

safe and reliable



Type KVII/F- KVII/F

Double Block and Bleed Unit for Gaseous Media Electro-Pneumatic Operated

Edition: 05.18

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 fuels
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
- > Package unit with integrated intermediate venting



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DN 65-300 PN 16

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
- > Integrated connection for intermediate venting

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 / DIN EN 16304

Certificate:

- > TA-Luft
DIN EN ISO 15848-1
VDI 2440
- > SIL2 / EN 61508
- > Fire-safe
DIN EN ISO 10497 / API 607

OPERATING DATA

- | | |
|-------------------------------|---|
| Media: | > Gaseous fuels
acc. to PED 2014/68/EU |
| | > Fuels acc. to G260;
gas group 1., 2. and 3 |
| | > Other gaseous media
Max. 12 bar g |
| Operating pressure: | |
| Operating temperature: | -29 to 180 °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

- > Quick-closing valve with integrated control
characteristic for soft opening
- > Combination with electro-pneumatic positioner for
selective flow control

REMARKS

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

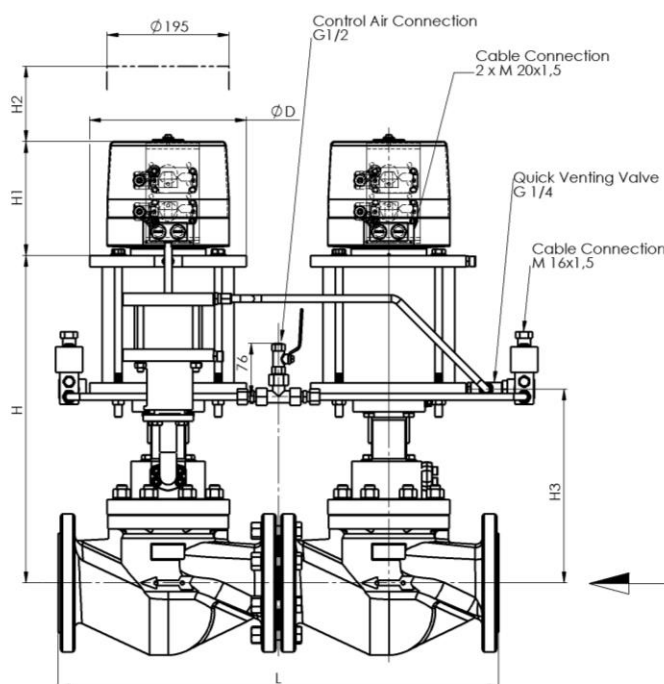
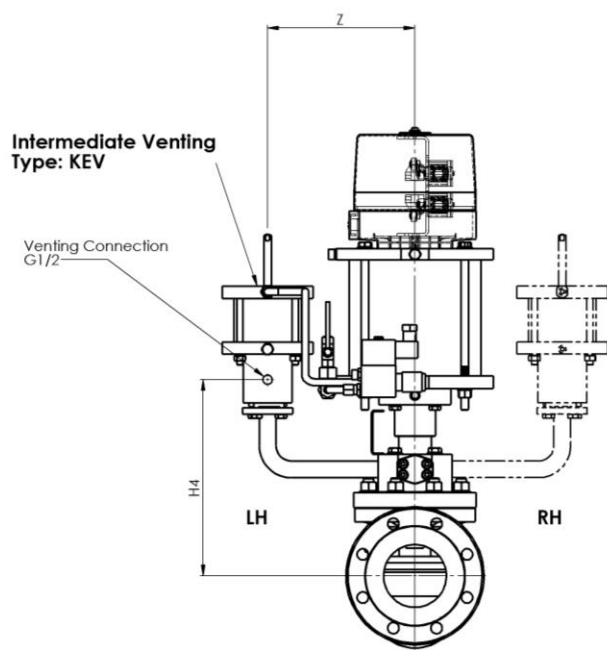
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MATERIALS*

Body:	GP240GH
Valve seat:	cladded with 1.4551
Plug gasket:	Elastomer
Bellow:	1.4541
Stem:	1.4021
Actuator:	Steel/Aluminium
Sealing parts:	Elastomer

* Other materials and accessories are available on request.

