Female NPT/10,000 psi

Pipe Connection Valves

Non-rotating tip stems are standard for on-off service and insure long life on valve seats. Regulating tip stems are available for all valves at no additional cost.

Materials include high tensile Type 316 stainless steel for valve bodies, and hardened 17-4PH stainless steel for lower section stems.

Packing is Teflon (450°F) standard with optional Viton (350°F), BUNA-N (200°F) and Grafoil (650°F) available at no additional cost.

Air operators for remote control operation are available for all valves. (See Air Operator section of catalog).
Female NPT/10,000 and 15,000 psi
Pipe Connection Valves

Non-rotating tip stems are standard for on-off service and insure long life on valve seats. Regulating tip stems are available for all valves at no additional cost.

Materials include high tensile Type 316 stainless steel for valve bodies, and hardened 17-4PH stainless steel for lower section stems. Packing is Teflon (450°F) standard with optional Viton (350°F), BUNA-N (200°F) and Grafoil (650°F) available at no additional cost.

Air operators for remote control operation are available for all valves. (See Air Operator section of catalog).

* For valves requiring high temperature Grafoil packing in the 1/8" NPT, or 1/4" NPT or 3/8" NPT sizes, add suffix "W" to catalog number. (Example 10-11NFB-W.)

### Two Way Straight Valves

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<th>Connection</th>
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<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>Thickness</th>
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<tr>
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<td>.312</td>
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<td>1/2&quot;</td>
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Elbows/Tees/Crosses

A complete range of elbows, tees, and crosses is available for all of the tubing connection sizes. Material is high tensile 316 stainless steel.

**NPT Elbows**

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<th>H</th>
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<td>1/4&quot;</td>
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<td>1&quot;</td>
<td>1/8&quot;</td>
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**NPT Tees**

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<th>H</th>
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<td>1/16&quot;</td>
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<td>15-23NFD</td>
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<td>1/16&quot;</td>
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**NPT Crosses**

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<td>NFB</td>
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<td>1&quot;</td>
<td>1&quot;</td>
<td>1&quot;</td>
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<tr>
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<td>2/16&quot;</td>
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</table>

High Pressure Equipment Company
2955 W. 17th Street • Erie, PA 16505 • U.S.A. • Phone: (814) 838-2028 • 1-800-289-7447 • Fax: (814) 838-5075 • Website: www.HighPressure.com
# High Pressure Equipment

## NPT Straight Couplings

Standard material is high tensile 316 stainless steel.

<table>
<thead>
<tr>
<th>Catalog No.</th>
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## NPT Bulkhead Couplings

Bulkhead couplings are designed specifically for passing a tubing connection through a panel or steel barricade. These couplings include a locknut as shown. Material is high tensile 316 stainless steel.

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## NPT Caps

Tubing end caps are offered for use in sealing off tubing ends either for temporary use or permanent use such as on small volume reservoirs. Standard material is high tensile 316 stainless steel.

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<th>Caps</th>
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<table>
<thead>
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<th>Length</th>
<th>Hex</th>
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<td>1/4&quot;</td>
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</table>
**NPT Line Filters**

The line filters as shown utilize sintered stainless steel filter discs 4 pc./set. Porosities are available as per the chart to the right. If not otherwise specified, 100 micron filter discs are supplied. (One micron = 0.001 millimeters). Material of body, caps and cover is high tensile 316 stainless steel.

<table>
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**NPT Ball Check Valves**

Ball type check valves insure flow in one direction only. Material for body, caps and cover is high tensile 316 stainless steel.

<table>
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<td>15-41NFA</td>
<td>15,000</td>
<td>1/4&quot; FNPT</td>
<td>NFA</td>
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<tr>
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**NPT Softseat Check Valves**

Soft seat check valves insure flow in one direction only and can be mounted in any position. These are highly reliable for both gas and liquid service. Standard O-ring (soft seat) material for the sealing surface is Buna-N (nitrile) with other materials including Teflon and Viton available on request. Temperature is limited by the choice of O-ring material. Material of all other parts is high tensile 316 stainless steel.

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Pressure Rating psi</th>
<th>Connections</th>
<th>A-B</th>
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<th>Hex</th>
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NPT Safety Heads

The male inlet design can be inserted directly into the tubing connections of valves and various fittings such as tees and crosses, or located in pressure vessels. Outlet connections are \( \frac{3}{8} \)" pipe (NPT). This outlet may be connected to a suitable discharge line to vent pressure to a safe location in the event of bursting of the rupture disc. Torque required for sealing rupture discs will range from 40 to 90 foot pounds, depending upon pressure and media being used.

Material of body and hold down nut is high tensile 316 stainless steel.

**Note:** Rupture discs are not included and must be ordered as a separate item.

CE marked safety heads are now available, add -CE to end of standard part number. Consult factory for pricing.

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>psi</th>
<th>Connections</th>
<th>Length</th>
<th>Hex</th>
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<td>15-61NMC</td>
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</tbody>
</table>

Rupture Discs

\( \frac{1}{4} \)" Angled Seat

SPECIAL DISCS are available on special order for pressure ranges not shown above and in numerous materials and coatings. Consult factory for price and delivery.

Standard rupture discs are available from stock in burst pressures as listed in the chart below. All pressures through 15,000 psi are shaded. These discs are 316 stainless steel (except for 1,000 psi which are inconel) and may be used with any of the safety heads shown. Note that these rupture discs are supplied with a tolerance of plus 6% and minus 3% of specified burst pressure. Samples of each batch are tested and the actual average burst pressure is stamped on an accompanying metal tag. Factors influencing rupture disc life include corrosion, metal fatigue, and cyclic effects. Periodic replacement is recommended to prevent premature failure.

**Standard Burst Pressures (in psi at 72°F)**

<table>
<thead>
<tr>
<th>psi</th>
<th>1,000</th>
<th>3,000</th>
<th>5,000</th>
<th>7,000</th>
<th>9,000</th>
<th>11,000</th>
<th>17,500</th>
<th>25,000</th>
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<tbody>
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<td>15,000</td>
<td>22,500</td>
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