



ACVATIX™

## 2- and 3-port valves with V..F63.. flanged connections, PN 40

From the large-stroke valve line

- 
- High-performance valves for medium temperatures from -25...220 °C
  - Valve body of cast steel GP240GH
  - DN 15...150
  - $k_{vs}$  0.2...315 m<sup>3</sup>/h
  - Flange type 21, flange design B
  - VVF63..K with pressure compensation to handle high differential pressure
  - 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 PN 40	Actuators Stroke Positioning force Data sheet	SKD.. <sup>1)</sup>		SKB..		SKC..			
		20 mm		40 mm					
		1000 N		2800 N		2800 N			
		N4561		N4664		N4566			
	Stock no.	DN	k <sub>vs</sub> [m <sup>3</sup> /h]	S <sub>v</sub>	Δp <sub>s</sub>	Δp <sub>max</sub>	Δp <sub>s</sub>	Δp <sub>max</sub>	
<b>Liquids</b> Preferred flow direction A-AB with liquids for low noise operation and high kvs-values with all actuator types	VVF63.15-0.2 <sup>2)</sup>	S55210-V100	15	0.2	> 50	4000	2000	4000	2000
	VVF63.15-0.32 <sup>2)</sup>	S55210-V101	15	0.32					
	VVF63.15-0.5 <sup>2)</sup>	S55210-V102	15	0.5					
	VVF63.15-0.8 <sup>2)3)</sup>	S55210-V103	15	0.8					
	VVF63.15-1.25 <sup>2)3)</sup>	S55210-V104	15	1.25					
	VVF63.15-2 <sup>2)3)</sup>	S55210-V105	15	2		3500	2100	3200	-
	VVF63.15-3.2 <sup>2)3)</sup>	S55210-V106	15	3.2					
	VVF63.20-6.3	S55210-V107	20	6.3					
	VVF63.25-5 <sup>2)3)</sup>	S55210-V108	25	5					
	VVF63.25-8 <sup>2)3)</sup>	S55210-V109	25	8					
	VVF63.32-16	S55210-V110	32	16		1200	1100	3200	-
	VVF63.40-12.5 <sup>2)</sup>	S55210-V111	40	12.5					
	VVF63.40-20 <sup>2)</sup>	S55210-V112	40	20		750	650	2000	1800
	VVF63.50-31.5 <sup>2)</sup>	S55210-V113	50	31.5	> 100	450	400	1200	1150
	VVF63.65-50 <sup>2)</sup>	S55210-V114	65	50					
	VVF63.80-80 <sup>2)</sup>	S55210-V115	80	80					
	VVF63.100-125 <sup>2)</sup>	S55210-V116	100	125					
	VVF63.125-200 <sup>2)</sup>	S55210-V117	125	200					
	VVF63.150-315 <sup>2)</sup>	S55210-V118	150	315		> 100	-	-	-
<b>Liquids and Steam</b> Compensated valves are optimized for a single flow direction for liquids and steam. DN 50..150: AB-A	VVF63.50-40K	S55210-V119	50	36					
	VVF63.65-63K	S55210-V120	65	63					
	VVF63.80-100K	S55210-V121	80	100					
	VVF63.100-150K	S55210-V122	100	150		> 50	-	-	4000
	VVF63.125-220K	S55210-V123	125	220					
	VVF63.150-315K	S55210-V124	150	315					

<sup>1)</sup> Usable up to a max. medium temperature of 150 °C

<sup>2)</sup> Valve with supplemental designation ..F (e.g. VVF63.25-10F) – with special flange can be ordered exclusively for France.

<sup>3)</sup> Valve with supplemental designation..L (e.g. VVF63.25-10L) – with parabolic plug can be ordered for special applications (low noise)

DN = Nominal size

k<sub>vs</sub> = Flow nominal value of cold water (5...30 °C) through the fully opened valve (H<sub>100</sub>) at a differential pressure of 100 kPa (1 bar)

S<sub>v</sub> = Rangeability

Δp<sub>s</sub> = Maximum permissible differential pressure at which the motorized valve still closes securely against the pressure

Δp<sub>max</sub> = Maximum permissible differential pressure across the valve's throughport for the entire positioning range of the motorized valve

