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 thermoprocesing 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
> 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. 40 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-identenumber 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>l</th>
<th>Ød</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>½&quot;</td>
<td>117</td>
<td>195</td>
<td>420</td>
<td>243</td>
<td>10</td>
<td>21.7</td>
<td>35</td>
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<tr>
<td>¾&quot;</td>
<td>117</td>
<td>195</td>
<td>423</td>
<td>246</td>
<td>13</td>
<td>27.1</td>
<td>35</td>
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<tr>
<td>1</td>
<td>139</td>
<td>195</td>
<td>426</td>
<td>249</td>
<td>13</td>
<td>33.8</td>
<td>37</td>
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<tr>
<td>1½</td>
<td>186</td>
<td>195</td>
<td>440</td>
<td>262</td>
<td>13</td>
<td>48.7</td>
<td>46</td>
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<tr>
<td>2</td>
<td>209</td>
<td>195</td>
<td>420</td>
<td>235</td>
<td>16</td>
<td>61.1</td>
<td>52</td>
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PARAMETER

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<tr>
<th>Nominal diameter DN</th>
<th>½”</th>
<th>¾”</th>
<th>1”</th>
<th>1½”</th>
<th>2”</th>
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</thead>
<tbody>
<tr>
<td>Max. Service pressure (PS)</td>
<td>44</td>
<td>44</td>
<td>44</td>
<td>44</td>
<td>44</td>
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<tr>
<td>in bar g</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rating ANSI Class</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>300</td>
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<tr>
<td>kₚₖ-value m³/h (max.)</td>
<td>5.3</td>
<td>7.2</td>
<td>12</td>
<td>28.5</td>
<td>43</td>
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<tr>
<td>Closing time</td>
<td>&lt; 1 Second</td>
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ACCESSORIES*

<table>
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<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>
</tr>
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</table>

* Other materials and accessories are available on request.

MATERIALS*

| Body:    | SA 105                           |
| 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