

# Technical Gases

## LESER Industry Solution

LESER provides safety valves for transportation, storage and processing of technical gases. LESER safety valves are important for the safety of personnel and equipment. As a full range supplier LESER provides safety valves for all industrial applications.

Safety valves provide overpressure protection e.g. for:

- Air separation plants in case of an unexpected malfunction
- Piping systems against thermal expansion
- Cylinder filling stations and compressors in case of failure
- Vessels and other process equipment



## Customers

- Alfa Laval
- Air Liquide
- Air Products
- Cepsa
- Enagás
- Gardner Denver
- Linde
- Petrobras
- Praxair

## LESER Product Solution

### Pilot Operated Safety Valve



#### Product Features

- Valve sizes from 1" through 8", orifice D through T
- Materials: WCB, LCB, CF8M
- Pop action and modulate action design
- Temperature: -49 °F to + 329 °F
- Single trim for steam, gas and liquid
- Set pressure from 36 psig to 1,480 psig (ASME)

#### Benefits

- Less parts and less leakage possibilities due to direct connection between pilot and main valve
- Backflow preventer is included for superior back pressure performance
- Shorter blowdown for better operation and less product loss (pop action)
- Higher capacity in smaller valve size with extra orifice (full bore) design
- Support brackets for easy handling and installation



Series 810 / 820

### Compact Performance



#### Product Features

- Valve sizes from 1/2" through 1 1/2"
- Materials: WCB, CF8M, 316L specials
- Threaded or flanged connections
- Standard metal seat, stellite, O-ring or sealing plate for improved seat tightness
- Optional bellows design available
- Temperature: -450 °F to + 1,000 °F
- Single trim for steam, gas and liquid
- Set pressure from 1.5 psig to 12,325 psig

#### Benefits

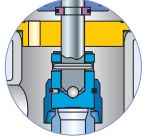

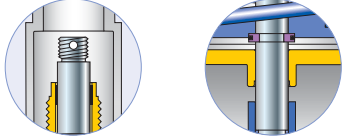
- Great variety of threaded and flanged connections for high flexibility
- High capacity relative to the safety valve size for maximised efficiency
- Bellows design for back pressure and corrosive applications
- Vulcanized and sealing plate seating options to meet application requirements
- Self draining body for less corrosion






Series 437

Series 459

# Advantages

Feature	Single Trim	Pilot Valve Design	Guided Spindle
			
<b>Benefit</b>	<ul style="list-style-type: none"> <li>• Same parts for all services for easier maintenance</li> <li>• No changes for ASME, PED or AQSIQ (Compact Performance) approval</li> <li>• Less parts reduce spare part stock</li> </ul>	<ul style="list-style-type: none"> <li>• Pilot directly connected with main valve</li> <li>• Tubing integrated in the cover</li> <li>• Backflow preventer as standard</li> </ul>	<ul style="list-style-type: none"> <li>• Better guiding / less friction equals less galling</li> <li>• Better alignment</li> <li>• Easier assembly for maintenance</li> </ul>

Feature	Broad Product Range	Pricing / Documentation	Made in Germany; Assembled Locally
			
<b>Benefit</b>	<ul style="list-style-type: none"> <li>• Solutions for all industrial applications for steam, gas and liquid</li> <li>• Facilitates coordinated planning, delivery and sizing from one source</li> <li>• Highest flexibility for implementing special solutions</li> </ul>	<ul style="list-style-type: none"> <li>• Price book published for use in estimating</li> <li>• Certificates, 2D and 3D images available online</li> <li>• Online documentation available for new and older purchases</li> </ul>	<ul style="list-style-type: none"> <li>• All products exclusively made in Germany</li> <li>• Large local stock in the USA for one week delivery or less (Compact Performance)</li> <li>• In cases of an emergency same day delivery possible</li> </ul>

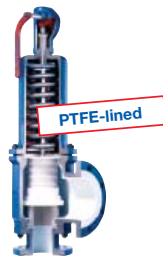
# Additional Products



**High Performance**



**API**



**Critical Service**



**Clean Service**



**Best Availability Change-over Valve**

441, 458, XXL	526	447	48x	310, 311 XXL
1" to 16"	1" to 8"	1" to 4"	1" to 4"	1" to 20"
1.5 to 4,350 psig	7.25 to 6,000 psig	1.45 to 232 psig	1.5 to 986 psig	

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# Worldwide Approvals

Europe	ISO 4126-1 / -4
Germany	AD 2000-Merkblatt A2
United States	ASME Sec. VIII Div. 1
Canada	CRN
China	AQSIQ
Russia	GGTN / GOSGOTECHNADZOR / GOST R

