

ACVATIX™

2- and 3-port valves with flanged connections, PN 10

VVF32.., VXF32..



VVF32..



VXF32..

From the large-stroke valve line


- Control valves for medium temperatures from -10...150 °C
- Valve body of grey cast iron EN-GJL-250
- DN 15...150
- k_{vs} 1.6...400 m³/h
- Flange type 21, Flange design B
- Equipable with electromotoric actuators SAX.., SAV.. or electrohydraulic actuators SKD.., SKB.., SKC..

Use

In boiler, district heating and refrigeration plants, heating groups, ventilation and air-handling units as control or shutoff valves.


For use in closed circuits.

Type summary

| Valves | Actuators | | | | SAX.. ¹⁾ | SKD.. | SKB.. | SAV.. ¹⁾ | SKC.. | | | | | | | | | | |
|---|-------------------|-----|---------------------|----------------|---------------------|-------------------|-----------------|---------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-------|-----|-----|-----|-----|
| | Stroke | | | | 20 mm | | | 40 mm | | | | | | | | | | | |
| PN 10 | Positioning force | | | | 800 N | 1000 N | 2800 N | 1600 N | 2800 N | | | | | | | | | | |
| | Data sheet | | | | N4501 | N4561 | N4564 | N4503 | N4566 | | | | | | | | | | |
|  -10...150 °C | Stock no. | DN | k _{vs} | S _v | Δp _s | Δp _{max} | Δp _s | Δp _{max} | Δp _s | Δp _{max} | Δp _s | Δp _{max} | Δp _s | Δp _{max} | | | | | |
| | | | [m ³ /h] | | | | | | | | | | | | [kPa] | | | | |
| VVF32.15-1.6 | S55202-V100 | 15 | 1.6 | > 50 | 1000 | 400 | 1000 | 400 | 1000 | 400 | - | - | - | - | | | | | |
| VVF32.15-2.5 | S55202-V101 | | 2.5 | | | | | | | | | | | | | | | | |
| VVF32.15-4 | S55202-V102 | | 4 | | | | | | | | | | | | | | | | |
| VVF32.25-6.3 | S55202-V103 | 25 | 6,3 | > 100 | 550 | 300 | 450 | 200 | 700 | 400 | 1000 | 400 | - | - | | | | | |
| VVF32.25-10 | S55202-V104 | | 10 | | | | | | | | | | | | | | | | |
| VVF32.40-16 | S55202-V105 | 40 | 16 | | | | | | | | | | | | 350 | 150 | 250 | 200 | 700 |
| VVF32.40-25 | S55202-V106 | | 25 | | | | | | | | | | | | | | | | |
| VVF32.50-40 | S55202-V107 | 50 | 40 | | 200 | 150 | 250 | 200 | 700 | 400 | 750 | 750 | 400 | - | - | | | | |
| VVF32.65-63 | S55202-V108 | 65 | 63 | | | | | | | | | | | | | | | | |
| VVF32.80-100 | S55202-V109 | 80 | 100 | | | | | | | | | | | | | | | | |
| VVF32.100-160 ²⁾ | S55202-V110 | 100 | 160 | | - | - | - | - | - | - | - | 160 | 125 | 300 | 250 | | | | |
| VVF32.125-250 ²⁾ | S55202-V111 | 125 | 250 | | | | | | | | | | | | | 80 | 60 | 125 | 100 |
| VVF32.150-400 ²⁾ | S55202-V112 | 150 | 400 | | | | | | | | | | | | | | | | |

¹⁾ Suitable for medium temperatures up to 130 °C.

²⁾ Valve characteristic for k_{vs} value 100 m³/h from 70% stroke, k_{vs} value 160 m³/h from 85% stroke, and k_{vs} value 400 m³/h from 90 % stroke is optimized for maximum volumetric flow.

| Valves | Actuators | | | | SAX.. ¹⁾ | SKD.. | SKB.. | SAV.. ¹⁾ | SKC.. | | | | | |
|---|-------------------|-----|--|----------------|---------------------|-------------|-------------|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | Stroke | | | | 20 mm | | | 40 mm | | | | | | |
| PN 10 | Positioning force | | | | 800 N | 1000 N | 2800 N | 1600 N | 2800 N | | | | | |
| | Data sheet | | | | N4501 | N4561 | N4564 | N4503 | N4566 | | | | | |
|  -10...150 °C | 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 |
| VXF32.15-1.6 | S55202-V113 | 15 | 1.6 | > 50 | 400 | 100 | 400 | 100 | 400 | 100 | - | - | - | - |
| VXF32.15-2.5 | S55202-V114 | | 2.5 | | | | | | | | | | | |
| VXF32.15-4 | S55202-V115 | | 4 | | | | | | | | | | | |
| VXF32.25-6.3 | S55202-V116 | 25 | 6.3 | > 50 | 400 | 100 | 400 | 100 | 400 | 100 | - | - | - | - |
| VXF32.25-10 | S55202-V117 | | 10 | | | | | | | | | | | |
| VXF32.40-16 | S55202-V118 | 40 | 16 | > 50 | 300 | 50 | 200 | 80 | 400 | 100 | 400 | 100 | - | - |
| VXF32.40-25 | S55202-V119 | | 25 | | | | | | | | | | | |
| VXF32.50-40 | S55202-V120 | 50 | 40 | > 100 | 300 | 50 | 200 | 80 | 400 | 100 | 400 | 100 | 250 | 50 |
| VXF32.65-63 | S55202-V121 | 65 | 63 | > 100 | 150 | 50 | 200 | 80 | 400 | 100 | 400 | 100 | 250 | 50 |
| VXF32.80-100 | S55202-V122 | 80 | 100 | > 100 | 75 | 50 | 125 | 50 | 400 | 100 | 400 | 100 | 250 | 50 |
| VXF32.100-160 ²⁾ | S55202-V123 | 100 | 160 | > 100 | - | - | - | - | 400 | 100 | 400 | 100 | 250 | 50 |
| VXF32.125-250 ²⁾ | S55202-V124 | 125 | 250 | > 100 | - | - | - | - | 400 | 100 | 400 | 100 | 250 | 50 |
| VXF32.150-400 ²⁾ | S55202-V125 | 150 | 400 | > 100 | - | - | - | - | 400 | 100 | 400 | 100 | 250 | 50 |

