

**SCREW STEM SHUT-OFF VALVES  
NEEDLE VALVES**

**NEEDLE VALVES** are constructed to meter fluids and gases. They are **O-RING SEALED** to eliminate valve maintenance. The O-ring is positioned between the actuating threads and the seat, and seals the closely fitted cylinder to give the lowest possible internal volume and protect threads from contamination.

**NEEDLE VALVES** have a medium tipped stem (37°) to offer **RAPID SHUT OFF, FULL FLOW** and a **SEMI-METERING FUNCTION**.

The standard construction is a forged brass body, brass stem, thrust washer, cap and a BUNA "n" 'O'-RING seal. This valve is rated for 1,000 P.A.I.G. service from -40° to 250° F.

**FACTORY MUST BE CONSULTED WHEN VALVES ARE TO BE USED WITH FLAMMABLE FLUIDS IN ORDER TO DETERMINE WORKING PRESSURE AND O-RING COMPATIBILITY.**

COMPRESSION AND FLARE ENDS CAN BE SUBSTITUTED FOR PIPE ENDS IN MOST CASES.

(Price on application)



**MIP X FIP STRAIGHT**

| Part # | Pipe Thread |           | Style       | Maximum Orifice |
|--------|-------------|-----------|-------------|-----------------|
|        | Inlet       | Outlet    |             |                 |
| 46-768 | 1/8Male     | 1/8Female | Regular     | .141            |
| 46-769 | 1/8Male     | 1/8Female | Panel Mntg. | .141            |
| 46-770 | 1/4Male     | 1/4Female | Regular     | .188            |
| 46-771 | 1/4male     | 1/4Female | Panel Mntg. | .188            |

**MIP X MIP STRAIGHT**

| Part # | Thread  | Straight |         | Maximum Orifice |
|--------|---------|----------|---------|-----------------|
|        |         | Style    | Orifice |                 |
| 46-774 | 1/8Male | 1/8Male  | Regular | .141            |
| 46-775 | 1/8Male | 1/8Male  | Panel   | .141            |
| 46-776 | 1/4Male | 1/4Male  | Regular | .188            |
| 46-777 | 1/4Male | 1/4Male  | Panel   | .188            |

**FIP X FIP STRAIGHT**

| Part # | Thread    | Straight  |         | Maximum Orifice |
|--------|-----------|-----------|---------|-----------------|
|        |           | Style     | Orifice |                 |
| 46-780 | 1/8Female | 1/8Female | Regular | .172            |
| 46-781 | 1/8Female | 1/8Female | Panel   | .172            |
| 46-782 | 1/4Female | 1/4Female | Regular | .188            |
| 46-783 | 1/4Female | 1/4Female | Panel   | .188            |



**MIP X FIP ANGLE**

| Part # | Thread  | Style     | Maximum     |      |
|--------|---------|-----------|-------------|------|
|        |         |           | Orifice     |      |
| 46-786 | 1/8Male | 1/8Female | Regular     | .188 |
| 46-787 | 1/8Male | 1/8Female | Panel Mntg. | .188 |
| 46-788 | 1/4Male | 1/4Female | Regular     | .281 |
| 46-789 | 1/4Male | 1/4Female | panel Mntg. | .281 |

**MIP X MIP ANGLE**

| Part # | Thread  | Style   | Maximum |      |
|--------|---------|---------|---------|------|
|        |         |         | Orifice |      |
| 46-792 | 1/8Male | 1/8Male | Regular | .188 |
| 46-793 | 1/8Male | 1/8Male | Panel   | .188 |
| 46-794 | 1/4Male | 1/4Male | Regular | .281 |
| 46-795 | 1/4Male | 1/4Male | Panel   | .281 |

**FIP X FIP ANGLE**

| Part # | Thread    | Style     | Maximum |      |
|--------|-----------|-----------|---------|------|
|        |           |           | Orifice |      |
| 46-798 | 1/8Female | 1/8Female | Regular | .188 |
| 46-799 | 1/8Female | 1/8Female | Panel   | .188 |
| 46-800 | 1/4Female | 1/4Female | Regular | .281 |
| 46-801 | 1/4Female | 1/4Female | Panel   | .281 |

**SPECIAL VERSIONS**

Many special versions of these valves have been produced for other services. If your application is not described here or covered by our recommendations, please contact us. It is quite possible that one of these valve types can be economically adapted to your requirements.

