

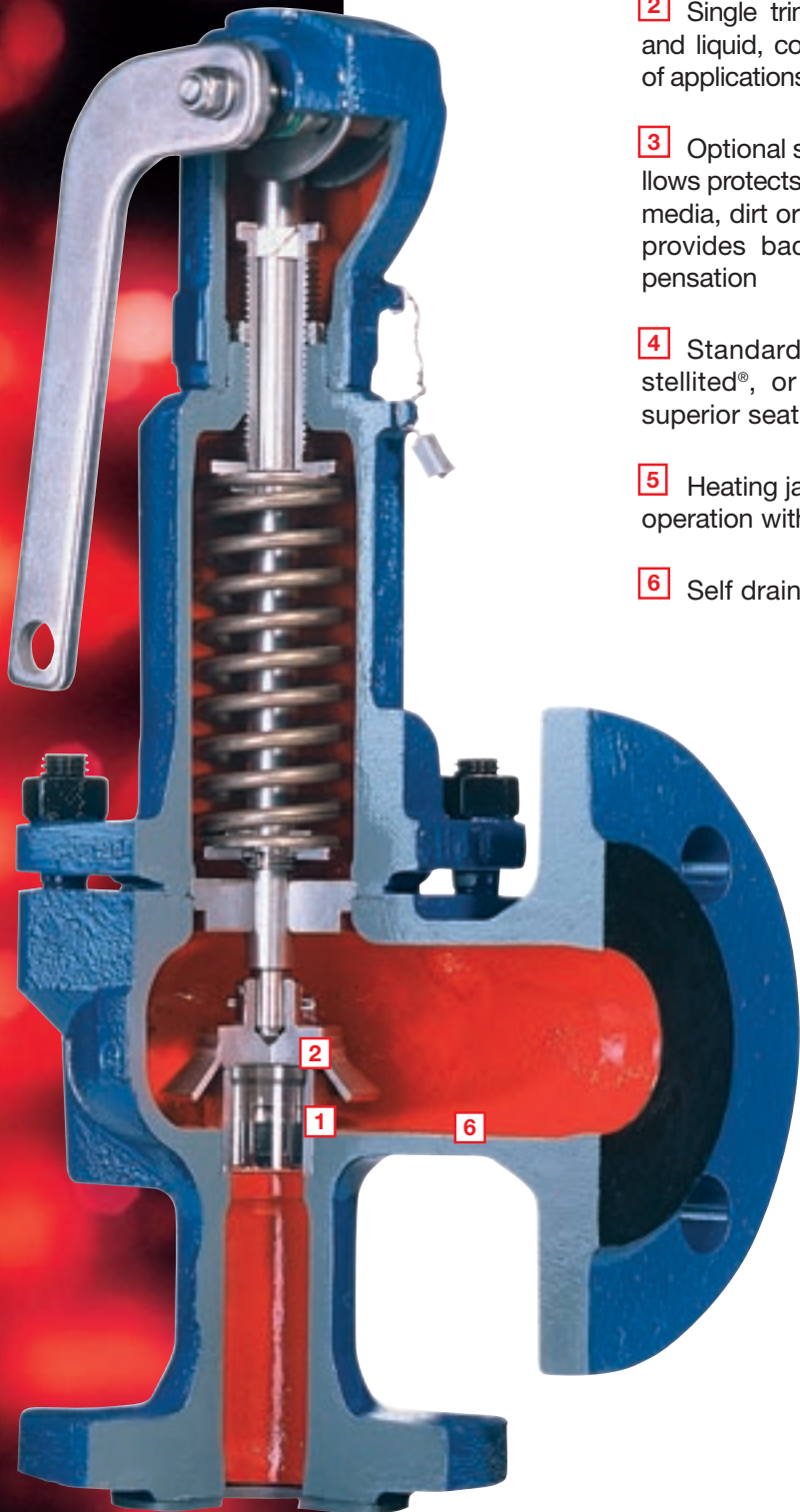


High performance

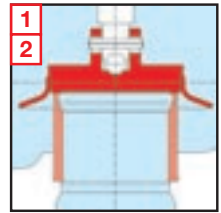
Flanged Safety Valves,
series 441/442 and 441 XXL

LESER

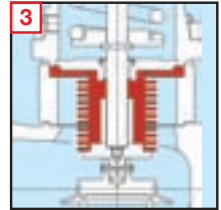
The Safety Valve



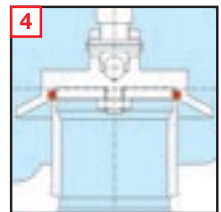
1 Ringless design: no adjustments needed



