Type KVII/FO
Quick-Opening 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 gaseous media for all
  industrial sectors

ADVANTAGE

- Open/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
safe and reliable
Type KVII/FO
Quick-Opening Valve for Gaseous Media
Electro-Pneumatic Operated

DN 65-150   PN 16

APPLICATION
> Directly operated, normally open
> Venting valve at double block and bleed unit for gaseous media
> Automatic opening valve 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
> Maintenance-free guide bushing
> Flow direction under valve plug
> Piston actuator with integrated opening spring

CERTIFICATES
EC-Type examination (Modul B)
acc. to directive 2014/68/EU

based on:
DIN EN 13611 / DIN EN 161 / DIN EN 16304
Certificate:  > TA-Luft
               DIN EN ISO 15848-1
               VDI 2440
               > SIL2 / EN 61508

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. 10 bar g (DN65-100)
                 Max. 6 bar g (DN125-150)
Operating temperature: -29 to 180 °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
> Flow control function via smart positioner and special plug

REMARKS
Acc. to DIN EN12952/12953 it is advised to install strainer in front quick opening valve. (Kühme SF / SFY)
safe and reliable

Type KVII/FO

Quick-Opening Valve for Gaseous Media
Electro-Pneumatic Operated

DN 65-150     PN 16

DIMENSIONS

<table>
<thead>
<tr>
<th>barg</th>
<th>Ø</th>
<th>mm</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Actuator</td>
<td>L</td>
<td>D</td>
</tr>
<tr>
<td>DN</td>
<td>Max. Operating pressure*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>10.0</td>
<td>150</td>
<td>290</td>
</tr>
<tr>
<td>80</td>
<td>6.0</td>
<td>150</td>
<td>310</td>
</tr>
<tr>
<td>80</td>
<td>10.0</td>
<td>200</td>
<td>310</td>
</tr>
<tr>
<td>100</td>
<td>3.5</td>
<td>150</td>
<td>350</td>
</tr>
<tr>
<td>100</td>
<td>10.0</td>
<td>200</td>
<td>350</td>
</tr>
<tr>
<td>125</td>
<td>2.5</td>
<td>150</td>
<td>400</td>
</tr>
<tr>
<td>125</td>
<td>6.0</td>
<td>200</td>
<td>400</td>
</tr>
<tr>
<td>150</td>
<td>1.5</td>
<td>150</td>
<td>480</td>
</tr>
<tr>
<td>150</td>
<td>4.0</td>
<td>200</td>
<td>480</td>
</tr>
<tr>
<td>150</td>
<td>6.0</td>
<td>250</td>
<td>480</td>
</tr>
</tbody>
</table>

* Max. Functional pressure with compressed air 4 bar g

Flange dimensions acc. to EN 1092-1/B1

PARAMETER

Nominal diameter DN 65 80 100 125 150

Max. Service pressure (PS) in bar g 10 10 10 6 6

kₜₜ - value m³/h (max.) 75 105 170 270 405

Opening time < 1 Second

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>

MATERIALS*

Body: GP240GH

Valve seat: cladded with 1.4551

Plug gasket: Elastomer

Bellow: 1.4541

Stem: 1.4021

Actuator: Steel/Aluminium

Sealing parts: Elastomer

* Other materials and accessories are available on request.