

ACVATIX™

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

V..F63..



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 m³/h
- Flange type 21, flange design B
- Equipable with electro-hydraulic actuators SKD.., SKB.., SKC..

Use

In boiler, district heating and refrigeration plants, cooling towers, heating groups, and in air handling units as control or shutoff valves.

For use in closed or open hydraulic circuits (observe cavitation).

Type summary

	Valves	Actuators					SKD.. ¹⁾		SKB..		SKC..		
		Stroke					20 mm				40 mm		
		PN 40	Positioning force					1000 N		2800 N		2800 N	
			Data sheet					N4561		N4664		N4566	
Liquids Preferred flow direction A-AB with liquids for low noise operation and high k_{vs} values with all actuator types		Stock no.	DN	k_{vs}	S_v	Δp_s	Δp_{max}	Δp_s	Δp_{max}	Δp_s	Δp_{max}		
	VVF63.15-0.2 ²⁾	S55210-V100	15	0.2	> 50	4000	2000	4000	2000	-	-		
	VVF63.15-0.32 ²⁾	S55210-V101	15	0.32		3500	2100	1200	1100	3200	750		
	VVF63.15-0.5 ²⁾	S55210-V102	15	0.5		450	400	1200	1150	1150	700		
	VVF63.15-0.8 ²⁾³⁾	S55210-V103	15	0.8		-	-	-	-	-	650		
	VVF63.15-1.25 ²⁾³⁾	S55210-V104	15	1.25		-	-	-	-	-	450		
	VVF63.15-2 ²⁾³⁾	S55210-V105	15	2		-	-	-	-	-	300		
	VVF63.15-3.2 ²⁾³⁾	S55210-V106	15	3.2		-	-	-	-	-	175		
	VVF63.20-6.3	S55210-V107	20	6.3		-	-	-	-	-	125		
	VVF63.25-5 ²⁾³⁾	S55210-V108	25	5		-	-	-	-	-	100		
	VVF63.25-8 ²⁾³⁾	S55210-V109	25	8		-	-	-	-	-	-		
	VVF63.32-16	S55210-V110	32	16		-	-	-	-	-	-		
	VVF63.40-12.5 ²⁾	S55210-V111	40	12.5		-	-	-	-	-	-		
	VVF63.40-20 ²⁾	S55210-V112	40	20		-	-	-	-	-	-		
	VVF63.50-31.5 ²⁾	S55210-V113	50	31.5		-	-	-	-	-	-		
	VVF63.65-50 ²⁾	S55210-V114	65	50		-	-	-	-	-	-		
	VVF63.80-80 ²⁾	S55210-V115	80	80		-	-	-	-	-	-		
	VVF63.100-125 ²⁾	S55210-V116	100	125		-	-	-	-	-	-		
	VVF63.125-200 ²⁾	S55210-V117	125	200		-	-	-	-	-	-		
	VVF63.150-315 ²⁾	S55210-V118	150	315		-	-	-	-	-	-		
Liquids and Steam Compensated valves are optimized for a single flow direction for liquids and steam. DN 50..150: AB-A	VVF63.50-40K	VVF63.50-40K	50	36	> 100	4000	1500	4000	2000	-	-		
	VVF63.65-63K	VVF63.65-63K	65	63		-	-	-	-	4000	2000		
	VVF63.80-100K	VVF63.80-100K	80	100		-	-	-	-	-	-		
	VVF63.100-150K	VVF63.100-150K	100	150		-	-	-	-	-	-		
	VVF63.125-220K	VVF63.125-220K	125	220	> 50	-	-	-	-	-	-		
	VVF63.150-315K	VVF63.150-315K	150	315		-	-	-	-	-	-		

- ¹⁾ Usable up to a max. medium temperature of 150 °C
²⁾ Valves with supplemental designation ..F (e.g. VVF63.25-10F) - with special flange can be ordered exclusively for France.
³⁾ Valves with supplemental designation ..L (e.g. VVF63.25-10L) - 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_m = Maximum permissible differential pressure across the valve's throughport for the entire positioning range ax 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]					
Steam²⁾ 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.	VVF63.15-0.2²⁾	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							
	VVF63.20-6.3³⁾	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							
	VVF63.40-12.5	S55210-V111	40	12.5							
	VVF63.40-20	S55210-V112	40	20							
	VVF63.50-31.5	S55210-V113	50	31.5							
	VVF63.65-50	S55210-V114	65	50							
	VVF63.80-80	S55210-V115	80	80							
	VVF63.100-125	S55210-V116	100	125							
	VVF63.125-200	S55210-V117	125	200							
	VVF63.150-315³⁾	S55210-V118	150	280							

