1/2     | 2-12         | 1-1/4    | 2.060    | 2.760    | 1.875     |
| FS1804-24-24-FG    | 1-1/2     | 2-12         | 1-1/2    | 2.330    | 3.150    | 1.875     |

## TEES

### FS1805

MFS-MFS-FLANGE CODE 62

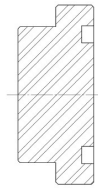
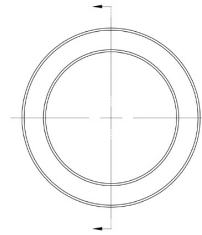


| PART NO.        | 1 THREAD  | 2 THREAD  | FLANGE | L1 LENGTH | L2 LENGTH | L3 LENGTH | A/F   |
|-----------------|-----------|-----------|--------|-----------|-----------|-----------|-------|
| FS1805-12-12-16 | 1-3/16-12 | 1-3/16-12 | 1      | 1.620     | 1.620     | 3.030     | 1.875 |

## PLUGS

### 1724

FLANGE PLUGS - CODE 61

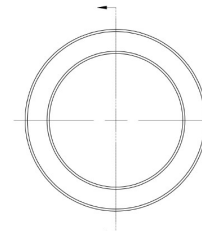


PART NO. Flange

|         |       |
|---------|-------|
| 1724-08 | 1/2   |
| 1724-12 | 3/4   |
| 1724-16 | 1     |
| 1724-20 | 1 1/4 |
| 1724-24 | 1 1/2 |
| 1724-32 | 2     |
| 1724-40 | 2.5   |
| 1724-48 | 3     |

### 1824

FLANGE PLUGS - CODE 62



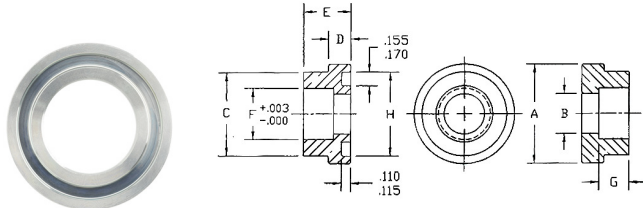
PART NO. Flange

|         |       |
|---------|-------|
| 1824-08 | 1/2   |
| 1824-12 | 3/4   |
| 1824-16 | 1     |
| 1824-20 | 1-1/4 |
| 1824-24 | 1-1/2 |
| 1824-32 | 2     |

# HEAD CONNECTORS

## 3300-61

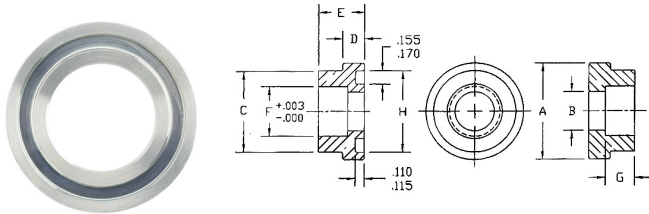
TUBE BRAZE FLANGE HEAD CONNECTOR - CODE 61 (O-RING FACE)



| PART NO.      | Tube Size | Flange Size | A     | B     | C     | D     | E    | F     | G     | H     |
|---------------|-----------|-------------|-------|-------|-------|-------|------|-------|-------|-------|
| 3300-61-08-08 | 1/2       | 1/2         | 1.188 | 0.406 | 1.00  | 0.265 | 0.50 | 0.502 | 0.312 | 1.000 |
| 3300-61-10-08 | 5/8       | 1/2         | 1.188 | 0.500 | 1.00  | 0.235 | 0.50 | 0.625 | 0.312 | 1.000 |
| 3300-61-12-12 | 3/4       | 3/4         | 1.500 | 0.656 | 1.25  | 0.265 | 0.56 | 0.752 | 0.375 | 1.250 |
| 3300-61-16-12 | 1         | 3/4         | 1.500 | 0.750 | 1.25  | 0.265 | 0.56 | 1.002 | 0.375 | 1.250 |
| 3300-61-16-16 | 1         | 1           | 1.750 | 0.906 | 1.50  | 0.315 | 0.56 | 1.002 | 0.375 | 1.560 |
| 3300-61-20-20 | 1-1/4     | 1-1/4       | 2.000 | 1.125 | 1.70  | 0.315 | 1.00 | 1.252 | 0.375 | 1.750 |
| 3300-61-24-20 | 1-1/2     | 1-1/4       | 2.000 | 1.250 | 1.70  | 0.315 | 0.56 | 1.502 | 0.375 | 1.750 |
| 3300-61-24-24 | 1-1/2     | 1-1/2       | 2.380 | 1.375 | 1.98  | 0.315 | 0.62 | 1.502 | 0.438 | 2.115 |
| 3300-61-28-24 | 1-3/4     | 1-1/2       | 2.380 | 1.500 | 1.98  | 0.315 | 0.62 | 1.752 | 0.438 | 2.115 |
| 3300-61-32-32 | 2         | 2           | 2.810 | 1.875 | 2.45  | 0.315 | 0.62 | 2.002 | 0.500 | 2.490 |
| 3300-61-36-32 | 2-1/4     | 2           | 2.810 | 2.000 | 2.45  | 0.375 | 0.62 | 2.252 | 0.500 | 2.490 |
| 3300-61-40-40 | 2-1/2     | 2-1/2       | 3.312 | 2.375 | 2.92  | 0.375 | 0.68 | 2.502 | 0.500 | 2.995 |
| 3300-61-44-40 | 2-3/4     | 2-1/2       | 3.312 | 2.500 | 2.92  | 0.375 | 0.68 | 2.752 | 0.500 | 2.995 |
| 3300-61-48-48 | 3         | 3           | 4.000 | 2.875 | 3.565 | 0.375 | 0.75 | 3.002 | 0.562 | 3.615 |

## 3300-62

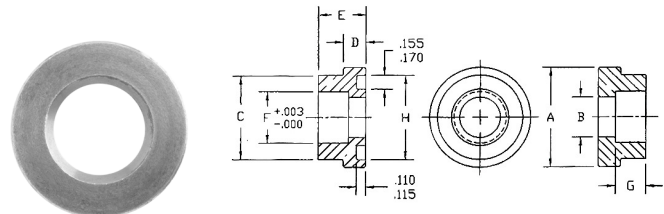
TUBE BRAZE FLANGE HEAD CONNECTOR - CODE 62 (O-RING FACE)



| PART NO.      | Tube Size | Flange Size | A     | B     | C     | D     | E    | F     | G     | H     |
|---------------|-----------|-------------|-------|-------|-------|-------|------|-------|-------|-------|
| 3300-62-12-12 | 3/4       | 3/4         | 1.625 | 0.656 | 1.250 | 0.345 | 0.69 | 0.752 | 0.500 | 1.250 |
| 3300-62-16-12 | 1         | 3/4         | 1.625 | 0.750 | 1.250 | 0.345 | 0.69 | 1.002 | 0.500 | 1.250 |
| 3300-62-16-16 | 1         | 1           | 1.875 | 0.810 | 1.500 | 0.375 | 0.81 | 1.002 | 0.625 | 1.560 |
| 3300-62-20-16 | 1-1/4     | 1           | 1.875 | 1.000 | 1.500 | 0.375 | 0.81 | 1.252 | 0.625 | 1.560 |
| 3300-62-20-20 | 1-1/4     | 1-1/4       | 2.125 | 1.010 | 1.718 | 0.405 | 1.00 | 1.252 | 0.812 | 1.750 |
| 3300-62-24-20 | 1-1/2     | 1-1/4       | 2.125 | 1.250 | 1.718 | 0.405 | 1.00 | 1.502 | 0.812 | 1.750 |
| 3300-62-24-24 | 1-1/2     | 1-1/2       | 2.500 | 1.250 | 2.000 | 0.495 | 1.19 | 1.502 | 1.000 | 2.115 |
| 3300-62-28-24 | 1-3/4     | 1-1/2       | 2.500 | 1.500 | 2.000 | 0.495 | 1.19 | 1.752 | 1.000 | 2.115 |
| 3300-62-32-32 | 2         | 2           | 3.125 | 1.750 | 2.620 | 0.495 | 1.50 | 2.002 | 1.375 | 2.490 |
| 3300-62-36-32 | 2-1/4     | 2           | 3.125 | 2.000 | 2.620 | 0.495 | 1.50 | 2.252 | 1.312 | 2.490 |

## 3301-61

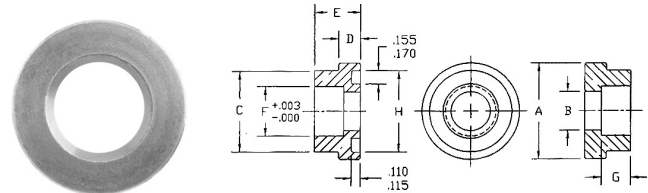
TUBE BRAZE FLANGE HEAD CONNECTOR - CODE 61 (FLAT FACE)



| PART NO.      | Tube Size | Flange Size | A     | B     | C     | D     | E    | F     | G     | H     |
|---------------|-----------|-------------|-------|-------|-------|-------|------|-------|-------|-------|
| 3301-61-08-08 | 1/2       | 1/2         | 1.188 | 0.406 | 1.00  | 0.265 | 0.50 | 0.502 | 0.312 | 1.000 |
| 3301-61-10-08 | 5/8       | 1/2         | 1.188 | 0.500 | 1.00  | 0.235 | 0.50 | 0.625 | 0.312 | 1.000 |
| 3301-61-12-12 | 3/4       | 3/4         | 1.500 | 0.656 | 1.25  | 0.265 | 0.56 | 0.752 | 0.375 | 1.250 |
| 3301-61-16-12 | 1         | 3/4         | 1.500 | 0.750 | 1.25  | 0.265 | 0.56 | 1.002 | 0.375 | 1.250 |
| 3301-61-16-16 | 1         | 1           | 1.750 | 0.906 | 1.500 | 0.315 | 0.56 | 1.002 | 0.375 | 1.560 |
| 3301-61-20-16 | 1-1/4     | 1           | 1.750 | 1.000 | 1.50  | 0.315 | 0.56 | 1.252 | 0.375 | 1.560 |
| 3301-61-24-20 | 1-1/2     | 1-1/4       | 2.000 | 1.250 | 1.70  | 0.315 | 0.56 | 1.502 | 0.375 | 1.750 |
| 3301-61-28-24 | 1-3/4     | 1-1/2       | 2.380 | 1.500 | 1.98  | 0.315 | 0.62 | 1.752 | 0.438 | 2.115 |
| 3301-61-32-32 | 2         | 2           | 2.810 | 1.875 | 2.45  | 0.315 | 0.62 | 2.002 | 0.500 | 2.490 |
| 3301-61-36-32 | 2-1/4     | 2           | 2.810 | 2.000 | 2.45  | 0.375 | 0.62 | 2.252 | 0.500 | 2.490 |
| 3301-61-40-40 | 2-1/2     | 2-1/2       | 3.312 | 2.375 | 2.92  | 0.375 | 0.68 | 2.502 | 0.500 | 2.995 |
| 3301-61-44-40 | 2-3/4     | 2-1/2       | 3.312 | 2.500 | 2.92  | 0.375 | 0.68 | 2.752 | 0.500 | 2.995 |
| 3301-61-48-48 | 3         | 3           | 4.000 | 2.875 | 3.565 | 0.375 | 0.75 | 3.002 | 0.562 | 3.615 |

## 3301-62

TUBE BRAZE FLANGE HEAD CONNECTOR - CODE 62 (FLAT FACE)

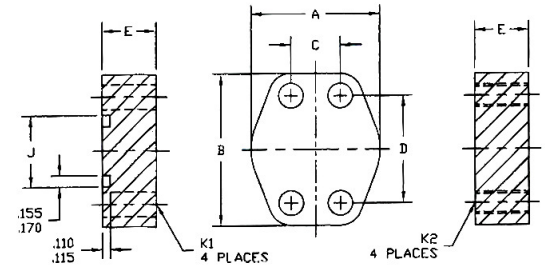


| PART NO.      | Tube Size | Flange Size | A     | B     | C     | D     | E    | F     | G     | H     |
|---------------|-----------|-------------|-------|-------|-------|-------|------|-------|-------|-------|
| 3301-62-12-12 | 3/4       | 3/4         | 1.625 | 0.656 | 1.250 | 0.345 | 0.69 | 0.752 | 0.500 | 1.250 |
| 3301-62-16-12 | 1         | 3/4         | 1.625 | 0.750 | 1.250 | 0.345 | 0.69 | 1.002 | 0.500 | 1.250 |
| 3301-62-16-16 | 1         | 1           | 1.875 | 0.810 | 1.500 | 0.375 | 0.81 | 1.002 | 0.625 | 1.560 |
| 3301-62-20-16 | 1-1/4     | 1           | 1.875 | 1.000 | 1.500 | 0.375 | 0.81 | 1.252 | 0.625 | 1.560 |
| 3301-62-20-20 | 1-1/4     | 1-1/4       | 2.125 | 1.010 | 1.718 | 0.405 | 1.00 | 1.252 | 0.812 | 1.750 |
| 3301-62-24-20 | 1-1/2     | 1-1/4       | 2.125 | 1.250 | 1.718 | 0.405 | 1.00 | 1.502 | 0.812 | 1.750 |
| 3301-62-24-24 | 1-1/2     | 1-1/2       | 2.500 | 1.250 | 2.000 | 0.495 | 1.19 | 1.502 | 1.000 | 2.115 |
| 3301-62-28-24 | 1-3/4     | 1-1/2       | 2.500 | 1.500 | 2.000 | 0.495 | 1.19 | 1.752 | 1.000 | 2.115 |
| 3301-62-32-32 | 2         | 2           | 3.125 | 1.750 | 2.000 | 0.495 | 1.50 | 2.002 | 1.375 | 2.490 |
| 3301-62-36-32 | 2-1/4     | 2           | 3.125 | 2.000 | 2.000 | 0.495 | 1.50 | 2.252 | 1.312 | 2.490 |

# PLUG BLOCKS & PLATES

## 1942-61

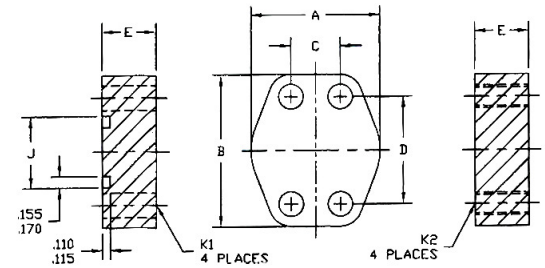
PLUG BLOCK - CODE 61 (O-RING FACE)



| PART NO.   | Flange Size | A     | B     | C     | D     | E     | J Min | J Max | K1 Drill | K2 Thread |
|------------|-------------|-------|-------|-------|-------|-------|-------|-------|----------|-----------|
| 1942-61-08 | 1/2         | 1.813 | 2.125 | 0.688 | 1.500 | 0.750 | 1.000 | 1.005 | 0.344    | 5/16-18   |
| 1942-61-12 | 3/4         | 2.063 | 2.563 | 0.875 | 1.875 | 0.750 | 1.250 | 1.255 | 0.406    | 3/8-16    |
| 1942-61-16 | 1           | 2.313 | 2.750 | 1.031 | 2.063 | 0.880 | 1.560 | 1.565 | 0.406    | 3/8-16    |
| 1942-61-20 | 1-1/4       | 2.875 | 3.125 | 1.188 | 2.313 | 0.940 | 1.750 | 1.755 | 0.469    | 7/16-14   |
| 1942-61-24 | 1-1/2       | 3.250 | 3.688 | 1.406 | 2.750 | 1.190 | 2.115 | 2.125 | 0.531    | 1/2-13    |
| 1942-61-32 | 2           | 3.813 | 4.000 | 1.688 | 3.063 | 1.440 | 2.490 | 2.500 | 0.531    | 1/2-13    |
| 1942-61-40 | 2-1/2       | 4.281 | 4.500 | 2.000 | 3.500 | 1.820 | 2.995 | 3.005 | 0.531    | 1/2-13    |
| 1942-61-48 | 3           | 5.156 | 5.313 | 2.438 | 4.188 | 2.190 | 3.615 | 3.625 | 0.656    | 5/8-11    |