Valves	Actuators Stroke Positioning force Data sheet	SKD.. <sup>1)</sup>		SKB..		SKC..	
		20 mm		40 mm			
		1000 N		2800 N		2800 N	
		N4561		N4664		N4566	
		Stock no.	DN	k <sub>vs</sub> [m <sup>3</sup> /h]	S <sub>v</sub>	Δp <sub>s</sub>	Δp <sub>max</sub>
						Δp <sub>s</sub>	Δp <sub>max</sub>
<b>Steam<sup>2)</sup></b> Exclusive flow direction AB-A for steam. Also useful for maximum close-off pressure Δp <sub>s</sub> and maximum differential pressure in operation (Δp <sub>max</sub> ) with liquids.	VVF63.15-0.2	S55210-V101	15	0.2	> 50	4000	2000
	VVF63.15-0.32	S55210-V103	15	0.32			
	VVF63.15-0.5	S55210-V105	15	0.5			
	VVF63.15-0.8	S55210-V107	15	0.8			
	VVF63.15-1.25	S55210-V109	15	1.25			
	VVF63.15-2	S55210-V111	15	2			
	VVF63.15-3.2	S55210-V113	15	3.2		1500	2000
	VVF63.20-6.3 <sup>3)</sup>	S55210-V116	20	5			
	VVF63.25-5	S55210-V117	25	5			
	VVF63.25-8	S55210-V119	25	8	> 50	1000	1900
	VVF63.32-16 <sup>3)</sup>	S55210-V154	32	15			
	VVF63.40-12.5	S55210-V123	40	12.5			
	VVF63.40-20	S55210-V125	40	20		600	4000
	VVF63.50-31.5	S55210-V127	50	31.5			
	VVF63.65-50	S55210-V129	65	50			
	VVF63.80-80	S55210-V131	80	80	> 50	750	1000
	VVF63.100-125	S55210-V133	100	125			
	VVF63.125-200	S55210-V135	125	200			
	VVF63.150-315 <sup>3)</sup>	S55210-V155	150	280		500	300
<b>Liquids</b>	VXF63.15-1.6	S55210-V131	15	1.6	> 100	Δp <sub>max</sub> [kPa]	
	VXF63.15-2.5	S55210-V132	15	2.5		A  B	AB  A
	VXF63.15-4	S55210-V133	15	4		2000	200
	VXF63.20-6.3	S55210-V134	20	6.3		200	2000
	VXF63.25-6.3	S55210-V135	25	6.3		1100	200
	VXF63.25-10	S55210-V136	25	10		650	1150
	VXF63.32-16	S55210-V137	32	16		400	650
	VXF63.40-16	S55210-V138	40	16		-	200
	VXF63.40-25	S55210-V139	40	25		-	400
	VXF63.50-31.5	S55210-V140	50	31.5		-	250
	VXF63.65-50	S55210-V141	65	50		-	160
	VXF63.80-80	S55210-V142	80	80		-	100
	VXF63.100-125	S55210-V143	100	125		-	70
	VXF63.125-200	S55210-V144	125	200		-	200
	VXF63.150-315	S55210-V145	150	315		-	200
						-	150
						-	100
						-	70

<sup>1)</sup> Usable up to a max. medium temperature of 150 °C

<sup>2)</sup> Operate with opposite flow direction with steam

<sup>3)</sup> Reduced k<sub>vs</sub> value

**Note**

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

DN	Stock number
DN 15...50	4 284 8806 0
DN 65...150	4 679 5629 0

Spare parts, Rev.-No.

See page 18

**Accessories**

Product number	Stock number	Description	Note	
ASZ6.6	S55845-Z108	Stem heating element	Required for medium temperatures < 0 °C	
-	4 284 8806 0	Stem 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 antifreeze and brines between -25 °C and 150 °C.	
-	4 679 5629 0	Stem 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 antifreeze and brines between -25 °C and 150 °C.	

