

# Information Sheet

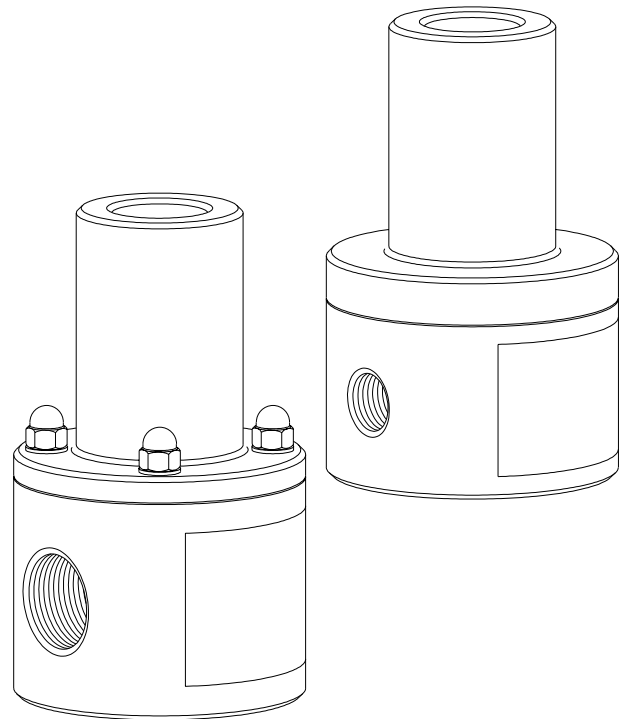
## Pressure Relief Valves



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.

*Wetted Materials:*

*PVC, PP, PVDF, and 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.

### Features:

- High Reliability / Low Cost
- Robust, Machined Construction
- Vulcanized PTFE-faced Diaphragm
- Externally Adjustable 0 - 150 psi (10.3 Bar)
- Ventable to Suction Line
- Non-Chatter Design

<p><b>LMI</b> LIQUID METRONICS DIVISION <b>MILTON ROY</b> A unit of Sundstrand Corporation</p>	<p>8 Post Office Square Acton, MA 01720 USA TEL: (978) 263-9800 FAX: (978) 264-9172 <a href="http://www.lmipumps.com">http://www.lmipumps.com</a></p>
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## Operation

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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.

## Technical Data

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**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	100 GPH	(378 l/h)	1/2 NPT	300 GPH	(1135 l/h)
1 NPT	500 GPH	(1892 l/h)	1 NPT	1560 GPH	(5904 l/h)