## 1942-62

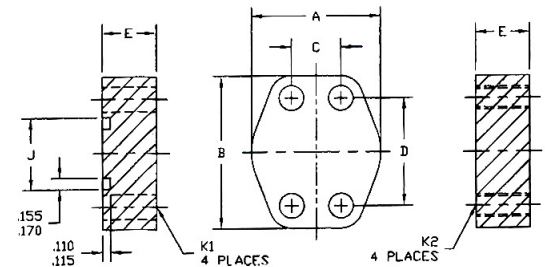
PLUG BLOCK - CODE 62 (O-RING FACE)



| PART NO.   | Flange Size | A     | B     | C     | D     | E     | J Min | J Max | K1 Drill | K2 Thread |
|------------|-------------|-------|-------|-------|-------|-------|-------|-------|----------|-----------|
| 1942-62-12 | 3/4         | 2.500 | 2.950 | 0.937 | 2.000 | 1.250 | 1.245 | 1.255 | 0.406    | 3/8-16    |
| 1942-62-16 | 1           | 2.750 | 3.190 | 1.093 | 2.250 | 1.500 | 1.560 | 1.565 | 0.469    | 7/16-14   |
| 1942-62-20 | 1-1/4       | 3.060 | 3.750 | 1.250 | 2.625 | 1.500 | 1.750 | 1.755 | 0.531    | 1/2-13    |
| 1942-62-24 | 1-1/2       | 3.750 | 4.440 | 1.437 | 3.125 | 1.820 | 2.115 | 2.125 | 0.656    | 5/8-11    |
| 1942-62-32 | 2           | 4.500 | 5.250 | 1.750 | 3.812 | 1.750 | 2.490 | 2.500 | 0.781    | 3/4-10    |

## 1943-61

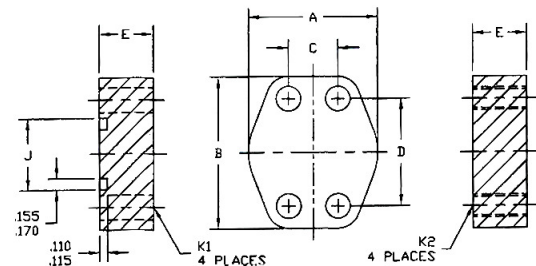
PLUG BLOCK - CODE 61 (FLAT FACE)



| PART NO.   | Flange Size | A     | B     | C     | D     | E     | J Min | J Max | K1 Drill | K2 Thread |
|------------|-------------|-------|-------|-------|-------|-------|-------|-------|----------|-----------|
| 1943-61-12 | 3/4         | 2.063 | 2.563 | 0.875 | 1.875 | 0.750 | 1.250 | 1.255 | 0.406    | 3/8-16    |
| 1943-61-16 | 1           | 2.313 | 2.750 | 1.031 | 2.063 | 0.880 | 1.560 | 1.565 | 0.406    | 3/8-16    |
| 1943-61-20 | 1-1/4       | 2.875 | 3.125 | 1.188 | 2.313 | 0.940 | 1.750 | 1.755 | 0.469    | 7/16-14   |
| 1943-61-24 | 1-1/2       | 3.250 | 3.688 | 1.406 | 2.750 | 1.190 | 2.115 | 2.125 | 0.531    | 1/2-13    |
| 1943-61-32 | 2           | 3.813 | 4.000 | 1.688 | 3.063 | 1.440 | 2.490 | 2.500 | 0.531    | 1/2-13    |
| 1943-61-40 | 2-1/2       | 4.281 | 4.500 | 2.000 | 3.500 | 1.820 | 2.995 | 3.005 | 0.531    | 1/2-13    |
| 1943-61-48 | 3           | 5.156 | 5.313 | 2.438 | 4.188 | 2.190 | 3.615 | 3.625 | 0.656    | 5/8-11    |

# 1943-62

PLUG BLOCK - CODE 62 (FLAT FACE)

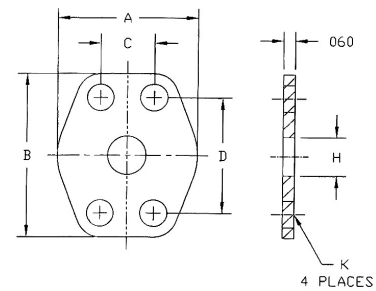


PART NO. Flange Size A B C D E J Min J Max K1 Drill K2 Thread

|            |       |       |       |       |       |       |       |       |       |         |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| 1943-62-12 | 3/4   | 2.380 | 2.810 | 0.937 | 2.000 | 1.250 | 1.250 | 1.255 | 0.406 | 3/8-16  |
| 1943-62-16 | 1     | 2.750 | 3.190 | 1.093 | 2.250 | 1.500 | 1.560 | 1.565 | 0.469 | 7/16-14 |
| 1943-62-20 | 1-1/4 | 3.060 | 3.750 | 1.250 | 2.625 | 1.430 | 1.750 | 1.755 | 0.531 | 1/2-13  |
| 1943-62-32 | 2     | 4.500 | 5.250 | 1.750 | 3.812 | 1.750 | 2.490 | 2.500 | 0.781 | 3/4-10  |

# 1914-61

CONNECTOR PLATE - CODE 61

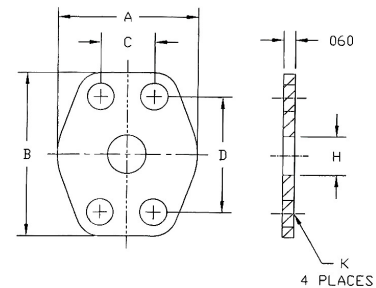


PART NO. FLANGE SIZE A B C D H K DRILL

|            |       |       |       |       |       |       |       |
|------------|-------|-------|-------|-------|-------|-------|-------|
| 1914-61-08 | 1/2   | 1.810 | 2.12  | 0.688 | 1.500 | 0.500 | 0.344 |
| 1914-61-12 | 3/4   | 2.060 | 2.560 | 0.875 | 1.875 | 0.750 | 0.406 |
| 1914-61-16 | 1     | 2.310 | 2.750 | 1.031 | 2.062 | 1.000 | 0.406 |
| 1914-61-20 | 1 1/4 | 2.880 | 3.120 | 1.188 | 2.312 | 1.250 | 0.469 |
| 1914-61-24 | 1 1/2 | 3.250 | 3.690 | 1.406 | 2.750 | 1.500 | 0.531 |
| 1914-61-32 | 2     | 3.810 | 4.000 | 1.688 | 3.062 | 2.000 | 0.531 |
| 1914-61-40 | 2 1/2 | 4.120 | 4.440 | 2.000 | 3.500 | 2.500 | 0.531 |
| 1914-61-48 | 3     | 5.160 | 5.310 | 2.438 | 4.188 | 3.000 | 0.656 |

# 1914-62

CONNECTOR PLATE - CODE 62

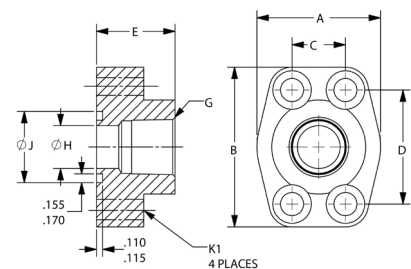
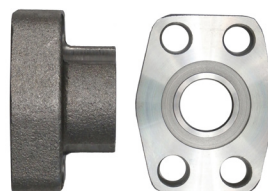


PART NO. FLANGE SIZE A B C D H K DRILL

|            |       |       |       |       |       |       |       |
|------------|-------|-------|-------|-------|-------|-------|-------|
| 1914-62-12 | 3/4   | 2.380 | 2.810 | 0.937 | 2.000 | 0.750 | 0.406 |
| 1914-62-16 | 1     | 2.750 | 3.190 | 1.093 | 2.250 | 1.000 | 0.469 |
| 1914-62-20 | 1 1/4 | 3.060 | 3.750 | 1.250 | 2.625 | 1.250 | 0.531 |
| 1914-62-24 | 1 1/2 | 3.750 | 4.440 | 1.437 | 3.125 | 1.500 | 0.656 |
| 1914-62-32 | 2     | 4.500 | 5.250 | 1.750 | 3.812 | 2.000 | 0.781 |

# 1927-61

NPTF PORT BLOCK - CODE 61 (O-RING FACE)



PART NO. PIPE SIZE FLANGE SIZE A B C D E G NPTF H J MIN J MAX K1 DRILL

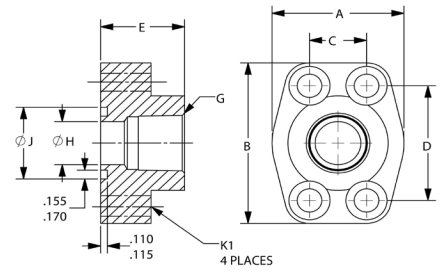
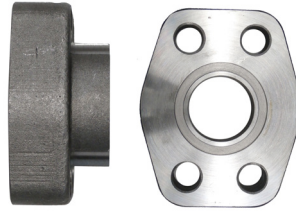
|               |     |     |      |      |       |       |      |         |      |       |       |       |
|---------------|-----|-----|------|------|-------|-------|------|---------|------|-------|-------|-------|
| 1927-61-08-08 | 1/2 | 1/2 | 1.82 | 2.17 | 0.688 | 1.500 | 1.25 | 1/2-14  | 0.50 | 1.000 | 1.005 | 0.344 |
| 1927-61-12-12 | 3/4 | 3/4 | 2.06 | 2.69 | 0.875 | 1.875 | 1.25 | 3/4-14  | 0.75 | 1.250 | 1.255 | 0.406 |
| 1927-61-16-16 | 1   | 1   | 2.31 | 2.88 | 1.031 | 2.062 | 1.50 | 1-1 1/2 | 1.00 | 1.560 | 1.565 | 0.406 |

Continued...

| PART NO.      | PIPE SIZE | FLANGE SIZE | A    | B    | C     | D     | E    | GNPTF        | H    | JMIN  | JMAX  | K1DRILL |
|---------------|-----------|-------------|------|------|-------|-------|------|--------------|------|-------|-------|---------|
| 1927-61-20-20 | 1 1/4     | 1 1/4       | 2.88 | 3.25 | 1.188 | 2.312 | 1.50 | 1 1/4-11 1/2 | 1.25 | 1.750 | 1.755 | 0.469   |
| 1927-61-24-24 | 1 1/2     | 1 1/2       | 3.25 | 3.81 | 1.406 | 2.750 | 1.75 | 1 1/2-11 1/2 | 1.50 | 2.115 | 2.125 | 0.531   |
| 1927-61-32-32 | 2         | 2           | 3.81 | 4.13 | 1.688 | 3.062 | 1.75 | 2-11 1/2     | 2.00 | 2.490 | 2.500 | 0.531   |
| 1927-61-40-40 | 2 1/2     | 2 1/2       | 4.28 | 4.63 | 2.000 | 3.500 | 2.00 | 2 1/2-8      | 2.50 | 2.995 | 3.005 | 0.531   |
| 1927-61-48-48 | 3         | 3           | 5.16 | 5.44 | 2.438 | 4.188 | 2.25 | 3-8          | 3.00 | 3.615 | 3.625 | 0.656   |

## 1927-62

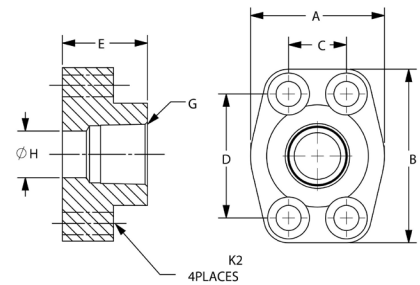
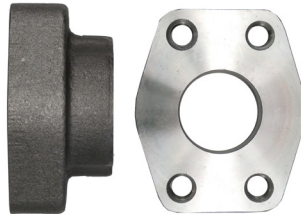
NPTF PORT BLOCK - CODE 62 (O-RING FACE)



| PART NO.      | PIPE SIZE | FLANGE SIZE | A    | B    | C     | D     | E    | GNPTF        | H    | JMIN  | JMAX  | K1DRILL |
|---------------|-----------|-------------|------|------|-------|-------|------|--------------|------|-------|-------|---------|
| 1927-62-08-08 | 1/2       | 1/2         | 1.94 | 2.30 | 0.718 | 1.594 | 1.25 | 1/2-14       | 0.50 | 1.000 | 1.005 | 0.344   |
| 1927-62-12-12 | 3/4       | 3/4         | 2.38 | 2.81 | 0.937 | 2.000 | 1.25 | 3/4-14       | 0.75 | 1.250 | 1.255 | 0.406   |
| 1927-62-16-16 | 1         | 1           | 2.75 | 3.19 | 1.093 | 2.250 | 1.50 | 1-11 1/2     | 1.00 | 1.560 | 1.565 | 0.469   |
| 1927-62-20-20 | 1 1/4     | 1 1/4       | 3.06 | 3.75 | 1.25  | 2.625 | 1.50 | 1 1/4-11 1/2 | 1.25 | 1.750 | 1.755 | 0.531   |
| 1927-62-24-24 | 1 1/2     | 1 1/2       | 3.75 | 4.44 | 1.437 | 3.125 | 1.75 | 1 1/2-11 1/2 | 1.50 | 2.115 | 2.125 | 0.656   |
| 1927-62-32-32 | 2         | 2           | 4.50 | 5.25 | 1.750 | 3.812 | 1.75 | 2-11 1/2     | 2.00 | 2.490 | 2.500 | 0.781   |

## 1928-61

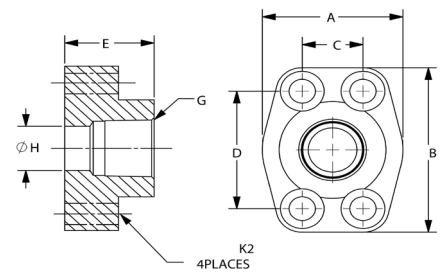
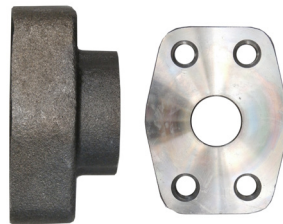
NPTF PORT BLOCK - CODE 61 (FLAT FACE)



| PART NO.      | PIPE SIZE | FLANGE SIZE | A    | B    | C     | D     | E    | GNPTF        | H    | K2 THD. |
|---------------|-----------|-------------|------|------|-------|-------|------|--------------|------|---------|
| 1928-61-08-08 | 1/2       | 1/2         | 1.82 | 2.17 | 0.688 | 1.500 | 1.25 | 1/2-14       | 0.50 | 5/16-18 |
| 1928-61-12-12 | 3/4       | 3/4         | 2.06 | 2.69 | 0.875 | 1.875 | 1.25 | 3/4-14       | 0.75 | 3/8-16  |
| 1928-61-16-16 | 1         | 1           | 2.31 | 2.88 | 1.031 | 2.062 | 1.50 | 1-11 1/2     | 1.00 | 3/8-16  |
| 1928-61-20-20 | 1 1/4     | 1 1/4       | 2.88 | 3.25 | 1.188 | 2.312 | 1.50 | 1 1/4-11 1/2 | 1.25 | 7/16-14 |
| 1928-61-24-24 | 1 1/2     | 1 1/2       | 3.25 | 3.81 | 1.406 | 2.750 | 1.75 | 1 1/2-11 1/2 | 1.50 | 1/2-13  |
| 1928-61-32-32 | 2         | 2           | 3.81 | 4.13 | 1.688 | 3.062 | 1.75 | 2-11 1/2     | 2.00 | 1/2-13  |
| 1928-61-40-40 | 2 1/2     | 2 1/2       | 4.28 | 4.63 | 2.000 | 3.500 | 2.00 | 2 1/2-8      | 2.50 | 1/2-13  |
| 1928-61-48-48 | 3         | 3           | 5.16 | 5.44 | 2.438 | 4.188 | 2.25 | 3-8          | 3.00 | 5/8-11  |