## Equipment combinations

Product number	Description	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: 15 s	✓		3)			
SKD62	SKD62					15 s							
SKD62U	SKD62U				3-position	-	120 s			4)			
SKD62UA	SKD62UA					8 s							
SKD82.50	SKD82.50	20 mm	2800 N	AC 230 V	0...10 V 4...20 mA 0...1000 Ω	-	Opening: 120 s Closing:10 s	✓	Turn, Position is maintained	1), 2),			
SKD82.50U	SKD82.50U					10 s							
SKD82.51	SKD82.51			AC 24 V		-							
SKD82.51U	SKD82.51U			3-position	10 s	120 s							
SKB32.50	SKB32.50	40 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	✓		3)			
SKB62	SKB62					10 s							
SKB62U	SKB62U				3-position	-	120 s	-		4)			
SKB62UA	SKB62UA					10 s							
SKB82.50	SKB82.50				3-position	-	120 s			1), 2),			
SKB82.50U	SKB82.50U					18 s							
SKB82.51	SKB82.51					20 s	Opening: 120 s Closing: 20 s						
SKC32.60	SKC32.60	40 mm	2800 N	AC 230 V	3-position	-	120 s	-	Turn, Position is maintained	1), 2),			
SKC32.61	SKC32.61					18 s							
SKC60	SKC60			AC 24 V	0...10 V 4...20 mA 0...1000 Ω	-	Opening: 120 s Closing: 20 s	✓		3)			
SKC62	SKC62					20 s							
SKC62U	SKC62U				3-position	-	120 s	-		4)			
SKC62UA	SKC62UA					18 s							
SKC82.60	SKC82.60					-	120 s			1), 2),			
SKC82.60U	SKC82.60U					-							
SKC82.61	SKC82.61					-	120 s	-					
SKC82.61U	SKC82.61U					-							

1) Auxiliary switch (optional)

2) Potentiometer (optional)

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

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

## Ordering

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### Example

Product number	Stock number	Description
VXF63.32-16	S55210-V137	3-port valve with flange, PN 40, DN32

Delivery

Valves, actuators and accessories are packed and delivered as separate items.

Note

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

### Product documentation

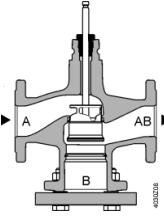
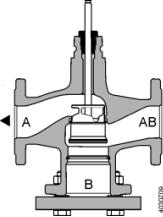
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• Mounting Instructions	M4030 74 319 0749 0	DN 15...150
• Basic documentation	P4030	Contains background information and technical basic knowledge of valves

## Technical and mechanical design

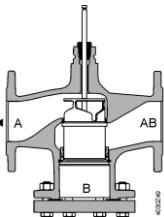
The illustrations below show the basic design of the valves. Constructional features, such as the shape of plugs, may differ.

### 2-port valves

 Liquids	 Steam ( Liquids possible )
 Closing against the pressure	 Closing with the pressure
	
<b>A → AB</b>	<b>A ← AB</b>

### 2-port valves pressure compensated

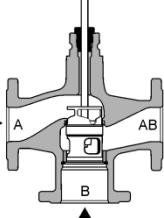
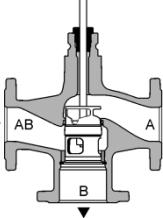
The VVF63..K valves use a pressure-compensated plug. This enables the same type of actuators to be used for the control of volumetric flow at higher differential pressures.