PARAMETER

Nominal diameter DN	65	80	100	125	150	200	250	300
Max. Service pressure (PS) in bar g	12	12	12	6	6	6	3	2
Rating PN	16	16	16	16	16	16	16	16
K_{vs} - value m ³ /h (max.)	75	105	170	270	405	675	1090	1460
Closing time	< 1 Second							

ACCESSORIES*

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

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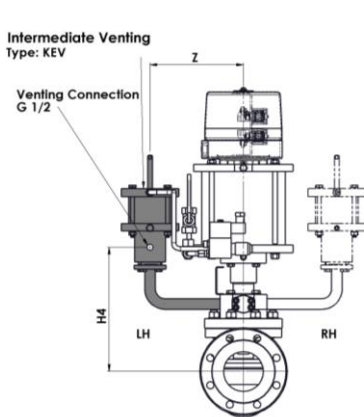
DIMENSIONS

	bar g		mm									kg
DN	max. Operating pressure*	Actuator	L	D	H	H ₁	H ₂	H ₃	H ₄	Z	Arrangement	Weight
65	8,0	150	580	200	520	180	120	307	255	240	A	107
65	12,0	200	580	250	520	180	120	307	255	240	A	107
80	5,0	150	620	200	525	180	120	310	265	250	A	125
80	12,0	200	620	250	525	180	120	310	265	250	A	125
100	3,0	150	700	200	525	180	120	315	315	235	A	155
100	12,0	200	700	250	525	180	120	315	315	235	A	155
125	1,5	150	800	200	660	250	180	400	335	235	A	185
125	5,0	200	800	250	660	250	180	400	335	235	A	185
125	6,0	250	800	315	660	250	180	400	335	235	A	185
150	1,0	150	960	200	660	250	180	400	367	235	B	215
150	3,5	200	960	250	660	250	180	400	367	235	B	215
150	6,0	250	960	315	660	250	180	400	367	300	A	215
200	1,5	200	1200	250	745	250	180	420	425	235	B	355
200	3,5	250	1200	315	745	250	180	420	425	300	B	355
200	6,0	300	1200	370	745	250	180	420	425	300	B	355
250	2,0	250	1460	315	870	250	180	535	490	315	B	595
250	3,0	300	1460	370	870	250	180	535	490	315	B	595
300	1,25	250	1700	315	890	250	180	555	525	315	B	925
300	2,0	300	1700	370	890	250	180	555	525	315	B	925

*Max. Functional pressure with compressed air 4 bar g; Flange dimensions acc. to EN 1092-1/B1

