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.

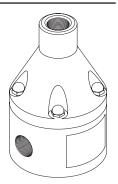
Wetted Materials:

- •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/_" | PVC | | | |
| 35642 | 1/_" | PP | | | |
| 35850 | 1/_" | PVDF | | | |
| 35851 | 1/2" | S.S. | | | |
| 35856 | 1" | PVC | | | |
| 35857 | 1" | PP | | | |
| 35858 | 1" | PVDF | | | |
| 35859 | 1" | S.S. | | | |

Features:

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



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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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.

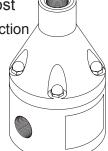
Wetted Materials:

- •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/_" | PVC | | | |
| 35640 | 1/_" | PP | | | |
| 35848 | 1/_" | PVDF | | | |
| 35849 | 1/2" | S.S. | | | |
| 35852 | 1" | PVC | | | |
| 35853 | 1" | PP | | | |
| 35854 | 1" | PVDF | | | |
| 35855 | 1" | S.S. | | | |

Features:

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



Technical Data:

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

Temperature:

PVC, PP and PVDF140°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.