¹⁾ Suitable for medium temperatures up to 130 °C.

²⁾ Valve characteristic for k_{vs} value 100 m³/h from 70% stroke, k_{vs} value 160 m³/h from 85% stroke, and k_{vs} value 400 m³/h from 90 % stroke is optimized for maximum volumetric flow.

DN = Nominal size

k_{vs} = Flow nominal value of cold water (5...30 °C) through the fully opened valve (H₁₀₀) at a differential pressure of 100 kPa (1 bar)

S_v = Rangeability

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

Ordering (Example)

| Type | Stock no. | Description |
|--------------|-------------|---------------------------------|
| VXF32.15-1.6 | S55202-V113 | 3-port valve with flange, PN 10 |
| SKD32.50 | SKD32.50 | Electrohydraulic actuator |

Delivery

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

Note

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

Equipment combinations

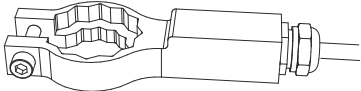
| Type | Stock no. | Stroke | Positioning force | Operating voltage | Positioning signal | Spring return time | Positioning time | LED | Manual adjuster | Auxiliary functions | | | |
|-------------------------------------|---------------------------------|------------|-------------------------------------|--------------------|-------------------------------------|--------------------|---------------------------------------|--------|------------------------------|---------------------|-------|------------------------------|----|
| SAX31.00 | S55150-A105 | 20 mm | 800 N | AC 230 V | 3-position | - | 120 s | - | Press and fix | 1) | | | |
| SAX31.03 | S55150-A106 | | | | | | 30 s | | | | | | |
| SAX61.03 SAX61.03U | S55150-A100 S55150-A100-A100 | | | AC 24 V DC 24 V | 0...10 V 4...20 mA 0...1000 Ω | - | x | 2), 3) | | | | | |
| SAX81.00 | S55150-A102 | | | 3-position | - | 120 s | - | 1) | | | | | |
| SAX81.03 SAX81.03U | S55150-A103 S55150-A103-A100 | | | | | 30 s | | | | | | | |
| 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) | | | |
| 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 | x | | 2) | | | |
| SKD62 SKD62U | SKD62 SKD62U | | | | | 15 s | | | | | | | |
| SKD62UA | SKD62UA | | | | | | | | | 4) | | | |
| SKD82.50 SKD82.50U | SKD82.50 SKD82.50U | | | 3-position | - | 120 s | - | 1) | | | | | |
| 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) |
| 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 | 2) | | | | |
| SKB62 SKB62U | SKB62 SKB62U | | | | | 10 s | | | | | | | |
| SKB62UA | SKB62UA | | | | | | | | 4) | | | | |
| SKB82.50 SKB82.50U | SKB82.50 SKB82.50U | 3-position | - | | | 120 s | - | 1) | | | | | |
| SKB82.51U SKB82.51 | SKB82.51 SKB82.51U | | | | | 10 s | | | | | | | |

| Type | Stock no. | Stroke | Positioning force | Operating voltage | Positioning signal | Spring return time | Positioning time | LED | Manual adjuster | Auxiliary functions |
|-------------------------------------|---------------------------------|--------|-------------------|--------------------|-------------------------------------|--------------------|---------------------------------|-----|------------------------------|---------------------|
| SAV31.00 | S55150-A112 | 40 mm | 1600 N | AC 230 V | 3-position | - | 120 s | - | Press and fix | 1), 5) |
| SAV61.00 SAV61.00U | S55150-A110 S55150-A110-A100 | | | AC 24 V DC 24 V | 0...10 V 4...20 mA 0...1000 Ω | | | x | | 1), 2), 5), 6) |
| SAV81.00 SAV81.00U | S55150-A111 S55150-A111-A100 | | | | 3-position | | | - | | 1), 5) |
| SKC32.60 | SKC32.60 | 40 mm | 2800 N | AC 230 V | 3-position | - | 120 s | - | Turn, position is maintained | 1) |
| 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 | x | | 2) |
| SKC62 SKC62U | SKC62 SKC62U | | | | | 20 s | | | | |
| SKC62UA | SKC62UA | | | | | | | | | 4) |
| SKC82.60 SKC82.60U | SKC82.60 SKC82.60U | | | | 3-position | - | 120 s | - | | 1) |
| SKC82.61 SKC82.61U | SKC82.61 SKC82.61U | | | | | 18 s | | | | |


