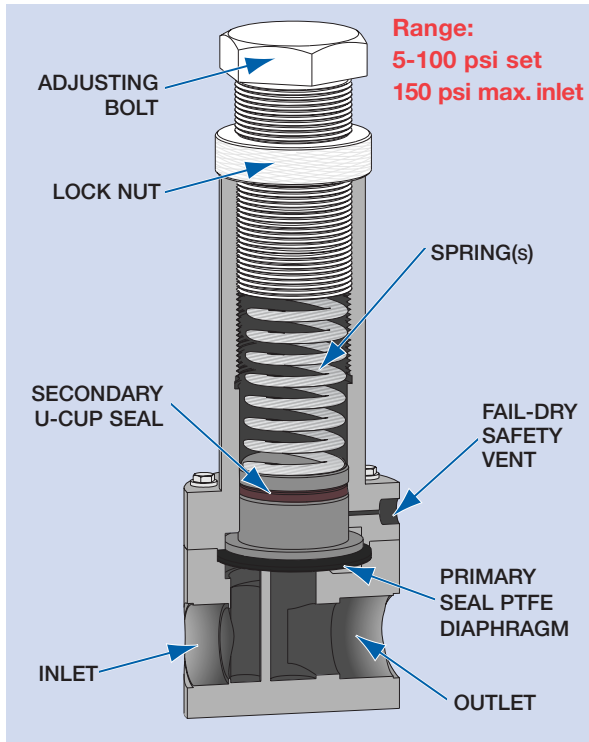


SERIES RVDT • PTFE Diaphragm Design



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

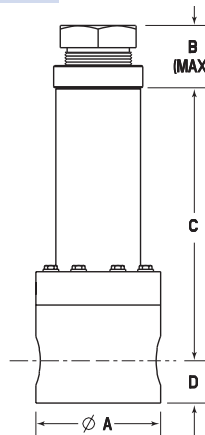


Features:

- One valve design functions as a relief valve, by-pass valve, back-pressure valve and anti-siphon valve.
- PTFE diaphragm – no wetted metal or elastomeric parts.
- Unique PTFE 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 PTFE 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 PTFE 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.



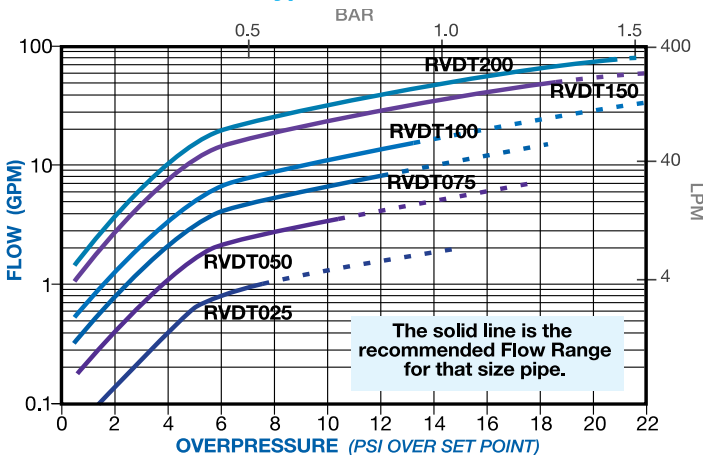
Materials of Construction:

Series RVDT relief valves are available in PVC, Polypropylene, PVDF (Kynar®) and PTFE body materials. The wetted diaphragm is PTFE energized by a non-wetted FKM (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 or stainless steel.

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.	PTFE Model No.	CPVC Model No.
1/4	RVDT025T-PV	RVDT025T-PP	RVDT025T-PF	RVDT025T-TF	RVDT025T-CP
1/2	RVDT050T-PV	RVDT050T-PP	RVDT050T-PF	RVDT050T-TF	RVDT050T-CP
3/4	RVDT075T-PV	RVDT075T-PP	RVDT075T-PF	RVDT075T-TF	RVDT075T-CP
1	RVDT100T-PV	RVDT100T-PP	RVDT100T-PF	RVDT100T-TF	RVDT100T-CP
1 1/2	RVDT150T-PV	RVDT150T-PP	RVDT150T-PF	Consult Factory	RVDT150T-CP
2	RVDT200T-PV	RVDT200T-PP	RVDT200T-PF		RVDT200T-CP

*Natural Polypropylene