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
**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 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
> 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 regulation EU/2016/426
based on:
DIN EN 13611 / DIN EN 161 / DIN EN 16304
Certificate:
> TA-Luft
  DIN EN ISO 15848-1
  VDI 2440
> SIL2 / EN 61508

**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. 20 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)
**Dimension**

<table>
<thead>
<tr>
<th>bar g</th>
<th>Ø (mm)</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ANSI</strong></td>
<td><strong>Max. Operating pressure</strong></td>
<td>Actuator</td>
</tr>
<tr>
<td>½&quot;</td>
<td>20</td>
<td>150</td>
</tr>
<tr>
<td>¾&quot;</td>
<td>20</td>
<td>150</td>
</tr>
<tr>
<td>1&quot;</td>
<td>20</td>
<td>150</td>
</tr>
<tr>
<td>1 ½&quot;</td>
<td>20</td>
<td>150</td>
</tr>
<tr>
<td>2&quot;</td>
<td>20</td>
<td>150</td>
</tr>
</tbody>
</table>

*Max. Functional pressure with compressed air 4 bar g; Flange dimensions acc. to ASME B16.5

**Parameter**

- Nominal diameter DN
- Max. Service pressure [PS] in bar g at -20°C to 38°C
- Max. Service pressure [PS] in bar g at max. 180°C
- Rating ANSI Class
- kv - valve m²/h (max.)
- Opening time

<table>
<thead>
<tr>
<th></th>
<th>¼&quot;</th>
<th>½&quot;</th>
<th>1&quot;</th>
<th>1 ½&quot;</th>
<th>2&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Service pressure [PS] in bar g at -20°C to 38°C</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
</tr>
<tr>
<td>Max. Service pressure [PS] in bar g at max. 180°C</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>Rating ANSI Class</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>kv - value m²/h (max.)</td>
<td>4</td>
<td>7,1</td>
<td>11</td>
<td>27,9</td>
<td>44</td>
</tr>
<tr>
<td>Opening time</td>
<td>&lt; 1 Second</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</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 1.4551
- **Plug gasket**: Elastomer
- **Bellow**: 1.6541
- **Stem**: 1.6541
- **Actuator**: Steel/Aluminium
- **Sealing parts**: Elastomer
safe and reliable
Type KVF/0
Quick-Opening Valve for Gaseous Media
Electro-Pneumatic Operated

DN ½”-2” ANSI 150 lbs

- 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