Type KVF
Quick-Closing Valve for Gaseous Media
Electro-Pneumatic Operated

APPLICATION AREA

> Gas firing systems on steam boilers
  acc. to DIN EN12952/12953
> Industrial thermoprocessing equipment
  acc. to DIN EN 746
> Pipe systems for fluids and liquid media for all
  industrial sectors

ADVANTAGE

> Closing time < 1 sec
> High safety level through zero leakage
> Heavy duty design for high operating cycles
> High performance valve design for long service
  life
**APPLICATION**

- Automatic operated emergency shutdown device
- In gas pipes in front of burner acc. to DIN EN 12952/12953
- Safety and control device for gas burner
- Automatic shut-off valves in piping systems

**TECHNICAL DATA**

- Single-seated straight-through globe valve acc. to DIN/EN standard
- Stem sealing acc. to TA-Luft, stainless steel bellow with additional lip seal and connection for tightness test
- Exchangeable plug gasket made of PTFE
- Maintenance-free guide bushing
- Additional sealing force generated through primary pressure loaded onto the valve plug
- Piston actuator with integrated closing spring

**CERTIFICATES**

EC-Type examination (Modul B)
acc. to directive 2014/68/EU
EC-Type examination certificate
with product-identnumber acc. to gas appliance directive 2009/142/EC
based on:
DIN EN 13611 / DIN EN 161 / DIN EN 16678
Certificate:
- TA-Luft DIN EN ISO 15848-1
  VDI 2440
- SIL2 / EN 61508
- Fire-safe DIN EN ISO 10497 / API 607 and API 6FA

**OPERATING DATA**

- Media:
  - Gaseous fuels acc. to PED 2014/68/EU
  - Fuels acc. to G260; gas group 1., 2. and 3
  - Other gaseous media
- Operating pressure: Max. 20 bar g
- Operating temperature: -29 to 200 °C
- Ambient temperature: -29 to 80 °C
- Control medium: Compressed air at 4-8 bar g
- Air quality: acc. to DIN ISO 8573-1
- Control voltage*:
  - 230 V, 50 Hz, 24 V DC
- Power: 10.6 VA / 6.8 W
- IP Protection Class: IP 65
- Mounting position: No restriction
- Mounting location: Indoor/Outdoor

**OPTION**

- Soft opening function with integrated control characteristic
- Flow control function via smart positioner and special plug

**REMARKS**

Acc. to DIN EN12952/12953 it is advised to install strainer in front of shut off valve. (Kühme SF / SFY)
**Type KVF**

Quick-Closing Valve for Gaseous Media

**Electro-Pneumatic Operated**

DN ½” - 2” ANSI 150 lbs

**DIMENSIONS**

<table>
<thead>
<tr>
<th>ANSI</th>
<th>L</th>
<th>D</th>
<th>H</th>
<th>H₁</th>
<th>H₂</th>
<th>H₃</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>½”</td>
<td>108</td>
<td>195</td>
<td>420</td>
<td>180</td>
<td>120</td>
<td>245</td>
<td>35</td>
</tr>
<tr>
<td>¾”</td>
<td>117</td>
<td>195</td>
<td>423</td>
<td>180</td>
<td>120</td>
<td>245</td>
<td>35</td>
</tr>
<tr>
<td>1</td>
<td>127</td>
<td>195</td>
<td>426</td>
<td>180</td>
<td>120</td>
<td>250</td>
<td>37</td>
</tr>
<tr>
<td>1½</td>
<td>165</td>
<td>195</td>
<td>440</td>
<td>180</td>
<td>120</td>
<td>265</td>
<td>46</td>
</tr>
<tr>
<td>2</td>
<td>203</td>
<td>195</td>
<td>420</td>
<td>180</td>
<td>120</td>
<td>235</td>
<td>52</td>
</tr>
</tbody>
</table>

Flange dimensions acc. to ASME B16.5

**PARAMETER**

<table>
<thead>
<tr>
<th>Nominal diameter DN</th>
<th>½”</th>
<th>¾”</th>
<th>1”</th>
<th>1 ½”</th>
<th>2”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Service pressure (PS) in bar at -29° to 38 °C</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
</tr>
<tr>
<td>Max. Service pressure (PS) in bar at max. 200 °C</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>Rating ANSI Class</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>kₚ - value m³/h (max.)</td>
<td>4</td>
<td>7.1</td>
<td>11</td>
<td>27.9</td>
<td>44</td>
</tr>
<tr>
<td>Closing time</td>
<td>&lt; 1 Second</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ACCESSORIES*”**

<table>
<thead>
<tr>
<th>QTY</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Quick venting valve</td>
</tr>
<tr>
<td>1</td>
<td>3/2-way solenoid valve, directly actuated, pressure 0 to 8 bar</td>
</tr>
<tr>
<td>2</td>
<td>Limit switch as mechanical cam switch or proximity switch</td>
</tr>
<tr>
<td>1</td>
<td>Protection cover, transparent, for limit switch and optical position indication</td>
</tr>
</tbody>
</table>

*Other materials and accessories are available on request.

**MATERIALS**

- **Body:** A 216 WCB
- **Valve seat:** cladded with 1.4551
- **Plug gasket:** Elastomer
- **Bellow:** 1.4541
- **Stem:** 1.4021
- **Actuator:** Steel/Aluminium
- **Sealing parts:** Elastomer
Type KVF
Quick-Closing Valve for Gaseous Media
Electro-Pneumatic Operated

DN ½” - 2” ANSI 150 lbs

10.10  Body
10.40  Body gasket
10.50  Plug
10.50.60  Plug gasket
20.10  Bonnet
20.30  Stem with bellow
20.40  Gasket
20.50  O-Ring
20.80  Lip seal
30.30  Piston tube
30.70  Compression spring
30.90  O-Ring
30.100  O-Ring
30.110  O-Ring
30.120  O-Ring
30.130  O-Ring
40.10  Protection cover
40.20  Limit switch
50.10  3/2-way solenoid valve
50.20  Quick venting valve
* Spares