 DN 50...150 Liquids and Steam	
 Closing with the pressure	
	
<b>A ← AB</b>	

Note

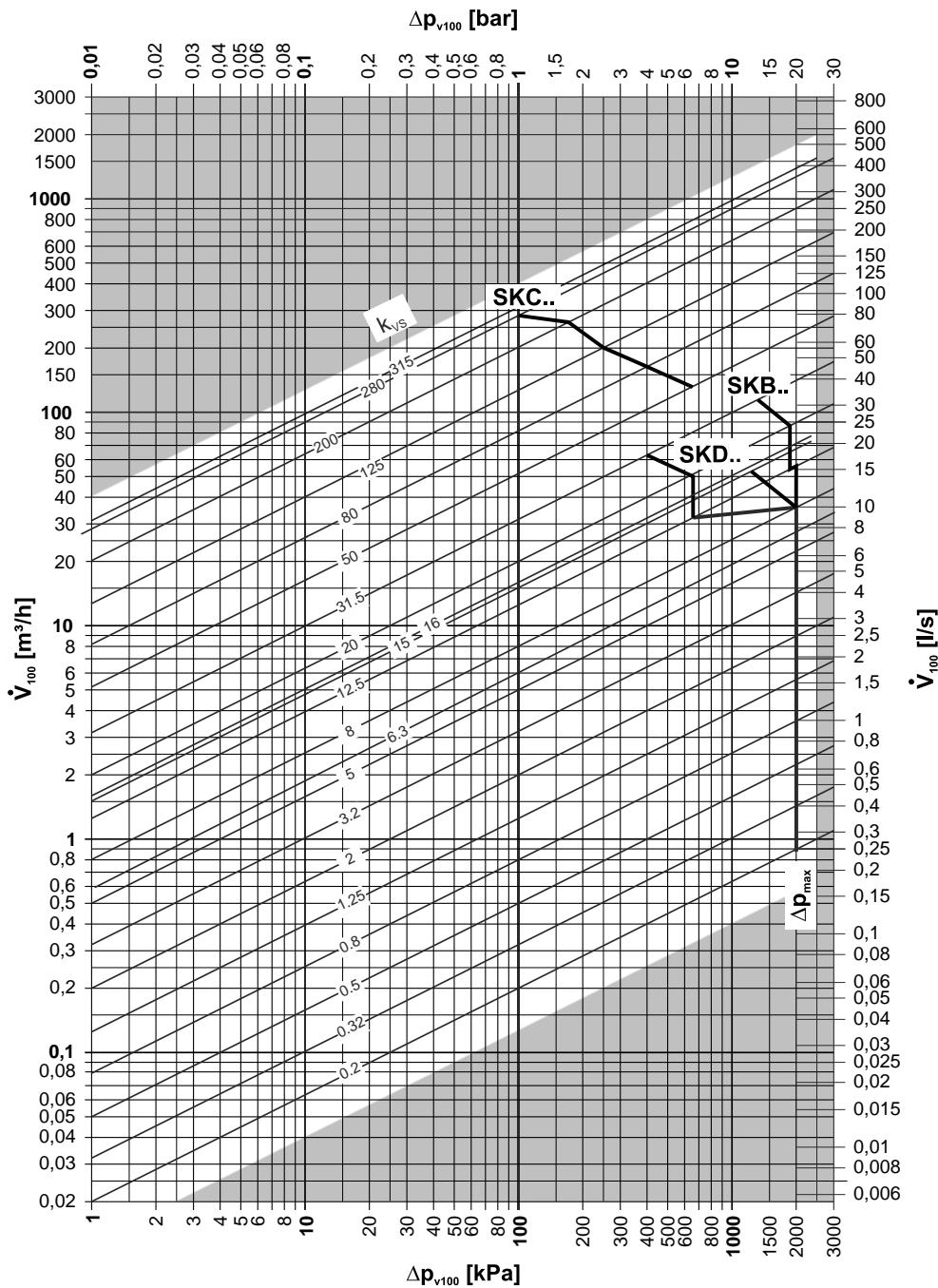
**2-port valves do not become 3-port valves by removing the blank flange!**

### 3-port valves

 Liquids	
 Mixing valve (preferred use)	 Diverting valve
	
<b>A → AB</b>	<b>AB → A</b>
<b>B</b>	<b>B</b>

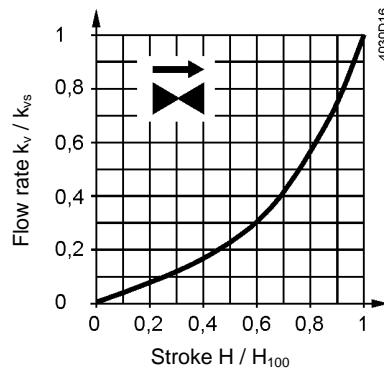
## Sizing

### Flow chart



$\Delta p_{\max}$  values apply for the mixing function.  $\Delta p_{\max}$  values for the diverting function see table "Type summary", page 3

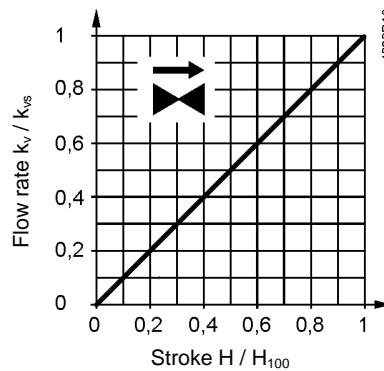
## Valve characteristics 2-port valves



0...30 %: Linear  
30...100 %: Equal percentage  
 $n_{gl} = 3$  to VDI / VDE 2173

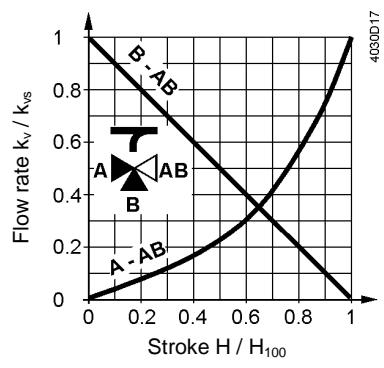
For high  $k_{vs}$  values the valve characteristic is optimized for maximum volumetric flow  $k_{V100}$ .

