Type KVF
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 liquid 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 KVF

Quick-Closing Valve for Gaseous Media
Electro-Pneumatic Operated

DN ½” - 2” ANSI 300 lbs

APPLICATION

> Automatic operated emergency shutdown device
> In gas pipes in front of burner
  acc. to DIN EN 12952/12953
> Safety and control device for gas burner
> Automatic shut-off valves 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 made of PTFE
> Maintenance-free guide bushing
> Additional sealing force generated through primary
  pressure loaded onto the valve plug
> 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 200 °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

EC-Type examination certificate
with product-identnumber
acc. to gas appliance directive 2009/142/EC

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
  and API 6FA

OPTION

> Soft opening function with integrated control
  characteristic
> Flow control function via smart positioner and
  special plug

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>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>½</td>
<td>152</td>
<td>195</td>
<td>420</td>
<td>180</td>
<td>120</td>
<td>243</td>
<td>35</td>
</tr>
<tr>
<td>¾</td>
<td>178</td>
<td>195</td>
<td>423</td>
<td>180</td>
<td>120</td>
<td>246</td>
<td>35</td>
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<tr>
<td>1</td>
<td>203</td>
<td>195</td>
<td>426</td>
<td>180</td>
<td>120</td>
<td>249</td>
<td>37</td>
</tr>
<tr>
<td>1½</td>
<td>229</td>
<td>195</td>
<td>440</td>
<td>180</td>
<td>120</td>
<td>262</td>
<td>46</td>
</tr>
<tr>
<td>2</td>
<td>267</td>
<td>195</td>
<td>420</td>
<td>180</td>
<td>120</td>
<td>235</td>
<td>52</td>
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</table>

Flange dimensions acc. to ASME B16.5

PARAMETER

<table>
<thead>
<tr>
<th>Nominal diameter DN</th>
<th>½”</th>
<th>¾”</th>
<th>1”</th>
<th>1½”</th>
<th>2”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Service pressure [PS] in bar g at -29º to 38 ºC</td>
<td>51</td>
<td>51</td>
<td>51</td>
<td>51</td>
<td>51</td>
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<tr>
<td>Max. Service pressure [PS] in bar g at max. 200 ºC</td>
<td>44</td>
<td>44</td>
<td>44</td>
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<td>44</td>
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<tr>
<td>Rating ANSI Class</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>kₜ – value m³/h [max.]</td>
<td>5,3</td>
<td>7,2</td>
<td>12</td>
<td>28,5</td>
<td>43</td>
</tr>
<tr>
<td>Closing time</td>
<td>&lt; 1 Second</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</table>

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.

MATERIALS*

| Body: | A 216 WCB |
| Valve seat: | cladded with E347-16 |
| Plug gasket: | Elastomer |
| Bellow: | 1.4541 |
| Stem: | 1.4021 |
| Actuator: | Steel/Aluminium |
| Sealing parts: | Elastomer |
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10.10 Body
* 10.40 Body gasket
10.50 Plug
* 10.50.60 Plug gasket
20.10 Bonnet
* 20.30 Stem with bellow
* 20.40 Gasket
* 20.50 O-Ring
* 20.80 Lip seal
30.30 Piston tube
* 30.70 Compression spring
* 30.90 O-Ring
* 30.100 O-Ring
* 30.110 O-Ring
* 30.120 O-Ring
* 30.130 O-Ring
* 40.10 Protection cover
* 40.20 Limit switch
* 50.10 3/2-way solenoid valve
* 50.20 Quick venting valve
* Spares