	Valves	Actuators				SKD.. ¹⁾		SKB..		SKC..					
		Stroke				20 mm				40 mm					
		PN 40	Positioning force				1000 N		2800 N		2800 N				
			Data sheet				N4561		N4664		N4566				
Liquids		Stock no.	DN	k _{vs} [m ³ /h]	S _v	Δp _{max}									
						[kPa]									
		A → AB B	AB → A B	A → AB B	AB → A B	A → AB B	AB → A B	A → AB B	AB → A B	A → AB B	AB → A B				
		VXF63.15-1.6	S55210-V131	15	1.6	> 100	2000	200	2000	200	-	-			
		VXF63.15-2.5	S55210-V132	15	2.5										
		VXF63.15-4	S55210-V133	15	4										
		VXF63.20-6.3	S55210-V134	20	6.3										
		VXF63.25-6.3	S55210-V135	25	6.3										
		VXF63.25-10	S55210-V136	25	10										
		VXF63.32-16	S55210-V137	32	16		1100								
		VXF63.40-16	S55210-V138	40	16		650								
		VXF63.40-25	S55210-V139	40	25										
		VXF63.50-31.5	S55210-V140	50	31.5		400		1150						
		VXF63.65-50	S55210-V141	65	50		-	-	-	-	650	200			
		VXF63.80-80	S55210-V142	80	80						400	200			
		VXF63.100-125	S55210-V143	100	125						250	150			
		VXF63.125-200	S55210-V144	125	200						160	100			
		VXF63.150-315	S55210-V145	150	315						100	70			

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

²⁾ Operate with opposite flow direction with steam

³⁾ Reduced k_{vs} value

Note

When using a steam heating element with a medium temperature below -5 °C, the stem sealing gland must be replaced. In this case, the sealing gland must be ordered separately.

DN	Stock no.
DN 15...50	4 284 8806 0
DN 65...150	4 679 5629 0

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), 3) 4)
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		
SKD62 SKD62U	SKD62 SKD62U					15 s				
SKD62UA	SKD62UA									

Type	Stock no.	Stroke	Positioning force	Operating voltage	Positioning signal	Spring return time	Positioning time	LED	Manual adjuster	Auxiliary functions		
SKD82.50 SKD82.50U	SKD82.50 SKD82.50U				3-position	-	120 s	-		1), 2),		
SKD82.51 SKD82.51U	SKD82.51 SKD82.51U					8 s						
SKB32.50	SKB32.50	20 mm	2800 N	AC 230 V	3-position	-	120 s	-	Turn, position is maintained	1), 2),		
SKB32.51	SKB32.51					10 s						
SKB60	SKB60			AC 24 V	0...10 V 4...20 mA 0...1000 Ω	-	Opening: 120 s Closing: 10 s	x	Turn, position is maintained	3)		
SKB62 SKB62U	SKB62 SKB62U					10 s						
SKB62UA	SKB62UA					3-position	120 s	-				
SKB82.50 SKB82.50U	SKB82.50 SKB82.50U					10 s						
SKB82.51 SKB82.51U	SKB82.51 SKB82.51U			AC 230 V	3-position	-	120 s	-	Turn, position is maintained	1), 2),		
SKC32.60	SKC32.60					18 s						
SKC32.61	SKC32.61				AC 24 V	0...10 V 4...20 mA 0...1000 Ω	Opening: 120 s Closing: 20 s	x				
SKC60	SKC60					20 s						
SKC62 SKC62U	SKC62 SKC62U			AC 230 V	3-position	-	120 s	-	Turn, position is maintained	3)		
SKC62UA	SKC62UA					18 s						
SKC82.60 SKC82.60U	SKC82.60 SKC82.60U				AC 24 V	0...10 V 4...20 mA 0...1000 Ω	Opening: 120 s Closing: 20 s	x				
SKC82.61 SKC82.61U	SKC82.61 SKC82.61U					20 s						

1) Auxiliary switch (optional)

2) Potentiometer (optional)

3) Position feedback, forced control, selection of valve characteristic

4) Plus sequence control, stroke limitation, selection of acting direction

Ordering (Example)

Type	Stock no.	Description
VXF63.32-16	S55210-V137	3-port valve with flange, PN 40, DN32

Delivery

Valves, actuators, and accessories are packed and delivered separately.

Note

Counter-flanges, bolts, and gaskets must be provided on site.