For product lines:  
VVF63.125-220K  
VVF63.150-315K



0...100 %: Linear

## 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 flow  $k_{V100}$ .

### Bypass B-AB

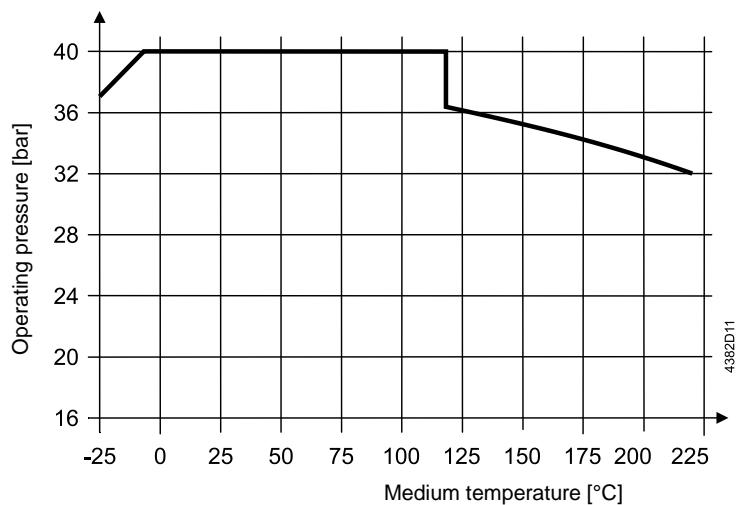
0...100 %: Linear  
Port AB = constant volumetric flow  
Port A = variable volumetric flow  
Port B = Bypass (variable volumetric flow)

