

# High Efficiency

Pilot operated safety valves  
according to API 526 definition - and beyond

- LESER again expands pressure range for pilot operated safety valves
- API 526 compliant pressure range 36 - 6,170 psig / 2.5 - 426 bar
- Configurations beyond API for application requirements
- Delivery time: 4 weeks ex works for standard configurations



Process plants, for example in the chemical or oil and gas industries, require a broad range of safety valves for various pressures, temperatures, operating conditions and media. The pilot operated safety valve from LESER makes applications with up to 70% backpressure or high tightness requirements up to set pressure possible.

With the Remote Sensing option, it is also suitable for applications with high inlet pressure loss.

With the Series 820 High Efficiency pilot operated safety valve (POSV) for pressures from 3,705 up to 6,170 psig / 256 up to 426 bar, LESER has again expanded the possible applications of its safety valves.

Pilot operated safety valves from LESER offer high capacities and often enable smaller nominal diameters compared to spring-loaded safety valves.

## New products and options

- Pressure ratings according to API 526 class 150 x 150 up to 2500 x 600 available
- Pressure ratings beyond API class 300 x 300, 600 x 300, 1500 x 600 and 2500 x 600, as required by the petrochemical industry
- Stellite disc for high pressures and high temperatures available
- Full nozzle version available for corrosive media
- Selection of the best sealing concept depending on pressure, size and temperature: metal sealing, sealing plates and soft seals (O-rings) provide a high degree of valve tightness and durability at all pressure ranges and under all conditions
- Seals resistant to explosive decompression (ED) available
- Sealing plate in PEEK or PTFE

See overleaf for full product range and LESER advantages.

# LESER

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# High Efficiency

Pilot operated safety valves

Type 811 – Pop Action · Type 821 – Modulate Action



Type 811

## Advantages

- Piping between the pilot and main valves is integrated into the cover to prevent damage and freezing
- Integrated Backflow Preventer as standard part
- Four week delivery time ex works
- Higher capacity than comparable size with Extra Orifices up to class 600
- Up to 20% less installation space than competitors' comparable models

## Technical specifications

Nominal Diameter at Inlet	DN 25 - DN 200   1" - 8"
Orifice	1 D 2 to 8 T+ 10
Actual Orifice Diameter	d <sub>0</sub> 11 mm - 180 mm   0.433 in - 7.087 in
Actual Orifice Area A <sub>0</sub>	95 mm <sup>2</sup> - 25,447 mm <sup>2</sup>   0.147 in <sup>2</sup> - 39.443 in <sup>2</sup>
Pressure	2.5 bar - 426 bar   36 psig - 6,170 psig
Temperature (acc. to DIN EN/ASME)	-48 °C to 200 °C   -54°F to 392°F
Body Material	1.0619, 1.4408   SA 352 LCB, SA 216 WCB, SA 351 CF8M
Valve Connection	Flange in accordance with DIN EN 1092, ASME B 16.5 or JIS 2220
Load Type	Medium Controlled

## Extended product program

Extended product program according to API 526 and additional flange ranges

Valve size	1" x 2"				1 1/2" x 2"				1 1/2" x 3"				2" x 3"				3" x 4"				4" x 6"				6" x 8"		8" x 10"		
	D	E	F		D	E	F		G	H			G	H	J		J	K	L		L	M	N	P		Q	R		T
Extra Orifice				G				H				J				K+				N+				P+				R+	T+
150 x 150																													
300 x 150																													
300 x 300																													
600 x 150																													
600 x 300																													
900 x 300																													
1500 x 300																													
1500 x 600																													
2500 x 300																													
2500 x 600																													

■ available

## Industries

- Oil and Gas Industry
- Chemical Industry
- Petrochemical Industry
- Power
- Technical Gases

## Approvals



For further approvals, please see [www.leser.com](http://www.leser.com)

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