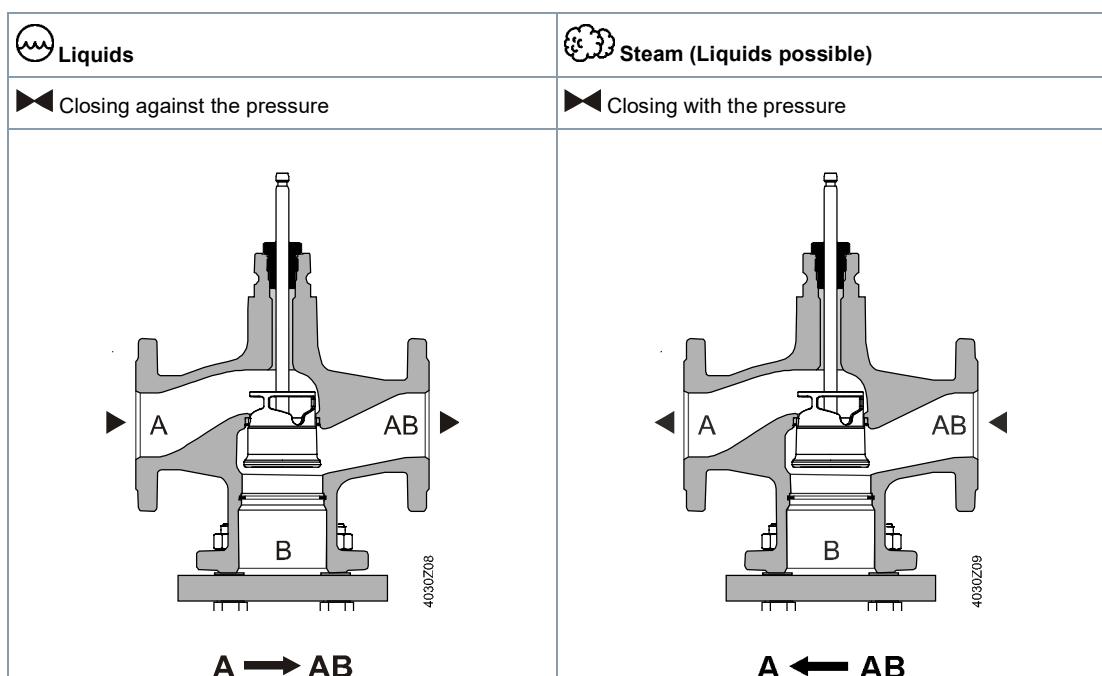
Product documentation

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



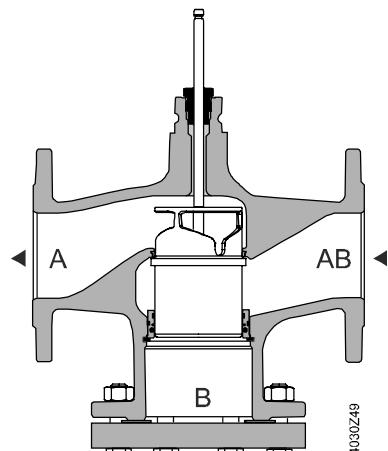
2-port valves pressure-compensated

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.



DN 50...150 Liquids and steam

► Closing with the pressure



A ← AB

Note

2-port valves do not become 3-port valves by removing the blank flange!

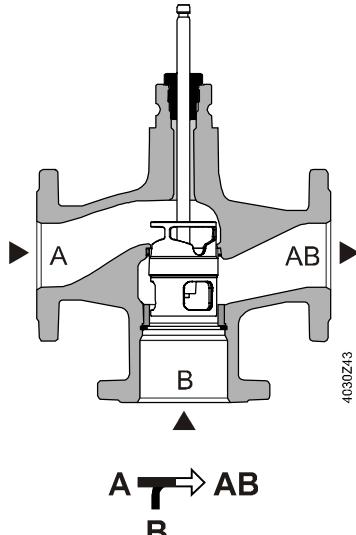
3-port valves



Liquids



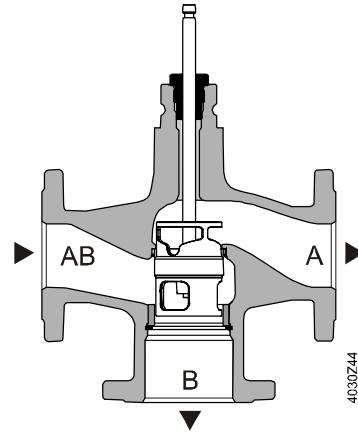
Mixing valve (preferred use)



