

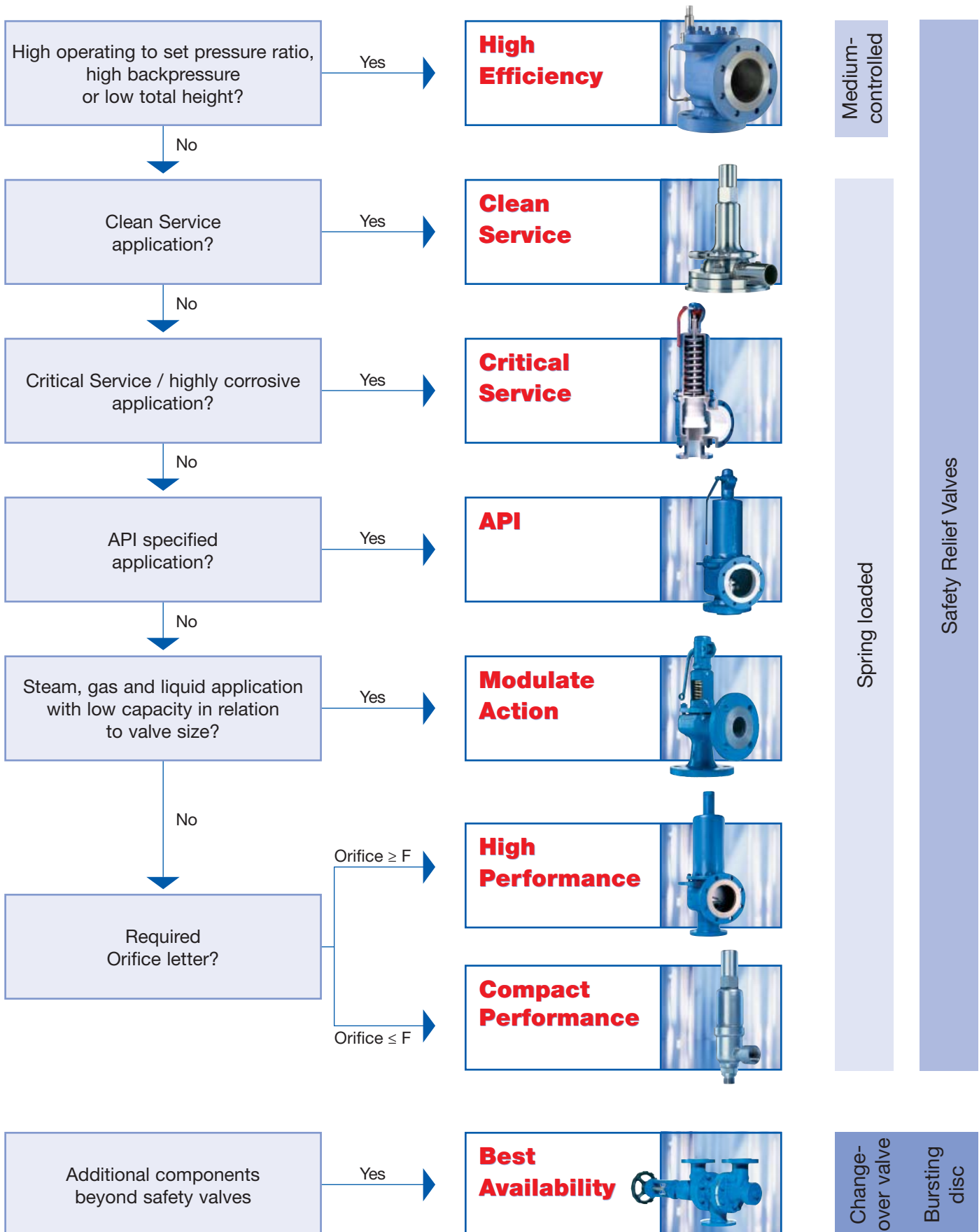
# LESER at a glance



**LESER**

[The-Safety-Valve.com](http://The-Safety-Valve.com)

## Product Group



## Process and General Industrial Safety Valves



Type 526

### API

meets all requirements of the API 526 norm and includes the entire orifice D to T product range.

