Type KVF
Quick-Closing 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 liquid media for all
  industrial sectors

ADVANTAGE

- 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

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Quick-Closing Valve for Gaseous Media
Electro-Pneumatic Operated

DN 15-50  PN 40

APPLICATION

> Automatic operated emergency shutdown device
> In gas pipes in front of burner acc. to DIN EN12952/12953
> Safety and control device for gas burner
> Automatic shut-off 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
> Additional sealing force generated through primary pressure loaded onto the valve plug
> Piston actuator with integrated closing spring

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 200 °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

CERTIFICATES

EC-Type examination (Modul B)
acc. to directive 2014/68/EU
EC-Type examination certificate
with product-ident number
acc. to gas appliance regulation EU/2016/426
based on:
DIN EN 13611 / DIN EN 161 / DIN EN 16678

Certificate:
> TA-Luft
  DIN EN ISO 15848-1
  VDI 2440
> SIL2 / EN 61508
> Fire-safe
  DIN EN ISO 10497 / API 607
  and API 6FA

OPTION

> Soft opening function with integrated control characteristic
> Flow control function via smart positioner and special plug

REMARKS

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

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DIMENSIONS

<table>
<thead>
<tr>
<th>mm</th>
<th>kg</th>
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</thead>
<tbody>
<tr>
<td>DN</td>
<td>L</td>
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<tr>
<td>----</td>
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<tr>
<td>15</td>
<td>130</td>
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<tr>
<td>20</td>
<td>150</td>
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<tr>
<td>25</td>
<td>160</td>
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<tr>
<td>32</td>
<td>180</td>
</tr>
<tr>
<td>40</td>
<td>200</td>
</tr>
<tr>
<td>50</td>
<td>230</td>
</tr>
</tbody>
</table>

Flange dimensions acc. to EN 1092-1/B1

PARAMETER

Nominal diameter DN

<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>
</table>

Max. Service pressure (PS) in bar at max. 120 °C

| Max. Service pressure (PS) in bar at max. 200 °C | 33 | 33 | 33 | 33 | 33 | 33 |
| Max. Service pressure (PS) in bar at -29 °C to <-10 °C | 30 | 30 | 30 | 30 | 30 | 30 |
| kᵣ = value m³/h (max.) (P250GH) | 3  | 5.3| 8.6| 13 | 21 | 37.2|
| kᵣ = value m³/h (max.) (GP240GH) | 5.3| 7.2| 12 | 16 | 28.5| 43 |

Closing 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: 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

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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
50.20  Quick venting valve

Spares