A → AB
B



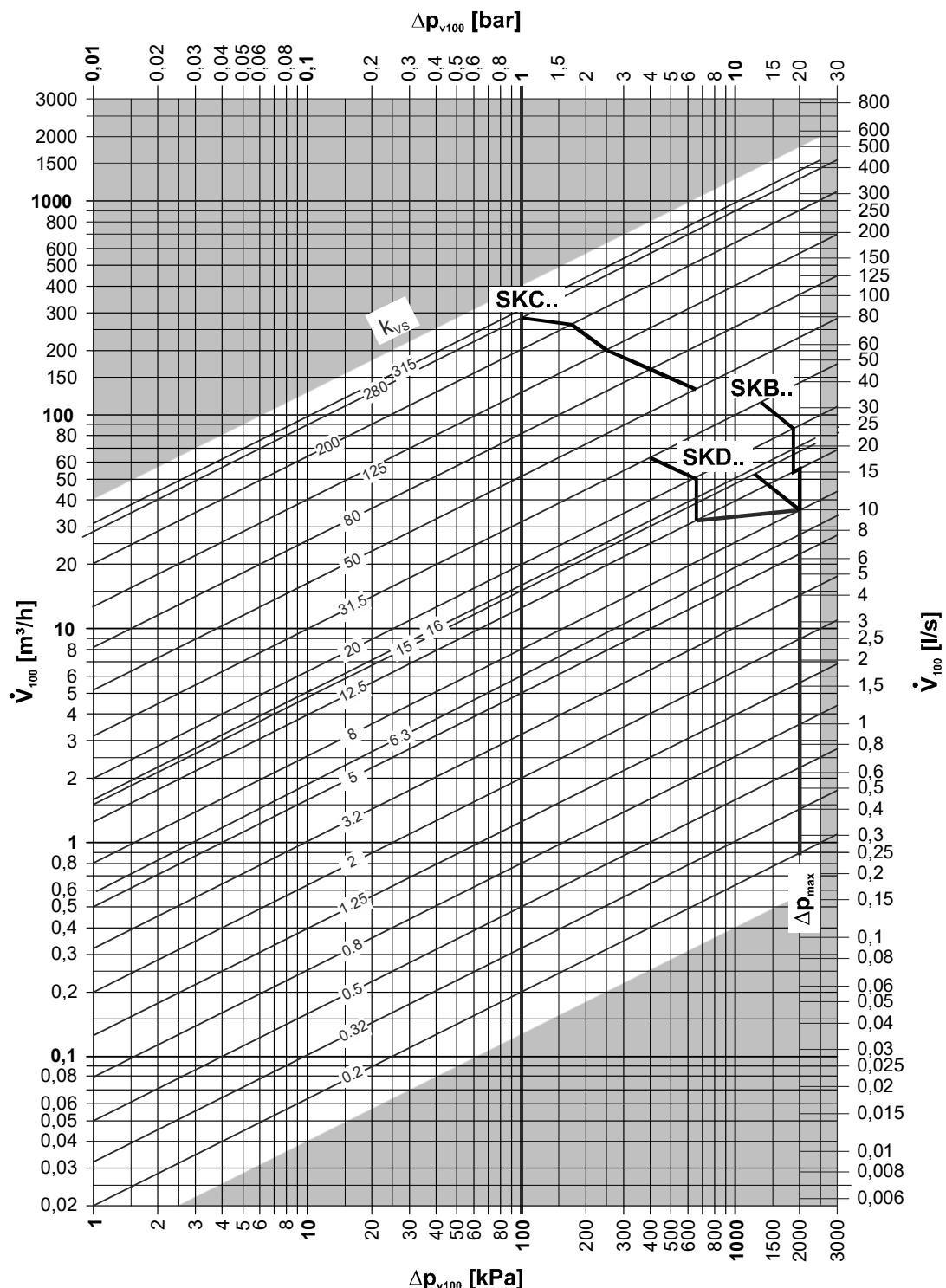
Diverting valve



AB → A
B

Sizing

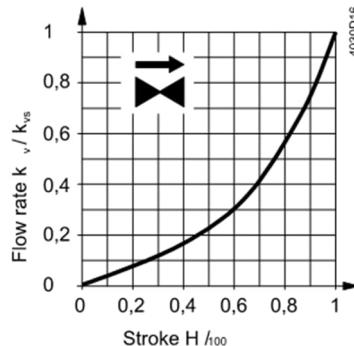
Flow chart



Δp_{\max} values apply for the mixing function; Δp_{\max} for the diverting function. See Type summary [▶ 2].

Valve characteristics

2-port valves



0...30 %: Linear

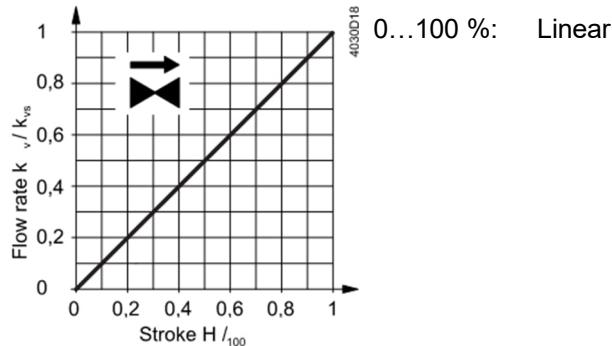
30...100 %: Equal percentage
 $n_{gl} = 3$ to VDI / VDE 2173

For high k_{vs} values, the valve characteristic is optimized for maximum volumetric flow k_{v100} .

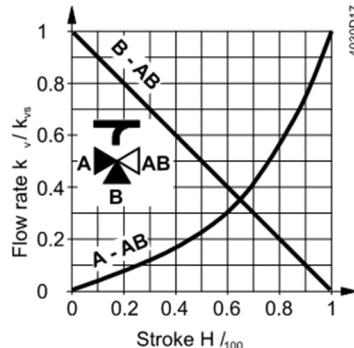
For product lines:

VVF63.125-220K

VVF63.150-315K



3-port valves



Throughport A-AB

0...30 %: Linear

30...100 %: Equal percentage
 $n_{gl} = 3$ to VDI / VDE 2173

For high k_{vs} values, the valve characteristic is optimized for maximum volumetric k_{v100} .