- 1) Auxiliary switch, potentiometer
- 2) Position feedback, forced control, selection of valve characteristic
- 3) Optional: sequence control, selection of acting direction
- 4) Plus sequence control, stroke limitation, selection of acting direction
- 5) Stem heating element (optional)
- 6) Function module (optional)

Accessories / Spare parts

Accessories

| Type | Stock no. | Description | Notes | Example |
|--------|-------------|----------------------|---|---|
| ASZ6.6 | S55845-Z108 | Stem heating element | Required for medium temperatures < 0 °C |  |

Spare parts

| Stem sealing gland | | | | |
|--------------------|--------------|--------------|--------------------------------------|---|
| Type | DN | Stock no. | Notes | Image |
| VVF32.. VXF32.. | DN 15...80 | 4 284 8806 0 | Series A |  |
| | DN 100...150 | 4 284 8806 0 | Series A, B and C until October 2015 | |
| | DN 100...150 | 4 679 5629 0 | Series D as of October 2015 | |

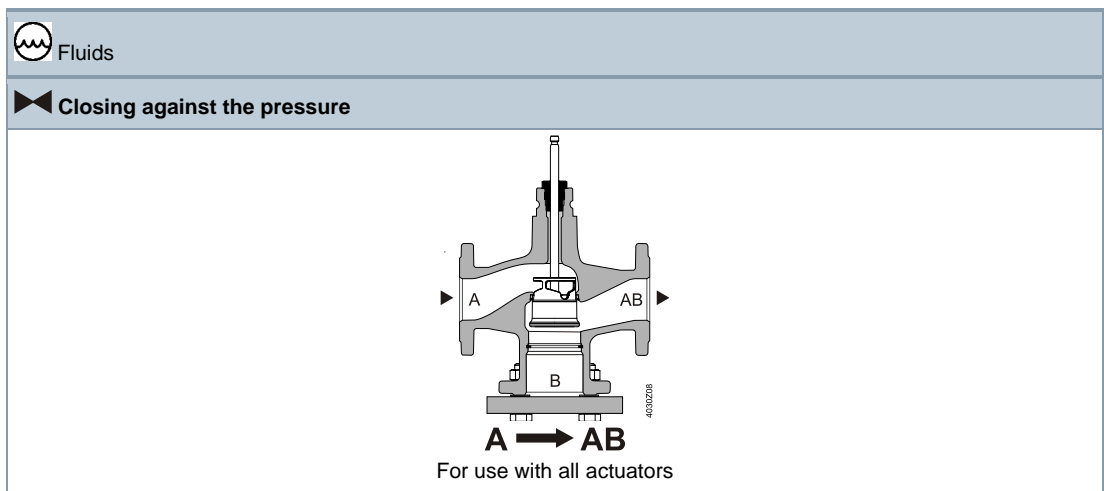
Product documentation

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

Technical and mechanical design

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

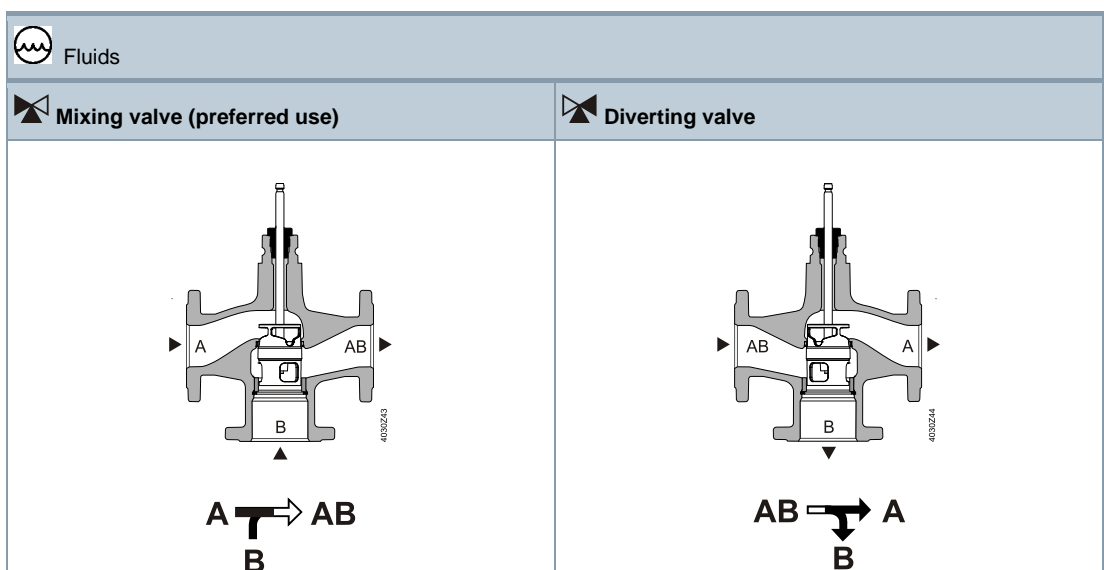
2-port valves



Note

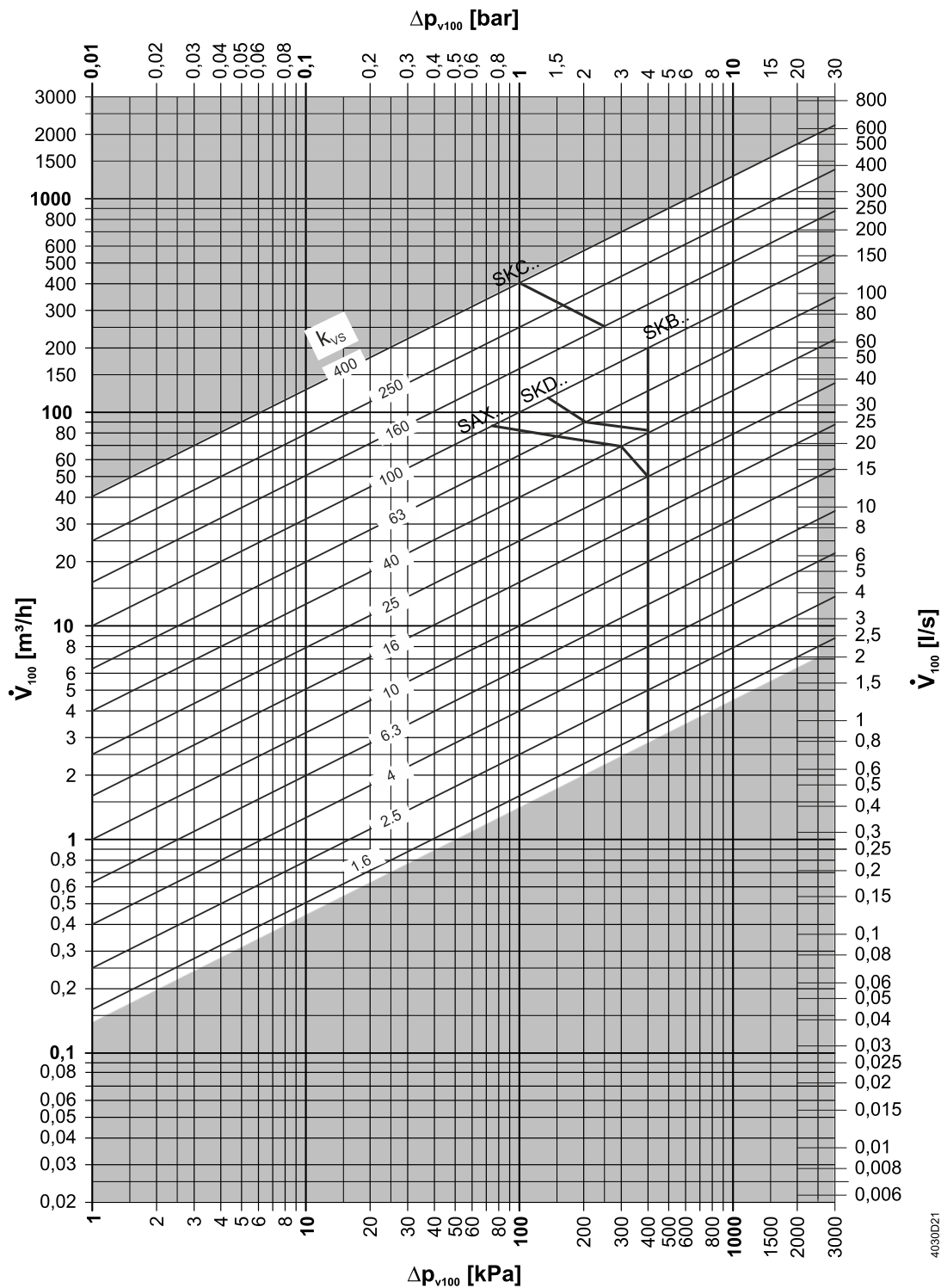
2-port valves do not become 3-port valves by removing the blank flange!

3-port valves



Sizing

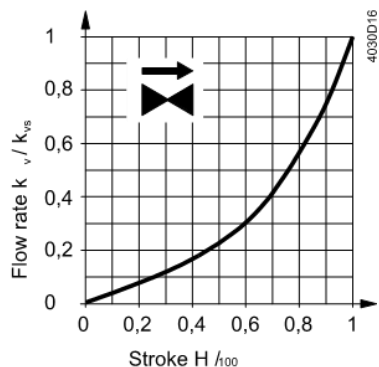
Flow chart



Δp_{max} values apply for the mixing function. Δp_{max} values for the diverting function, see table Type summary [► 2]

