Type KVF/0
Quick-Opening 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

- Open/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/0

Quick-Opening Valve for Gaseous Media
Electro-Pneumatic Operated

DN ½”-2” ANSI 300 lbs

APPLICATION
> Directly operated, normally open
> Venting valve at double block and bleed unit for gaseous media
> Automatic opening 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
> Flow direction under valve plug
> Piston actuator with integrated opening spring

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 16304
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. 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

OPTION
> Flow control function via smart positioner and special plug

REMARKS
Acc. to DIN EN12952/12953 it is advised to install strainer in front of quick opening valve. (Kühme SF / SFY)
safe and reliable

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### DIMENSIONS*

<table>
<thead>
<tr>
<th>bar g</th>
<th>Ø mm</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANS</td>
<td>Max. Operating pressure*</td>
<td>Actuator</td>
</tr>
<tr>
<td>½”</td>
<td>50</td>
<td>150</td>
</tr>
<tr>
<td>¾”</td>
<td>50</td>
<td>150</td>
</tr>
<tr>
<td>1”</td>
<td>50</td>
<td>150</td>
</tr>
<tr>
<td>1 ½”</td>
<td>32</td>
<td>150</td>
</tr>
<tr>
<td>1 ½”</td>
<td>50</td>
<td>200</td>
</tr>
<tr>
<td>2”</td>
<td>42</td>
<td>200</td>
</tr>
<tr>
<td>2”</td>
<td>50</td>
<td>250</td>
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</tbody>
</table>

* Max. Functional pressure with compressed air 4 bar g;
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>1 ½”</th>
<th>2”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Service pressure (PS) in bar g at -29°C to 38°C</td>
<td>51</td>
<td>51</td>
<td>51</td>
<td>51</td>
<td>51</td>
</tr>
<tr>
<td>Max. Service pressure (PS) in bar g at max. 180°C</td>
<td>44</td>
<td>44</td>
<td>44</td>
<td>44</td>
<td>44</td>
</tr>
<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</td>
<td>7,5</td>
<td>12</td>
<td>30</td>
<td>46</td>
</tr>
<tr>
<td>Opening time</td>
<td>&lt; 1 Second</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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</table>

### ACCESSORIES*

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

* Other materials and accessories are available on

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**MATERIALS**

- **Body:** A 216 WCB
- **Valve seat:** cladded with 1.4551
- **Plug gasket:** Elastomer
- **Bellow:** 1.4541
- **Stem:** 1.4021
- **Actuator:** Steel/Aluminium
- **Sealing parts:** Elastomer
safe and reliable
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Electro-Pneumatic Operated

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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

Spares