

Type KVF

Quick-Closing Valve for Liquid Media Electro-Pneumatic Operated

Edition: 03.18

Subject to change without notice

APPLICATION AREA

- > Oil 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



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DN 15-50 PN 40

APPLICATION

- > Automatic operated emergency shutdown device
- > In pipelines in front of burner acc. to
DIN EN12952/12953
- > Safety and control device for fuel oil tank
- > 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

based on:

DIN ISO 23553-1

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

Media:	> Fuel oil acc. to PED 2014/68/EU > Other liquid 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

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

mm							kg
DN	L	D	H	H ₁	H ₂	H ₃	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

Flange dimensions acc. to EN 1092-1/B1

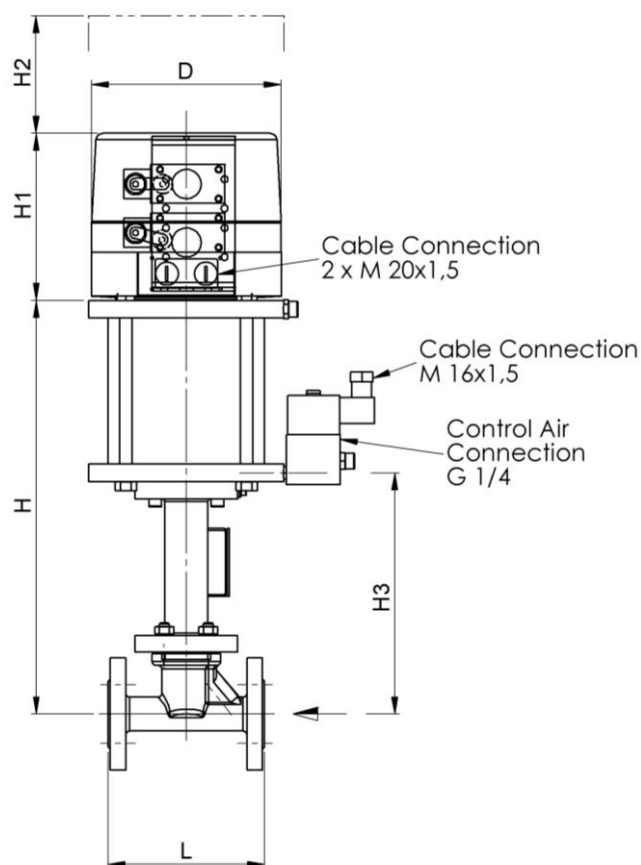
PARAMETER

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 < - 10 °C	30	30	30	30	30	30
k _{VS} - value m³/h (max.) (P250GH)	3	5,3	8,6	13	21	37,2
k _{VS} - value m³/h (max.) (GP240GH)	5,3	7,2	12	16	28,5	43
Closing time	< 1 Second					

ACCESSORIES*

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

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

* Other materials and accessories are available on

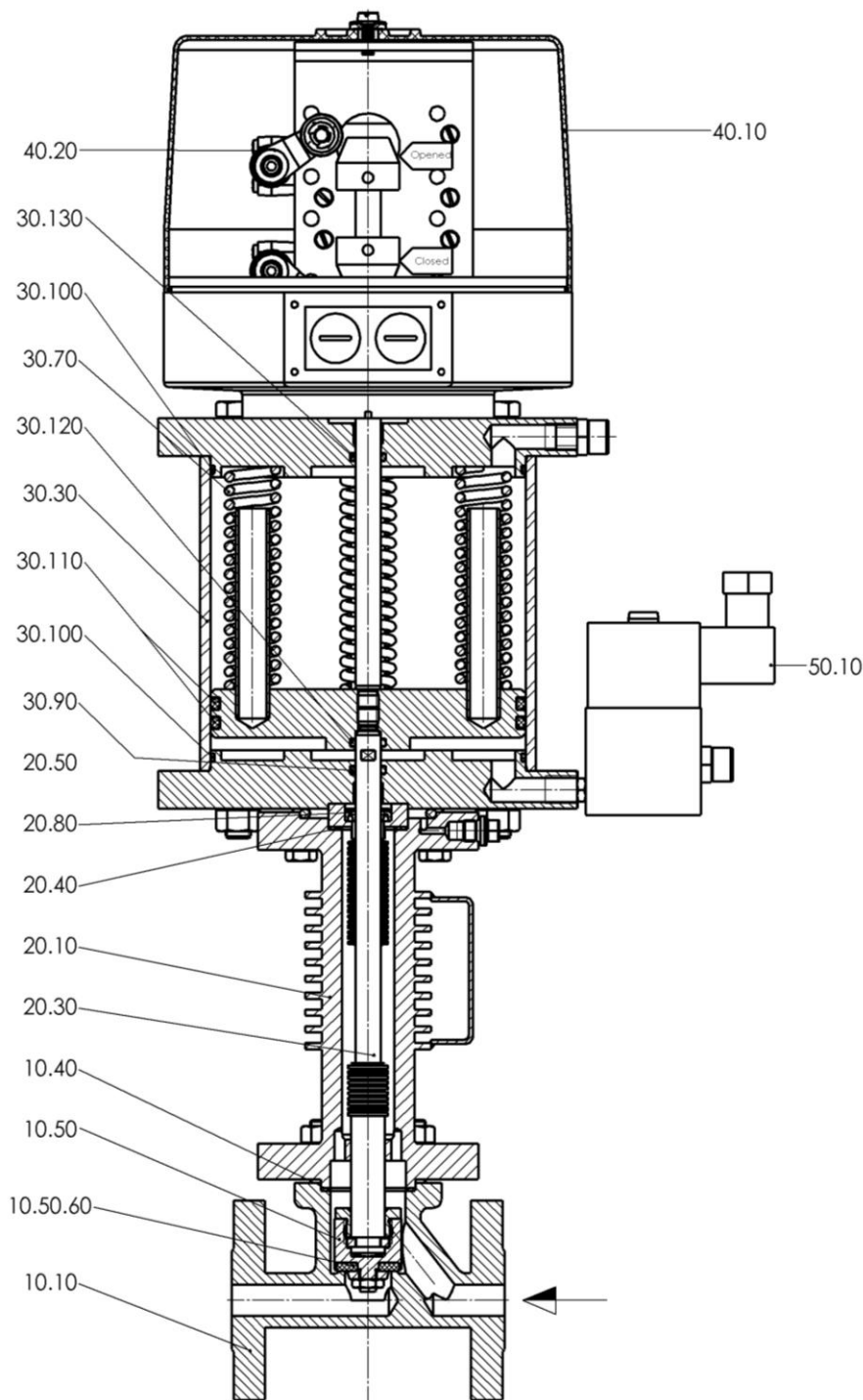
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	10.10	Body
*	10.40	Body gasket
	10.50	Plug
*	10.50.60	Plug gasket
	20.10	Bonnet
*	20.30	Stem with bellow
*	20.40	Gasket
*	20.50	O-Ring
*	20.80	Lip seal
	30.30	Piston tube
*	30.70	Compression spring
*	30.90	O-Ring
*	30.100	O-Ring
*	30.110	O-Ring
*	30.120	O-Ring
*	30.130	O-Ring
*	40.10	Protection cover
*	40.20	Limit switch
*	50.10	3/2-way solenoid valve
*		Spares