## 1928-62

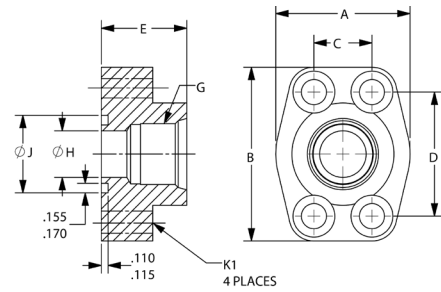
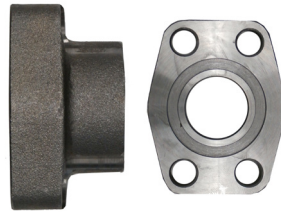
NPTF PORT BLOCK - CODE 62 (FLAT FACE)



| PART NO.      | PIPE SIZE | FLANGE SIZE | A    | B    | C     | D     | E    | GNPTF        | H    | K2 THD. |
|---------------|-----------|-------------|------|------|-------|-------|------|--------------|------|---------|
| 1928-62-08-08 | 1/2       | 1/2         | 1.94 | 2.30 | 0.718 | 1.594 | 1.25 | 1/2-14       | 0.50 | 5/16-18 |
| 1928-62-12-12 | 3/4       | 3/4         | 2.38 | 2.81 | 0.937 | 2.000 | 1.25 | 3/4-14       | 0.75 | 3/8-16  |
| 1928-62-16-16 | 1         | 1           | 2.75 | 3.19 | 1.093 | 2.250 | 1.50 | 1-11 1/2     | 1.00 | 7/16-14 |
| 1928-62-20-20 | 1 1/4     | 1 1/4       | 3.06 | 3.75 | 1.25  | 2.625 | 1.50 | 1 1/4-11 1/2 | 1.25 | 1/2-13  |
| 1928-62-24-24 | 1 1/2     | 1 1/2       | 3.75 | 4.44 | 1.437 | 3.125 | 1.75 | 1 1/2-11 1/2 | 1.50 | 5/8-11  |
| 1928-62-32-32 | 2         | 2           | 4.50 | 5.25 | 1.750 | 3.812 | 1.75 | 2-11 1/2     | 2.00 | 3/4-10  |

# 1929-61

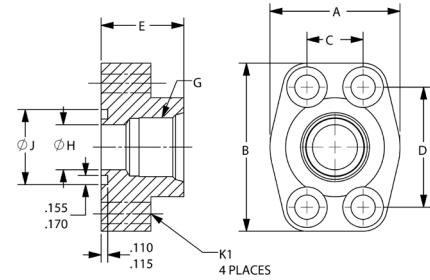
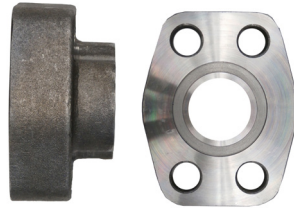
SAE PORT BLOCK - CODE 61 (O-RING FACE)



| PART NO.      | PIPE SIZE | FLANGE SIZE | A     | B    | C     | D     | E    | G THREAD | H    | J MIN | J MAX | K1 DRILL |
|---------------|-----------|-------------|-------|------|-------|-------|------|----------|------|-------|-------|----------|
| 1929-61-08-08 | 1/2       | 1/2         | 1.820 | 2.17 | 0.688 | 1.500 | 1.25 | 3/4-16   | 0.50 | 1.000 | 1.005 | 0.344    |
| 1929-61-12-12 | 3/4       | 3/4         | 2.060 | 2.69 | 0.875 | 1.875 | 1.25 | 11/16-12 | 0.75 | 1.250 | 1.255 | 0.406    |
| 1929-61-16-16 | 1         | 1           | 2.310 | 2.88 | 1.031 | 2.062 | 1.50 | 15/16-12 | 1.00 | 1.560 | 1.565 | 0.406    |
| 1929-61-20-20 | 1 1/4     | 1 1/4       | 2.880 | 3.25 | 1.188 | 2.312 | 1.50 | 15/8-12  | 1.25 | 1.750 | 1.755 | 0.469    |
| 1929-61-24-24 | 1 1/2     | 1 1/2       | 3.250 | 3.81 | 1.406 | 2.750 | 1.75 | 17/8-12  | 1.50 | 2.115 | 2.125 | 0.531    |
| 1930-61-24-24 | 1 1/2     | 1 1/2       | 3.250 | 3.81 | 1.406 | 2.750 | 1.75 | 17/8-12  | 1.50 | 2.115 | 2.125 | 0.531    |

# 1929-62

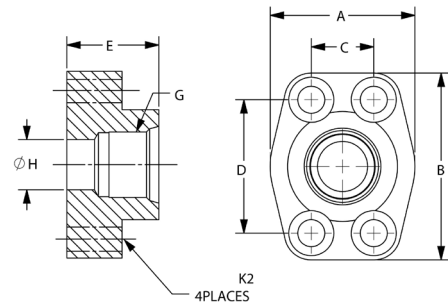
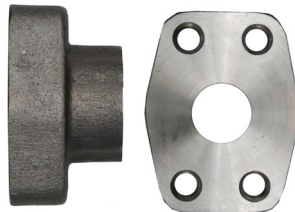
SAE PORT BLOCK - CODE 62 (O-RING FACE)



| PART NO.      | PIPE SIZE | FLANGE SIZE | A    | B    | C     | D     | E    | G THREAD | H    | J MIN | J MAX | K1 DRILL |
|---------------|-----------|-------------|------|------|-------|-------|------|----------|------|-------|-------|----------|
| 1929-62-08-08 | 1/2       | 1/2         | 1.94 | 2.30 | 0.718 | 1.594 | 1.25 | 3/4-16   | 0.50 | 1.000 | 1.005 | 0.344    |
| 1929-62-12-12 | 3/4       | 3/4         | 2.38 | 2.81 | 0.937 | 2.000 | 1.25 | 11/16-12 | 0.75 | 1.250 | 1.255 | 0.406    |
| 1929-62-16-16 | 1         | 1           | 2.75 | 3.19 | 1.093 | 2.250 | 1.50 | 15/16-12 | 1.00 | 1.560 | 1.565 | 0.469    |
| 1929-62-20-20 | 1 1/4     | 1 1/4       | 3.06 | 3.75 | 1.25  | 2.625 | 1.50 | 15/8-12  | 1.25 | 1.750 | 1.755 | 0.531    |
| 1929-62-24-24 | 1 1/2     | 1 1/2       | 3.75 | 4.44 | 1.437 | 3.125 | 1.75 | 17/8-12  | 1.50 | 2.115 | 2.125 | 0.656    |
| 1929-62-32-32 | 2         | 2           | 4.50 | 5.25 | 1.750 | 3.812 | 1.75 | 2 1/2-12 | 2.00 | 2.490 | 2.50  | 0.781    |

# 1930-61

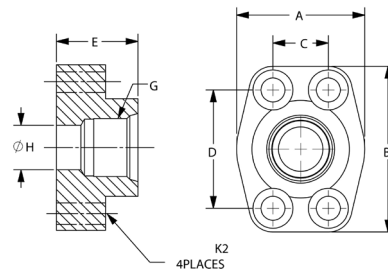
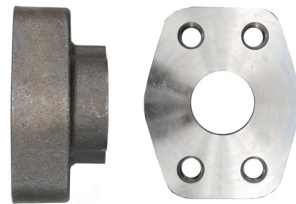
SAE PORT BLOCK - CODE 61 (FLAT FACE)



| PART NO.      | PIPE SIZE | FLANGE SIZE | A     | B    | C     | D     | E    | G THREAD | H    | K2 THD. |
|---------------|-----------|-------------|-------|------|-------|-------|------|----------|------|---------|
| 1930-61-08-08 | 1/2       | 1/2         | 1.820 | 2.17 | 0.688 | 1.500 | 1.25 | 3/4-16   | 0.50 | 5/16-18 |
| 1930-61-12-12 | 3/4       | 3/4         | 2.060 | 2.69 | 0.875 | 1.875 | 1.25 | 11/16-12 | 0.75 | 3/8-16  |
| 1930-61-16-16 | 1         | 1           | 2.310 | 2.88 | 1.031 | 2.062 | 1.50 | 15/16-12 | 1.00 | 3/8-16  |
| 1930-61-20-20 | 1 1/4     | 1 1/4       | 2.880 | 3.25 | 1.188 | 2.312 | 1.50 | 15/8-12  | 1.25 | 7/16-14 |

# 1930-62

SAE PORT BLOCK - CODE 62 (FLAT FACE)



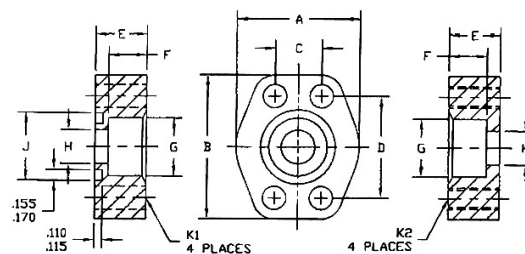
| PART NO.      | PIPE SIZE | FLANGE SIZE | A    | B    | C     | D     | E    | G THREAD | H    | K2 THD. |
|---------------|-----------|-------------|------|------|-------|-------|------|----------|------|---------|
| 1930-62-08-08 | 1/2       | 1/2         | 1.94 | 2.30 | 0.718 | 1.594 | 1.25 | 3/4-16   | 0.50 | 5/16-18 |
| 1930-62-12-12 | 3/4       | 3/4         | 2.38 | 2.81 | 0.937 | 2.000 | 1.25 | 11/16-12 | 0.75 | 3/8-16  |

Continued...

| PART NO.      | PIPE SIZE | FLANGE SIZE | A    | B    | C     | D     | E    | G        | THREAD | H       | K2 THD. |
|---------------|-----------|-------------|------|------|-------|-------|------|----------|--------|---------|---------|
| 1930-62-16-16 | 1         | 1           | 2.75 | 3.19 | 1.093 | 2.250 | 1.50 | 15/16-12 | 1.00   | 7/16-14 |         |
| 1930-62-20-20 | 1 1/4     | 1 1/4       | 3.06 | 3.75 | 1.25  | 2.625 | 1.50 | 15/8-12  | 1.25   | 1/2-13  |         |
| 1930-62-24-24 | 1 1/2     | 1 1/2       | 3.75 | 4.44 | 1.437 | 3.125 | 1.75 | 1 7/8-12 | 1.50   | 5/8-11  |         |
| 1930-62-32-32 | 2         | 2           | 4.50 | 5.25 | 1.750 | 3.812 | 1.75 | 2 1/2-12 | 2.00   | 3/4-10  |         |

## 1933

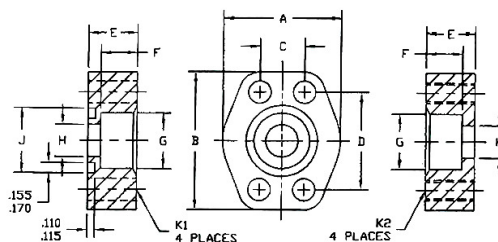
FLAT SOCKET BLOCK PIPE 500PSI (O-RING FACE)



| PART NO.   | Pipe Size | Flange Size | A    | B    | C     | D     | E    | F     | G     | H    | J Min | J Max | K1 Drill |
|------------|-----------|-------------|------|------|-------|-------|------|-------|-------|------|-------|-------|----------|
| 1933-48-48 | 3         | 3           | 5.12 | 5.31 | 2.438 | 4.188 | 1.38 | 1.120 | 3.547 | 3.00 | 3.615 | 3.625 | 0.656    |
| 1933-56-56 | 3-1/2     | 3-1/2       | 5.50 | 6.00 | 2.750 | 4.750 | 1.44 | 1.190 | 4.047 | 3.50 | 4.095 | 4.115 | 0.656    |
| 1933-64-64 | 4         | 4           | 6.00 | 6.38 | 3.062 | 5.125 | 1.50 | 1.250 | 4.578 | 4.00 | 4.595 | 4.615 | 0.656    |
| 1933-80-80 | 5         | 5           | 7.12 | 7.25 | 3.625 | 6.000 | 1.75 | 1.380 | 5.641 | 5.00 | 5.595 | 5.615 | 0.656    |

## 1934

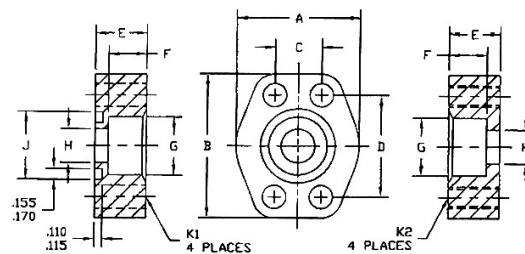
FLAT SOCKET BLOCK PIPE 500PSI (FLAT FACE)



| PART NO.   | Pipe Size | Flange Size | A    | B    | C     | D     | E    | F     | G     | H    | J Min | J Max | K2 Thread |
|------------|-----------|-------------|------|------|-------|-------|------|-------|-------|------|-------|-------|-----------|
| 1934-48-48 | 3         | 3           | 5.12 | 5.31 | 2.438 | 4.188 | 1.38 | 1.120 | 3.547 | 3.00 | 3.615 | 3.625 | 5/8-11    |
| 1934-56-56 | 3-1/2     | 3-1/2       | 5.50 | 6.00 | 2.750 | 4.750 | 1.44 | 1.190 | 4.047 | 3.50 | 4.095 | 4.115 | 5/8-11    |
| 1934-64-64 | 4         | 4           | 6.00 | 6.38 | 3.062 | 5.125 | 1.50 | 1.250 | 4.578 | 4.00 | 4.595 | 4.615 | 5/8-11    |
| 1934-80-80 | 5         | 5           | 7.12 | 7.25 | 3.625 | 6.000 | 1.75 | 1.380 | 5.641 | 5.00 | 5.595 | 5.615 | 5/8-11    |

