High performance

Flanged Safety Valves,
series 441/442 and 441 XXL
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

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**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

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (inch)</th>
<th>Orifice in²</th>
<th>Set pressure max. (psig)</th>
<th>Body material</th>
<th>Design features</th>
</tr>
</thead>
<tbody>
<tr>
<td>441</td>
<td>1&quot; - 8&quot;</td>
<td>1 1/16 - 12&quot;</td>
<td>G-T 0.39-33.2</td>
<td>580</td>
<td>Carbon steel, stainless steel, nodular and cast iron</td>
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<td>G-T 33.2-106,1</td>
<td>362</td>
<td>Carbon steel, stainless steel</td>
</tr>
</tbody>
</table>

Type 441 XXL valve size ≥ 8"