**Materials of Construction**

<table>
<thead>
<tr>
<th>Item</th>
<th>Parts</th>
<th>Pcs</th>
<th>Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Stem</td>
<td>1</td>
<td></td>
<td>PVC,PP,CPVC, PVDF</td>
</tr>
<tr>
<td>2 Ball</td>
<td>1</td>
<td></td>
<td>PVC,PP,CPVC, PVDF</td>
</tr>
<tr>
<td>3 Body</td>
<td>1</td>
<td></td>
<td>PVC,PP, CPVC, PVDF</td>
</tr>
<tr>
<td>4 Seat Carrier</td>
<td>1</td>
<td></td>
<td>PVC, PP, CPVC, PVDF</td>
</tr>
<tr>
<td>5 Union Nut</td>
<td>2</td>
<td></td>
<td>PVC,PP, CPVC, PVDF</td>
</tr>
<tr>
<td>6 Handle</td>
<td>1</td>
<td></td>
<td>ABS</td>
</tr>
<tr>
<td>7 End Connector</td>
<td>2</td>
<td></td>
<td>PVC,PP, CPVC, PVDF</td>
</tr>
</tbody>
</table>

VITON® is a trademark of DuPont Performance Elastomers

**Ansi Dimensions**

<table>
<thead>
<tr>
<th>Size</th>
<th>D1</th>
<th>D2</th>
<th>D3</th>
<th>d</th>
<th>Thread</th>
<th>P</th>
<th>e</th>
<th>n</th>
<th>Socket</th>
<th>Thread</th>
<th>Flange</th>
<th>A</th>
<th>T</th>
<th>H</th>
<th>B</th>
<th>E</th>
<th>working pressure (psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>4.02</td>
<td>7.5</td>
<td>7.000</td>
<td>4.518</td>
<td>NPT4&quot;</td>
<td>2.250</td>
<td>0.750</td>
<td>8</td>
<td>12.80</td>
<td>12.80</td>
<td>15.18</td>
<td>10.79</td>
<td>0.866</td>
<td>6.69</td>
<td>8.90</td>
<td>1.93</td>
<td>150</td>
</tr>
</tbody>
</table>

"6" Ventured valve available (4" valve with 4x6" adapters ~ socket or flanged end connection)

Testing Procedure: Every valve is tested for bubble tight shutoff prior to leaving the factory. Pressure testing preformed on PVC/EPDM valves at 73° water temperature, non-shock.
TVI SAFETY BLOCK - TRUE UNION BALL VALVES

DESIGN SPECIFICATIONS
Thermoplastic Ball Valves 1/2" - 4" are designed to safely block full system pressure in either direction to allow on-line system maintenance. Valve stem is of the blow-out proof design. Valve has full port for lowest possible pressure loss. Seats shall be easily adjustable and replaceable. Stem has an internal pressure sealed land to protect stem and stem seal from contaminants. Every valve is fully pressure and cycle tested before leaving the factory. Materials of construction shall be: (select as required for service)

BODY/BALL/STEM/END NUTS AND CONNECTORS
PVC, CPVC, ASTM D-1784
PP, ASTM D-4101
PVDF, ASTM D-3222

SEAT
PTFE (Polytetrafluoroethylene), Teflon® (DuPont Dow Elastomers)

SEALS
EPDM, Ethylene Propylene Diene Monomer
Fluorocarbon. Viton® (DuPont Dow Elastomers)
Fluorel (3M Corp.)

MANUAL LEVER
ABS, ASTM D-1788

End connectors shall conform to the following standards:

SOCKET
ASTM - D-2467 (PVC, SCH-80)
ASTM - F-439 (CPVC, SCH-80)

THREADED
ASTM - D-2464 (PVC, SCH-80)
ASTM - F-437 (CPVC, SCH-80)

FLANGED -
ANSI - B16.5 Class 150

Both socket and threaded end connectors shall be supplied on all 1/2" - 2" PVC and CPVC valves. On 2 1/2" - 4" socket end connectors will be supplied unless otherwise specified.

Valves shall be backed by a full two (2) year guarantee.

Not recommended for compressed air or gas service.