## 1935-61

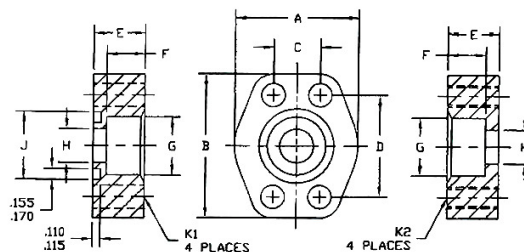
FLAT SOCKET BLOCK PIPE CODE 61 (O-RING FACE)



| PART NO.      | Pipe Size | Flange Size | A     | B     | C     | D     | E    | F     | G     | H    | J Min | J Max | K1 Drill | K2 Thread |
|---------------|-----------|-------------|-------|-------|-------|-------|------|-------|-------|------|-------|-------|----------|-----------|
| 1935-61-08-08 | 1/2       | 1/2         | 1.813 | 2.125 | 0.688 | 1.500 | 0.75 | 0.560 | 0.855 | 0.50 | 1.000 | 1.005 | 0.344    | 5/16-18   |
| 1935-61-12-12 | 3/4       | 3/4         | 2.063 | 2.563 | 0.875 | 1.875 | 0.75 | 0.560 | 1.062 | 0.75 | 1.250 | 1.255 | 0.406    | 3/8-18    |
| 1935-61-16-16 | 1         | 1           | 2.313 | 2.750 | 1.031 | 2.062 | 0.88 | 0.630 | 1.326 | 1.00 | 1.560 | 1.565 | 0.406    | 3/8-16    |
| 1935-61-20-20 | 1-1/4     | 1-1/4       | 2.875 | 3.125 | 1.188 | 2.312 | 0.94 | 0.690 | 1.672 | 1.25 | 1.750 | 1.755 | 0.469    | 7/16-14   |
| 1935-61-24-24 | 1-1/2     | 1-1/2       | 3.250 | 3.688 | 1.406 | 2.750 | 1.19 | 0.750 | 1.922 | 1.50 | 2.115 | 2.125 | 0.531    | 1/2-13    |
| 1935-61-32-32 | 2         | 2           | 3.813 | 4.000 | 1.688 | 3.062 | 1.38 | 0.875 | 2.406 | 2.00 | 2.490 | 2.500 | 0.531    | 1/2-13    |
| 1935-61-40-40 | 2-1/2     | 2-1/2       | 4.281 | 4.500 | 2.000 | 3.500 | 1.75 | 1.000 | 2.906 | 2.50 | 2.995 | 3.005 | 0.531    | 1/2-13    |
| 1935-61-48-48 | 3         | 3           | 5.156 | 5.313 | 2.438 | 4.188 | 2.12 | 1.250 | 3.547 | 3.00 | 3.615 | 3.625 | 0.656    | 5/8-11    |

# 1935-62

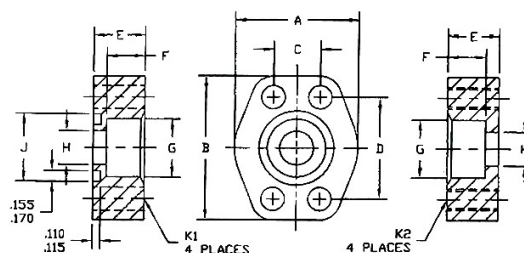
FLAT SOCKET BLOCK PIPE CODE 62 (O-RING FACE)



| PART NO.      | Pipe Size | Flange Size | A    | B    | C     | D     | E    | F     | G     | H    | J Min | J Max | K1 Drill | K2 Thread |
|---------------|-----------|-------------|------|------|-------|-------|------|-------|-------|------|-------|-------|----------|-----------|
| 1935-62-08-08 | 1/2       | 1/2         | 1.94 | 2.30 | 0.718 | 1.594 | 0.57 | 0.560 | 0.855 | 0.50 | 1.000 | 1.005 | 0.344    | 5/16-18   |
| 1935-62-12-12 | 3/4       | 3/4         | 2.38 | 2.81 | 0.937 | 2.000 | 1.25 | 0.560 | 1.063 | 0.75 | 1.250 | 1.255 | 0.406    | 3/8-16    |
| 1935-62-16-16 | 1         | 1           | 2.75 | 3.19 | 1.093 | 2.250 | 1.50 | 0.630 | 1.328 | 1.00 | 1.560 | 1.565 | 0.469    | 7/16-14   |
| 1935-62-20-20 | 1-1/4     | 1-1/4       | 3.06 | 3.75 | 1.250 | 2.625 | 1.50 | 0.690 | 1.672 | 1.25 | 1.750 | 1.755 | 0.531    | 1/2-13    |
| 1935-62-24-24 | 1-1/2     | 1-1/2       | 3.75 | 4.44 | 1.437 | 3.125 | 1.75 | 0.750 | 1.922 | 1.50 | 2.115 | 2.125 | 0.656    | 5/8-11    |
| 1935-62-32-32 | 2         | 2           | 4.50 | 5.25 | 1.750 | 3.812 | 1.75 | 0.875 | 2.406 | 2.00 | 2.490 | 2.500 | 0.781    | 3/4-10    |
| 1935-62-40-40 | 2-1/2     | 2-1/2       | 5.87 | 6.87 | 2.312 | 4.875 | 2.06 | 1.000 | 2.906 | 2.50 | 2.995 | 3.005 | 0.906    | 7/8-9     |
| 1935-62-48-48 | 3         | 3           | 7.00 | 8.50 | 2.812 | 6.000 | 2.62 | 1.250 | 3.547 | 3.00 | 3.615 | 3.625 | 1.156    | 1 1/8-7   |

# 1936-61

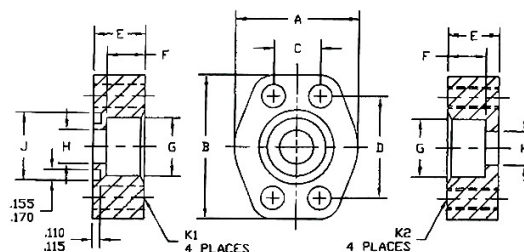
FLAT SOCKET BLOCK PIPE CODE 61 (FLAT FACE)



| PART NO.      | Pipe Size | Flange Size | A     | B     | C     | D     | E    | F     | G     | H    | J Min | J Max | K1 Drill | K2 Thread |
|---------------|-----------|-------------|-------|-------|-------|-------|------|-------|-------|------|-------|-------|----------|-----------|
| 1936-61-08-08 | 1/2       | 1/2         | 1.813 | 2.125 | 0.688 | 1.500 | 0.75 | 0.560 | 0.855 | 0.50 | 1.000 | 1.005 | 0.344    | 5/16-18   |
| 1936-61-12-12 | 3/4       | 3/4         | 2.063 | 2.563 | 0.875 | 1.875 | 0.75 | 0.560 | 1.062 | 0.75 | 1.250 | 1.255 | 0.406    | 3/8-16    |
| 1936-61-16-16 | 1         | 1           | 2.313 | 2.750 | 1.031 | 2.062 | 0.88 | 0.630 | 1.326 | 1.00 | 1.560 | 1.565 | 0.406    | 3/8-16    |
| 1936-61-20-20 | 1-1/4     | 1-1/4       | 2.875 | 3.125 | 1.188 | 2.312 | 0.94 | 0.690 | 1.672 | 1.25 | 1.750 | 1.755 | 0.469    | 7/16-14   |
| 1936-61-24-24 | 1-1/2     | 1-1/2       | 3.250 | 3.688 | 1.406 | 2.750 | 1.19 | 0.750 | 1.922 | 1.50 | 2.115 | 2.125 | 0.531    | 1/2-13    |
| 1936-61-32-32 | 2         | 2           | 3.813 | 4.000 | 1.688 | 3.062 | 1.38 | 0.875 | 2.406 | 2.00 | 2.490 | 2.500 | 0.531    | 1/2-13    |
| 1936-61-40-40 | 2-1/2     | 2-1/2       | 4.281 | 4.500 | 2.000 | 3.500 | 1.75 | 1.000 | 2.906 | 2.50 | 2.995 | 3.005 | 0.531    | 1/2-13    |
| 1936-61-48-48 | 3         | 3           | 5.156 | 5.313 | 2.438 | 4.188 | 2.12 | 1.250 | 3.547 | 3.00 | 3.615 | 3.625 | 0.656    | 5/8-11    |

# 1936-62

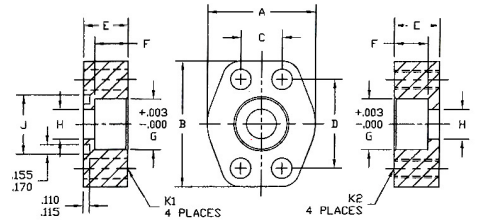
FLAT SOCKET BLOCK PIPE CODE 62 (FLAT FACE)



| PART NO.      | Pipe Size | Flange Size | A    | B    | C     | D     | E    | F     | G     | H    | J Min | J Max | K1 Drill | K2 Thread |
|---------------|-----------|-------------|------|------|-------|-------|------|-------|-------|------|-------|-------|----------|-----------|
| 1936-62-08-08 | 1/2       | 1/2         | 1.94 | 2.30 | 0.718 | 1.594 | 0.57 | 0.560 | 0.855 | 0.50 | 1.000 | 1.005 | 0.344    | 5/16-18   |
| 1936-62-12-12 | 3/4       | 3/4         | 2.38 | 2.81 | 0.937 | 2.000 | 1.25 | 0.560 | 1.063 | 0.75 | 1.250 | 1.255 | 0.406    | 3/8-16    |
| 1936-62-16-16 | 1         | 1           | 2.75 | 3.19 | 1.093 | 2.250 | 1.50 | 0.630 | 1.328 | 1.00 | 1.560 | 1.565 | 0.469    | 7/16-14   |
| 1936-62-20-20 | 1-1/4     | 1-1/4       | 3.06 | 3.75 | 1.250 | 2.625 | 1.50 | 0.690 | 1.672 | 1.25 | 1.750 | 1.755 | 0.531    | 1/2-13    |
| 1936-62-24-24 | 1-1/2     | 1-1/2       | 3.75 | 4.44 | 1.437 | 3.125 | 1.75 | 0.750 | 1.922 | 1.50 | 2.115 | 2.125 | 0.656    | 5/8-11    |
| 1936-62-32-32 | 2         | 2           | 4.50 | 5.25 | 1.750 | 3.812 | 1.75 | 0.875 | 2.406 | 2.00 | 2.490 | 2.500 | 0.781    | 3/4-10    |
| 1936-62-40-40 | 2-1/2     | 2-1/2       | 5.87 | 6.87 | 2.312 | 4.875 | 2.06 | 1.000 | 2.906 | 2.50 | 2.995 | 3.005 | 0.906    | 7/8-9     |
| 1936-62-48-48 | 3         | 3           | 7.00 | 8.50 | 2.812 | 6.000 | 2.62 | 1.250 | 3.547 | 3.00 | 3.615 | 3.625 | 1.156    | 1 1/8-7   |

# 1937-61

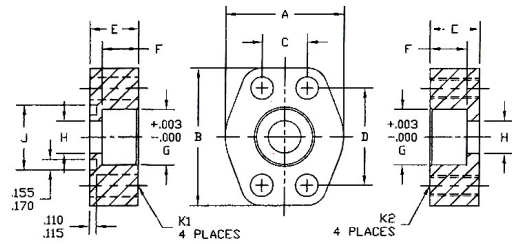
FLAT SOCKET BLOCK TUBE CODE 61 (O-RING FACE)



| PART NO.      | Pipe Size | Flange Size | A    | B    | C     | D     | E     | F     | G     | H    | J Min | J Max | K1 Drill | K2 Thread |
|---------------|-----------|-------------|------|------|-------|-------|-------|-------|-------|------|-------|-------|----------|-----------|
| 1937-61-12-12 | 3/4       | 3/4         | 2.06 | 2.56 | 0.875 | 1.875 | 0.750 | 0.560 | 0.52  | 0.63 | 1.250 | 1.255 | 0.406    | 3/8-16    |
| 1937-61-16-12 | 1         | 3/4         | 2.06 | 2.56 | 0.875 | 1.875 | 0.750 | 0.560 | 1.002 | 0.75 | 1.250 | 1.255 | 0.406    | 3/8-16    |
| 1937-61-16-16 | 1         | 1           | 2.31 | 2.75 | 1.031 | 2.062 | 0.880 | 0.630 | 1.002 | 0.88 | 1.560 | 1.565 | 0.406    | 3/8-16    |
| 1937-61-20-16 | 1-1/4     | 1           | 2.31 | 2.75 | 1.031 | 2.062 | 0.880 | 0.630 | 1.252 | 1.00 | 1.560 | 1.565 | 0.406    | 3/8-16    |
| 1937-61-20-20 | 1-1/4     | 1-1/4       | 2.88 | 3.12 | 1.188 | 2.312 | 0.940 | 0.690 | 1.252 | 1.13 | 1.750 | 1.755 | 0.469    | 7/16-14   |
| 1937-61-24-20 | 1-1/2     | 1-1/4       | 2.88 | 3.12 | 1.188 | 2.312 | 0.940 | 0.690 | 1.502 | 1.25 | 1.750 | 1.755 | 0.469    | 7/16-14   |
| 1937-61-24-24 | 1-1/2     | 1-1/2       | 3.25 | 3.69 | 1.406 | 2.750 | 1.190 | 0.750 | 1.502 | 1.38 | 2.115 | 2.125 | 0.531    | 1/2-13    |
| 1937-61-28-24 | 1-3/4     | 1-1/2       | 3.25 | 3.69 | 1.406 | 2.750 | 1.190 | 0.750 | 1.752 | 1.50 | 2.115 | 2.125 | 0.531    | 1/2-13    |
| 1937-61-32-32 | 2         | 2           | 3.81 | 4.00 | 1.688 | 3.062 | 1.375 | 0.875 | 2.002 | 1.88 | 2.490 | 2.500 | 0.531    | 1/2-13    |
| 1937-61-36-32 | 2-1/4     | 2           | 3.81 | 4.00 | 1.688 | 3.062 | 1.375 | 0.875 | 2.252 | 2.00 | 2.490 | 2.500 | 0.531    | 1/2-13    |

# 1937-62

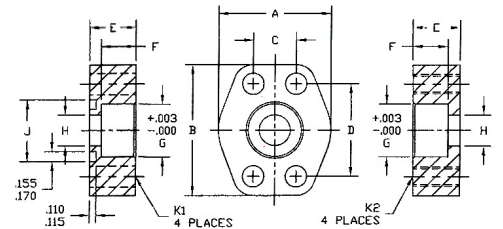
FLAT SOCKET BLOCK TUBE CODE 62 (O-RING FACE)



| PART NO.      | Pipe Size | Flange Size | A    | B    | C     | D     | E    | F     | G     | H    | J Min | J Max | K1 Drill | K2 Thread |
|---------------|-----------|-------------|------|------|-------|-------|------|-------|-------|------|-------|-------|----------|-----------|
| 1937-62-12-12 | 3/4       | 3/4         | 2.38 | 2.81 | 0.937 | 2.000 | 1.25 | 0.560 | 0.752 | 0.63 | 1.250 | 1.255 | 0.406    | 3/8-16    |
| 1937-62-16-12 | 1         | 3/4         | 2.38 | 2.81 | 0.937 | 2.000 | 1.25 | 0.560 | 1.002 | 0.75 | 1.250 | 1.255 | 0.406    | 3/8-16    |
| 1937-62-16-16 | 1         | 1           | 2.75 | 3.19 | 1.093 | 2.250 | 1.50 | 0.630 | 1.002 | 0.88 | 1.560 | 1.565 | 0.469    | 7/16-14   |
| 1937-62-20-16 | 1-1/4     | 1           | 2.75 | 3.19 | 1.093 | 2.250 | 1.50 | 0.630 | 1.252 | 1.00 | 1.560 | 1.565 | 0.469    | 7/16-14   |
| 1937-62-20-20 | 1-1/4     | 1-1/4       | 3.06 | 3.75 | 1.250 | 2.625 | 1.50 | 0.690 | 1.252 | 1.13 | 1.750 | 1.755 | 0.531    | 1/2-13    |
| 1937-62-24-20 | 1-1/2     | 1-1/4       | 3.06 | 3.75 | 1.250 | 2.625 | 1.50 | 0.690 | 1.502 | 1.25 | 1.750 | 1.755 | 0.531    | 1/2-13    |
| 1937-62-24-24 | 1-1/2     | 1-1/2       | 3.75 | 4.44 | 1.437 | 3.125 | 1.75 | 0.750 | 1.502 | 1.38 | 2.115 | 2.125 | 0.656    | 5/8-11    |
| 1937-62-28-24 | 1-3/4     | 1-1/2       | 3.75 | 4.44 | 1.437 | 3.125 | 1.75 | 0.750 | 1.752 | 1.50 | 2.115 | 2.125 | 0.656    | 5/8-11    |
| 1937-62-32-32 | 2         | 2           | 4.50 | 5.25 | 1.750 | 3.812 | 1.75 | 0.875 | 2.002 | 1.88 | 2.490 | 2.500 | 0.781    | 3/4-10    |
| 1937-62-36-32 | 2-1/4     | 2           | 4.50 | 5.25 | 1.750 | 3.812 | 1.75 | 0.875 | 2.252 | 2.00 | 2.490 | 2.500 | 0.781    | 3/4-10    |

