Remote Control Valve
Hayward Plastic Pneumatically Actuated Diaphragm Valves are designed for the reliable, remote control of liquids in piping systems. They are suitable for both clean and slurry-type fluids at pressures up to 150 psi.

Position Indicator
You never have to guess if a Hayward Diaphragm Valve is in the open or closed position. A visual position indicator comes standard with every valve.

Powerful Actuator
The actuator used to operate the valve, while lightweight and compact, is still powerful enough to open and close the valve at all internal pressures up to the full working pressure of the valve, 150 psi. There are no compromises with a Hayward Actuated Diaphragm Valve.

No Corrosion Problems
Hayward All-Plastic Diaphragm Valves stand up to the most aggressive fluids and they will never rust, corrode or contaminate the process fluid. Even the actuator housing is plastic and requires no failure-prone coatings or painting.

Modular Options
Several modular-design options are available. This concept is very cost effective because the actuator can be configured exactly for a specific application using only the options required. You never have to pay for options you do not need.

Features
- Position Indicator
- Double Stem Seals
- PVC & CPVC Are True Union Design
- PPL Has Spigot Connections
- Air-to-Spring Failsafe Operation
- Viton® or EPDM Seals
- Rated to 150 psi

Options
- Solenoid Valve
- Limit Switches
- Stroke Limiters
- Manual Override
- Double Acting - Air to Air Operation

Corzan® is a trademark of Noveon, Inc.
Viton® is a trademark of DuPont Dow Elastomers
Technical Information

Parts List
Pneumatically Actuated Diaphragm Valves

1. Actuator
2. Assembly Nut
3. End Connector
4. Body
5. O-Ring Seal
6. Diaphragm

Dimensions - Inches / Millimeters

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G - PPL</th>
<th>G - PVDF</th>
<th>Weight (lb / kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2 / 20*</td>
<td>0.59 / 15</td>
<td>2.25 / 57</td>
<td>5.79 / 147</td>
<td>5.87 / 149</td>
<td>3.15 / 80</td>
<td>4.88 / 124</td>
<td>0.840</td>
<td>20</td>
<td>3.1 / 1.4</td>
</tr>
<tr>
<td>3/4 / 25*</td>
<td>0.79 / 20</td>
<td>2.25 / 57</td>
<td>6.50 / 165</td>
<td>5.87 / 149</td>
<td>4.00 / 102</td>
<td>5.67 / 144</td>
<td>1.050</td>
<td>25</td>
<td>3.5 / 1.6</td>
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<td>1 / 32*</td>
<td>0.98 / 25</td>
<td>2.62 / 67</td>
<td>7.07 / 180</td>
<td>7.01 / 178</td>
<td>4.00 / 102</td>
<td>6.06 / 154</td>
<td>1.314</td>
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<td>4.9 / 2.2</td>
</tr>
<tr>
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<td>1.58 / 40</td>
<td>3.56 / 90</td>
<td>9.33 / 237</td>
<td>9.36 / 238</td>
<td>5.00 / 127</td>
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<td>N/A</td>
<td>N/A</td>
<td>13.0 / 5.9</td>
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<td>1.58 / 40</td>
<td>3.56 / 90</td>
<td>9.89 / 251</td>
<td>9.36 / 238</td>
<td>5.00 / 127</td>
<td>7.64 / 194</td>
<td>1.900</td>
<td>50</td>
<td>13.0 / 5.9</td>
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<tr>
<td>2 / 63*</td>
<td>1.97 / 50</td>
<td>4.00 / 102</td>
<td>11.15 / 283</td>
<td>11.15 / 283</td>
<td>6.03 / 153</td>
<td>8.82 / 224</td>
<td>2.375</td>
<td>63</td>
<td>17.5 / 7.9</td>
</tr>
</tbody>
</table>

* Metric End Connections Available in: BSP – Straight Thread, BSP TR – Tapered Thread and Metric Socket

Operating Temperature/Pressure

<table>
<thead>
<tr>
<th>Size</th>
<th>Value</th>
<th>Size</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>4</td>
<td>1-1/4&quot;</td>
<td>28</td>
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<tr>
<td>3/4&quot;</td>
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<td>32</td>
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<tr>
<td>1&quot;</td>
<td>12</td>
<td>2&quot;</td>
<td>47</td>
</tr>
</tbody>
</table>

Pressure Loss Calculation Formula

\[ \Delta P = \frac{Q}{Cv^2} \]

\( \Delta P = \) Pressure Drop
\( Q = \) Flow in GPM
\( Cv = \) Flow Coefficient

Actuator Specifications

- Air Pressure Minimum: 80 psi
- Air Pressure Maximum: 120 psi
- Air Port Connections: 1/4"
- Housing Material: Polyamid
- Seals: Nitrile
- Position Indicator: Visual

Selection Chart

<table>
<thead>
<tr>
<th>Size</th>
<th>Material</th>
<th>End Conn.</th>
<th>Diaphragm</th>
<th>Rating</th>
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</thead>
<tbody>
<tr>
<td>1/2&quot; - 2&quot;</td>
<td>PVC/CPVC</td>
<td>Socket/Threaded</td>
<td>Viton®, EPDM, PFTE</td>
<td>150 psi @ 70F non-shock</td>
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<tr>
<td>1/2&quot; - 2&quot;</td>
<td>PPL**</td>
<td>Spigot*</td>
<td>Viton®, EPDM</td>
<td></td>
</tr>
</tbody>
</table>

* Not True Union ** No 1-1/4" in PPL

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