Bypass B-AB

0...100 %: Linear

Port AB = constant volumetric flow

Port A = variable volumetric flow

Port B = Bypass (variable volumetric flow)

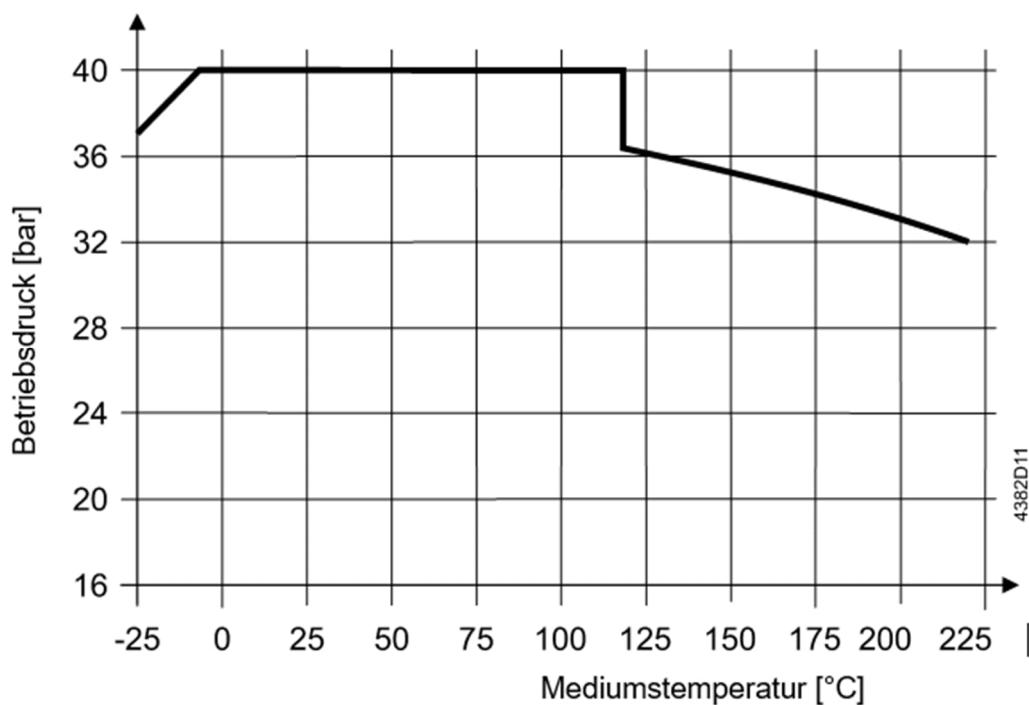
Mixing: Volumetric flow from port A and port B to port AB

Diverting: Volumetric flow from port AB to port A and port B

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

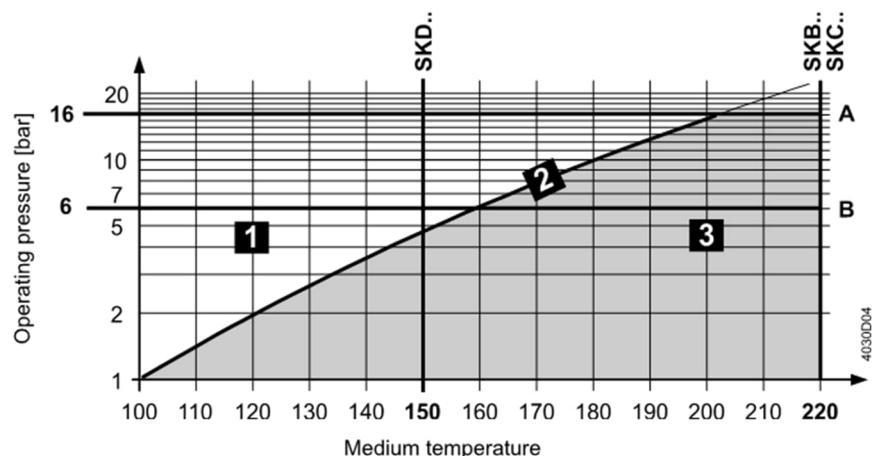
Note:

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	

Medium compatibility and temperature ranges

	Temperature range		VVF63..	VXF63..	VVF63..K	
	T _{min} [°C]	T _{max} [°C]				
Cold water	1	25	x	x	x	-
Low-temperature hot water	1	130	x	x	x	-
High-temperature hot water	130	150	x	x	x	-
	150	180	x	x	x	-
	180	220	x	x	x	-
Water with anti-freeze	-25	130	x	x	- ¹⁾	V..F63: For medium temperatures below -5 °C, the steam sealing gland must be replaced (DN15..50: 4 284 8806 0) (DN65..150: 4 679 5629 0).
	-10	130	x	x	- ¹⁾	
	-5	130	x	x	x	
	130	150	x	x	x	
Cooling water	1	25	x	x	x	Open circuits
Brines	-25	130	x	x	- ¹⁾	V..F63: For medium temperatures below -5 °C, the steam sealing gland must be replaced (DN15..50: 4 284 8806 0) (DN65..150: 4 679 5629 0).
	-10	130	x	x	- ¹⁾	
	-5	130	x	x	x	
	130	150	x	x	x	
Saturated steam	100	150	x	-	x	Min. dryness at inlet: 0.98
	150	200	x	-	x	
	200	220	x	-	x	
Superheated steam	120	150	x	-	x	-
	150	220	x	-	x	-
Heat transfer oils	20	220	x	x	x	On the basis of mineral oil, thermal oil
Super-clean water (demineralized and deionized water)	1	150	-	-	-	-
Demineralized water according to VDI2035 / SWKI_BT102-01	1	130	x	x	x	

¹⁾ VVF63..K valves cannot be used with media below -5 °C due to the compensation sealing material.