# 1938-61

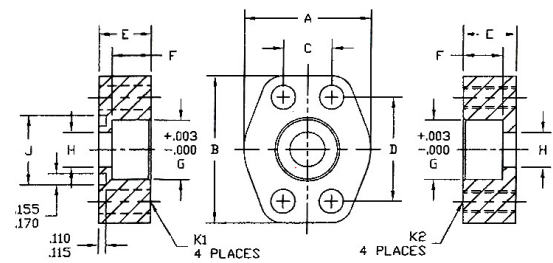
FLAT SOCKET BLOCK TUBE CODE 61 (FLAT FACE)



| PART NO.      | Pipe Size | Flange Size | A    | B    | C     | D     | E     | F     | G     | H    | J Min | J Max | K1 Drill | K2 Thread |
|---------------|-----------|-------------|------|------|-------|-------|-------|-------|-------|------|-------|-------|----------|-----------|
| 1938-61-12-12 | 3/4       | 3/4         | 2.06 | 2.56 | 0.875 | 1.875 | 0.750 | 0.560 | 0.752 | 0.63 | 1.250 | 1.255 | 0.406    | 3/8-16    |
| 1938-61-16-12 | 1         | 3/4         | 2.06 | 2.56 | 0.875 | 1.875 | 0.750 | 0.560 | 1.002 | 0.75 | 1.250 | 1.255 | 0.406    | 3/8-16    |
| 1938-61-16-16 | 1         | 1           | 2.31 | 2.75 | 1.031 | 2.062 | 0.880 | 0.630 | 1.002 | 0.88 | 1.560 | 1.565 | 0.406    | 3/8-16    |
| 1938-61-20-16 | 1-1/4     | 1           | 2.31 | 2.75 | 1.031 | 2.062 | 0.880 | 0.630 | 1.252 | 1.00 | 1.560 | 1.565 | 0.406    | 3/8-16    |
| 1938-61-20-20 | 1-1/4     | 1-1/4       | 2.88 | 3.12 | 1.188 | 2.312 | 0.940 | 0.690 | 1.252 | 1.13 | 1.750 | 1.755 | 0.469    | 7/16-14   |
| 1938-61-24-20 | 1-1/2     | 1-1/4       | 2.88 | 3.12 | 1.188 | 2.312 | 0.940 | 0.690 | 1.502 | 1.25 | 1.750 | 1.755 | 0.469    | 7/16-14   |
| 1938-61-24-24 | 1-1/2     | 1-1/2       | 3.25 | 3.69 | 1.406 | 2.750 | 1.190 | 0.750 | 1.502 | 1.38 | 2.115 | 2.125 | 0.531    | 1/2-13    |
| 1938-61-28-24 | 1-3/4     | 1-1/2       | 3.25 | 3.69 | 1.406 | 2.750 | 1.190 | 0.750 | 1.752 | 1.50 | 2.115 | 2.125 | 0.531    | 1/2-13    |
| 1938-61-32-32 | 2         | 2           | 3.81 | 4.00 | 1.688 | 3.062 | 1.375 | 0.875 | 2.002 | 1.88 | 2.490 | 2.500 | 0.531    | 1/2-13    |
| 1938-61-36-32 | 2-1/4     | 2           | 3.81 | 4.00 | 1.688 | 3.062 | 1.375 | 0.875 | 2.252 | 2.00 | 2.490 | 2.500 | 0.531    | 1/2-13    |

# 1938-62

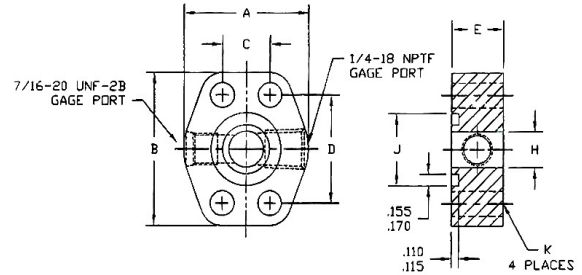
FLAT SOCKET BLOCK TUBE CODE 62 (FLAT FACE)



| PART NO.      | Pipe Size | Flange Size | A    | B    | C     | D     | E     | F     | G     | H    | J Min | J Max | K1 Drill | K2 Thread |
|---------------|-----------|-------------|------|------|-------|-------|-------|-------|-------|------|-------|-------|----------|-----------|
| 1938-62-12-12 | 3/4       | 3/4         | 2.38 | 2.81 | 0.937 | 2.000 | 1.250 | 0.560 | 0.752 | 0.63 | 1.250 | 1.255 | 0.406    | 3/8-16    |
| 1938-62-16-12 | 1         | 3/4         | 2.38 | 2.81 | 0.937 | 2.000 | 1.25  | 0.560 | 1.002 | 0.75 | 1.250 | 1.255 | 0.406    | 3/8-16    |
| 1938-62-16-16 | 1         | 1           | 2.75 | 3.19 | 1.093 | 2.250 | 1.50  | 0.630 | 1.002 | 0.88 | 1.560 | 1.565 | 0.469    | 7/16-14   |
| 1938-62-20-16 | 1-1/4     | 1           | 2.75 | 3.19 | 1.093 | 2.250 | 1.50  | 0.630 | 1.252 | 1.00 | 1.560 | 1.565 | 0.469    | 7/16-14   |
| 1938-62-20-20 | 1-1/4     | 1-1/4       | 3.06 | 3.75 | 1.250 | 2.625 | 1.50  | 0.690 | 1.252 | 1.13 | 1.750 | 1.755 | 0.531    | 1/2-13    |
| 1938-62-24-20 | 1-1/2     | 1-1/4       | 3.06 | 3.75 | 1.250 | 2.625 | 1.50  | 0.690 | 1.502 | 1.25 | 1.750 | 1.755 | 0.531    | 1/2-13    |
| 1938-62-24-24 | 1-1/2     | 1-1/2       | 3.75 | 4.44 | 1.437 | 3.125 | 1.75  | 0.750 | 1.502 | 1.38 | 2.115 | 2.125 | 0.656    | 5/8-11    |
| 1938-62-28-24 | 1-3/4     | 1-1/2       | 3.75 | 4.44 | 1.437 | 3.125 | 1.75  | 0.750 | 1.752 | 1.50 | 2.115 | 2.125 | 0.656    | 5/8-11    |
| 1938-62-32-32 | 2         | 2           | 4.50 | 5.25 | 1.750 | 3.812 | 1.75  | 0.875 | 2.002 | 1.88 | 2.490 | 2.500 | 0.781    | 3/4-10    |
| 1938-62-36-32 | 2-1/4     | 2           | 4.50 | 5.25 | 1.750 | 3.812 | 1.75  | 0.875 | 2.252 | 2.00 | 2.490 | 2.500 | 0.781    | 3/4-10    |

# 1940-61

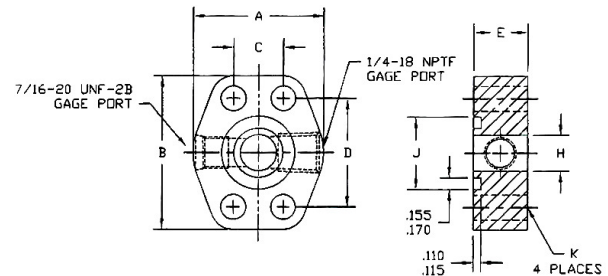
FLANGE SPACER WITH SIDE GAGE PORTS CODE 61



| PART NO.   | Flange Size | A     | B     | C     | D     | E     | H     | J     | K Drill |
|------------|-------------|-------|-------|-------|-------|-------|-------|-------|---------|
| 1940-61-08 | 1/2         | 1.813 | 2.125 | 0.688 | 1.500 | 1.250 | 0.500 | 1.000 | 0.344   |
| 1940-61-12 | 3/4         | 2.063 | 2.563 | 0.875 | 1.875 | 1.250 | 0.750 | 1.250 | 0.406   |
| 1940-61-16 | 1           | 2.313 | 2.750 | 1.031 | 2.063 | 0.875 | 1.000 | 1.560 | 0.406   |
| 1940-61-20 | 1-1/4       | 2.875 | 3.125 | 1.188 | 2.313 | 0.937 | 1.250 | 1.750 | 0.469   |
| 1940-61-24 | 1-1/2       | 3.250 | 3.688 | 1.406 | 2.750 | 1.188 | 1.500 | 2.115 | 0.531   |
| 1940-61-32 | 2           | 3.813 | 4.000 | 1.688 | 3.063 | 1.375 | 2.000 | 2.490 | 0.531   |
| 1940-61-40 | 2-1/2       | 4.281 | 4.500 | 2.000 | 3.500 | 1.750 | 2.500 | 2.995 | 0.531   |
| 1940-61-48 | 3           | 5.156 | 5.313 | 2.438 | 4.188 | 2.125 | 3.000 | 3.615 | 0.656   |

# 1940-62

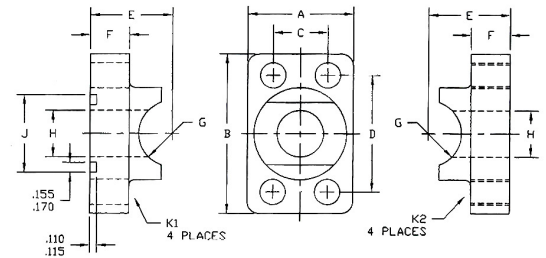
FLANGE SPACER WITH SIDE GAGE PORTS CODE 62



| PART NO.   | Flange Size | A     | B     | C     | D     | E     | H     | J     | K Drill |
|------------|-------------|-------|-------|-------|-------|-------|-------|-------|---------|
| 1940-62-08 | 1/2         | 1.940 | 2.300 | 0.718 | 1.594 | 0.870 | 0.500 | 1.000 | 0.344   |
| 1940-62-12 | 3/4         | 2.500 | 2.950 | 0.937 | 2.000 | 1.250 | 0.750 | 1.250 | 0.406   |
| 1940-62-16 | 1           | 2.750 | 3.190 | 1.093 | 2.250 | 1.500 | 1.000 | 1.560 | 0.492   |
| 1940-62-20 | 1-1/4       | 3.060 | 3.750 | 1.250 | 2.625 | 1.500 | 1.250 | 1.750 | 0.531   |
| 1940-62-24 | 1-1/2       | 3.750 | 4.440 | 1.437 | 3.125 | 1.750 | 1.500 | 2.115 | 0.656   |
| 1940-62-32 | 2           | 4.500 | 5.250 | 1.750 | 3.812 | 1.750 | 2.000 | 2.490 | 0.781   |
| 1940-62-40 | 2-1/2       | 5.870 | 6.870 | 2.312 | 4.875 | 2.060 | 2.500 | 2.995 | 0.906   |
| 1940-62-48 | 3           | 7.000 | 8.500 | 2.812 | 6.000 | 2.620 | 3.000 | 3.615 | 1.156   |

# 1959-P

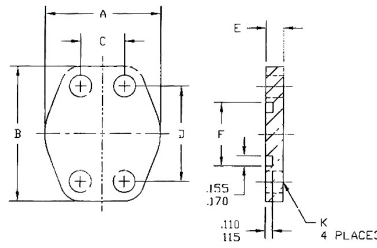
PIPE SADDLE WELD BLOCK CONNECTOR (O-RING FACE)



| PART NO.     | Pipe Size | Flange Size | A     | B     | C     | D     | E     | F     | G     | H     | J Min | J Max | K1 Drill |
|--------------|-----------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| 1959-P-12-12 | 3/4       | 3/4         | 1.690 | 2.560 | 0.875 | 1.875 | 1.310 | 0.630 | 0.532 | 0.750 | 1.250 | 1.255 | 0.406    |
| 1959-P-16-16 | 1         | 1           | 1.940 | 2.750 | 1.031 | 2.062 | 1.500 | 0.560 | 0.665 | 1.000 | 1.560 | 1.565 | 0.406    |
| 1959-P-20-20 | 1-1/4     | 1-1/4       | 2.190 | 3.120 | 1.188 | 2.312 | 1.810 | 0.630 | 0.837 | 1.250 | 1.750 | 1.755 | 0.469    |
| 1959-P-24-24 | 1-1/2     | 1-1/2       | 2.560 | 3.690 | 1.406 | 2.750 | 2.120 | 0.810 | 0.957 | 1.500 | 2.115 | 2.125 | 0.531    |
| 1959-P-32-32 | 2         | 2           | 3.060 | 4.000 | 1.688 | 3.062 | 2.620 | 1.060 | 1.200 | 2.000 | 2.490 | 2.500 | 0.531    |

# 1979-61

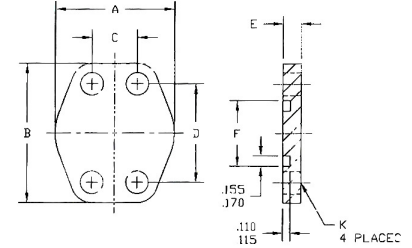
FLANGE SHIPPING PLATE - O-PSI CODE 61



| PART NO.   | Flange Size | A     | B     | C     | D     | E     | F     | K Drill |
|------------|-------------|-------|-------|-------|-------|-------|-------|---------|
| 1979-61-08 | 1/2         | 1.810 | 2.120 | 0.688 | 1.500 | 0.330 | 1.000 | 0.344   |
| 1979-61-12 | 3/4         | 2.060 | 2.560 | 0.875 | 1.875 | 0.330 | 1.250 | 0.413   |
| 1979-61-16 | 1           | 2.310 | 2.750 | 1.031 | 2.063 | 0.330 | 1.560 | 0.413   |
| 1979-61-20 | 1-1/4       | 2.882 | 3.120 | 1.188 | 2.312 | 0.330 | 1.750 | 0.469   |
| 1979-61-24 | 1-1/2       | 3.250 | 3.690 | 1.406 | 2.750 | 0.330 | 2.115 | 0.531   |
| 1979-61-32 | 2           | 3.810 | 4.000 | 1.688 | 3.062 | 0.330 | 2.490 | 0.531   |
| 1979-61-48 | 3           | 5.160 | 5.310 | 2.438 | 4.188 | 0.330 | 3.615 | 0.656   |

