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 15-50  PN 40

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. 40 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 quick opening valve. (Kühme SF / SFY)
safe and reliable

Type KVFO
Quick-Opening Valve for Gaseous Media
Electro-Pneumatic Operated

DN 15-50    PN 40

**DIMENSIONS**

<table>
<thead>
<tr>
<th>bar g</th>
<th>Ø</th>
<th>mm</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DN</strong></td>
<td>Max. Operating pressure</td>
<td>Actuator</td>
<td>L</td>
</tr>
<tr>
<td>15</td>
<td>40</td>
<td>150</td>
<td>130</td>
</tr>
<tr>
<td>20</td>
<td>40</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>25</td>
<td>40</td>
<td>150</td>
<td>160</td>
</tr>
<tr>
<td>32</td>
<td>40</td>
<td>150</td>
<td>180</td>
</tr>
<tr>
<td>40</td>
<td>32</td>
<td>150</td>
<td>200</td>
</tr>
<tr>
<td>40</td>
<td>40</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>50</td>
<td>20</td>
<td>150</td>
<td>230</td>
</tr>
<tr>
<td>50</td>
<td>40</td>
<td>200</td>
<td>230</td>
</tr>
</tbody>
</table>

*Max. Functional pressure with compressed air 4 bar g;
Flange dimensions acc. to EN 1092-1/B1

**PARAMETER**

<table>
<thead>
<tr>
<th>Nominal diameter DN</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>32</th>
<th>40</th>
<th>50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Service pressure (PS) in bar at max. 120 °C</td>
<td>40</td>
<td>40</td>
<td>40</td>
<td>40</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>Max. Service pressure (PS) in bar at max. 180 °C</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>35</td>
</tr>
<tr>
<td>Max. Service pressure (PS) in bar at -29 °C to &lt; -10 °C</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
</tr>
</tbody>
</table>

**kW - value m³/h (max.)**

| kW | 3 | 5,3 | 8,6 | 13 | 21 | 37,2 |
| kW | 5,3 | 7,2 | 12 | 16 | 28,5 | 43 |

**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:** P250GH, GP240GH
- **Valve seat:** cladded with 1.4009
- **Plug gasket:** Elastomer
- **Bellow:** 1.4541
- **Stem:** 1.6021
- **Actuator:** Steel/Aluminium
- **Sealing parts:** Elastomer
safe and reliable

Type KVF/0

Quick-Opening Valve for Gaseous Media
Electro-Pneumatic Operated

DN 15-50  PN 40

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