Fields of use

Fields of use		Type	
		VVF63..	VXF63..
Generation	Boiler plants	x	x
	District heating plants	x	-
	Refrigeration plants	x	x
	Cooling towers ²⁾	x	x
Distribution	Heating groups	x	x
	Air handling units	x	x

²⁾ Open circuits

Notes

Engineering

Mounting location

Preferably mount the valves at the return, as the temperature is lower there and the stain on the steam sealing gland is lower.

Dirt trap

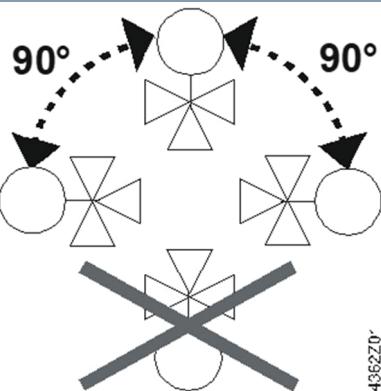
Mount a dirt filter or dirt trap before the valve to ensure proper functioning, and a long service life of the valves.

Remove dirt, welding beads, etc. from the valves and pipes.

Cavitation

Cavitation can be avoided by limiting the pressure differential across the valve depending on the medium temperature and the pre-pressure.

Mounting

Mounting position
 <p>Mounting positions apply to both 2- and 3-port valves.</p>

Commissioning



The valve may be put into operation only if actuator and valve are correctly assembled.

Note

Ensure that the actuator stem and valve stem are rigidly connected in all positions.

Function check

Valve	Throughport A->AB or AB->A	Bypass B->AB
Valve stem extends	Closes	Opens
Valve stem retracts	Opens	Closes

Maintenance

The valves are maintenance-free.

⚠ CAUTION



When servicing valves or actuators:

- Deactivate the pump and turn off the power supply
 - Close the shutoff valves
 - Fully reduce the pressure in the piping system and allow the pipes to completely cool down
- If necessary, disconnect the electrical wires.

Disposal

Do not dispose of the valve as part of domestic waste.

- Special treatment for individual components may be required by law or make ecological sense.
- Comply with all local and currently applicable laws and regulations.

Warranty

Application-related technical data are guaranteed only when the valves are used in combination with the Siemens actuators listed under "Type summary" and "Equipment combinations". When used with actuators of third-party manufacturers, any warranty by Siemens becomes void.

Technical data

Functional data		
PN class		PN 40
Connection		Flange
Operating pressures		See "Operating pressure", see page 11
Valve characteristic ¹⁾		See "Valve characteristics", page 10
Leakage rate	Throughport	DN 15...150 0...0.01 % of k _{vs} value (Class IV)
	Bypass	0.5...2 % of k _{vs} value with SKD.., SKB.., SKC..
Permissible media		See "Medium compatibility and temperature ranges", page 12 Heat transfer oils
Medium temperature		-25...220 °C ²⁾
	VVF63..K	-5...220 °C
Rangeability	DN15 k _{vs} 0.2...1.25	>50
	DN15 k _{vs} 2 ... DN150	>100
Nominal stroke	Up to DN 50	20 mm
	From DN 65	40 mm

Materials		
Valve body		Cast steel GP240GH
Blank flange	VVF..	P265GH
Valve stem, seat, plug		Stainless steel
Steam sealing gland		Stainless steel
	DN 15...150	FEPM (silicone free)
Compensation sealing		Stainless steel
	DN 15...150	FEPM (silicone free)

Standards and directives		
Pressure Equipment Directive Pressure accessories		PED 2014/68/EU Scope: Article 1, section 1 Definition: Article 2, section 5
Liquid group 2	DN 15...40	Without CE-marking, as per article 4, section 3 (sound engineering practice) ³⁾
	DN 50...80	Category I, Module A, with CE-marking, as per article 14, section 2
	DN 100...150	Category II, Module A2, with CE-marking, as per article 14, section 2
		Notified body number 0036
EU conformity (CE)	DN 50...150	A5W00006523 ⁴⁾
PN class		ISO 7268

Standards and directives		
Operating pressure		ISO 7005, EN1092, DIN 4747, EN 12284
Flanges		ISO 7005
Length of flanged valves		DIN EN 558-1, line 1
Valve characteristic		VDI 2173
Leakage rate		Throughport, Bypass
Water treatment		according to EN 60534-4 / EN 1349
Water treatment		VDI 2035

Environmental conditions		
Storage		IEC 60721-3-1
	Class	1K3
	Temperature	-15...55 °C
	Rel. humidity	5...95 % r.h.
Transportation		IEC 60721-3-2
	Class	2K3, 2M2
	Temperature	-30...65 °C
	Rel. humidity	< 95 % r.h.
Operation		IEC 60721-3-3
	Class	3K5, 3Z11
	Temperature	-15...55 °C
	Rel. humidity	5...95 % r.h.