#### Series 526

##### Applications

- Refineries
- Chemical industry
- Petrochemical industry
- Oil and gas – Onshore and Offshore

##### Product features

- Valve sizes 1" through 8", Orifice D through T
- Materials: WCB, CF8M, WC6, LCB, specials
- Design according to API 526
- Great variety of options and flanged connections available
- Standard metal sealing
- Single trim for steam, gas and liquid

## Compact Performance

has compact dimensions with a large performance range for its valve size.

#### Series 437, 459

##### Applications

- Thermal relief
- Air/gas compressors and pumps
- Technical gases and CO<sub>2</sub> plants
- LPG/LNG terminals, carriers etc.
- Chemical equipment and piping
- Cryogenic systems and oxygen applications

##### Product features

- Great variety of threaded or flanged connections
- Valve sizes from  $\frac{3}{8}$ " through  $1\frac{1}{2}$ "
- Broad set pressure range up to 800 bar / 11600 psig
- Wide range of materials and options to fit any application
- Stellite metal sealing for longer product life
- Soft seat for superior tightness
- Single trim for steam, gas and liquid



Type 437

Type 459

## High Performance

is especially used for protecting facilities where maximum discharge capacity needs to be reached quickly.

#### Series 441, XXL, 444, 441 Full nozzle, 458

##### Applications

- Heat exchanger
- Chemical equipment and piping
- General steam installations
- All industrial applications independent from the medium
- Air/gas compressors and pumps

##### Product features

- Great variety of types, materials and options to fit any application
- Valve sizes from DN 20 through DN 400, 1" through 16"
- Flange connections according to DIN EN, ASME and other
- High capacity compared to the API requirements
- Standard metal sealing
- Single trim for steam, gas and liquid



Type 441

## Specialties

### Clean Service

has the highest aseptic characteristics, has minimum dead space, and allows easy cleanability.



#### Series 48x

##### Applications

- Pharmaceutical industry
- Breweries
- Food and beverage industry
- Cosmetic industry

##### Product features

- Valve sizes DN 25 through DN 100, 1" through 4"
- Great variety of aseptic connections (e.g. clamps, flanges) and option to fit any application
- Materials: Stainless steel 316L, 1.4404, 1.4435 and specials
- Minimum dead leg design and flush-mounting capability
- Soft seat (FDA compliant elastomers) for superior tightness
- Gap and crevice free design of internals
- Elastomer bellows for protection of the hard to clean parts
- Surface grades according to ASME BPE-2002 and DIN 11866
- Single trim for steam, gas and liquid

### Critical Service

offers solutions for protection from highly corrosive and toxic mediums.

#### Series 447, **PTFE-lined** 546, 449

##### Applications

- Corrosive or aggressive chemicals
- Chemical equipment and piping
- Chlorine manufacture and processing
- Reducing acids (e.g. hydrochloric acid, acetic acid)
- Alkalis or caustic service
- MDI systems

##### Product features

- Valve sizes DN 25 through DN 100, 1" through 4"
- Flange connections according to DIN EN, ASME and other
- Body is resistant against most chemicals by special coating
- PTFE lining or special metals
- A PTFE or metal bellows protects the bonnet area against product influences
- Smooth inside surface avoid adherence of corrosive matters
- Single trim for gas and liquid



Type 447

### Modulate Action

offers solutions for applications with normal and /or proportional opening characteristics (e.g. thermal expansion).



Type 429

#### Series 429, 433

##### Applications

- Thermal expansion
- Reciprocating compressors and plants with pulsating operating pressure
- Heat transfer oil systems
- Protection of liquids
- Overflow operation
- Mechanical engineering (OEM)

##### Product features

- Great variety materials and options to fit any application
- Valve sizes DN 15 through DN 150, 1/2" through 6"
- Flange connections according to DIN EN, ASME and other
- Low overall height and low weight
- One connection size for inlet and outlets
- Single trim for gas and liquid