**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..

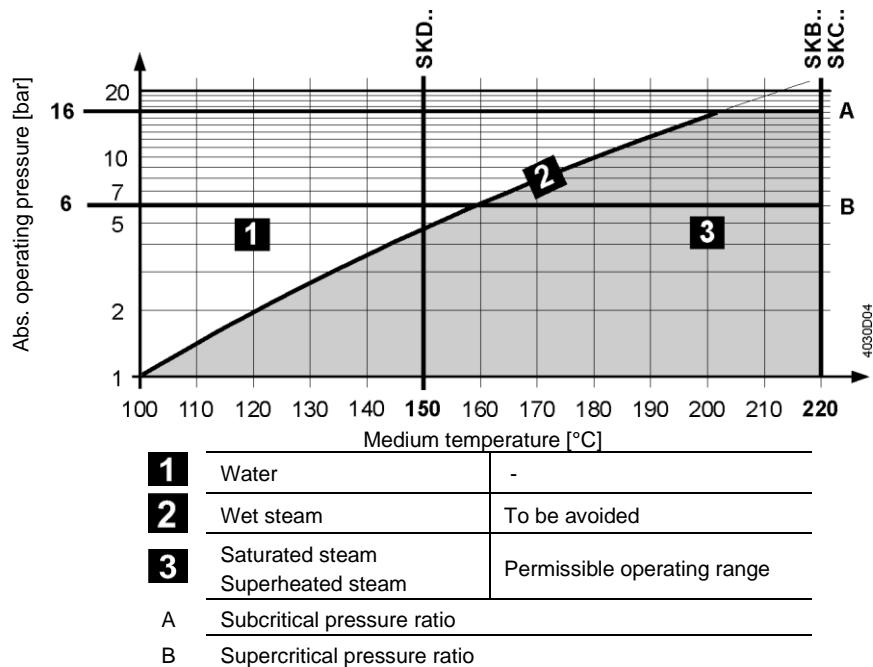


**Operating pressure and operating temperatures according to ISO 7005,  
EN 1092, DIN 4747 and EN 12284**

Notes

All relevant local directives must be observed

**Saturated steam**  
**Superheated steam**  
with VVF63..



## Medium compatibility and temperature ranges

	Temperatur e range		VVF63..	VXF63..	VVF63..K	
	T <sub>min</sub> [°C]	T <sub>max</sub> [°C]				
Cold water	1	25	■	■	■	-
Low-temperature hot water	1	130	■	■	■	-
High-temperature hot water	130	150	■	■	■	-
	150	180	■	■	■	-
	180	220	■	■	■	-
	-25	130	■	■	- <sup>1)</sup>	V..F63: For medium temperatures below -5 °C, the stem sealing gland must be replaced (DN15..50: 4 284 8806 0) (DN 65..150: 4 679 5629 0).
Water with antifreeze	-10	130	■	■	- <sup>1)</sup>	Open circuits V..F63: For medium temperatures below -5 °C, the stem sealing gland must be replaced (DN15..50: 4 284 8806 0) (DN 65..150: 4 679 5629 0).
	-5	130	■	■	■	
	130	150	■	■	■	
	Cooling water	1	25	■	■	
Brines	-25	130	■	■	- <sup>1)</sup>	Min. dryness at inlet: 0.98 On the basis of mineral oil, Thermal oil
	-10	130	■	■	- <sup>1)</sup>	
	-5	130	■	■	■	
	130	150	■	■	■	
Saturated steam	100	150	■	-	■	-
	150	200	■	-	■	-
	200	220	■	-	■	-
Superheated steam	120	150	■	-	■	Min. dryness at inlet: 0.98
	150	220	■	-	■	
Heat transfer oils	20	220	■	■	■	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	■	■	■	

<sup>1)</sup> Differentiation due to saturated steam curve

<sup>2)</sup> Open circuits

<sup>3)</sup> VVF63..K can't be used with media below -5 °C due to the compensation sealing material

## Fields of use

	Fields of use		Valve	
			VVF63..	VXF63..
<b>Generation</b>	Boiler plants		■	■
	District heating plants		■	-
	Refrigeration plants		■	■
	Cooling towers <sup>1)</sup>		■	■
<b>Distribution</b>	Heating groups		■	■
	Air handling units		■	■

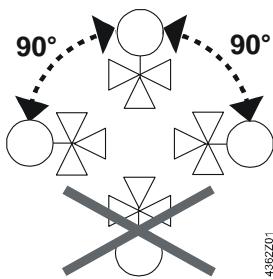
<sup>1)</sup> Open circuits

## Engineering notes

- Mounting location Preferably mount the valves at the return, as the temperature is lower there and the strain on the stem 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 valve.  
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 prepressure.

## Mounting notes

### Mounting position



Mounting positions apply to both 2- and 3-port valves.

## Commissioning notes



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

### Note

Ensure that 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 notes

The valves are maintenance-free.



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 pipes to completely cool down

If necessary, disconnect the electrical wires.

### Disposal

Do not dispose of the device as unsorted municipal waste.

- Special handling of individual components may be mandated by law or make ecological sense.
- Observe all local and currently applicable laws and regulations.

## Warranty

Application-related technical data are guaranteed only when the valves are used in connection with the Siemens actuators listed under "Equipment combinations", page 3.

When used with actuators of other manufacture, any warranty by Siemens becomes void.

