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/O

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 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. 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 KVF/O
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>DN</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>
<tr>
<td>kₙₜ - value m³/h (max.) [P250GH]</td>
<td>3</td>
<td>5,3</td>
<td>8,6</td>
<td>13</td>
<td>21</td>
<td>37,2</td>
</tr>
<tr>
<td>kₙₜ - value m³/h (max.) [GP240GH]</td>
<td>5,3</td>
<td>7,2</td>
<td>12</td>
<td>16</td>
<td>28,5</td>
<td>43</td>
</tr>
</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: | P250GH, GP240GH |
| Valve seat: | cladded with 1.4009 |
| Plug gasket: | Elastomer |
| Bellow: | 1.4541 |
| Stem: | 1.4541 |
| 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