Type KVII/HF
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 gaseous 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
safe and reliable

Type KVII/HF

Quick-Closing Valve for Gaseous Media
Electro-Pneumatic Operated

DN 2½”-12” ANSI 150 lbs

APPLICATION

> Automatic operated emergency shutdown device
> In gas pipes in front of burner acc. to DIN EN12952/12953
> Safety and control device for gas burner
> Automatic shut-off valve in piping systems

TECHNICAL DATA

> Single-seated straight-through globe valve acc. to ANSI 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
> Control element pressure-balanced to allow higher pressure
> Piston actuator with integrated closing spring

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. 16 bar g
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 position: Indoor/Outdoor

CERTIFICATES

EC-Type examination (Modul B)
acc. to directive 2014/68/EU
EC- Type examination certificate
with product-identnumber
acc. to gas appliance regulation EU/2016/426
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

OPTION

> Quick-closing valve with integrated control characteristic for soft opening
> Combination with electro-pneumatic positioner for selective flow control

REMARKS

Acc. to DIN EN12952/12953 it is advised to install strainer in front of shut off valve. (Kühme SF / SFY)
safe and reliable

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DIMENSIONS

<table>
<thead>
<tr>
<th>ANSI</th>
<th>bar g</th>
<th>mm</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Max. Operating pressure*</td>
<td>L</td>
<td>D</td>
</tr>
<tr>
<td>2½</td>
<td>16</td>
<td>216</td>
<td>200</td>
</tr>
<tr>
<td>3</td>
<td>10</td>
<td>241</td>
<td>200</td>
</tr>
<tr>
<td>3</td>
<td>16</td>
<td>241</td>
<td>250</td>
</tr>
<tr>
<td>4</td>
<td>16</td>
<td>292</td>
<td>250</td>
</tr>
<tr>
<td>6</td>
<td>16</td>
<td>406</td>
<td>250</td>
</tr>
<tr>
<td>8</td>
<td>16</td>
<td>495</td>
<td>315</td>
</tr>
<tr>
<td>10</td>
<td>10</td>
<td>622</td>
<td>315</td>
</tr>
<tr>
<td>12</td>
<td>10</td>
<td>699</td>
<td>370</td>
</tr>
</tbody>
</table>

*Max. Functional pressure with compressed air 4 bar g;
Flange dimensions acc. to EN 1092-1/B1

PARAMETER

<table>
<thead>
<tr>
<th>Nominal diameter DN</th>
<th>2½</th>
<th>3</th>
<th>4</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Service pressure [PS] in bar g</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>10</td>
</tr>
<tr>
<td>Rating ANSI Class</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>kᵥ - value m³/h (max.)</td>
<td>72</td>
<td>108</td>
<td>170</td>
<td>376</td>
<td>655</td>
<td>1030</td>
<td>1460</td>
</tr>
<tr>
<td>Closing time</td>
<td>&lt; 1 Second</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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.