Valve characteristics

2-port valves



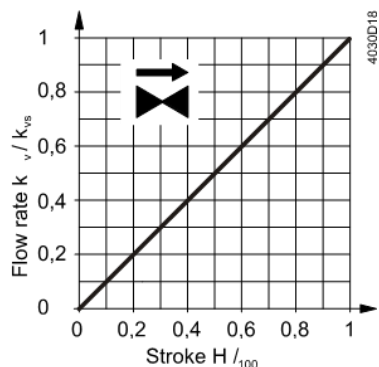
0...30 %: Linear

30...100 %: Equal percentage

$n_{gl} = 3$ to VDI / VDE 2173

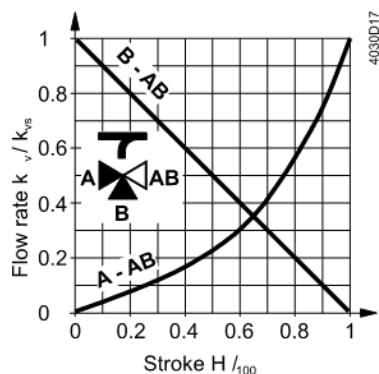
For high k_{vs} values the valve characteristic is optimized for maximum volumetric flow k_{V100} .

For product lines:
VVF32.125-250
VVF32.150-400



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 flow

Port A = variable flow

Port B = bypass (variable flow)

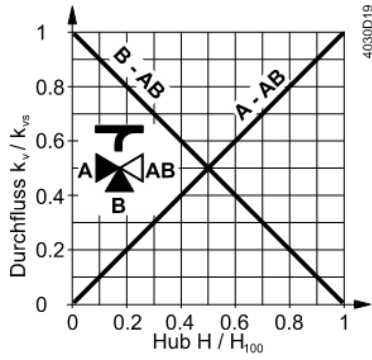
Mixing: Flow from port A and port B to port AB

Diverting: Flow from port AB to port A and port B

For product lines:
VXF32.125-250
VXF32.150-400

Throughport A-AB

0...100%: Linear

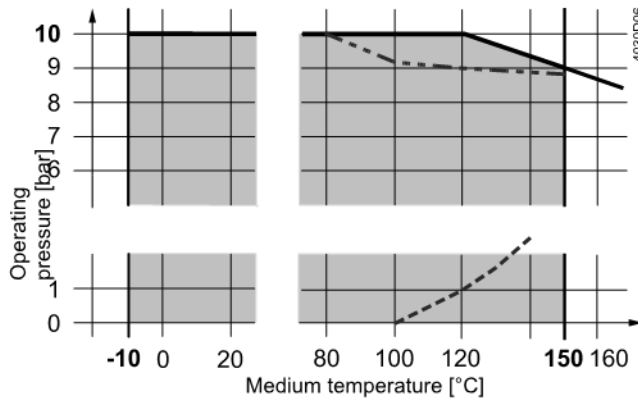


Bypass B-AB

0...100%: Linear

Operating pressure and medium temperature

Fluids, PN10
with V..F32..



— — — Curve for saturated steam; steam forms below this line

— · · Operating pressure according to EN 1092, valid for 2-port valves with blank flange

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

Note All relevant local directives must be observed

Medium compatibility and temperature ranges

| Medium | Temperature range | | Type | Notes |
|--|-------------------|------------------|----------|---|
| | T _{min} | T _{max} | V..F32.. | |
| | [°C] | | | |
| Cold water | 1 | 25 | x | - |
| Low-temperature hot water | 1 | 130 | x | - |
| High-temperature hot water ¹⁾ | 130 | 150 | x | - |
| Water with antifreeze | -5 | 150 | x | For medium temperatures below 0°C, the stem heating ASZ6.6 has to be installed. |
| | -10 | 150 | x | |
| | -20 | 150 | - | |
| Brines | -5 | 150 | x | For medium temperatures below 0°C, the stem heating ASZ6.6 has to be installed. |
| | -10 | 150 | x | |
| | -20 | 150 | - | |
| Demineralized water according to VDI2035 / SWKI_BT102-01 | 1 | 150 | x | - |

¹⁾ Differentiation due to saturated steam curve

Fields of use

| Fields of use | | Type | |
|---------------------|------------------------------------|---------|---------|
| | | VVF32.. | VXF32.. |
| Generation | Boiler plants | x | x |
| | District heating plants | x | - |
| | Refrigeration plants | x | x |
| Distribution | Heating groups | x | x |
| | Ventilation and air-handling units | x | x |

Safety

 **CAUTION**
**National safety regulations**

Failure to comply with national safety regulations may result in personal injury and property damage.

- Observe national provisions and comply with the appropriate safety regulations.

Engineering

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.

