

Electro-Pneumatically Operated
Quick-Closing Valve Combination for gas
 with intermediate venting
Type KVII/F-KVII/F DN 65–300 PN 10–40



DIN EN 161 KI.A
 DIN 3394-1 / T1 KI.A
 German Clean Air Act

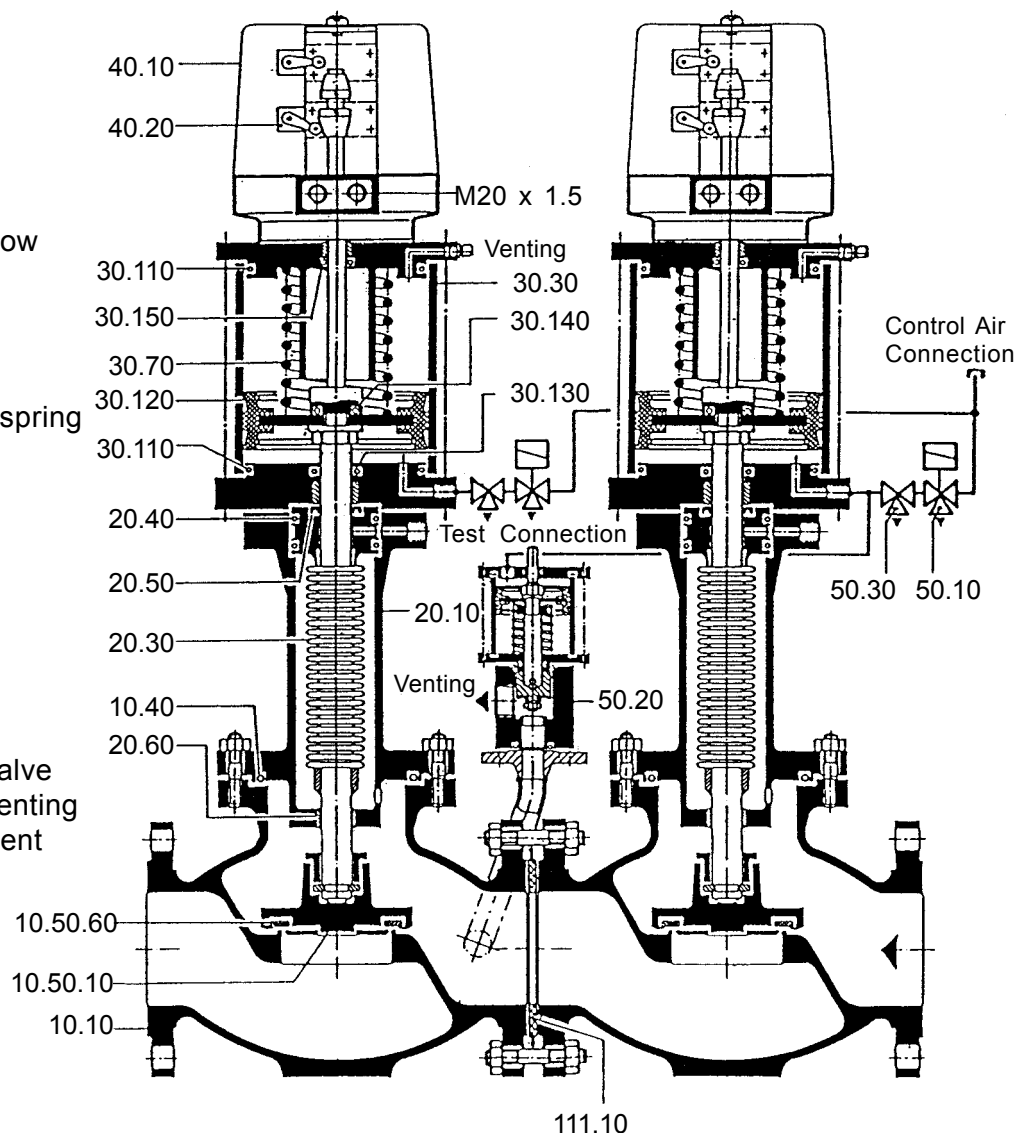
Pressure Equipment Directive 97/23/EC

CE 0035

- 10.10 Body
- * 10.40 Body gasket
- 10.50.10 Plug
- * 10.50.60 Plug gasket
- 20.10 Bonnet
- * 20.30 Stem with bellow
- * 20.40 O-ring
- * 20.50 Lip seal
- 20.60 Guide bushing
- 30.30 Piston tube
- * 30.70 Compression spring
- * 30.110 O-ring
- * 30.120 Piston sleeve
- * 30.130 O-ring
- * 30.140 O-ring
- * 30.150 O-ring
- * 111.10 Flange gasket

- * 40.10 Hood
- * 40.20 Limit switch
- * 50.10 3/2-way sol. valve
- * 50.20 Intermediate venting
- * 50.30 Quick-acting vent

- * Spare parts



6.01_GB_0108_KVII_F_KVII_F

Electro-Pneumatically Operated
Quick-Closing Valve Combination for gas
 with intermediate venting
Type KVII/F-KVII/F DN 65–300 PN 10–40



Field of Use

Gas firing systems on steam boilers TRD 412
 Gas-carrying pipe systems in all sectors of industry

Application

Automatically acting safety shut-off device in gas pipework upstream of burners,
 as per TRD 412, para 5.3.1
 Automatic double shut-off valve in piping systems.

