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

APPLICATION AREA

> Gas Turbines for the petroleum, chemical and gas industry service acc. to API 616
> Gasfiring systems on steam boilers acc. to DIN EN12952/12953
> Industrial thermoprocessing equipment acc. to DIN EN 746

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 systems in front of gas turbines  
> 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 seal set and connection for tightness test  
> Exchangeable plug gasket  
> Maintenance-free guide bushing  
> Piston actuator with integrated closing springs  
> Control element pressure-balanced to allow higher pressure

**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 225 °C  
- **Ambient temperature:** -29 to 80 °C  
- **Control medium:** Compressed air at 4-10 bar g  
- **Air quality:** acc. to DIN ISO 8573-1  
- **Control voltage:** 230 V, 50 Hz, 24 V DC  
- **Power:** 5.3 VA / 3.9 W  
- **IP Protection Class:** IP 66  
- **Mounting position:** no restriction  
- **Mounting location:** 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: SIL2 / EN 61508

**OPTION**

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

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Electro-Pneumatic Operated

DN 3”-12” ANSI 300 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>W.</th>
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<tbody>
<tr>
<td>3”</td>
<td>318</td>
<td>315</td>
<td>600</td>
<td>180</td>
<td>120</td>
<td>230</td>
<td>100</td>
</tr>
<tr>
<td>4”</td>
<td>356</td>
<td>315</td>
<td>670</td>
<td>250</td>
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<td>275</td>
<td>125</td>
</tr>
<tr>
<td>6”</td>
<td>444</td>
<td>315</td>
<td>725</td>
<td>250</td>
<td>180</td>
<td>330</td>
<td>180</td>
</tr>
<tr>
<td>8”</td>
<td>559</td>
<td>370</td>
<td>825</td>
<td>250</td>
<td>180</td>
<td>390</td>
<td>275</td>
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<tr>
<td>10”</td>
<td>622</td>
<td>440</td>
<td>875</td>
<td>250</td>
<td>180</td>
<td>445</td>
<td>450</td>
</tr>
<tr>
<td>12”</td>
<td>711</td>
<td>440</td>
<td>935</td>
<td>250</td>
<td>180</td>
<td>490</td>
<td>600</td>
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</table>

Flange dimensions acc. to ASME B16.5

PARAMETER

Nominal diameter DN | 3” | 4” | 6” | 8” | 10” | 12”
Max. Service pressure (PS) in bar g | 50 | 50 | 50 | 50 | 50 | 50
Rating ANSI Class | 300 | 300 | 300 | 300 | 300 | 300
kₚ - value m²/h (max.) | 114 | 193 | 403 | 716 | 1087 | 1460
Closing time | < 1 second

ACCESSORIES*

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<thead>
<tr>
<th>QTY</th>
<th>Accessories</th>
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<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>
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* Other materials and accessories are available on request.

MATERIALS*

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<th>Type</th>
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<tr>
<td>Body</td>
<td>A 216 WCB</td>
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<tr>
<td>Valve seat</td>
<td>cladded with 1.4551</td>
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<tr>
<td>Plug gasket</td>
<td>PTFE</td>
</tr>
<tr>
<td>Stem</td>
<td>1.4021</td>
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<tr>
<td>Actuator</td>
<td>Steel/Aluminium</td>
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<tr>
<td>Piston sealing</td>
<td>Elastomer</td>
</tr>
</tbody>
</table>

* KÜHME Armaturen GmbH | Am Vorort 14 | 44894 Bochum | +49 (0) 234 - 2 98 02 - 0 | info@kuehme.de | www.kuehme.de