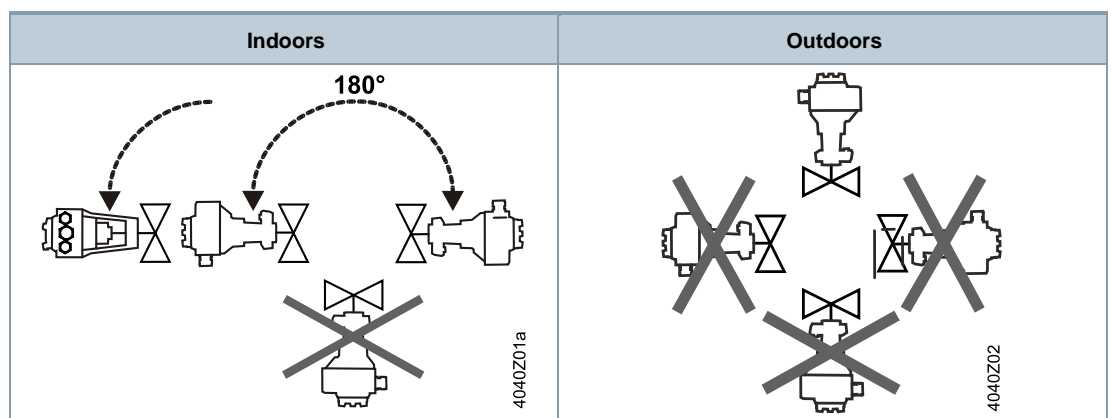
Dirt trap

Mount a dirt filter or dirt trap before the valve to ensure the proper functioning and 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 prepressure.

Mounting

Mounting positions

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

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 | Bypass B->AB |
|---------------------|-------------------|--------------|
| Valve stem extends | Closes | Opens |
| Valve stem retracts | Opens | Closes |

Maintenance

The valves are equipped with maintenance-free, continuously lubricated stem sealing glands. See Accessories / Spare parts [▶ 5] for replacement stem sealing glands.

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 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

The application-related technical data listed in the chapters Type summary [▶ 2] and Equipment combinations [▶ 4] are guaranteed only when the valves are used in connection with the Siemens actuators listed. When used with actuators of other manufacture, any warranty by Siemens becomes void.

| Functional data | | |
|------------------------------------|-------------|---|
| PN class | | PN 10 |
| Connection | | Flange |
| Operating pressure | | See section "Operating pressure and medium temperatures", Technical and mechanical design [► 9] |
| Valve characteristic ¹⁾ | | See section "Valve characteristics", Technical and mechanical design [► 8] |
| Leakage rate | Throughport | 0...0.02% of k_{VS} value |
| | Bypass | 0.5...2% of k_{VS} value ($k_{VS} \geq 6.3$) 0.5...3% of k_{VS} value ($k_{VS} 1.6; 2.5; 4$) |
| Permissible media | | See table "Medium compatibility and temperature ranges", Technical and mechanical design [► 10] |
| Medium temperature | | -10...150 °C |
| Rangeability | Up to DN 25 | >50 |
| | From DN 32 | >100 |
| Nominal stroke | Up to DN 80 | 20 mm |
| | From DN 100 | 40 mm |

| Materials | | |
|---------------------|-------|--|
| Valve body | | EN-GJL-250 |
| Blank flange | VVF.. | S235JRG2 |
| Valve stem | | Stainless steel |
| Seat | | Machined |
| Plug | | Brass / bronze |
| Steam sealing gland | | Brass, EPDM O-rings, PTFE sleeve, silicon-free grease |

| Standards, directives and approvals | | |
|---|--------------|---|
| Pressure Equipment Directive Pressure-carrying accessories | | PED 2014/68/EU Scope: Article 1, section 1 Definitions: Article 2, section 5 |
| Fluid group 2: | | PN 10 |
| | ≤DN 80 | Without CE certification as per article 4, section 3 (sound engineering practice) ²⁾ |
| | DN 100...150 | Category I, Modul A, with CE-marking as per article 14, section 2 |
| EU conformity (CE) | DN 100...150 | A5W00006523 ³⁾ |
| PN class | | ISO 7268 |
| Operating pressure | | ISO 7005, DIN EN 12284 |

| Standards, directives and approvals | |
|-------------------------------------|---|
| Flanges | ISO 7005 |
| Length of flanged valves | DIN EN 558-1, line 1 |
| Valve characteristic ¹⁾ | VDI 2173 |
| Leakage rate | Throughport, bypass according to EN 60534-4 / EN 1349 |
| Water treatment | VDI 2035 |