Operating Data

Medium: Gaseous fuels according to PED 97/23/EC
 Gas to DVGW specification sheet G 260
 Industrial fuel gas and gas
 other media as per material selection

Operating temperature: 0 to 90 °C
 Ambient temperature.: -15 to 60 °C
 Control medium: Compressed air from 4 to 8 bar
 Control voltage: 230 V, 50 Hz, 24 VDC and other voltages
 Mounting position: optional

Valve Characteristics

Nominal diameter	DN	65	80	100	125	150	200	250	300
Adm. operating pressure	bar	10	10	10	6	6	6	3	2
k_{VS} value	m ³ /h	54	85	130	200	287	508	800	1150
Closing time		< 1 Sekunde							

Function

Quick closing action by spring force without compressed air as auxiliary energy,
 Intermediate venting opened by means of spring force
 solenoid control valve in idling state
 Valve opens by compressed air as auxiliary energy,
 solenoid control valve in operating state

Certification

Registration: PIN-No. according to PED 97/23/EC
 TÜV component tested: DIN-EN 161 Class A, up to and including 4 bar
 DIN 3394-1 / T1 Class A, from >4 to 16 bar
 TÜV certificate: In compliance with TA-Luft (German Clean Air Act)

Special Design Types

2-stage control
 Quick closing valve with control characteristic
 operated by the system medium

Note: Strainers are needed to comply with TRD 412 (see types SF and SFY)

Electro-Pneumatically Operated
Quick-Closing Valve Combination for gas
 with intermediate venting
Type KVII/F-KVII/F DN 65–300 PN 10–40



Technical Data

Single-seated straight-through globe valve to DIN standard

Stem sealing to TA-Luft requirements
 Stainless steel bellows with additional lip seal, test connection

Flexible plug gasket with metallic supporting element

Double stem guiding system maintenance-free

Medium flows in closing direction, gives additional sealing power

Piston actuator with integrated closing spring

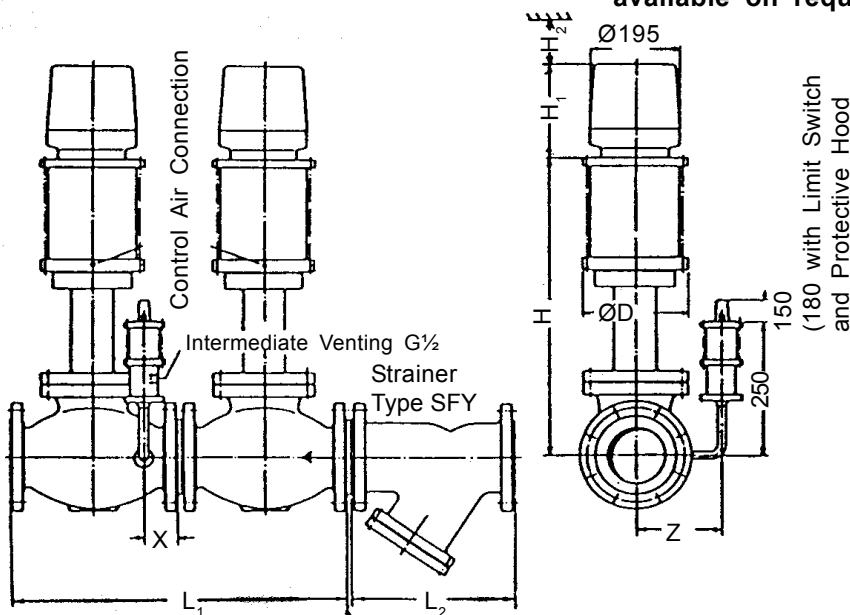
Materials

- Body: GP240GH
- Valve seat: 1.4571-armoured
- Plug gasket: NBR
- Bellows: 1.4541
- Stem: 1.4021
- Piston tube: Alu

Attachment Parts

- 2 3/2-way solenoid valves, directly actuated, pressure 0 – 8 bar
- 2 Quick-acting venting valves
- 4 Limit switches for OPEN and CLOSED positions
- 2 Protective hood, transparent, for limit switches and visual position indication

Other materials and attachment parts available on request.



Valve dimensions DIN PN 10 – 40

DN	mm								kg
	L ₁	D	H	H ₁	H ₂	Z	X		
65	580	195	530	180	120	210	55	98	
*80	620	250	550	180	120	210	68	125	
*100	700	250	560	180	120	230	70	155	
125	800	250	680	250	180	240	75	260	
*150	960	250	695	250	180	260	100	350	
*200	1200	370	770	250	180	290	120	485	
250	1460	370	890	250	180	310	120	645	
300	1700	370	905	250	180	350	120	800	

mm	kg
L ₂	SFY
290	19
310	24
350	35
400	51
480	71
500	133
730	154
850	255

L=ANSI
300 lbs
640
715
890
1120

Other Design Variants:
 Flanges ANSI 150 lbs. / Length to DIN
 * Flanges a. Length ANSI 300 lbs.
 Welded ends

6.01_GB_0108_KVII_F_KVII_F