## Technical Data

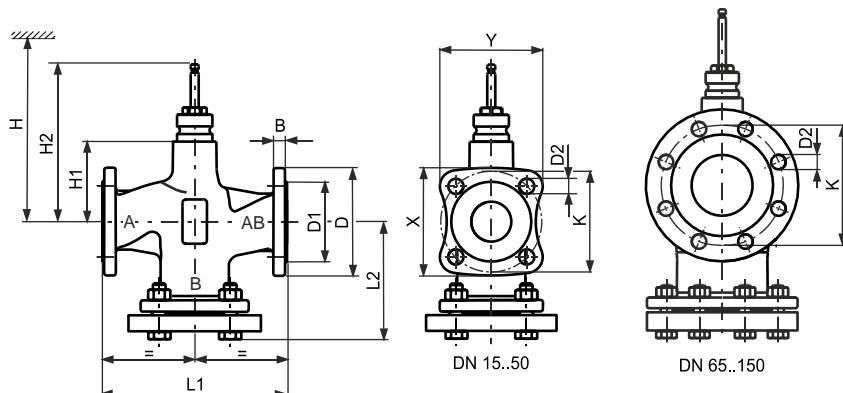
Functional data	PN class	PN 40
	Connection	Flange
	Operating pressure	See Section "Operating pressure and medium temperature" page 11
	Valve characteristics <sup>1)</sup>	See section "Valve characteristics", page 9
	Leakage rate	Throughport DN 15...150: 0...0.01 % of k <sub>vs</sub> value (Class IV)
	Bypass	0.5...2 % of k <sub>vs</sub> value with SKD.., SKB.., SKC..
	Permissible media	See table "Medium compatibility and temperature ranges", page 11 Heat transfer oils
	Medium temperature	-25...220 °C <sup>2)</sup> VVF63..K: -5...220 °C
	Rangeability	DN15 kvs 0.2 ... 1.25: >50 DN15 kvs 2 ... DN150: >100
	Nominal stroke	Up to DN 50: 20 mm From DN 65: 40 mm
Materials	Valve body	DN 15...150: cast steel GP240GH
	Blank flange	VVF.. DN 15...150: P265GH
	Valve stem, seat, plug	Stainless steel
	Stem sealing gland	Stainless steel DN 15...150: FEPM (silicone-free)
	Compensation sealing	Stainless steel DN 50...150: FEPM (silicone-free)
Norms and directives	Pressure Equipment Directive	PED 2014/68/EU
	Pressure Accessories	Scope: Article 1, section 1 Definition: Article 2, section 5
	Liquid group 2:	
	≤ DN 40	without CE-marking, as per article 4, section 3 (sound engineering practice) <sup>3)</sup>
	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 <sup>4)</sup>
	PN class	ISO 7268
	Operating pressure	ISO 7005, EN 1092, DIN 4747, EN 12284
EU Conformity (CE)	Flanges	ISO 7005
	Length of flanged valves	DIN EN 558-1, line 1
	Valve characteristic	VDI 2173
	Leakage rate	Throughport, Bypass according to EN 60534-4 / EN 1349
	Water treatment	VDI 2035

Environmental conditions	Storage: IEC 60721-3-1	Class	1K3
		Temperature	-15...55 °C
	Transport: IEC 60721-3-2	Rel. humidity	5...95 % r.h.
		Class	2K3, 2M2
	Operation: IEC 60721-3-3	Temperature	-30...65 °C
		Rel. humidity	< 95 % r.H.
		Class	3K5, 3Z11
		Temperature	-15...55 °C
		Rel. humidity	5...95 % r.h.
Environmental compatibility	The product environmental declaration A5W00049179 <sup>4)</sup> , A5W00049180 <sup>4)</sup> and A5W00049181 <sup>4)</sup> contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).		
Dimensions / Weight	Dimensions	See „Dimensions“, page 15 + 16	
	Weight	See „Dimensions“, page 15 + 16	

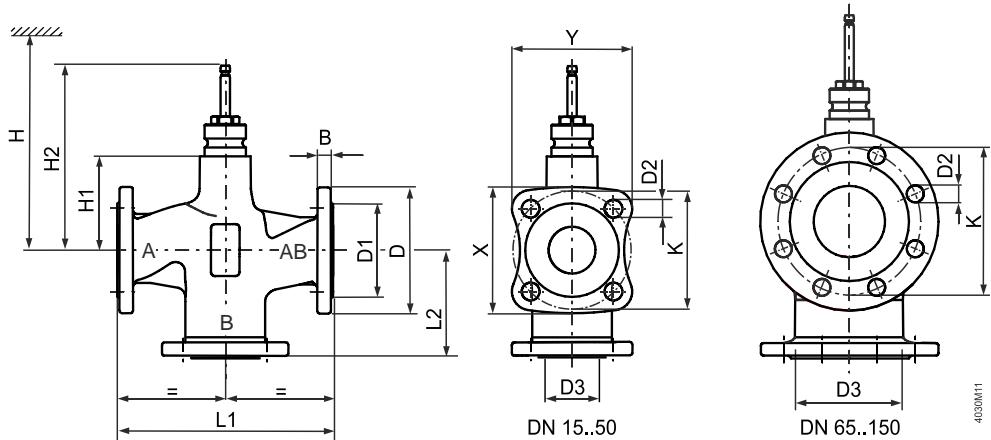
- <sup>1)</sup> For certain valve lines and high  $k_{vs}$  values, the valve characteristic is optimized for maximum volumetric flow  $k_{V100}$
- <sup>2)</sup> With SKD..: Usable up to a max. medium temperature of 150 °C  
For medium temperatures < -5 °C, the stem sealing gland must be replaced, please see page 4.
- <sup>3)</sup> Valves where PS x DN < 1000, do not require special testing and cannot carry the CE label.
- <sup>4)</sup> The documents can be downloaded from <http://www.siemens.com/bt/download>