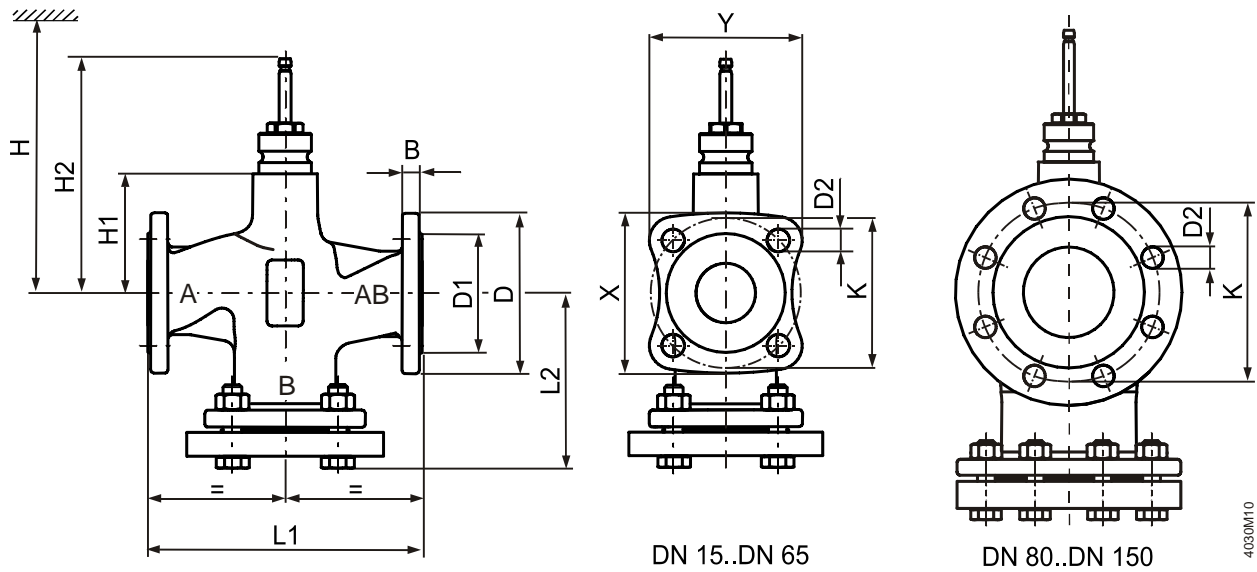
| Environmental conditions | | |
|--------------------------|---------------|---------------|
| Storage | | IEC 60721-3-1 |
| | Class | 1K3 |
| | Temperature | -15...55 °C |
| | Rel. humidity | 5...95 % r.h. |
| Transport | | IEC 60721-3-2 |
| | Class | 2K3, 2M2 |
| | Temperature | -30...65 °C |
| |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

| Umweltverträglichkeit |
|--|
| The product environmental declaration CE1E4402en01 (VVF32..) ³⁾ and CE1E4402en02 (VXF32..) ³⁾ contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal). |

| Dimensions / Weight | |
|---------------------|------------------------|
| Dimensions | See Dimensions [► 15] |
| Weight | See Dimensions [► 15] |

- ¹⁾ For certain valve lines and high k_{vs} values, the valve characteristic is optimized for maximum volumetric flow k_{V100} .
- ²⁾ Valves where $PS \times DN < 1000$, do not require special testing and cannot carry the CE label.
- ³⁾ The documents can be downloaded from <http://www.siemens.com/bt/download>.

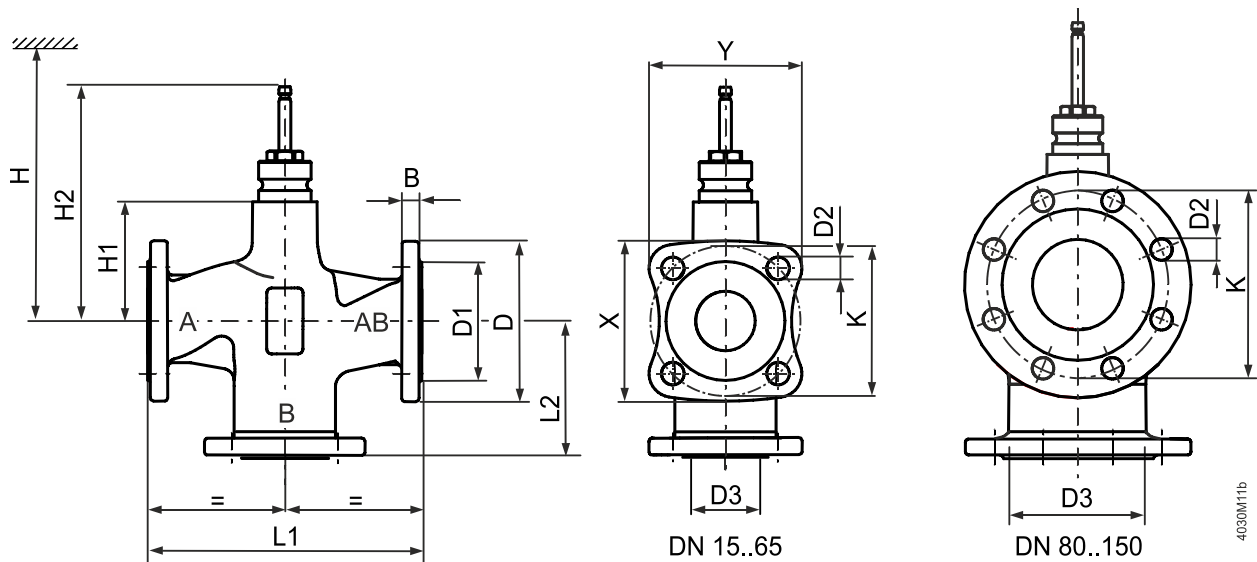
VVF32..