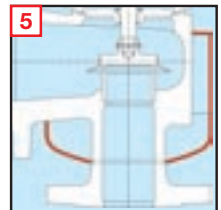
2 Single trim for steam, gas and liquid, covers broad range of applications (ASME, Sec. VIII)



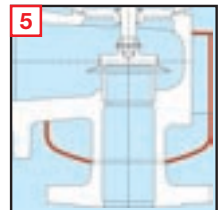
3 Optional stainless steel bellows protects against corrosive media, dirt or temperature and provides backpressure compensation



4 Standard metal sealing, stellited®, or O-ring disc for superior seat tightness

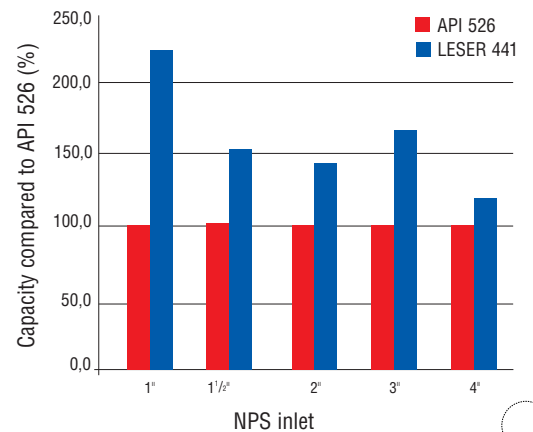


5 Heating jacket available for operation with special media



6 Self draining body

7 Higher capacity compared to API standard



Capacity comparison
LESER Type 441 – API 526 Standard steam/gas

The ultimate solution for high performance and multi-purpose

LESER's high performance valves are spring loaded full lift safety valves with specially broad application range, developed in close cooperation with plant engineers and service specialists to protect processes and equipment against inadmissible overpressure.

LESER's high performance valves are designed and manufactured to highest standards, compliant with and approved according to ASME (Sec. VIII, Div. 1), the Canadian CRN, the European PED standard (CE), the German AD 2000-A2 and those of many other countries, covering requirements from end-users, OEM's and engineering companies worldwide.

LESER's high performance valves present the ultimate solution for industrial applications with steam, gas and liquid, such as

- Heat exchanger
- Chemical equipment and piping
- Vessels and piping systems
- Columns and equipment
- General steam installations
- Compressors and pumps

High performance

- Higher capacity compared to API requirements
- Ringless design, no adjustments
- Heating jacket available

Multi-purpose

- Variety of types, materials and options to fit any application
- One setting for steam, gas and liquid (ASME)
- Standard metal sealing, stellited, or O-ring disc
- Optional stainless steel bellows
- Open or closed bonnet, with packed or plain lifting lever or gastight cap
- Class 150# or 300#, carbon steel or stainless steel available
- Flanged connections according to ANSI or DIN

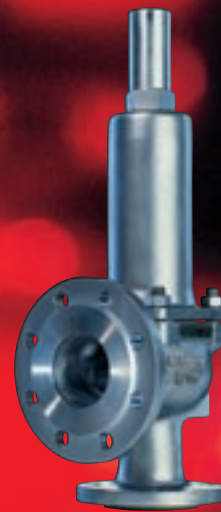
Ease of plant design, installation, operation and maintenance

- Ringless design for minimum parts count
- Single trim for steam, gas and liquid
- Replaceable disc

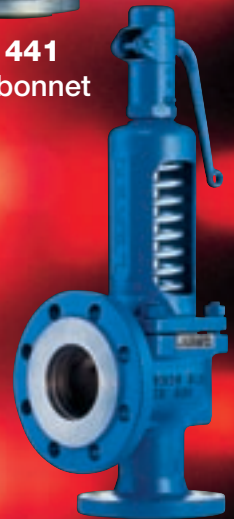
Manufacturer's reliability

- Almost 200 years of experience
- Hundreds of approvals and certifications all over the world
- Extensive worldwide installed base in various industries

Type	Size (inch)		Orifice in ²	Set pressure max.		Body material	Design features
	Inlet	Outlet		(psig)	(bar)		
441	1" - 8"	1 1/2" - 12"	G-T 0,39-33,2	580	40	Carbon steel, stainless steel, nodular and cast iron	Cast body, closed bonnet, semi-nozzle
442	1" - 8"	1 1/2" - 12"	G-T 0,39-33,2	580	40	Carbon steel, stainless steel, nodular and cast iron	Cast body, open bonnet, semi-nozzle
441 XXL	8" - 16"	12" - 20"	>T 33,2-106,1	362	25	Carbon steel, stainless steel	Fabricated design, closed bonnet, full nozzle



Type 441
closed bonnet



Type 442
open bonnet



Type 441 XXL
valve size $\geq 8''$