# 1979-62

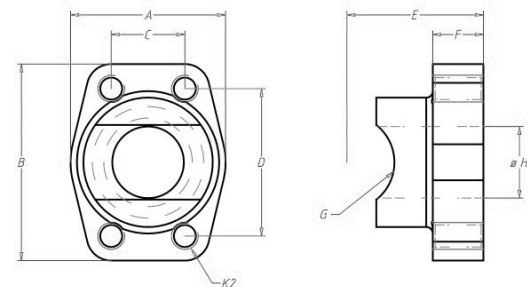
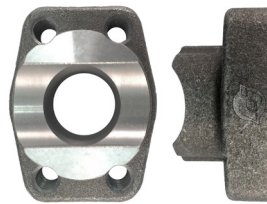
FLANGE SHIPPING PLATE - O-PSI CODE 62



| PART NO.   | Flange Size | A     | B     | C     | D     | E     | F     | K Drill |
|------------|-------------|-------|-------|-------|-------|-------|-------|---------|
| 1979-62-08 | 1/2         | 1.940 | 2.190 | 0.718 | 1.594 | 0.330 | 1.000 | 0.354   |
| 1979-62-12 | 3/4         | 2.500 | 2.810 | 0.937 | 2.000 | 0.330 | 1.250 | 0.433   |
| 1979-62-16 | 1           | 2.750 | 3.190 | 1.093 | 2.250 | 0.330 | 1.560 | 0.531   |
| 1979-62-20 | 1-1/4       | 3.060 | 3.750 | 1.250 | 2.625 | 0.330 | 1.750 | 0.531   |
| 1979-62-24 | 1-1/2       | 3.750 | 4.440 | 1.437 | 3.125 | 0.330 | 2.115 | 0.689   |
| 1979-62-32 | 2           | 4.500 | 5.250 | 1.750 | 3.812 | 0.330 | 2.490 | 0.866   |

# 1960-P

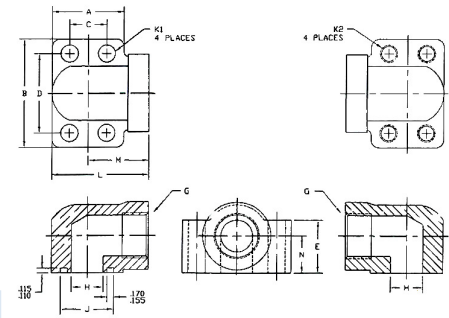
PIPE SADDLE WELD BLOCK CONNECTOR (FLAT FACE)



| PART NO.     | Pipe Size | Flange Size | A     | B     | C     | D     | E     | F     | G     | H     | J Min | J Max | K2 Thread |
|--------------|-----------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|
| 1960-P-12-12 | 3/4       | 3/4         | 1.690 | 2.560 | 0.875 | 1.875 | 1.310 | 0.630 | 0.532 | 0.750 | 1.250 | 1.255 | 3/8-16    |
| 1960-P-16-16 | 1         | 1           | 1.940 | 2.750 | 1.031 | 2.062 | 1.500 | 0.560 | 0.665 | 1.000 | 1.560 | 1.565 | 3/8-16    |
| 1960-P-20-20 | 1-1/4     | 1-1/4       | 2.190 | 3.120 | 1.188 | 2.312 | 1.810 | 0.630 | 0.837 | 1.250 | 1.750 | 1.755 | 7/16-14   |
| 1960-P-24-24 | 1-1/2     | 1-1/2       | 2.560 | 3.690 | 1.406 | 2.750 | 2.120 | 0.810 | 0.957 | 1.500 | 2.115 | 2.125 | 1/2-13    |
| 1960-P-32-32 | 2         | 2           | 3.060 | 4.000 | 1.688 | 3.062 | 2.620 | 1.060 | 1.200 | 2.000 | 2.490 | 2.500 | 1/2-13    |

# 1965-61

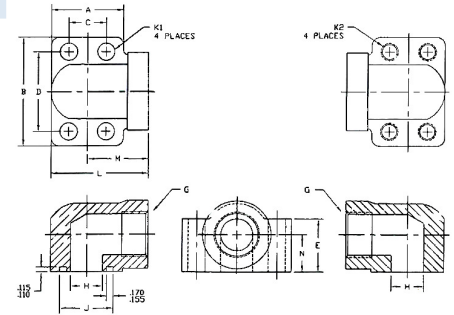
SAE PORT BLOCK 90 DEG ELBOW CODE 61 - O-RING FACE



| PART NO.      | Tube Size | Flange Size | A     | B     | C     | D     | E     | G Thread  | H     | J     | K1 Drill | L     | M     | N     |
|---------------|-----------|-------------|-------|-------|-------|-------|-------|-----------|-------|-------|----------|-------|-------|-------|
| 1965-61-12-12 | 3/4       | 3/4         | 1.690 | 2.560 | 0.875 | 1.875 | 1.250 | 1-1/16-12 | 0.750 | 1.250 | 0.406    | 2.280 | 1.440 | 0.875 |
| 1965-61-16-16 | 1         | 1           | 1.940 | 2.750 | 1.031 | 2.062 | 1.500 | 1-5/16-12 | 1.000 | 1.560 | 0.406    | 2.620 | 1.660 | 1.062 |
| 1965-61-20-20 | 1-1/4     | 1-1/4       | 2.190 | 3.120 | 1.188 | 2.312 | 1.810 | 1-5/8-12  | 1.250 | 1.750 | 0.469    | 3.000 | 1.910 | 1.188 |
| 1965-61-24-24 | 1-1/2     | 1-1/2       | 2.560 | 3.690 | 1.406 | 2.750 | 2.000 | 1-7/8-12  | 1.500 | 2.115 | 0.531    | 3.330 | 2.050 | 1.312 |
| 1965-61-32-32 | 2         | 2           | 3.060 | 4.330 | 1.688 | 3.062 | 2.500 | 2-1/2-12  | 2.000 | 2.490 | 0.531    | 3.810 | 2.280 | 1.656 |
| 1966-61-32-32 | 2         | 2           | 3.060 | 4.330 | 1.688 | 3.062 | 2.500 | 2-1/2-12  | 2.000 | 2.490 | 0.531    | 3.810 | 2.280 | 1.656 |

# 1965-62

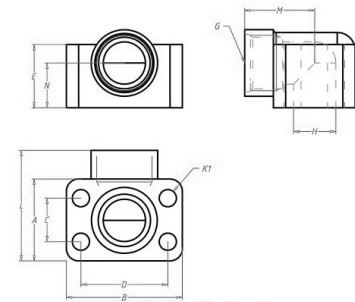
SAE PORT BLOCK 90 DEG ELBOW CODE 62 - O-RING FACE



| PART NO.      | Tube Size | Flange Size | A     | B     | C     | D     | E     | G Thread  | H     | J     | K1 Drill | L     | M     | N     |
|---------------|-----------|-------------|-------|-------|-------|-------|-------|-----------|-------|-------|----------|-------|-------|-------|
| 1965-62-12-12 | 3/4       | 3/4         | 1.940 | 2.750 | 0.937 | 2.000 | 1.500 | 1-1/16-12 | 0.750 | 1.250 | 0.406    | 2.620 | 1.660 | 1.062 |
| 1965-62-16-16 | 1         | 1           | 2.190 | 3.120 | 1.093 | 2.250 | 1.810 | 1-5/16-12 | 1.000 | 1.560 | 0.492    | 3.000 | 1.910 | 1.188 |
| 1965-62-20-20 | 1-1/4     | 1-1/4       | 2.560 | 3.690 | 1.250 | 2.625 | 2.000 | 1-5/8-12  | 1.250 | 1.750 | 0.531    | 3.320 | 2.050 | 1.312 |
| 1965-62-24-24 | 1-1/2     | 1-1/2       | 3.060 | 4.330 | 1.437 | 3.125 | 2.500 | 1-7/8-12  | 1.500 | 2.115 | 0.656    | 3.810 | 2.280 | 1.656 |

# 1966-61

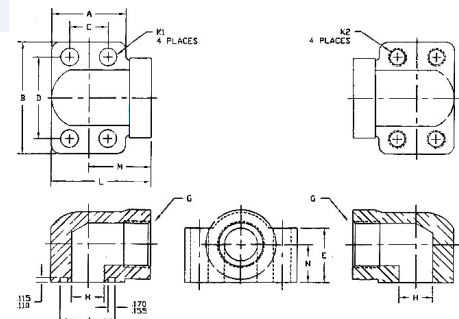
SAE PORT BLOCK 90 DEG ELBOW CODE 61 - FLAT FACE



| PART NO.      | Tube Size | Flange Size | A     | B     | C     | D     | E     | G Thread  | H     | J     | K1 Drill | L     | M     | N     |
|---------------|-----------|-------------|-------|-------|-------|-------|-------|-----------|-------|-------|----------|-------|-------|-------|
| 1966-61-12-12 | 3/4       | 3/4         | 1.690 | 2.560 | 0.875 | 1.875 | 1.250 | 1-1/16-12 | 0.750 | 1.250 | 0.406    | 2.280 | 1.440 | 0.875 |
| 1966-61-16-16 | 1         | 1           | 1.940 | 2.750 | 1.031 | 2.062 | 1.500 | 1-5/16-12 | 1.000 | 1.560 | 0.406    | 2.620 | 1.660 | 1.062 |
| 1966-61-20-20 | 1-1/4     | 1-1/4       | 2.190 | 3.120 | 1.188 | 2.312 | 1.810 | 1-5/8-12  | 1.250 | 1.750 | 0.469    | 3.000 | 1.910 | 1.188 |
| 1966-61-24-24 | 1-1/2     | 1-1/2       | 2.560 | 3.690 | 1.406 | 2.750 | 2.000 | 1-7/8-12  | 1.500 | 2.115 | 0.531    | 3.330 | 2.050 | 1.312 |

# 1967-61

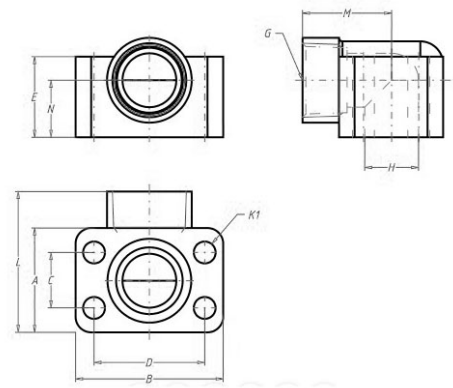
NPTF PORT BLOCK 90 DEG ELBOW CODE 61 - O-RING FACE



| PART NO.      | Pipe Size | Flange Size | A     | B     | C     | D     | E     | G Thread     | H     | J     | K1 Drill | L       | M     | N     |       |
|---------------|-----------|-------------|-------|-------|-------|-------|-------|--------------|-------|-------|----------|---------|-------|-------|-------|
| 1967-61-12-12 | 3/4       | 3/4         | 1.690 | 2.560 | 0.875 | 1.875 | 1.250 | 3/4-14       | 0.750 | 1.250 | 0.406    | 3/8-16  | 2.280 | 1.440 | 0.875 |
| 1967-61-16-16 | 1         | 1           | 1.940 | 2.750 | 1.031 | 2.062 | 1.500 | 1-11/2       | 1.000 | 1.560 | 0.406    | 3/8-16  | 23620 | 1.660 | 1.062 |
| 1967-61-20-20 | 1-1/4     | 1-1/4       | 2.190 | 3.120 | 1.188 | 2.312 | 1.810 | 1-1/4-11 1/2 | 1.250 | 1.750 | 0.469    | 7/16-14 | 3.000 | 1.910 | 1.188 |
| 1967-61-24-24 | 1-1/2     | 1-1/2       | 2.560 | 3.690 | 1.406 | 2.750 | 2.000 | 1-1/2-11 1/2 | 1.500 | 2.115 | 0.531    | 1/2-13  | 3.330 | 2.050 | 1.312 |
| 1967-61-32-32 | 2         | 2           | 3.060 | 4.330 | 1.688 | 3.062 | 2.500 | 2-11/2       | 2.000 | 2.490 | 0.531    | 1/2-13  | 3.810 | 2.280 | 1.656 |

# 1968-61

NPTF PORT BLOCK 90 DEG ELBOW CODE 61 - FLAT FACE

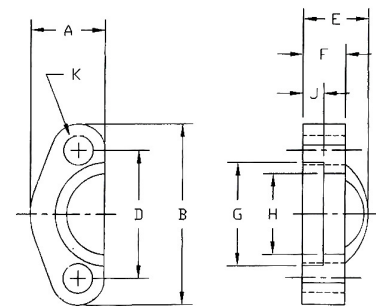


| PART NO.      | Pipe Size | Flange Size | A     | B     | C     | D     | E     | G Thread     | H     | J     | K1 Drill | L      | M     | N     |
|---------------|-----------|-------------|-------|-------|-------|-------|-------|--------------|-------|-------|----------|--------|-------|-------|
| 1968-61-12-12 | 3/4       | 3/4         | 1.690 | 2.560 | 0.875 | 1.875 | 1.250 | 3/4-14       | 0.750 | 1.250 | 0.406    | 2.280  | 1.440 | 0.875 |
| 1968-61-16-16 | 1         | 1           | 1.940 | 2.750 | 1.031 | 2.062 | 1.500 | 1-11-1/2     | 1.000 | 1.560 | 0.406    | 2.3620 | 1.660 | 1.062 |
| 1968-61-20-20 | 1-1/4     | 1-1/4       | 2.190 | 3.120 | 1.188 | 2.312 | 1.810 | 1-1/4-11 1/2 | 1.250 | 1.750 | 0.469    | 3.000  | 1.910 | 1.188 |
| 1968-61-24-24 | 1-1/2     | 1-1/2       | 2.560 | 3.690 | 1.406 | 2.750 | 2.000 | 1-1/2-11 1/2 | 1.500 | 2.115 | 0.531    | 3.330  | 2.050 | 1.312 |
| 1968-61-32-32 | 2         | 2           | 3.060 | 4.330 | 1.688 | 3.062 | 2.500 | 2-11-1/2     | 2.000 | 2.490 | 0.531    | 3.810  | 2.280 | 1.656 |

# SPLIT & CAPTIVE FLANGES

## 1951

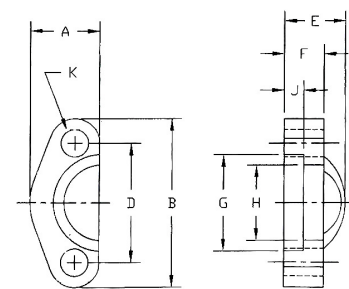
SPLIT FLANGE CODE 61 (PAIRS)



| PART NO. | Flange Kit | Flange Size | A ±.030 | B ±.030 | D ±.010 | E ±.030 | F ±.016 | G ±.010 | H ±.010 | J ±.005 | K ±.005 |
|----------|------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1951-08  | 1901-08    | 1/2         | 0.86    | 2.12    | 1.50    | 0.75    | 0.50    | 1.22    | 0.96    | 0.25    | 0.34    |
| 1951-12  | 1901-12    | 3/4         | 0.98    | 2.56    | 1.88    | 0.88    | 0.56    | 1.53    | 1.278   | 0.25    | 0.41    |
| 1951-16  | 1901-16-H  | 1           | 1.11    | 2.75    | 2.06    | 0.94    | 0.62    | 1.78    | 1.52    | 0.30    | 0.41    |
| 1951-20  | 1901-20-H  | 1-1/4       | 1.39    | 3.12    | 2.31    | 0.88    | 0.56    | 2.03    | 1.72    | 0.30    | 0.47    |
| 1951-24  | 1901-24-H  | 1-1/2       | 1.58    | 3.69    | 2.75    | 1.00    | 0.62    | 2.41    | 2.00    | 0.30    | 0.53    |
| 1951-32  | 1901-32-H  | 2           | 1.86    | 4.00    | 3.06    | 1.03    | 0.62    | 2.84    | 2.47    | 0.36    | 0.53    |
| 1951-40  | 1901-40-H  | 2-1/2       | 2.09    | 4.50    | 3.50    | 1.50    | 0.75    | 3.34    | 2.95    | 0.36    | 0.53    |
| 1951-48  | 1901-48-H  | 3           | 2.53    | 5.31    | 4.19    | 1.62    | 0.88    | 4.03    | 3.58    | 0.36    | 0.66    |
| 1951-56  | 1901-56-H  | 3-1/2       | 2.70    | 6.00    | 4.75    | 1.12    | 0.88    | 4.53    | 4.03    | 0.42    | 0.66    |
| 1951-64  | 1901-64-H  | 4           | 2.95    | 6.38    | 5.13    | 1.38    | 1.00    | 5.03    | 4.53    | 0.42    | 0.66    |

