Type KVH
Quick-Closing Turbine-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 KVH
Quick-Closing Turbine-Valve for Gaseous Media
Electro-Pneumatic Operated
DN 2½” – 12” ANSI 300 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, automatic sealing set 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. 50 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 location:
Indoor/Outdoor

CERTIFICATES

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

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

Type KVH
Quick-Closing Turbine-Valve for Gaseous Media
Electro-Pneumatic Operated

DN 2½” – 12” ANSI 300 lbs

DIMENSIONS

<table>
<thead>
<tr>
<th>DN</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>2 ½”</td>
<td>292</td>
<td>250</td>
<td>590</td>
<td>180</td>
<td>120</td>
<td>350</td>
<td>62 kg</td>
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<tr>
<td>3”</td>
<td>318</td>
<td>250</td>
<td>615</td>
<td>180</td>
<td>120</td>
<td>352</td>
<td>75 kg</td>
</tr>
<tr>
<td>4”</td>
<td>356</td>
<td>250</td>
<td>615</td>
<td>180</td>
<td>120</td>
<td>352</td>
<td>90 kg</td>
</tr>
<tr>
<td>6”</td>
<td>444</td>
<td>250</td>
<td>700</td>
<td>250</td>
<td>180</td>
<td>400</td>
<td>160 kg</td>
</tr>
<tr>
<td>8”</td>
<td>559</td>
<td>370</td>
<td>750</td>
<td>250</td>
<td>180</td>
<td>410</td>
<td>245 kg</td>
</tr>
<tr>
<td>10”</td>
<td>622</td>
<td>370</td>
<td>900</td>
<td>250</td>
<td>180</td>
<td>535</td>
<td>320 kg</td>
</tr>
<tr>
<td>12”</td>
<td>711</td>
<td>370</td>
<td>910</td>
<td>250</td>
<td>180</td>
<td>565</td>
<td>500 kg</td>
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Flange dimensions acc. to ASME B16.5

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 (PSI in bar g at max. 50 °C)</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Max. Service pressure (PSI in bar g at max. 180 °C)</td>
<td>44</td>
<td>44</td>
<td>44</td>
<td>44</td>
<td>44</td>
<td>44</td>
<td></td>
</tr>
<tr>
<td>Kᵥᵥ value m³/h (max.)</td>
<td>77</td>
<td>114</td>
<td>193</td>
<td>403</td>
<td>716</td>
<td>1987</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
Stem: 1.4021
Actuator: Steel/Aluminium
Sealing Parts: Elastomer

* Other materials and accessories are available on request.

ACCESSORIES*

<table>
<thead>
<tr>
<th>QTY</th>
<th>Accessories</th>
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</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>