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
- Precise control function
safe and reliable

Type KVF/S

Quick-Closing & Control Valve for Gaseous Media
Electro-Pneumatic Operated

DN 15-50  PN 40

APPLICATION
> Combined control and quick closing valve
> In pipelines in front of burner acc. to DIN EN12952/12953
> In Industrial thermoprocessing equipment acc. to DIN EN 746

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
> Combined electro-pneumatic Regulation- and Quick-closing control system

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-identnumber
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

> Valve plug also available in parabolic, perforated as well as in slit cone design

REMARKS

Acc. to DIN EN 12952/12953 it is advised to install strainer in front of shut off valve. (Kühme SF / SFY)
safe and reliable

Type KVF/S

Quick-Closing & Control Valve for Gaseous Media
Electro-Pneumatic Operated

DN 15-50  PN 40

DIMENSIONS

<table>
<thead>
<tr>
<th>mm</th>
<th>DN</th>
<th>L</th>
<th>D</th>
<th>H1</th>
<th>H2</th>
<th>H3</th>
<th>Weight</th>
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<tbody>
<tr>
<td>15</td>
<td>130</td>
<td>195</td>
<td>600</td>
<td>180</td>
<td>120</td>
<td>245</td>
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<tr>
<td>20</td>
<td>150</td>
<td>195</td>
<td>600</td>
<td>180</td>
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<td>245</td>
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<td>195</td>
<td>600</td>
<td>180</td>
<td>120</td>
<td>245</td>
<td>37</td>
</tr>
<tr>
<td>32</td>
<td>180</td>
<td>195</td>
<td>610</td>
<td>180</td>
<td>120</td>
<td>255</td>
<td>40</td>
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<tr>
<td>40</td>
<td>200</td>
<td>195</td>
<td>620</td>
<td>180</td>
<td>120</td>
<td>265</td>
<td>43</td>
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<tr>
<td>50</td>
<td>230</td>
<td>195</td>
<td>620</td>
<td>180</td>
<td>120</td>
<td>265</td>
<td>47</td>
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</table>

Flange dimensions acc. to EN 1092-1/B1;
Valve yoke dimensions acc. to DIN/EC534.

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>
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</thead>
<tbody>
<tr>
<td>Max. Service pressure (PSI)</td>
<td>bar g at -10°C to +120 °C</td>
<td>40</td>
<td>40</td>
<td>40</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>Max. Service pressure (PSI)</td>
<td>bar g at max. 200 °C</td>
<td>33</td>
<td>33</td>
<td>33</td>
<td>33</td>
<td>33</td>
</tr>
<tr>
<td>Max. Service pressure (PSI)</td>
<td>bar g at -29°C to &lt; -10 °C</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>k₅ - value m³/h (max.)</td>
<td>(P250G/3)</td>
<td>3</td>
<td>5,3</td>
<td>8,6</td>
<td>13</td>
<td>21</td>
</tr>
<tr>
<td>k₅ - value m³/h (max.)</td>
<td>(GP240G)</td>
<td>5,3</td>
<td>7,2</td>
<td>12</td>
<td>16</td>
<td>28,5</td>
</tr>
<tr>
<td>Closing time</td>
<td>&lt; 1 Second</td>
<td></td>
<td></td>
<td></td>
<td></td>
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ACCESSORIES

<table>
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<tr>
<th>QTY</th>
<th>Accessories</th>
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<tbody>
<tr>
<td>1</td>
<td>Pneumatic Change over Valve</td>
</tr>
<tr>
<td>1</td>
<td>3/2-way solenoid valve, directly actuated</td>
</tr>
<tr>
<td>1</td>
<td>Electro-pneumatically Positioner</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 / Valve seat: P250G/3 / cladded with 1.4551
Alternative: GP240G / 1.4021+QT
Plug gasket: Elastomer
Bellow: 1.4541
Stem: 1.4541
Actuator: Steel/Aluminium
Sealing parts: Elastomer