

# ***Pneumatically Actuated Diaphragm Valves***

**1/2" to 2" - PVC, Corzan<sup>®</sup> CPVC, PPL**



## **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**

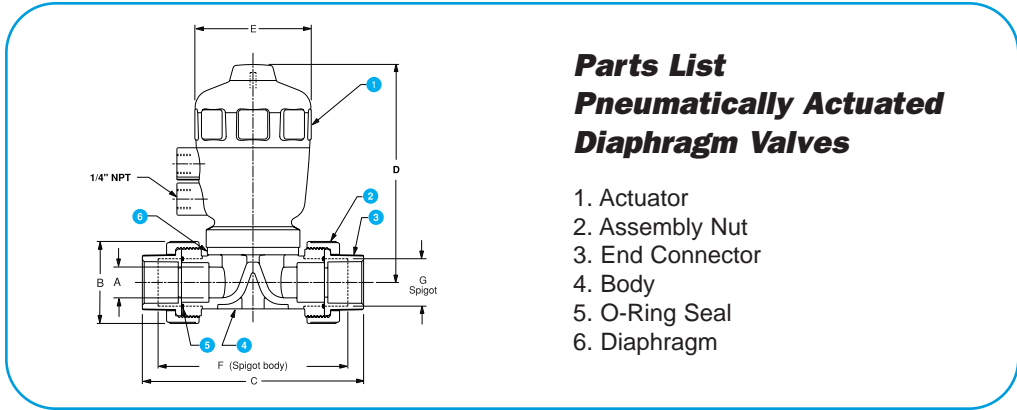
- Position Indicator
- Double Stem Seals
- PVC & CPVC Are True Union Design
- PPL Has Spigot Connections
- Air-to-Spring Failsafe Operation
- Viton<sup>®</sup> or EPDM Seals
- Rated to 150 psi

## **Options**

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

Corzan<sup>®</sup> is a trademark of Noveon, Inc.  
Viton<sup>®</sup> is a trademark of DuPont Dow Elastomers

# Technical Information



## Parts List Pneumatically Actuated Diaphragm Valves

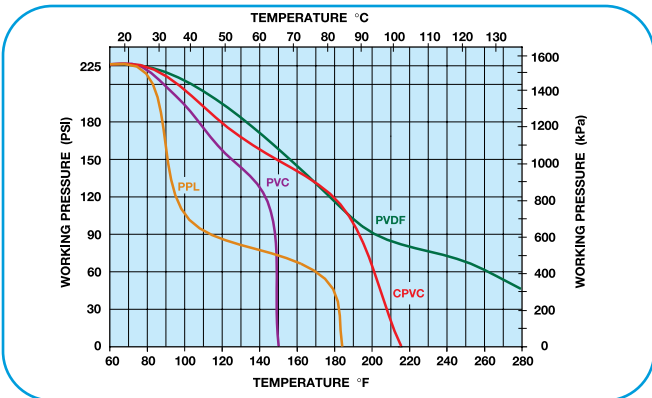
1. Actuator
2. Assembly Nut
3. End Connector
4. Body
5. O-Ring Seal
6. Diaphragm

## Dimensions - Inches / Millimeters

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

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

## Operating Temperature/Pressure



Note: Maximum operating pressure with standard pneumatic operator is 150 psi.

## Cv Factors

Size	Value	Size	Value
1/2"	4	1-1/4"	28
3/4"	7	1-1/2"	32
1"	12	2"	47

### Pressure Loss Calculation Formula

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

$\Delta P$  = 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

Size	Material	End Conn.	Diaphragm	Rating
1/2" - 2"	PVC/CPVC	Socket/Threaded	Viton®, EPDM, PFTE	150 psi @ 70F non-shock
1/2" - 2"	PPL**	Spigot*	Viton®, EPDM	

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



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