

safe and reliable



Type KVF

## Quick-Closing Valve for Gaseous Media Electro-Pneumatic Operated

Edition: 06.21

Subject to change without notice

### APPLICATION AREA

- > Gas firing systems on steam boilers  
acc. to DIN EN12952/12953
- > Industrial thermoprocessing equipment  
acc. to DIN EN 746
- > Pipe systems for gaseous 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



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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

## 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

## OPERATING DATA (GENERAL)

<b>Media:</b>	> Gaseous fuels acc. to PED 2014/68/EU > Fuels acc. to G260; gas group 1., 2. and 3 > Other gaseous media
<b>Operating pressure:</b>	Max. 40 bar g
<b>Operating temperature:</b>	-29 to 200 °C
<b>Ambient temperature:</b>	-29 to 80 °C
<b>Control medium:</b>	Compressed air at 4-8 bar g
<b>Air quality:</b>	acc. to DIN ISO 8573-1
<b>Control voltage*:</b>	230 V, 50 Hz, 24 V DC
<b>Power:</b>	10.6 VA / 6.8 W
<b>IP Protection Class:</b>	IP 65
<b>Mounting position:</b>	No restriction
<b>Mounting location:</b>	Indoor/Outdoor

*The determined individual operating and design data based is displayed in the valve specification sheet submitted along with the quotation!*

## 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)

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## DIMENSIONS

DN	mm						kg
	L	D	H	H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	Weight
15	130	195	420	180	120	243	35
20	150	195	423	180	120	246	35
25	160	195	426	180	120	249	37
32	180	195	434	180	120	257	40
40	200	195	440	180	120	262	46
50	230	195	420	180	120	235	52
50		195		180	120		

Flange dimensions acc. to EN 1092-1/B1

## PARAMETER

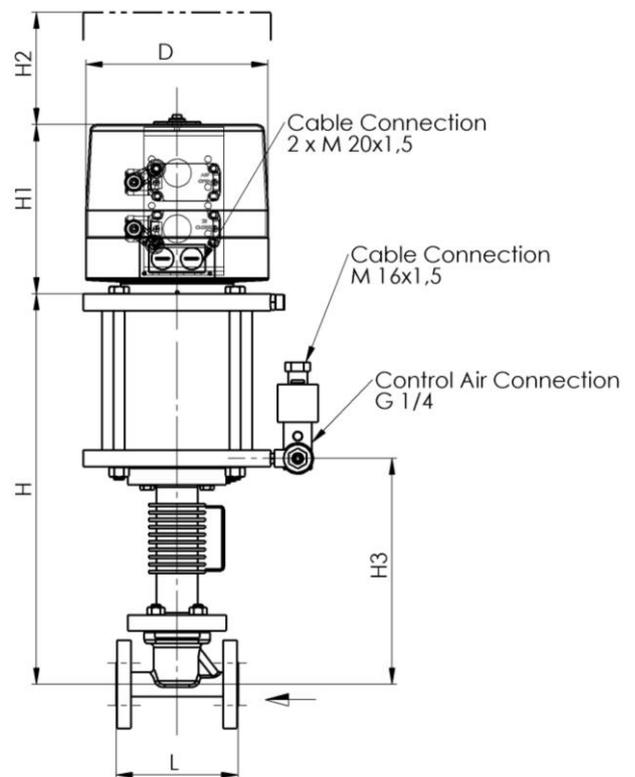
Nominal diameter DN	15	20	25	32	40	50
Max. Service pressure (PS) in bar g at max. 120 °C	40	40	40	40	40	40
Max. Service pressure (PS) in bar g at max. 200 °C	33	33	33	33	33	33
Max. Service pressure (PS) in bar g at -29 °C to < -10 °C	30	30	30	30	30	30
K <sub>vs</sub> - value m <sup>3</sup> /h (max.) (P250GH)	3	5,3	8,6	13	21	37,2
K <sub>vs</sub> - value m <sup>3</sup> /h (max.) (GP240GH)	5,3	7,2	12	16	28,5	43
Closing time	< 1 Second					

## ACCESSORIES\*

QTY	Accessories
1	Quick venting valve
1	3/2-way solenoid valve, directly actuated, pressure 0 to 8 bar
2	Limit switch as mechanical cam switch or proximity switch
1	Protection cover, transparent, for limit switch and optical position indication

\* Other materials and accessories are available on

request.



