

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 etchants, 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.



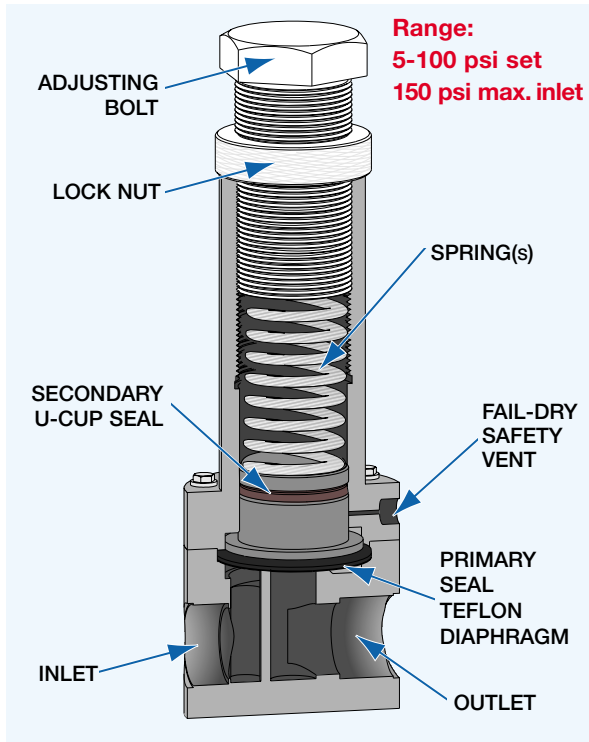
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SERIES RVDT • Teflon® Diaphragm Design



the ultimate in corrosion resistance
with no wetted metals or elastomers!

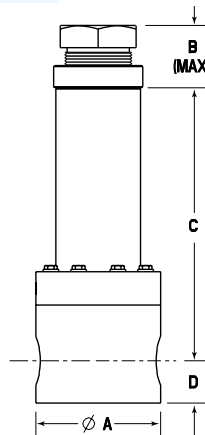


Features:

- One valve design functions as a relief valve, by-pass valve, back-pressure valve and anti-siphon valve.
- Teflon diaphragm – no wetted metal or elastomeric parts.
- 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.
- Non-leaching feature of Teflon makes it ideal for use with ultra-pure water and concentrated etchants, as in the semiconductor industry.
- Available in 1/4", 1/2", 3/4", 1", 1 1/2" and 2" sizes.

Design:

Series RVDT 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. Maximum inlet pressure 150 psi. Series RVDT is available in 1/4", 1/2", 3/4", 1", 1 1/2" and 2" pipe sizes.



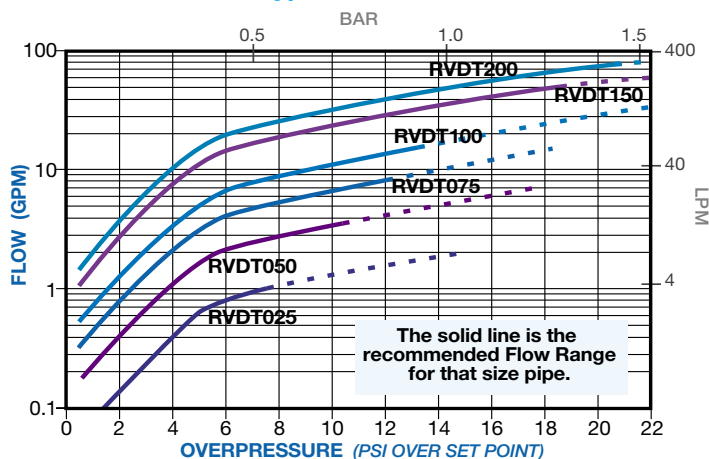
Materials of Construction:

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 plated steel and fasteners are stainless steel. Standard spring housing is PVC, and adjusting screw is high-density polyethylene.

Series RVDT Dimensions

PIPE SIZE NPT	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	83	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 Typical Flow Characteristic



Series RVDT Model Numbers

PIPE SIZE	PVC Model No.	POLYPRO* Model No.	PVDF Model No.	TEFLON Model No.
1/4	RVDT025V-PV	RVDT025V-PP	RVDT025V-PF	RVDT025V-TF
1/2	RVDT050V-PV	RVDT050V-PP	RVDT050V-PF	RVDT050V-TF
3/4	RVDT075V-PV	RVDT075V-PP	RVDT075V-PF	RVDT075V-TF
1	RVDT100V-PV	RVDT100V-PP	RVDT100V-PF	RVDT100V-TF
1 1/2	RVDT150V-PV	RVDT150V-PP	RVDT150V-PF	Consult Factory
2	RVDT200V-PV	RVDT200V-PP	RVDT200V-PF	

*Natural Polypropylene