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 150 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-ident number 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. 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)
Safe and Reliable

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**DIMENSIONS**

<table>
<thead>
<tr>
<th>bar g</th>
<th>Ø</th>
<th>mm</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSI</td>
<td>Max. Operating pressure*</td>
<td>Actuator</td>
<td>L</td>
</tr>
<tr>
<td>1/2”</td>
<td>20</td>
<td>150</td>
<td>108</td>
</tr>
<tr>
<td>¾”</td>
<td>20</td>
<td>150</td>
<td>117</td>
</tr>
<tr>
<td>1”</td>
<td>20</td>
<td>150</td>
<td>127</td>
</tr>
<tr>
<td>1 1/2”</td>
<td>20</td>
<td>150</td>
<td>165</td>
</tr>
<tr>
<td>2”</td>
<td>20</td>
<td>150</td>
<td>203</td>
</tr>
</tbody>
</table>

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

**PARAMETER**

- **Nominal diameter DN:**
  - 1/2”
  - 3/4”
  - 1”
  - 1 1/2”
  - 2”

- **Max. Service pressure (PS) in bar g at -29° to 38 °C:**
  - 19
  - 19
  - 19
  - 19
  - 19

- **Max. Service pressure (PS) in bar g at max. 180 °C:**
  - 14
  - 14
  - 14
  - 14
  - 14

- **Rating ANSI Class:**
  - 150
  - 150
  - 150
  - 150
  - 150

- **k_w - value m^3/h (max.):**
  - 4
  - 7,1
  - 11
  - 27,9
  - 44

- **Opening time:**
  - < 1 Second

**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:** 1.4541
- **Stem:** 1.4021
- **Actuator:** Steel/Aluminium
- **Sealing parts:** Elastomer
safe and reliable

Type KVF/0

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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