SIEMENS

2- and 3-port valves with flanged connections, PN 40

V..F63..

VVF63..
VVF63..K

VXF63..

From the large-stroke valve line

- High-performance valves for medium temperatures of -25…220 °C
- Valve body of cast steel GP240GH
- DN 15…150
- k_{vs} 0.2…315 m^3/h
- Flange type 21, flange design B
- Equipable with electro-hydraulic actuators SKD.., SKB.., SKC..

[1] Usable up to a max. medium temperature of 150 °C

[2] Valves with supplemental designation ..**F** (e.g. VVF63.25-10**F**) - with special flange can be ordered exclusively for France.

[3] Valves with supplemental designation ..**L** (e.g. VVF63.25-10**L**) - with parabolic plug can be ordered for special applications (low noise).

DN = Nominal size

k_{vs} = Flow nominal value of cold water (5…30 °C) through the fully opened valve (H_{100}) at a differential pressure of 100 kPa (1 bar)

S_v = Rangeability k_{vs} / k_{vr}

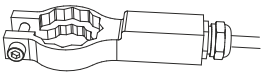
Δp_s = Maximum permissible differential pressure at which the motorized valve still closes securely against the pressure

Δp_{max} = Maximum permissible differential pressure across the valve's throughport for the entire positioning range of the motorized valve

	Valves		**Actuators**			**SKD..** [1]		**SKB..**		**SKC..**	
			Hub			20 mm				40 mm	
	PN 40		**Positioning force**			1000 N		2800 N		2800 N	
			Data sheet			N4561		N4664		N4566	
	⋈	**Stock no.**	**DN**	**k_{vs}**	**S_v**	**Δp_s**	**Δp_{max}**	**Δp_s**	**Δp_{max}**	**Δp_s**	**Δp_{max}**
				[m^3/h]		[kPa]					
Steam [2] Exclusive flow direction AB-A for steam. Also useful for maximum close-off pressure Δp_s and maximum differential pressure in operation (Δp_{max}) with liquids.	**VVF63.15-0.2** [2]	S55210-V100	15	0.2	> 50	4000	2000	4000	2000	-	-
	VVF63.15-0.32	S55210-V101	15	0.32							
	VVF63.15-0.5	S55210-V102	15	0.5							
	VVF63.15-0.8	S55210-V103	15	0.8							
	VVF63.15-1.25	S55210-V104	15	1.25							
	VVF63.15-2	S55210-V105	15	2							
	VVF63.15-3.2	S55210-V106	15	3.2							
	VVF63.20-6.3 [3]	S55210-V107	20	5							
	VVF63.25-5	S55210-V108	25	5							
	VVF63.25-8	S55210-V109	25	8							
	VVF63.32-16	S55210-V110	32	15			1500				
	VVF63.40-12.5	S55210-V111	40	12.5			1000				
	VVF63.40-20	S55210-V112	40	20							
	VVF63.50-31.5	S55210-V113	50	31.5			600		1900		
	VVF63.65-50	S55210-V114	65	50		-	-	-	-	4000	1000
	VVF63.80-80	S55210-V115	80	80							750
	VVF63.100-125	S55210-V116	100	125							500
	VVF63.125-200	S55210-V117	125	200							300
	VVF63.150-315 [3]	S55210-V118	150	280							200

Accessories / Spare parts

Accessories

Type	Stock no.	Description	Note	
ASZ6.6	S55845-Z108	Steam heating element	Required for medium temperatures < 0 °C	
-	4 284 8806 0	Steam sealing gland	When using valves of the V..F63.. lines DN 15...50 with a stem heating element and a medium temperature below -5 °C, the stem sealing gland must be replaced. With the gland 428488060, the valve can be used with water, water with anti-freeze and brines between -25 °C and 150 °C.	
-	4 679 5629 0	Steam sealing gland	When using valves of the V..F63.. lines DN 65…150 with a stem heating element and a medium temperature below -5 °C , the stem sealing gland must be replaced. With the gland 467956290, the valve can be used with water, water with anti-freeze and brines between -25 °C and 150 °C.	

