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
Type KVII/HF
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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 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
> Control element pressure-balanced to allow higher pressure
> 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 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

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

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

Type KVII/HF
Quick-Closing Valve for Gaseous Media
Electro-Pneumatic Operated

DN 65-300 PN 10-40

DIMENSIONS

<table>
<thead>
<tr>
<th>DN</th>
<th>Max. Operating pressure*</th>
<th>L</th>
<th>D</th>
<th>H</th>
<th>H₁</th>
<th>H₂</th>
<th>H₃</th>
<th>Weight</th>
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<tbody>
<tr>
<td>65</td>
<td>16</td>
<td>290</td>
<td>200</td>
<td>615</td>
<td>180</td>
<td>120</td>
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<td>200</td>
<td>615</td>
<td>180</td>
<td>120</td>
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<td>60</td>
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<tr>
<td>100</td>
<td>16</td>
<td>350</td>
<td>250</td>
<td>615</td>
<td>180</td>
<td>120</td>
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<td>400</td>
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<td>630</td>
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<td>180</td>
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<td>100</td>
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<td>16</td>
<td>480</td>
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<td>660</td>
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<td>140</td>
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<td>16</td>
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<td>10</td>
<td>730</td>
<td>315</td>
<td>900</td>
<td>250</td>
<td>180</td>
<td>535</td>
<td>360</td>
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<td>10</td>
<td>850</td>
<td>370</td>
<td>910</td>
<td>250</td>
<td>180</td>
<td>565</td>
<td>500</td>
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*Max. Functional pressure with compressed air 4 bar g;
Flange dimensions acc. to EN 1092-1/81

PARAMETER

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<th>Nominal diameter DN</th>
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<th>80</th>
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<th>150</th>
<th>200</th>
<th>250</th>
<th>300</th>
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<tbody>
<tr>
<td>Max. Service pressure [PSI in bar g]</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>10</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>kᵥ - value m²/h (max.)</td>
<td>75</td>
<td>105</td>
<td>170</td>
<td>270</td>
<td>405</td>
<td>675</td>
<td>1090</td>
<td>1460</td>
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<tr>
<td>Closing time</td>
<td>&lt; 1 Second</td>
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<td></td>
<td></td>
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ACCESSORIES*

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<th>QTY</th>
<th>Accessories</th>
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<tr>
<td>1</td>
<td>Quick venting valve 3/2-way solenoid valve, directly actuated, pressure 0 to 8 bar</td>
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<tr>
<td>2</td>
<td>Limit switch as mechanical cam switch or proximity switch</td>
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<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.