

Type KVF/S

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

Edition: 11.15

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
- > Design for long service life
- > Precise regulation



safe and reliable

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DN 15-50 PN 40

APPLICATION

- > Combined control and quick closing valve
- > In pipelines in front of burner
acc. to DIN EN12952/12953
- > Safety and control device for fuel oil tank

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 made out of PTFE
- > Maintenance-free guide bushing
- > Additional sealing force generated through
primary pressure loaded onto the valve plug
- > Piston actuator with integrated closing spring
- > Soft opening function with integrated control
characteristic
- > Flow control function via smart positioner and
special plug

CERTIFICATES

- Registration: acc. to PED 97/23/EG
- EG-Type examination: DIN EN ISO 23553-1
- Certificate:
- > TA-Luft /
VDI 2440 /
DIN EN ISO 15848-1
 - > SIL2 / EN 61508
 - > Fire-safe /
EN 10497 / API 607

OPERATING DATA

- Media:
- > Fuel oil acc. to
PED 97/23/EG
 - > Other liquid media
- Operating pressure: Max. 40 bar
- Operating temperature: -25 to 180 °C
- Ambient temperature: -25 to 80 °C
- Control medium: Compressed air at 4-8 bar
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
- Characteristic curve: linear/equal percentage
- Mounting position: No restriction
- Mounting location: Indoor/Outdoor

OPTION

- > Valve plug also available as parabolic cone as well
as perforated basket or slotted hole design

REMARKS

Strainers are needed to comply with DIN EN12952/12953
and DIN EN 746 (see Kühme SF / SFY)

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DIMENSIONS

DN	mm						kg
	L	D	H	H ₁	H ₂	H ₃	Weight
15	130	195	620	180	120	243	35
20	150	195	623	180	120	246	35
25	160	195	626	180	120	249	37
32	180	195	634	180	120	257	40
40	200	195	640	180	120	262	46
50	230	195	620	180	120	235	52

Flange dimensions acc. to EN 1092-1/B1;
Valve yoke dimensions acc. to DIN/IEC534

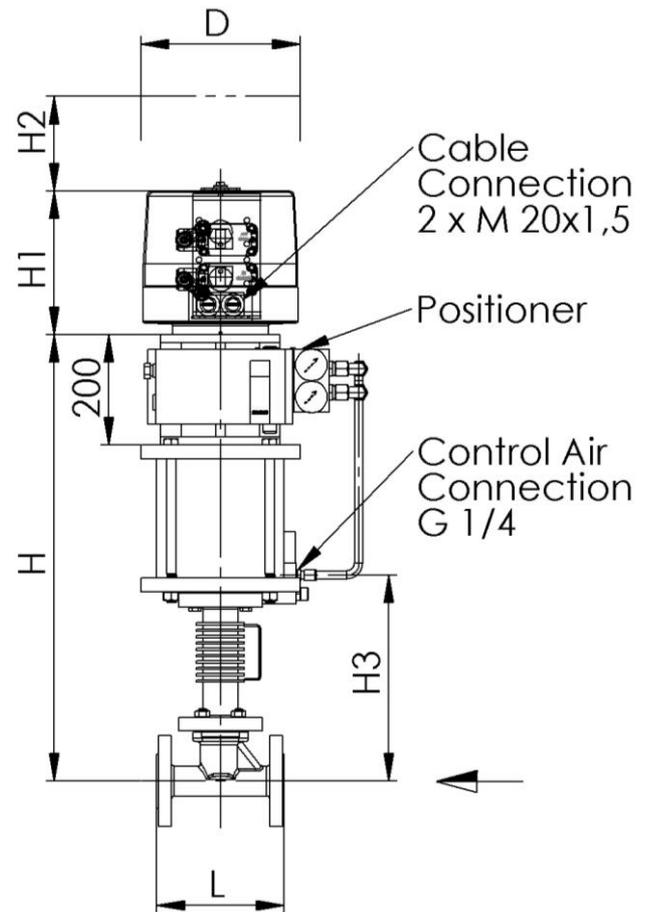
PARAMETER

Nominal diameter DN	15	20	25	32	40	50
Max. Operating pressure (PS) in bar at max. 120 °C	40	40	40	40	40	40
Max. Operating pressure (PS) in bar at max. 180 °C	35	35	35	35	35	35
Max. Operating pressure (PS) in bar at -25 °C to -10 °C	30	30	30	30	30	30
K _{VS} - value m ³ /h (max.)	4	6,5	8,5	16	21	30
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
1	Positioner

* Other materials and accessories are available on request.



MATERIALS*

Body:	P250GH
Valve seat:	cladded with 1.4009
Internal parts:	1.4021
Plug gasket:	PTFE
Bellow:	1.4541
Piston actuator:	Steel, galvanised
Actuator body:	Aluminium