Spare parts

Type	DN	Stock no.	Notes	
VVF63.. VXF63.. VVF63..K	DN 15…50	74 284 0061 0	Standard version with FEPM O-ring for medium temperatures between -5 °C and 220 °C.	
VVF63.. VXF63.. VVF63..K	DN 65…150	S55846-Z114	Standard version with FEPM O-ring for medium temperatures between -5 °C and 220 °C.	
VVF63.. VXF63..	DN 15…50	4 284 8806 0	When operating with medium temperatures below -5 °C. With the gland 428488060, the valve can be used with water, water with anti-freeze and brines between -25 °C and 150 °C.	
VVF63.. VXF63..	DN 65…150	4 679 5629 0	When operating with medium temperatures below -5 °C. With the gland 467956290, the valve can be used with water, water with anti-freeze and brines between -25 °C and 150 °C.	

Equipment combinations

Type	Stock no.	Stroke	Positioning force	Operating voltage	Positioning signal	Spring return time	Positioning time	LED	Manual adjuster	Auxiliary functions
SKD32.21	SKD32.21	20 mm	1000 N	AC 230 V	3-position	8 s	Opening: 30 s Closing: 10 s	-	Turn, position is maintained	[1], [2],
SKD32.50	SKD32.50					-	120 s			
SKD32.51	SKD32.51					8 s				
SKD60	SKD60			AC 24 V	0…10 V 4…20 mA 0…1000 Ω	-	Opening: 30 s Closing: 10 s	x		[3]
SKD62 **SKD62U**	SKD62 SKD62U					15 s				
SKD62UA	SKD62UA									[4]
SKD82.50	SKD82.50				3-position	-	120 s	-		[1], [2],

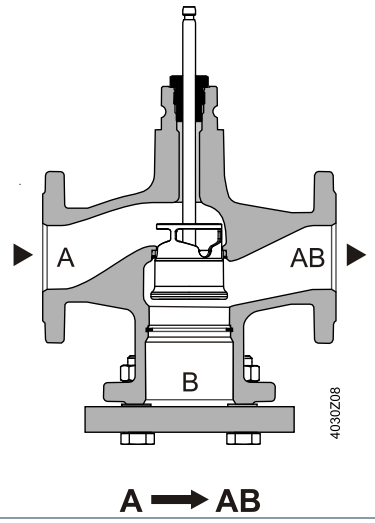
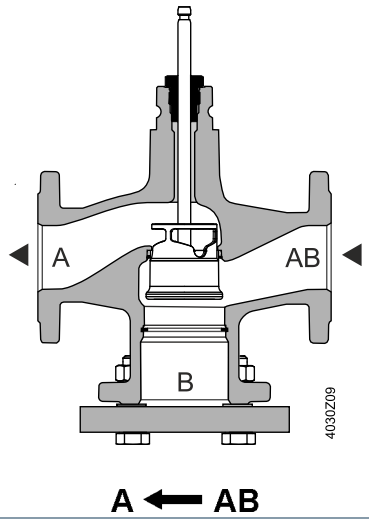
Product documentation

Title	Content	Document ID
Mounting instructions Valves VVF.. VXF..	Mounting instructions: DN 15…150	M4030 74 319 0749 0
Valves VVF..,VXF..,VVG41.., VXG41.., VVI41.., VXI41..	Basic documentation: Contains background information and general technical basics of valves	P4030

Technical design

The illustrations below show the basic design of the valves. Constructional features, such as the shape of plugs, may differ.