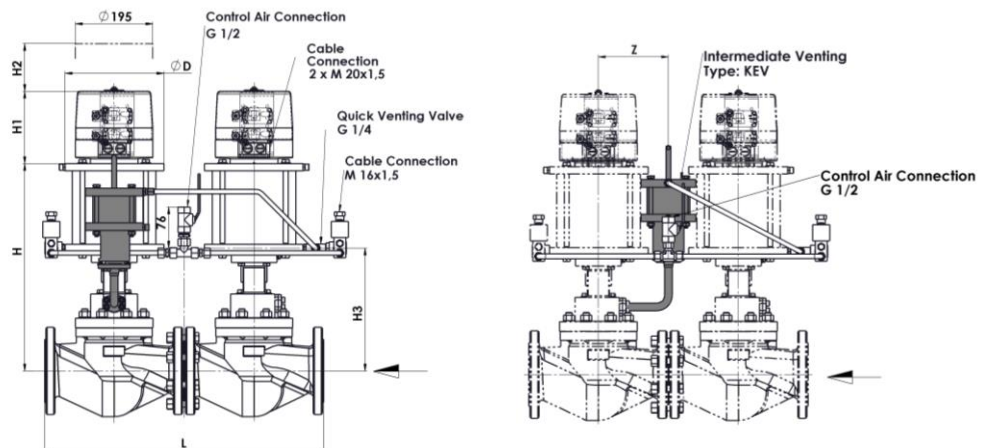
TYPE A

Intermediate Venting Left Hand / Right Hand arrangement



TYPE B

Intermediate Venting compact arrangement



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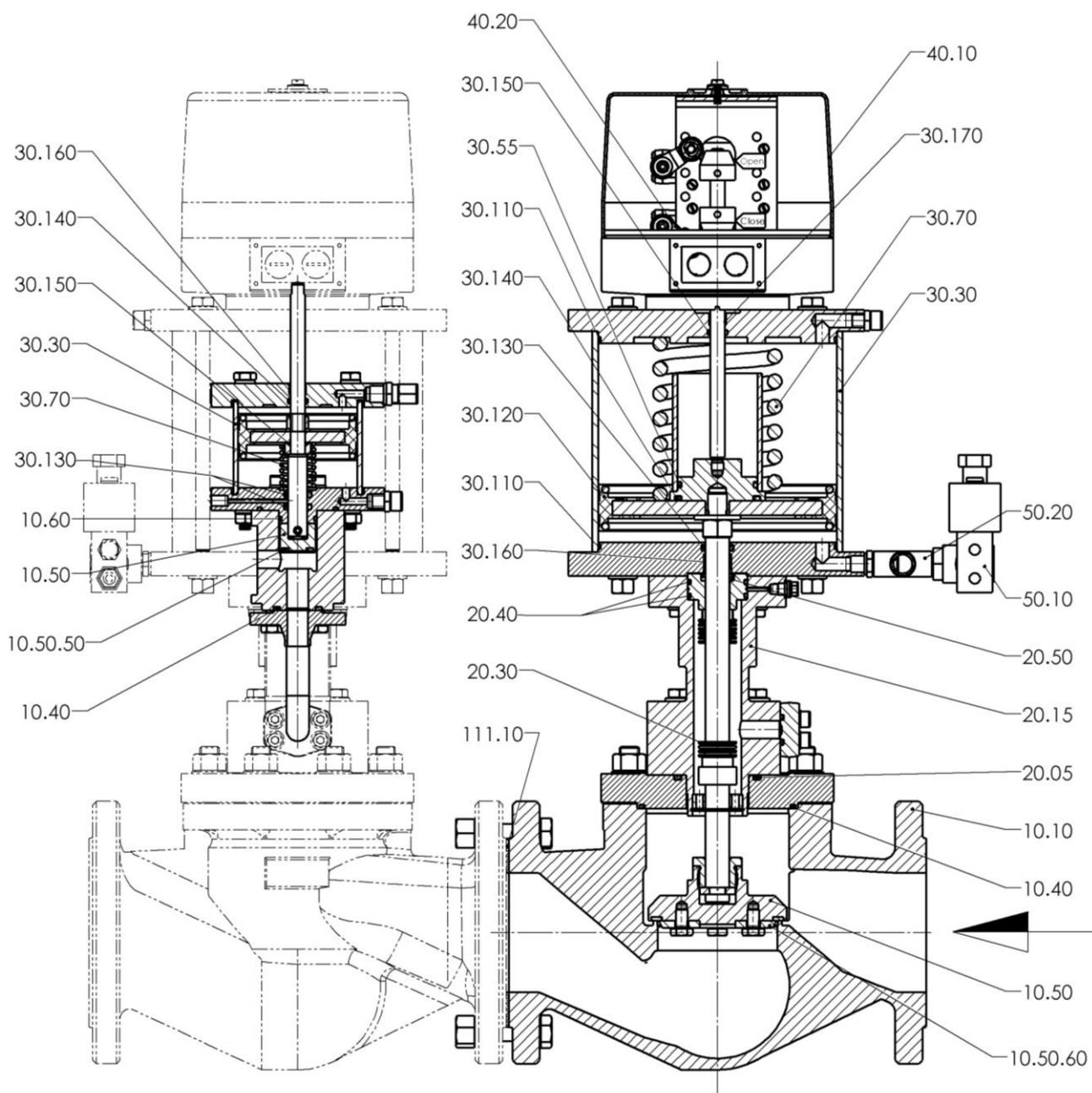
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**Intermediate Venting Valve
Type: KEV**

**Main Valve
Type: KVII/F**



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MAIN VALVE TYPE: KVII/F

10.10	Body	* 30.55	O-Ring
* 10.40	O-Ring	* 30.70	Compression spring
10.50	Plug	* 30.110	O-Ring
* 10.50.60	Plug gasket	* 30.120	T-DUO Sleeve
* 15.30	O-Ring	* 30.130	O-Ring
* 20.05	O-Ring	* 30.140	O-Ring
20.15	Bonnet	* 30.150	O-Ring
* 20.30	Stem with below	30.160	DU-Bushing
* 20.40	O-Ring	30.170	DU-Bushing
* 20.50	Lip seal	* 40.10	Protection cover
20.60	Guide bushing	* 40.20	Limit switch
30.30	Piston tube	* 50.10	3/2-Way solenoid valve
		* 50.20	Quick venting valve

INTERMEDIATE VENTING TYPE: KEV

* 10.40	O-Ring	* 30.70	Compression spring
10.50	Plug	* 30.130	O-Ring
* 10.50.50	Plug gasket	* 30.140	O-Ring
* 10.60	O-Ring	* 30.150	O-Ring
30.30	Piston tube	30.160	DU-Bushing
		* 111.10	Flange gasket
*	Spares		