## 1951-H

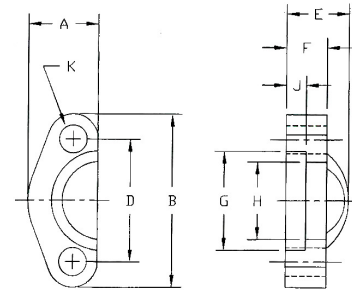
SPLIT FLANGE HALVES CODE 61 (SINGLE HALF ONLY)



| PART NO.  | Flange Size | A ±.030 | b ±.030 | D ±.010 | E ±.030 | F ±.016 | G ±.010 | H ±.010 | J ±.005 | K ±.005 |
|-----------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1951-08-H | 1/2         | 0.86    | 2.12    | 1.50    | 0.75    | 0.50    | 1.22    | 0.96    | 0.25    | 0.34    |
| 1951-12-H | 3/4         | 0.98    | 2.56    | 1.88    | 0.88    | 0.56    | 1.53    | 1.27    | 0.25    | 0.41    |
| 1951-16-H | 1           | 1.11    | 2.75    | 2.06    | 0.94    | 0.62    | 1.78    | 1.52    | 0.30    | 0.41    |
| 1951-20-H | 1-1/4       | 1.39    | 3.12    | 2.31    | 0.88    | 0.56    | 2.03    | 1.72    | 0.30    | 0.47    |
| 1951-24-H | 1-1/2       | 1.58    | 3.69    | 2.75    | 1.00    | 0.62    | 2.41    | 2.00    | 0.30    | 0.53    |
| 1951-32-H | 2           | 1.86    | 4.00    | 3.06    | 1.03    | 0.62    | 2.84    | 2.47    | 0.36    | 0.53    |
| 1951-40-H | 2-1/2       | 2.09    | 4.50    | 3.50    | 1.50    | 0.75    | 3.34    | 2.95    | 0.36    | 0.53    |
| 1951-48-H | 3           | 2.53    | 5.31    | 4.19    | 1.62    | 0.88    | 4.03    | 3.58    | 0.36    | 0.66    |

# 1952

SPLIT FLANGE CODE 62 (PAIRS)

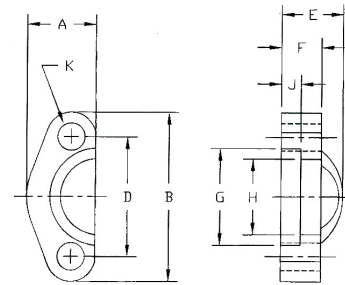


**PART NO.** **Flange Kit** **Flange Size** **A ±.030** **B ±.030** **D ±.010** **E ±.030** **F ±.016** **G ±.010** **H ±.010** **J ±.005** **K ±.005**

|         |         |       |      |      |      |      |      |      |      |      |      |
|---------|---------|-------|------|------|------|------|------|------|------|------|------|
| 1952-12 | 1902-12 | 3/4   | 1.14 | 2.81 | 2.00 | 1.12 | 0.75 | 1.66 | 1.28 | 0.33 | 0.41 |
| 1952-16 | 1902-16 | 1     | 1.33 | 3.19 | 2.25 | 1.31 | 0.94 | 1.91 | 1.53 | 0.36 | 0.47 |
| 1952-20 | 1902-20 | 1-1/4 | 1.48 | 3.75 | 2.63 | 1.50 | 1.06 | 2.16 | 1.75 | 0.39 | 0.53 |
| 1952-24 | 1902-24 | 1-1/2 | 1.83 | 4.44 | 3.13 | 1.69 | 1.19 | 2.53 | 2.03 | 0.48 | 0.66 |
| 1952-32 | 1902-32 | 2     | 2.20 | 5.25 | 3.81 | 2.06 | 1.44 | 3.16 | 2.66 | 0.48 | 0.78 |

# 1952-H

SPLIT FLANGE HALVES CODE 62 (SINGLE HALF ONLY)

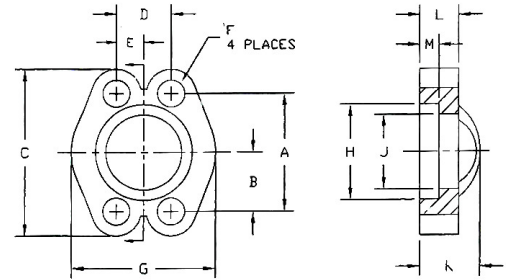


**PART NO.** **Flange Size** **A ±.030** **b ±.030** **D ±.010** **E ±.030** **F ±.016** **G ±.010** **H ±.010** **J ±.005** **K ±.005**

|           |       |      |      |      |      |      |      |      |      |      |
|-----------|-------|------|------|------|------|------|------|------|------|------|
| 1952-12-H | 3/4   | 1.14 | 2.81 | 2.00 | 1.12 | 0.75 | 1.66 | 1.28 | 0.33 | 0.41 |
| 1952-16-H | 1     | 1.33 | 3.19 | 2.25 | 1.31 | 0.94 | 1.91 | 1.53 | 0.36 | 0.47 |
| 1952-20-H | 1-1/4 | 1.48 | 3.75 | 2.63 | 1.50 | 1.06 | 2.16 | 1.75 | 0.39 | 0.53 |
| 1952-24-H | 1-1/2 | 1.83 | 4.44 | 3.13 | 1.69 | 1.19 | 2.53 | 2.03 | 0.48 | 0.66 |
| 1952-32-H | 2     | 2.20 | 5.25 | 3.81 | 2.06 | 1.44 | 3.16 | 2.66 | 0.48 | 0.78 |

# 1903-61

CAPTIVE FLANGE - CODE 61 (DRILLED HOLES)

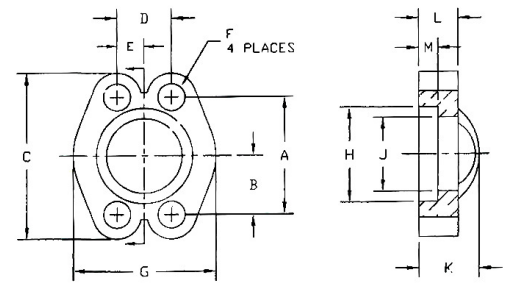


**PART NO.** **FLANGE SIZE** **A ±.010** **B ±.010** **C ±.030** **D ±.010** **E ±.010** **F ±.010** **F Thread** **G ±.030** **H ±.010** **J ±.010** **K ±.010** **L ±.010** **M ±.005**

|            |       |       |       |      |       |       |       |         |      |       |       |      |      |       |
|------------|-------|-------|-------|------|-------|-------|-------|---------|------|-------|-------|------|------|-------|
| 1903-61-08 | 1/2   | 1.500 | 0.750 | 2.12 | 0.688 | 0.344 | 0.344 | 5/16-18 | 1.81 | 1.219 | 0.955 | 0.75 | 0.50 | 0.245 |
| 1903-61-12 | 3/4   | 1.875 | 0.938 | 2.56 | 0.875 | 0.438 | 0.406 | 3/8-16  | 2.06 | 1.531 | 1.265 | 0.88 | 0.56 | 0.245 |
| 1903-61-16 | 1     | 2.062 | 1.031 | 2.75 | 1.031 | 0.516 | 0.406 | 3/8-16  | 2.31 | 1.781 | 1.515 | 0.94 | 0.62 | 0.295 |
| 1903-61-20 | 1-1/4 | 2.312 | 1.156 | 3.12 | 1.188 | 0.594 | 0.469 | 7/16-14 | 2.88 | 2.031 | 1.720 | 0.88 | 0.56 | 0.295 |
| 1903-61-24 | 1-1/2 | 2.750 | 1.375 | 3.69 | 1.406 | 0.703 | 0.531 | 1/2-13  | 3.25 | 2.406 | 2.000 | 1.00 | 0.62 | 0.295 |
| 1903-61-32 | 2     | 3.062 | 1.531 | 4.00 | 1.688 | 0.844 | 0.531 | 1/2-13  | 3.81 | 2.844 | 2.470 | 1.03 | 0.62 | 0.355 |
| 1903-61-40 | 2 1/2 | 3.500 | 1.750 | 4.50 | 2.000 | 1.000 | 0.531 | 1/2-13  | 4.28 | 3.344 | 2.950 | 1.50 | 0.75 | 0.355 |
| 1903-61-48 | 3     | 4.188 | 2.094 | 5.31 | 2.438 | 1.219 | 0.656 | 5/8-11  | 5.16 | 4.031 | 3.580 | 1.62 | 0.88 | 0.355 |
| 1903-61-56 | 3 1/2 | 4.750 | 2.375 | 6.00 | 2.750 | 1.375 | 0.656 | 5/8-11  | 5.50 | 4.531 | 4.030 | 1.12 | 0.88 | 0.422 |
| 1903-61-64 | 4     | 5.125 | 2.562 | 6.38 | 3.062 | 1.531 | 0.656 | 5/8-11  | 6.00 | 5.031 | 4.530 | 1.38 | 1.00 | 0.422 |

# 1903-62

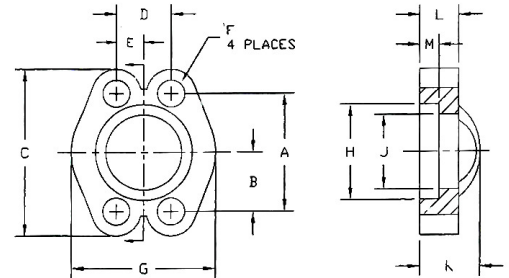
CAPTIVE FLANGE - CODE 62 (DRILLED HOLES)



| PART NO.   | FLANGE SIZE | A ±.010 | B ±.010 | C ±.030 | D ±.010 | E ±.010 | F ±.010 | F Thread | G ±.030 | H ±.010 | J ±.010 | K ±.010 | L ±.010 | M ±.005 |
|------------|-------------|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|
| 1903-62-12 | 3/4         | 2.000   | 1.000   | 2.81    | 0.938   | 0.469   | 0.406   | 3/8-16   | 2.38    | 1.656   | 1.280   | 1.12    | 0.75    | 0.325   |
| 1903-62-16 | 1           | 2.250   | 1.125   | 3.19    | 1.094   | 0.547   | 0.469   | 7/16-14  | 2.75    | 1.906   | 1.530   | 1.31    | 0.94    | 0.355   |
| 1903-62-20 | 1 1/4       | 2.625   | 1.313   | 3.75    | 1.250   | 0.625   | 0.531   | 1/2-13   | 3.06    | 2.156   | 1.750   | 1.50    | 1.06    | 0.385   |
| 1903-62-24 | 1 1/2       | 3.125   | 1.563   | 4.44    | 1.438   | 0.719   | 0.656   | 5/8-11   | 3.75    | 2.531   | 2.030   | 1.69    | 1.19    | 0.475   |
| 1903-62-32 | 2           | 3.812   | 1.906   | 5.25    | 1.750   | 0.875   | 0.781   | 3/4-10   | 4.50    | 3.156   | 2.660   | 2.06    | 1.44    | 0.475   |

# 1904-61

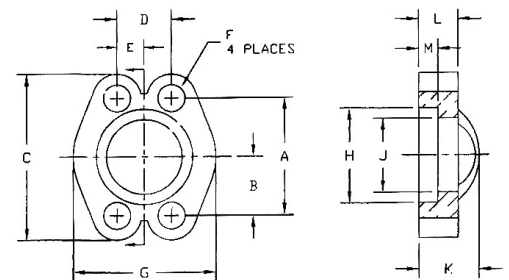
CAPTIVE FLANGE - CODE 61 (TAPPED HOLES)



| PART NO.   | FLANGE SIZE | A ±.010 | B ±.010 | C ±.030 | D ±.010 | E ±.010 | F ±.010 | F Thread | G ±.030 | H ±.010 | J ±.010 | K ±.010 | L ±.010 | M ±.005 |
|------------|-------------|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|
| 1904-61-08 | 1/2         | 1.500   | 0.750   | 2.12    | 0.688   | 0.344   | 0.344   | 5/16-18  | 1.81    | 1.219   | 0.955   | 0.75    | 0.50    | 0.245   |
| 1904-61-12 | 3/4         | 1.875   | 0.938   | 2.56    | 0.875   | 0.438   | 0.406   | 3/8-16   | 2.06    | 1.531   | 1.265   | 0.88    | 0.56    | 0.245   |
| 1904-61-16 | 1           | 2.062   | 1.031   | 2.75    | 1.031   | 0.516   | 0.406   | 3/8-16   | 2.31    | 1.781   | 1.515   | 0.94    | 0.62    | 0.295   |
| 1904-61-20 | 1 1/4       | 2.312   | 1.156   | 3.12    | 1.188   | 0.594   | 0.469   | 7/16-14  | 2.88    | 2.031   | 1.720   | 0.88    | 0.56    | 0.295   |
| 1904-61-24 | 1 1/2       | 2.750   | 1.375   | 3.69    | 1.406   | 0.703   | 0.531   | 1/2-13   | 3.25    | 2.406   | 2.000   | 1.00    | 0.62    | 0.295   |
| 1904-61-32 | 2           | 3.062   | 1.531   | 4.00    | 1.688   | 0.844   | 0.531   | 1/2-13   | 3.81    | 2.844   | 2.470   | 1.03    | 0.62    | 0.355   |
| 1904-61-40 | 2 1/2       | 3.500   | 1.750   | 4.50    | 2.000   | 1.000   | 0.531   | 1/2-13   | 4.28    | 3.344   | 2.950   | 1.50    | 0.75    | 0.355   |
| 1904-61-48 | 3           | 4.188   | 2.094   | 5.31    | 2.438   | 1.219   | 0.656   | 5/8-11   | 5.16    | 4.031   | 3.580   | 1.62    | 0.88    | 0.355   |
| 1904-61-56 | 3 1/2       | 4.750   | 2.375   | 6.00    | 2.750   | 1.375   | 0.656   | 5/8-11   | 5.50    | 4.531   | 4.030   | 1.12    | 0.88    | 0.422   |
| 1904-61-64 | 4           | 5.125   | 2.562   | 6.38    | 3.062   | 1.531   | 0.656   | 5/8-11   | 6.00    | 5.031   | 4.530   | 1.38    | 1.00    | 0.422   |