2-port valves

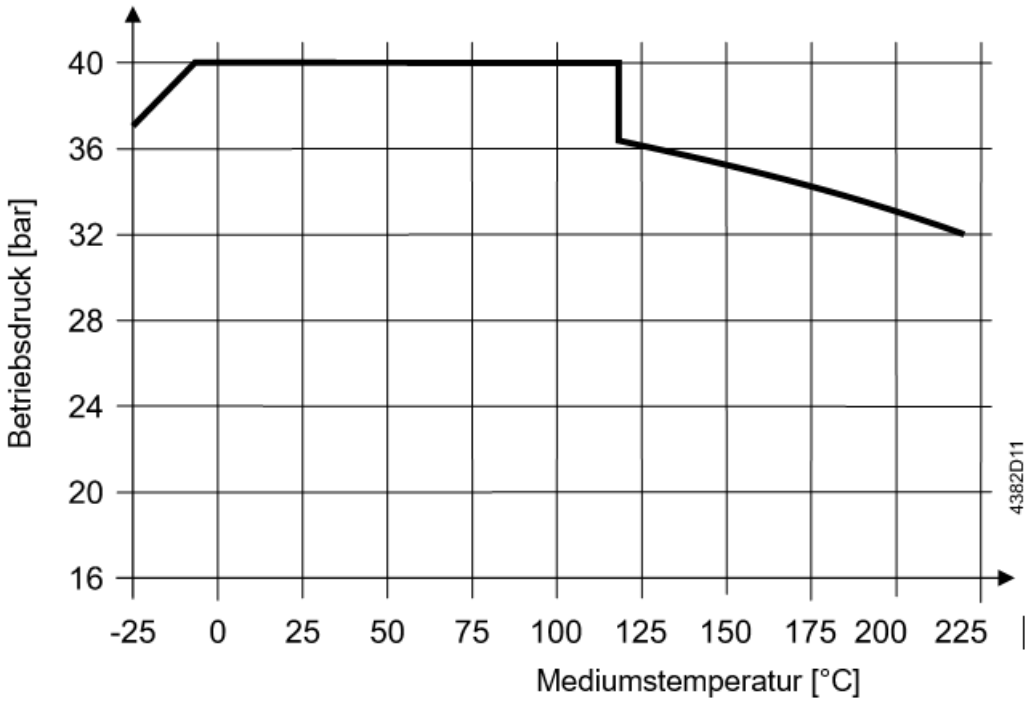
Liquids	**Steam (Liquids possible)**
Closing against the pressure	Closing with the pressure
	

2-port valves **pressure-compensated**

The VVF63..K valves use a pressure-compensated plug. This enables the same type of actuators to be used for the control of volumetric flow at higher differential pressures.

Operating pressure and medium temperature

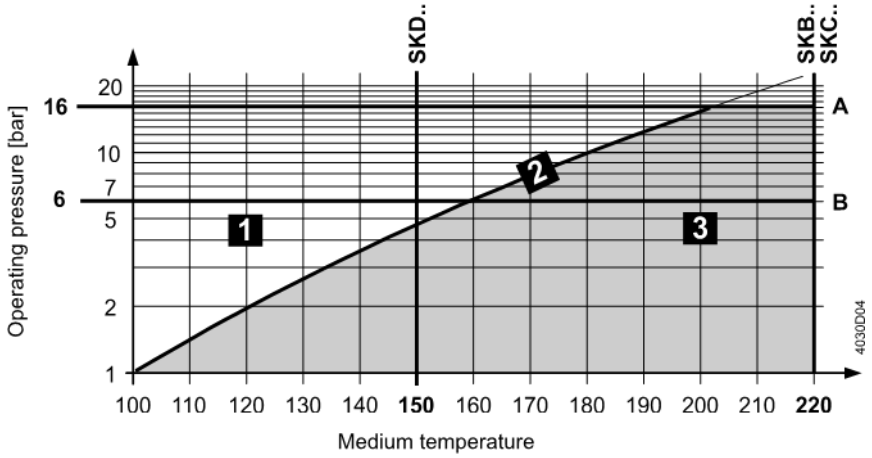
Liquids
with V..F63..



Operating pressure and operating temperatures according to ISO 7005, EN 1092, DIN 4747 and EN 12284

Note: All relevant local directives must be observed

Saturated steam
Superheated steam
with V..F63..



1	Water	-
2	Wet steam	To be avoided
3	Saturated steam Superheated steam	Permissible operating range
A	Subcritical pressure ratio	
B	Supercritical pressure ratio	