

New! Teflon® Diaphragm Relief, By-Pass, Back Pressure, Anti-Siphon Valves...

for Smooth, Sensitive Operation and the Ultimate in Corrosion Resistance... with No Wetted Elastomers!



Features:

- One valve design functions as a relief valve, by-pass valve, back-pressure valve and anti-siphon valve.
- *Relief*: protects systems and equipment from over-pressure/ pressure surges.
- *By-Pass*: prevents pumps from "dead heading".
- *Back-Pressure*: maintains necessary reverse pressure in closed loop systems.
- *Anti-Siphon*: prevents unwanted chemical siphoning, if city water pressure drops to zero, and changes in elevation create negative pressure.
- Unique Teflon Diaphragm is excellent for use with highly aggressive liquids... and also provides the ultimate in contamination-free sealing.
- Rugged thermoplastic construction is ideal for a broad range of industrial applications.
- Large diaphragm area delivers more sensitivity and less pressure drop under flow conditions.
- Patented "Fail-Dry" safety feature provides visual warning of seal malfunction and permits the valve to continue operation until a scheduled maintenance can be planned thereby avoiding a costly shutdown.
- Non-leaching feature of Teflon makes it also ideal for use with ultra-pure water and concentrated enchansts, as in the semiconductor industry.
- Available in 1/4", 1/2", 3/4", 1", 1 1/2" & 2" sizes. Others on request.

Materials Of Construction:

Series RVDT relief valves are available in PVC, Polypropylene, PVDF (Kynar and Teflon® body materials). The wetted diaphragm is Teflon energized by a non-wetted Viton® diaphragm. Springs (not in wetted area) are zinc-plated steel, fasteners are stainless steel and adjusting screw is high-density polyethylene.

PLAST-O-MATIC VALVES, INC.

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DESIGN:

Series RVDI in-line pressure relief valves feature a wetted flat Teflon diaphragm to resist both chemical attack and salt crystallization problems. A large active diaphragm area provides for smooth, chatter-free operation. Relief setting is infinitely adjustable from 5 PSI to 100,PSI. Series RVDT is available in 1/4", 1/2", 3/4", 1", 1 1/2" and 2" pipe sizes.

SIZING:

To determine the proper size relief valve required, it is necessary to know how many gallons per minute of liquid must pass through the valve and the allowable pressures to achieve that flow. Keep in mind that the relief valves open gradually as they build up to the maximum flow rates depending on the amount of overpressure present. The next step is to consult the flow reference chart. The chart recommends the maximum flow to be used with each valve size and the overpressure required to reach that flow. Overpressure is the amount of pressure needed beyond the set pressure.

SERIES RVDT FLOW REFERENCE CHART:

PIPE SIZE	OVERPRESSURE TO REACH INDICATED MAXIMUM FLOW RATE	
	OVERPRESSURE	MAXIMUM FLOW RATE
1/4	.5 GPM – 5 PSI	1 GPM – 8 PSI
1/2	2 GPM – 8 PSI	4 GPM – 12 PSI
3/4	5 GPM – 9 PSI	8 GPM – 12 PSI
1	9 GPM – 9 PSI	15 GPM – 12 PSI
1 1/2	25 GPM – 9 PSI	50 GPM – 16 PSI
2	40 GPM – 10 PSI	75 GPM – 20 PSI

INSTALLATION:

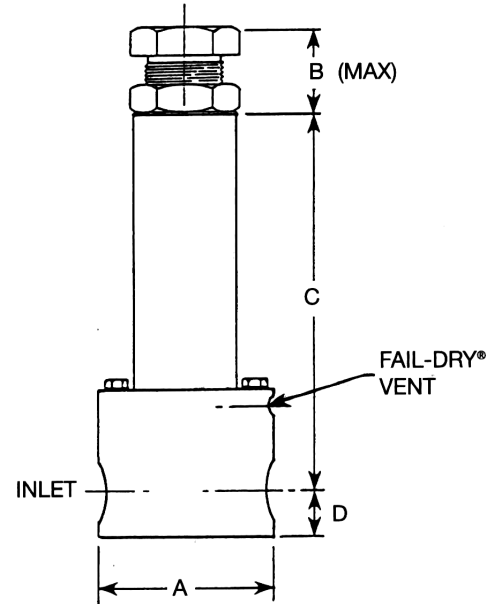
Several control springs are supplied so that the user can select the spring having the proper pressure range in order to set the valve at the desired relief setting.

Before installing the valve in the line, follow the procedure for setting the relief pressure as recommended in the instruction sheet supplied with the valve.

The relief valve can be mounted in any position but should be installed as near as possible to the line or equipment being protected.

All threaded connections should have an acceptable pipe sealant to effect a good seal. Use care with Teflon tape so that it does not hang off in the valve seat area and cause a leak. The assembly need only be made hand tight followed by a one-quarter turn with a strap wrench. Do not over-tighten or breakage will result. Never use pipe wrenches or metal pipe nipples that could cut into the plastic and cause a fracture.

DIMENSIONS:



Pipe Size NPT	Series RVDT Dimensions							
	A		B		C		D	
	In.	mm	In.	mm	In.	mm	In.	mm
1/4	2.0	50	1.38	35	4.30	109	.470	11
1/2	2.5	63	1.48	37	4.41	112	.687	17
3/4	3.0	76	2.81	71	5.39	137	.780	19
1	3.5	89	3.00	76	7.65	194	1.187	30
1 1/2	5.0	127	3.50	89	7.00	178	1.500	38
2	6.0	153	2.80	71	8.13	207	1.750	45

Series RVDT Model Numbers:

Pipe Size	PVC	Polypro (natural)
1/4	RVDT025V-PV	RVDT025V-PP
1/2	RVDT050V-PV	RVDT050V-PP
3/4	RVDT075V-PV	RVDT075V-PP
1	RVDT100V-PV	RVDT100V-PP
1 1/2	RVDT150V-PV	RVDT150V-PP
2	RVDT200V-PV	RVDT200V-PP

Pipe Size	PVDF	Teflon
1/4	RVDT025V-PF	RVDT025V-TF
1/2	RVDT050V-PF	RVDT050V-TF
3/4	RVDT075V-PF	RVDT075V-TF
1	RVDT100V-PF	RVDT100V-TF
1 1/2	RVDT150V-PF	Consult for availability
2	RVDT200V-PF	

Authorized Plast-O-Matic Distributor

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