## MATERIALS\*

<b>Body:</b>	P250GH; GP240GH
<b>Valve seat:</b>	cladded with 1.4009
<b>Plug gasket:</b>	Elastomer
<b>Bellow:</b>	1.4541
<b>Stem:</b>	1.4541
<b>Actuator:</b>	Steel/Aluminium
<b>Sealing parts:</b>	Elastomer

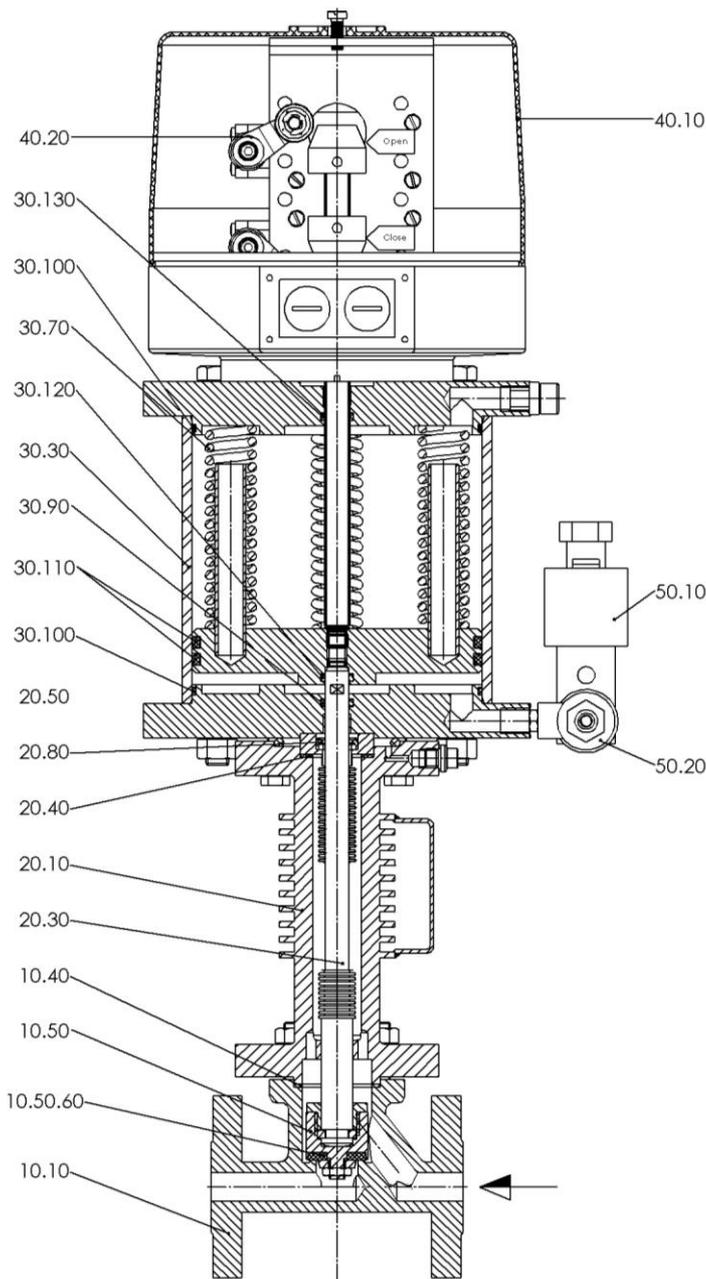
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DN 15-50 PN 40



- 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
- \* 50.20 Quick venting valve

\* **Spares**