4030M10

| Type | DN | B | D | D1 | D2 | L1 | L2 | X | Y | K | H1 | H2 | H | | | | | kg | |
|---------|-----|-----|-----|-----|------------|-----|-----|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-----|------|
| | | | | | | | | | | | | | SAX | SKD | SKB | SAV | SKC | | |
| | | | | | | | | | | | | | [mm] | | | | | | |
| VVF32.. | 15 | 14 | 95 | 46 | 14 (4x) | 130 | 86 | 79 | 76 | 65 | | | | | | | | 3.7 | |
| | 25 | 15 | 115 | 65 | | 160 | 104 | 94.4 | 90.1 | 85 | 37 | 133.5 | 479 | 537 | 612 | | | 5.4 | |
| | 40 | 16 | 150 | 84 | 19 (4x) | 200 | 126 | 123.2 | 117.8 | 110 | | | | | | 502 | | 9.2 | |
| | 50 | | 165 | 99 | | 230 | 143 | 135.2 | 128.4 | 125 | 50 | 146.5 | 492 | 550 | 625 | 515 | | | 12.2 |
| | 65 | 17 | 185 | 118 | 19 (8x) | 290 | 173 | 150 | 142.5 | 145 | | | | | | | | 17 | |
| | 80 | | 200 | 132 | | 310 | 185 | | | | 160 | 75 | 171.5 | 517 | 575 | 650 | 540 | | 25 |
| | 100 | | 220 | 156 | | 350 | 205 | | | | 180 | 110 | 226.5 | | | | | 575 | 685 |
| | 125 | 250 | 184 | 400 | 232 | | | | 210 | 123 | 239.5 | | | | | | 588 | 698 | 52.5 |
| | 150 | 284 | 211 | 480 | 275 | | | | 240 | 150.5 | 267 | | | | | | 616 | 726 | 74.9 |

VXF32..



| Type | DN | B | D | D1 | D2 | D3 ¹⁾ | L1 | L2 | X | Y | K | H1 | H2 | H | | | | | kg | |
|---------|-----|----|-----|-----|------------|------------------|-----|-----|-------|-------|-----|-----|-------|------|-----|-----|-----|-----|------|------|
| | | | | | | | | | | | | | | SAX | SKD | SKB | SAV | SKC | | |
| | | | | | | | | | | | | | | [mm] | | | | | | |
| VXF32.. | 15 | 14 | 95 | 46 | 14 (4x) | 23 | 130 | 65 | 79 | 76 | 65 | 37 | 133.5 | 479 | 537 | 612 | - | - | 2.6 | |
| | 25 | 15 | 115 | 65 | | 36 | 160 | 80 | 94.4 | 90.1 | 85 | | | | | | | | 3.8 | |
| | 40 | 16 | 150 | 84 | 19 (4x) | 56 | 200 | 100 | 123.2 | 117.8 | 110 | 50 | 146.5 | 492 | 550 | 625 | 515 | 502 | - | 6.3 |
| | 50 | | 165 | 99 | | 69 | 230 | 115 | 135.2 | 128.4 | 125 | | | | | | | | | 8.7 |
| | 65 | 17 | 185 | 118 | 19 (4x) | 85 | 290 | 143 | 150 | 142.5 | 145 | 75 | 171,5 | 517 | 575 | 650 | 540 | - | - | 12.9 |
| | 80 | | 200 | 132 | | 102 | 310 | 155 | 160 | 19.2 | | | | | | | | | | |
| | 100 | 17 | 220 | 156 | 19 (8x) | 124 | 350 | 175 | - | - | 180 | 110 | 226.5 | - | - | - | 575 | 685 | 29 | |
| | 125 | | 250 | 184 | | 149 | 400 | 200 | | | 210 | 123 | 239.5 | | | | 588 | 698 | 43.2 | |
| | 150 | 17 | 284 | 211 | 23 (8x) | 174 | 480 | 240 | 240 | 150.5 | 267 | 616 | 726 | 62.1 | | | | | | |

¹⁾ Inside opening width of the bypass port

Revision numbers

| Type | Valid from rev. no. | Type | Valid from rev. no. |
|-------------------------------------|---------------------|-------------------------------------|---------------------|
| VVF32.15-1.6 S55202-V100 | ..A | VXF32.15-1.6 S55202-V113 | ..A |
| VVF32.15-2,5 S55202-V101 | ..A | VXF32.15-2.5 S55202-V114 | ..A |
| VVF32.15-4 S55202-V102 | ..A | VXF32.15-4 S55202-V115 | ..A |
| VVF32.25-6.3 S55202-V103 | ..A | VXF32.25-6.3 S55202-V116 | ..A |
| VVF32.25-10 S55202-V104 | ..A | VXF32.25-10 S55202-V117 | ..A |
| VVF32.40-16 S55202-V105 | ..A | VXF32.40-16 S55202-V118 | ..A |
| VVF32.40-25 S55202-V106 | ..A | VXF32.40-25 S55202-V119 | ..A |
| VVF32.50-40 S55202-V107 | ..A | VXF32.50-40 S55202-V120 | ..A |
| VVF32.65-63 S55202-V108 | ..A | VXF32.65-63 S55202-V121 | ..A |
| VVF32.80-100 S55202-V109 | ..A | VXF32.80-100 S55202-V122 | ..A |
| VVF32.100-160 S55202-V110 | ..D | VXF32.100-160 S55202-V123 | ..D |
| VVF32.125-250 S55202-V111 | ..D | VXF32.125-250 S55202-V124 | ..D |
| VVF42.150-400 S55202-V112 | ..D | VXF32.150-400 S55202-V125 | ..D |