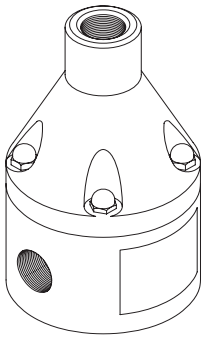
Information Sheet

Back Pressure / Anti-Syphon Valves

LMI's back pressure / anti-syphon valves apply positive discharge pressure to a metering pump system to prevent syphoning and eliminate varying dosage rates caused by fluctuating downstream pressure.

Features:

- High Reliability / Low Cost
- Robust, Machined Construction
- Vulcanized PTFE-faced Diaphragm
- Non-Chatter Design



Wetted Materials:

- PVC
- Polypropylene
- PVDF
- 316 S.S.

Back Pressure Relief/Anti-Syphon Valve		
Part No.	Size	Material
35637	1/4"	PVC
35638	1/4"	PP
35846	1/4"	PVDF
35847	1/4"	S.S.
35641	1/2"	PVC
35642	1/2"	PP
35850	1/2"	PVDF
35851	1/2"	S.S.
35856	1"	PVC
35857	1"	PP
35858	1"	PVDF
35859	1"	S.S.

Technical Data:

Pressure Adjustment:
0 to 150 psi (10.3 Bar) - one spring

Temperature:

PVC, PP and PVDF.....140°F Max (60° C Max)
316 S.S. ..... 300°F Max (149° C Max)

Max. Flow Rates:

Pulsating Flow		Continuous Flow	
1/4 NPT	100 GPH (378 l/h)	1/4 NPT	300 GPH (1135 l/h)
1/2 NPT	300 GPH (1135 l/h)	1/2 NPT	1260 GPH (4769 l/h)
1 NPT	500 GPH (1892 l/h)	1 NPT	1560 GPH (5904 l/h)

Operation:

The diaphragm of the valve is held against the valve seat by an internal spring. When the preset pressure is exceeded, the diaphragm is forced open and solution flows through the valve to the injection point. The valves are preset for 50 psi (3.5 Bar), however, they are field adjustable from 0 to 150 psi (10.3 Bar). Installation should be as close to the injection point as possible to prevent line drainage. It is most important that all other system equipment such as pulsation dampeners and pressure gauges are between the pump and back pressure valve.

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Replaces same of Rev. B 4/99
and 1799.A 10/97
1800.C 7/02

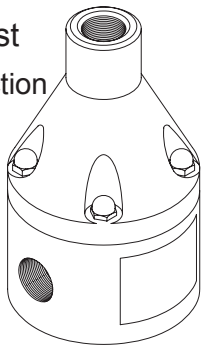
Informtion Sheet

Pressure Relief Valves

LMI's diaphragm pressure relief valves are designed to protect chemical feed systems from over pressure damage caused by defective equipment or a blockage in the chemical feed line. Robust construction ensures long service life.

Features:

- High Reliability / Low Cost
- Robust, Machined Construction
- Vulcanized PTFE-faced Diaphragm
- Non-Chatter Design
- Ventable to Suction Line



Wetted Materials:

- PVC
- Polypropylene
- PVDF
- 316 S.S.

Pressure Relief Valve		
Part No.	Size	Material
35635	1/4"	PVC
35636	1/4"	PP
35844	1/4"	PVDF
35845	1/4"	S.S.
35639	1/2"	PVC
35640	1/2"	PP
35848	1/2"	PVDF
35849	1/2"	S.S.
35852	1"	PVC
35853	1"	PP
35854	1"	PVDF
35855	1"	S.S.

Technical Data:

Pressure Adjustment:
0 to 150 psi (10.3 Bar) - one spring

Temperature:

PVC, PP and PVDF .....140°F Max (60° C Max)
316 S.S. ..... 300°F Max (149° C Max)

Max. Flow Rates:

Pulsating Flow		Continuous Flow	
1/4 NPT	100 GPH (378 l/h)	1/4 NPT	300 GPH (1135 l/h)
1/2 NPT	300 GPH (1135 l/h)	1/2 NPT	1260 GPH (4769 l/h)
1 NPT	500 GPH (1892 l/h)	1 NPT	1560 GPH (5904 l/h)

Operation:

LMI's pressure relief valves open when the pressure in your system exceeds the preset pressure of the valve. The diaphragm is held against the valve seat by an internal spring. When the preset pressure is exceeded, the diaphragm is forced open and the solution flows out the relief port, back to the supply tank or to the suction side of the pump. The valves are preset for 50 psi (3.5 Bar), however they are field adjustable from 0 - 150 psi (10.3 Bar).The relief valve should be set approximately 15 psi (1 Bar) higher than the system pressure. Installation should be made as close to the pump as possible, without any valves or accessories between the relief valve and the pump. Consult your pump manufacturer for recommendations.