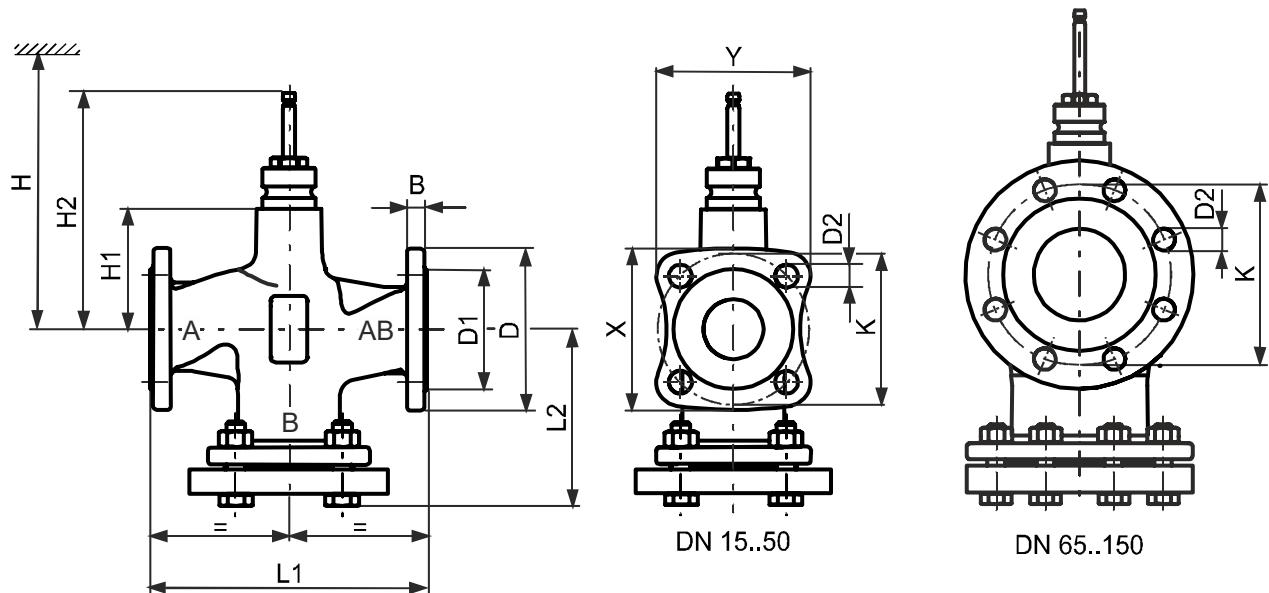
Environmental compatibility		
The product environmental declarations A5W00049179 ⁴⁾ , A5W00049180 ⁴⁾ und A5W00049181 ⁴⁾ contain data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).		

Dimensions / Weight		
Dimensions		See Dimensions [▶ 17]
Weight		

- ¹⁾ For certain valve lines and high K_{vs} values, the valve characteristic is optimized for maximum volumetric flow $Kv100$.
- ²⁾ With SKD..: Usable up to a max. medium temperature of 150 °C
For medium temperatures < -5 °C, the stem sealing gland must be replaced, see page 4 [▶ 5]
- ³⁾ Valves where $PS \times DN < 1000$ do not require special testing and cannot carry the CE-marking
- ⁴⁾ The documents can be downloaded from <http://www.siemens.com/bt/download>