# 1904-62

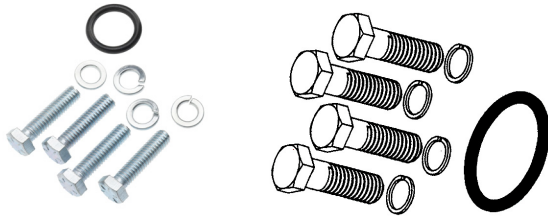
CAPTIVE FLANGE - CODE 62 (TAPPED HOLES)



| PART NO.   | FLANGE SIZE | A ±.010 | B ±.010 | C ±.030 | D ±.010 | E ±.010 | F ±.010 | F Thread | G ±.030 | H ±.010 | J ±.010 | K ±.010 | L ±.010 | M ±.005 |
|------------|-------------|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|
| 1904-62-12 | 3/4         | 2.000   | 1.000   | 2.81    | 0.938   | 0.469   | 0.406   | 3/8-16   | 2.38    | 1.656   | 1.280   | 1.12    | 0.75    | 0.325   |
| 1904-62-16 | 1           | 2.250   | 1.125   | 3.19    | 1.094   | 0.547   | 0.469   | 7/16-14  | 2.75    | 1.906   | 1.530   | 1.31    | 0.94    | 0.355   |
| 1904-62-20 | 1 1/4       | 2.625   | 1.313   | 3.75    | 1.250   | 0.625   | 0.531   | 1/2-13   | 3.06    | 2.156   | 1.750   | 1.50    | 1.06    | 0.385   |
| 1904-62-24 | 1 1/2       | 3.125   | 1.563   | 4.44    | 1.438   | 0.719   | 0.656   | 5/8-11   | 3.75    | 2.531   | 2.030   | 1.69    | 1.19    | 0.475   |
| 1904-62-32 | 2           | 3.812   | 1.906   | 5.25    | 1.750   | 0.875   | 0.781   | 3/4-10   | 4.50    | 3.156   | 2.660   | 2.06    | 1.44    | 0.475   |

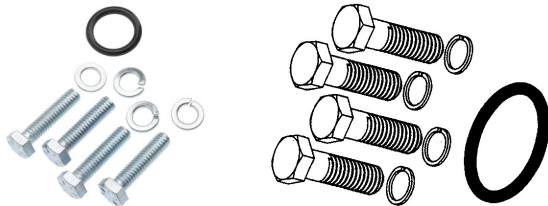
# MOUNTING KITS

## 1900-61 HEX HEAD MOUNTING KIT - CODE 61



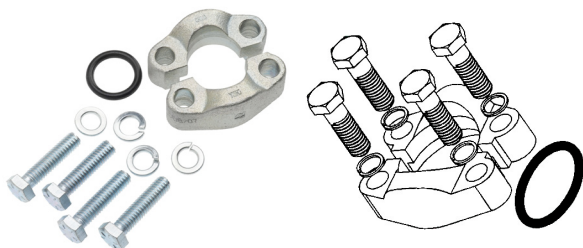
| PART NO.     | Flange Size |
|--------------|-------------|
| 1900-61-08-K | 1/2         |
| 1900-61-12-K | 3/4         |
| 1900-61-16-K | 1           |
| 1900-61-20-K | 1-1/4       |
| 1900-61-24-K | 1-1/2       |
| 1900-61-32-K | 2           |
| 1900-61-40-K | 2-1/2       |
| 1900-61-48-K | 3           |
| 1900-61-56-K | 3-1/2       |
| 1900-61-64-K | 4           |

## 1900-62 HEX HEAD MOUNTING KIT - CODE 62



| PART NO.     | Flange Size |
|--------------|-------------|
| 1900-62-08-K | 1/2         |
| 1900-62-12-K | 3/4         |
| 1900-62-16-K | 1           |
| 1900-62-20-K | 1-1/4       |
| 1900-62-24-K | 1-1/2       |
| 1900-62-32-K | 2           |

## 1901 SPLIT FLANGE KIT - CODE 61

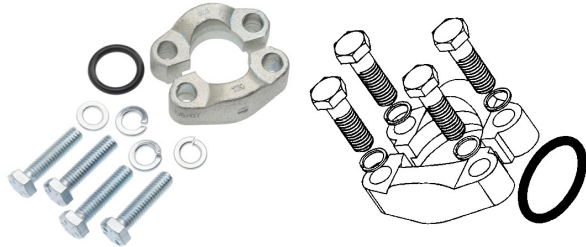


| PART NO. | Flange Size |
|----------|-------------|
| 1901-08  | 1/2         |
| 1901-12  | 3/4         |
| 1901-16  | 1           |
| 1901-20  | 1 1/4       |

Continued...

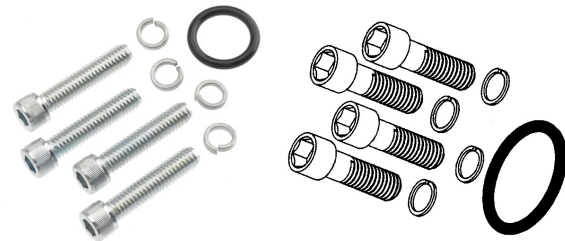
| PART NO. | Flange Size |
|----------|-------------|
| 1901-24  | 1 1/2       |
| 1901-32  | 2           |
| 1901-40  | 2-1/2       |
| 1901-48  | 3           |
| 1901-56  | 3-1/2       |
| 1901-64  | 4           |

## 1902 SPLIT FLANGE KIT - CODE 62



| PART NO. | Flange Size |
|----------|-------------|
| 1902-08  | 1/2         |
| 1902-12  | 3/4         |
| 1902-16  | 1           |
| 1902-20  | 1 1/4       |
| 1902-24  | 1 1/2       |
| 1902-32  | 2           |

## 1990-61 SOCKET HEAD MOUNTING KIT - CODE 61



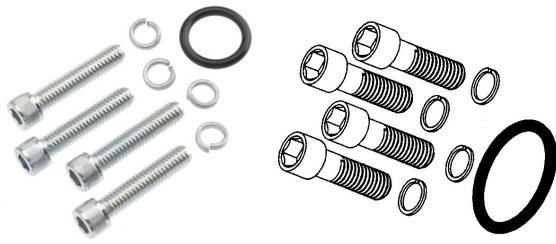
| PART NO.        | Flange Size |
|-----------------|-------------|
| 1990-08-05X1.50 | 1/2         |
| 1990-12-06X1.50 | 3/4         |
| 1990-16-06X1.75 | 1           |
| 1990-20-07X1.75 | 1-1/4       |
| 1990-24-08X2.00 | 1-1/2       |
| 1990-32-08X2.00 | 2           |
| 1990-40-08X2.50 | 2-1/2       |
| 1990-48-10X2.50 | 3           |
| 1990-56-10X2.75 | 3-1/2       |
| 1990-64-10X2.75 | 4           |

### California Proposition 65 Warning

**WARNING:** This product can expose you to chemicals including Lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm.

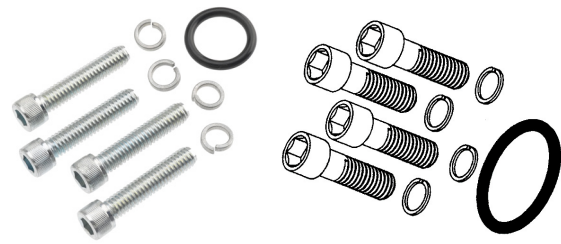
For more information: [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## 1990-62 SOCKET HEAD MOUNTING KIT - CODE 62



| PART NO.        | Flange Size |
|-----------------|-------------|
| 1990-08-05X2.00 | 1/2         |
| 1990-12-06X2.00 | 3/4         |
| 1990-16-07X2.50 | 1           |
| 1990-20-08X2.50 | 1-1/4       |
| 1990-24-10X3.00 | 1-1/2       |
| 1990-32-12X3.00 | 2           |

## 1990-M SOCKET HEAD MOUNTING KIT METRIC



| PART NO.   | Flange Size (mm) |
|------------|------------------|
| 1990-M08-K | 8                |
| 1990-M10-K | 10               |
| 1990-M12-K | 12               |
| 1990-M16-K | 16               |
| 1990-M20-K | 20               |
| 1990-M24-K | 24               |
| 1990-M30-K | 30               |

|                                                      |          |                                                            |          |
|------------------------------------------------------|----------|------------------------------------------------------------|----------|
| 1700 MJ-FLANGE STRAIGHT CODE 61                      | PAGE: 3  | 1936-62 FLAT SOCKET BLOCK PIPE CODE 62 (FLAT FACE)         | PAGE: 14 |
| 1703 MJ-FLANGE 45 DEG ELBOW CODE 61                  | PAGE: 4  | 1937-61 FLAT SOCKET BLOCK TUBE CODE 61 (O-RING FACE)       | PAGE: 15 |
| 1703-FG MJ-FLANGE 45 DEG CODE 61                     | PAGE: 4  | 1937-62 FLAT SOCKET BLOCK TUBE CODE 62 (O-RING FACE)       | PAGE: 15 |
| 1704 MJ-FLANGE 90 DEG CODE 61                        | PAGE: 5  | 1938-61 FLAT SOCKET BLOCK TUBE CODE 61 (FLAT FACE)         | PAGE: 15 |
| 1704-FG MJ-FLANGE 90 DEG CODE 61                     | PAGE: 5  | 1938-62 FLAT SOCKET BLOCK TUBE CODE 62 (FLAT FACE)         | PAGE: 16 |
| 1710 MB-FLANGE STRAIGHT                              | PAGE: 3  | 1940-61 FLANGE SPACER WITH SIDE GAGE PORTS CODE 61         | PAGE: 16 |
| 1724 FLANGE PLUGS - CODE 61                          | PAGE: 7  | 1940-62 FLANGE SPACER WITH SIDE GAGE PORTS CODE 62         | PAGE: 16 |
| 1800 MJ-FLANGE STRAIGHT CODE 62                      | PAGE: 3  | 1942-61 PLUG BLOCK - CODE 61 (O-RING FACE)                 | PAGE: 9  |
| 1803 MJ-FLANGE 45 DEG CODE 62                        | PAGE: 5  | 1942-62 PLUG BLOCK - CODE 62 (O-RING FACE)                 | PAGE: 9  |
| 1803-FG MJ-FLANGE 45 DEG CODE 62                     | PAGE: 5  | 1943-61 PLUG BLOCK - CODE 61 (FLAT FACE)                   | PAGE: 9  |
| 1804 MJ-FLANGE 90 DEG CODE 62                        | PAGE: 6  | 1943-62 PLUG BLOCK - CODE 62 (FLAT FACE)                   | PAGE: 10 |
| 1804-FG MJ-FLANGE 90 DEG CODE 62                     | PAGE: 6  | 1951 SPLIT FLANGE CODE 61 (PAIRS)                          | PAGE: 19 |
| 1810 MB-FLANGE STRAIGHT CODE 62                      | PAGE: 3  | 1951-H SPLIT FLANGE HALVES CODE 61 (SINGLE HALF ONLY)      | PAGE: 19 |
| 1824 FLANGE PLUGS - CODE 62                          | PAGE: 7  | 1952 SPLIT FLANGE CODE 62 (PAIRS)                          | PAGE: 20 |
| 1900-61 HEX HEAD MOUNTING KIT - CODE 61              | PAGE: 22 | 1952-H SPLIT FLANGE HALVES CODE 62 (SINGLE HALF ONLY)      | PAGE: 20 |
| 1900-62 HEX HEAD MOUNTING KIT - CODE 62              | PAGE: 22 | 1959-P PIPE SADDLE WELD BLOCK CONNECTOR (O-RING FACE)      | PAGE: 17 |
| 1900-M HEX HEAD MOUNTING KIT - METRIC                | PAGE:    | 1960-P PIPE SADDLE WELD BLOCK CONNECTOR (FLAT FACE)        | PAGE: 17 |
| 1901 SPLIT FLANGE KIT - CODE 61                      | PAGE: 22 | 1965-61 SAE PORT BLOCK 90 DEG ELBOW CODE 61 - O-RING FACE  | PAGE: 18 |
| 1902 SPLIT FLANGE KIT - CODE 62                      | PAGE: 22 | 1965-62 SAE PORT BLOCK 90 DEG ELBOW CODE 62 - O-RING FACE  | PAGE: 18 |
| 1903-61 CAPTIVE FLANGE - CODE 61 (DRILLED HOLES)     | PAGE: 20 | 1966-61 SAE PORT BLOCK 90 DEG ELBOW CODE 61 - FLAT FACE    | PAGE: 18 |
| 1903-62 CAPTIVE FLANGE - CODE 62 (DRILLED HOLES)     | PAGE: 21 | 1967-61 NPTF PORT BLOCK 90 DEG ELBOW CODE 61 - O-RING FACE | PAGE: 18 |
| 1904-61 CAPTIVE FLANGE - CODE 61 (TAPPED HOLES)      | PAGE: 21 | 1968-61 NPTF PORT BLOCK 90 DEG ELBOW CODE 61 - FLAT FACE   | PAGE: 19 |
| 1904-62 CAPTIVE FLANGE - CODE 62 (TAPPED HOLES)      | PAGE: 21 | 1979-61 FLANGE SHIPPING PLATE - O-PSI CODE 61              | PAGE: 17 |
| 1914-61 CONNECTOR PLATE - CODE 61                    | PAGE: 10 | 1979-62 FLANGE SHIPPING PLATE - O-PSI CODE 62              | PAGE: 17 |
| 1914-62 CONNECTOR PLATE - CODE 62                    | PAGE: 10 | 1990-61 SOCKET HEAD MOUNTING KIT - CODE 61                 | PAGE: 22 |
| 1927-61 NPTF PORT BLOCK - CODE 61 (O-RING FACE)      | PAGE: 10 | 1990-62 SOCKET HEAD MOUNTING KIT - CODE 62                 | PAGE: 23 |
| 1927-62 NPTF PORT BLOCK - CODE 62 (O-RING FACE)      | PAGE: 11 | 1990-M SOCKET HEAD MOUNTING KIT METRIC                     | PAGE: 23 |
| 1928-61 NPTF PORT BLOCK - CODE 61 (FLAT FACE)        | PAGE: 11 | 3300-61 TUBE BRAZE FLANGE HEAD - CODE 61 (O-RING FACE)     | PAGE: 8  |
| 1928-62 NPTF PORT BLOCK - CODE 62 (FLAT FACE)        | PAGE: 11 | 3300-62 TUBE BRAZE FLANGE HEAD - CODE 62 (O-RING FACE)     | PAGE: 8  |
| 1929-61 SAE PORT BLOCK - CODE 61 (O-RING FACE)       | PAGE: 12 | 3301-61 TUBE BRAZE FLANGE HEAD - CODE 61 (FLAT FACE)       | PAGE: 8  |
| 1929-62 SAE PORT BLOCK - CODE 62 (O-RING FACE)       | PAGE: 12 | 3301-62 TUBE BRAZE FLANGE HEAD - CODE 62 (FLAT FACE)       | PAGE: 8  |
| 1930-61 SAE PORT BLOCK - CODE 61 (FLAT FACE)         | PAGE: 12 | FS1700 MFS-FLANGE STRAIGHT - CODE 61                       | PAGE: 4  |
| 1930-62 SAE PORT BLOCK - CODE 62 (FLAT FACE)         | PAGE: 12 | FS1703-FG MJ-FLANGE 45 DEG CODE 61                         | PAGE: 6  |
| 1933 FLAT SOCKET BLOCK PIPE 500PSI (O-RING FACE)     | PAGE: 13 | FS1704-FG MFS-FLANGE 90 DEG CODE 61                        | PAGE: 6  |
| 1934 FLAT SOCKET BLOCK PIPE 500PSI (FLAT FACE)       | PAGE: 13 | FS1800 MFS-FLANGE STRT CODE 62                             | PAGE: 4  |
| 1935-61 FLAT SOCKET BLOCK PIPE CODE 61 (O-RING FACE) | PAGE: 13 | FS1803-FG MJ-FLANGE 45 DEG CODE 62                         | PAGE: 6  |
| 1935-62 FLAT SOCKET BLOCK PIPE CODE 62 (O-RING FACE) | PAGE: 14 | FS1804-FG MFS-FLANGE 90 DEG CODE 62                        | PAGE: 7  |
| 1936-61 FLAT SOCKET BLOCK PIPE CODE 61 (FLAT FACE)   | PAGE: 14 | FS1805 MFS-MFS-FLANGE CODE 62                              | PAGE: 7  |

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