## Dimensions

### VVF63..



Product number	DN	kg	B	$\varnothing$ D	$\varnothing$ D1	$\varnothing$ D2	L1	L2	X	Y	$\varnothing$ K	H1	H2	H		
														SKD	SKB	SKC
VVF63..	15	5.3	14	95	46	14 (4x)	130	87,5	79	76	65	63	159,5	563	638	-
	20	6.5	16	105	56	14 (4x)	150	99,5	86,6	83	75	63	144,4	563	638	-
	25	7.5	15	115	65	14 (4x)	160	104,5	94,4	90,1	85	63	159,5	563	638	-
	32	10.6	17	140	76	19 (4x)	180	119	115,6	110,7	100	60	156,5	560	635	-
	40	12.3	16	150	84	19 (4x)	200	129	123,2	117,8	110	60	156,5	560	635	-
	50	13.4	16	165	99	19 (4x)	230	146	135,2	128,4	125	100	196,5	600	675	-
	65	29.1	17	185	118	19 (8x)	290	178	-	-	145	115	231,5	-	-	690
	80	36.9	17	200	132	19 (8x)	310	190	-	-	160	115	231,5	-	-	690
	100	49.8	17	235	156	23 (8x)	350	212,5	-	-	190	146	262,5	-	-	721
	125	73.0	17	270	184	28 (8x)	400	242	-	-	220	159	275,5	-	-	734
	150	102.4	17	297	211	28 (8x)	480	284	-	-	250	186,5	303	-	-	762
VVF63..K	50	17.4	16	165	99	19 (4x)	230	146	135,2	128,4	125	100	196,5	600	675	-
	65	29.2	17	185	118	19 (8x)	290	178	-	-	145	115	231,5	-	-	690
	80	37.1	17	200	132	19 (8x)	310	190	-	-	160	115	231,5	-	-	690
	100	50.2	17	235	156	23 (8x)	350	212,5	-	-	190	146	262,5	-	-	721
	125	73.7	17	270	184	28 (8x)	400	242	-	-	220	159	275,5	-	-	734
	150	103.9	17	297	211	28 (8x)	480	284	-	-	250	186,5	303	-	-	762

**VXF63..**


4030M11

Product number	DN	$\text{kg}$	B	$\varnothing D$	$\varnothing D1$	$\varnothing D2$	$\varnothing D3^1)$	L1	L2	X	Y	$\varnothing K$	H1	H2	H		
															SKD	SKB	SKC
VXF63..	15	4.3	14	95	46	14 (4x)	25	130	65	79	76	65	63	159,5	563	638	-
	20	5.2	16	105	56	14 (4x)	35	150	75	86,6	83	75	63	159,5	563	638	-
	25	6.0	15	115	65	14 (4x)	38	160	80	94,4	90,1	85	63	159,5	563	638	-
	32	8.0	17	140	76	19 (4x)	46	180	90	115,6	110,7	100	60	156,5	560	635	-
	40	9.4	16	150	84	19 (4x)	57	200	100	123,2	117,8	110	60	156,5	560	635	-
	50	13.5	16	165	99	19 (4x)	69	230	115	135,2	128,4	125	100	196,5	600	675	-
	65	23.5	17	185	118	19 (8x)	86	290	145	-	-	145	115	231,5	-	-	690
	80	30.1	17	200	132	19 (8x)	100	310	155	-	-	160	115	231,5	-	-	690
	100	39.8	17	235	156	23 (8x)	123	350	175	-	-	190	146	262,5	-	-	721
	125	58.4	17	270	184	28 (8x)	149	400	200	-	-	220	159	275,5	-	-	734
	150	84.0	17	297	211	28 (8x)	174	480	240	-	-	250	186,5	303	-	-	762

## Spare parts

Stem sealing gland	Product number	DN	Stock number	Comments
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 antifreeze 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 antifreeze and brines between -25 °C and 150 °C. 

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Technical specifications and availability subject to change without notice.

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