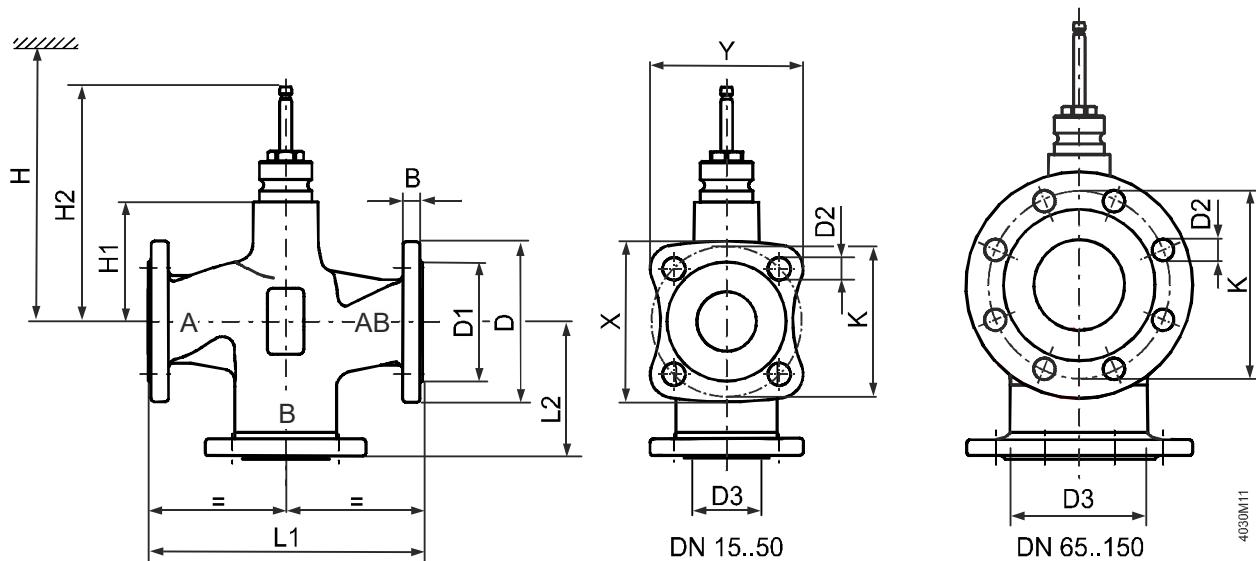
Dimensions

VVF63..



Type	DN	B	D	D1	D2	L1	L2	X	Y	K	H1	H2	H			kg	
													SKD	SKB	SKC		
[mm]																	[kg]
VVF63..	15	15	95	46	14 (4x)	130	87.5	79	76	65	63	159.5	563	638	-	5.3	
	20	17	105	56		150	99.5	86.6	83	75		144.4				6.5	
	25		115	65		160	104.5	94.4	90.1	85		159.5				7.5	
	32	16	140	76	18 (4x)	180	119	115.6	110.7	100	60	156.5	560	635	-	10.6	
	40		150	84		200	129	123.2	117.8	110		156.5				12.3	
	50	18	165	99		230	146	135.2	128.4	125		100	196.5	600	675	13.4	
	65	20	182	118		290	178	-	-	145	115	231.5	-	690	29.1		
	80	22	197	132		310	190			160					36.9		
	100		232	156	22 (8x)	350	212.5			190	146	262.5	-	721	49.8		
	125	24	267	184		400	242			220	159	275.5	-	734	73.0		
	150	26	297	211	26(8x)	480	284			250	186.5	303			762	102.4	
VVF63..K	50	18	165	99	18 (4x)	230	146	135.2	128.4	125	100	196.5	600	675	-	17.4	
	65	20	182	118		290	178	-	-	145	115	231.5	-	690	29.2		
	80	22	197	132		310	190			160					37.1		
	100		232	156	22 (8x)	350	212.5			190	146	262.5	-	721	50.2		
	125	24	267	184		400	242			220	159	275.5	-	734	73.7		
	150	26	297	211	26(8x)	480	284			250	186.5	303			762	103.9	

VXF63..



Type	DN	B	D	D1	D2	L1	L2	X	Y	K	H1	H2	H			kg
		SKD	SKB	SKC												
[mm]																
VXF63..	15	15	95	46	14 (4x)	130	65	79	76	65	63	159.5	563	638	-	4.3
	20		105	56		150	75	86.6	83	75						5.2
	25	17	115	65		160	80	94.4	90.1	85						6.0
	32		140	76	18 (4x)	180	90	115.6	110.7	100	60	156.5	560	635	-	8.0
	40	16	150	84		200	100	123.2	117.8	110						9.4
	50	18	165	99		230	115	135.2	128.4	125						13.5
	65	20	182	118		290	145			145	115	231.5	-	690	23.5	
	80	22	197	132		310	155			160					30.1	
	100		232	156	22 (8x)	350	175			190	146	262.5	-	721	39.8	
	125	24	267	184	26(8x)	400	200			220	159	275.5			734	58.4
	150	26	95	211		480	240			250	186.5	303			762	84.0

¹⁾ Bypass port clear inner width

Revision numbers

Type	Valid from rev. no.	Type	Valid from rev. no.	Type	Valid from rev. no.
VVF63.15-0.2	...B	VVF63.50-40K	...B	VXF63.15-1.6	...B
VVF63.15-0.32	...B	VVF63.65-63K	...B	VXF63.15-2.5	...B
VVF63.15-0.5	...B	VVF63.80-100K	...B	VXF63.15-4	...B
VVF63.15-0.8	...B	VVF63.100-150K	...B	VXF63.20-6.3	...B
VVF63.15-1.25	...B	VVF63.125-220K	...B	VXF63.25-6.3	...B
VVF63.15-2	...B	VVF63.150-315K	...B	VXF63.25-10	...B
VVF63.15-3.2	...B			VXF63.32-16	...B
VVF63.20-6.3	...B			VXF63.40-16	...B
VVF63.25-5	...B			VXF63.40-25	...B
VVF63.25-8	...B			VXF63.50-31.5	...B
VVF63.32-16	...B			VXF63.65-50	...B
VVF63.40-12.5	...B			VXF63.80-80	...B
VVF63.40-20	...B			VXF63.100-125	...B
VVF63.50-31.5	...B			VXF63.125-200	...B
VVF63.65-50	...B			VXF63.150-315	...B
VVF63.80-80	...B				
VVF63.100-125	...B				
VVF63.125-200	...B				
VVF63.150-315	...B				

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