

B6F, B6G, B6S: Three-way flanged valves (nominal pressure 16, 25, 40 bar)

For continuous control of hot, warm and cold water or of air (B6G, B6S also for steam). Valve body of grey cast iron (GG25), ductile cast iron (GGG40.3) or cast steel (GSC25); spindle, seat and plug of stainless steel, metallic sealing. Stuffing box with Teflon seal. Valve curve is either equal percentage or linear. When spindle is extracted, passage A-AB is closed.

| Nom. dia. DN | k _{vs} -value m ³ /h | Grey cast iron PN 16 | | Ductile cast iron PN 25 | | Cast steel PN 40 | |
|--------------|--|--|--------|--|--------|--|--------|
| | | Type | Wt. kg | Type | Wt. kg | Type | Wt. kg |
| 15 | 1.6 | B6F 15 F324 | 5.3 | B6G 15 F324 | 5.5 | B6S 15 F325 | 5.8 |
| 15 | 2.5 | B6F 15 F314 | 5.3 | B6G 15 F314 | 5.5 | B6S 15 F315 | 5.8 |
| 15 | 4 | B6F 15 F304 | 5.3 | B6G 15 F304 | 5.5 | B6S 15 F305 | 5.8 |
| 20 | 6.3 | B6F 20 F304 | 7 | B6G 20 F304 | 7.1 | B6S 20 F305 | 7.8 |
| 25 | 4 | B6F 25 F924 | 8.3 | | | B6S 25 F925 | 9.2 |
| 25 | 6.3 | B6F 25 F914 | 8.3 | | | B6S 25 F915 | 9.2 |
| 25 | 10 | B6F 25 F304 | 8.3 | B6G 25 F304 | 8.3 | B6S 25 F305 | 9.2 |
| 32 | 16 | B6F 32 F304 | 11.1 | B6G 32 F304 | 11.1 | B6S 32 F305 | 11.7 |
| 40 | 25 | B6F 40 F304 | 13.7 | B6G 40 F304 | 14.5 | B6S 40 F305 | 14.7 |
| 50 | 16 | B6F 50 F924 | 18.6 | | | B6S 50 F925 | 19.2 |
| 50 | 25 | B6F 50 F914 | 18.6 | | | B6S 50 F915 | 19.2 |
| 50 | 40 | B6F 50 F304 | 18.6 | B6G 50 F304 | 19.5 | B6S 50 F305 | 19.2 |
| 65 | 63 | B6F 65 F304 | 28 | | | B6S 65 F305 | 31 |
| 80 | 40 | B6F 80 F924 | 39.9 | | | B6S 80 F925 | 45 |
| 80 | 63 | B6F 80 F914 | 39.9 | | | B6S 80 F915 | 45 |
| 80 | 100 | B6F 80 F304 | 39.9 | | | B6S 80 F305 | 45 |
| 100 | 160 | B6F 100 F304 | 56.7 | | | B6S 100 F305 | 66 |
| 125 | 250 | B6F 125 F304 | 82 | | | B6S 125 F305 | 94 |
| 150 | 340 | B6F 150 F304 | 113 | | | B6S 150 F305 | 124 |
| | | Operating temp. 1): -15...180 °C Operating pressure: up to 120 °C 16 bar up to 180 °C 13 bar Stuffing box brass/Teflon | | Operating temp. 1): -15...240 °C Operating pressure: up to 120 °C 25 bar up to 240 °C 20 bar Stuffing box brass/Teflon | | Operating temp. 1): -40...240 °C Operating pressure: up to 120 °C 40 bar up to 240 °C 32 bar Stuffing box stainl. steel/Teflon | |

Valve curve:
Control flow A-AB equal-percentage
Mixing flow B-AB complementary
Control ratio: 50 (typical)
Leakage rate 2)
Control flow A-AB ≤ 0.05% of k_{vs}-value
Mixing flow B-AB ≤ 1% of k_{vs}-value
Valve stroke (DN 15...50) 14 mm
Valve stroke (DN 65...150) 40 mm

Dimension drawing [7M104, 7M105](#)

Fitting instructions
Valve [MV 505156](#)
Complete unit [MV 43190](#)
Assembly AV 43...45 [MV 40.136](#)
Assembly AVP142 [MV 505766](#)

Model variants

F2 . . With linear curve (F9 . . availabel with equal-percent. only)

Accessories

0217268 . . . Stuffing-box heating 15 W, for media below 0 °C, DN 15...50, [MV 505498](#)
0217639 . . . Stuffing-box heating 15 W, for media below 0 °C, DN 65...150, [MV 505498](#)
Specify when ordering: 24 V = /001, 230 V = /004
0360715 000 Stuffing box of stainless steel/Teflon for DN 15...50, spare part, [MV 505245](#)
0360718 000 Stuffing box of stainless steel/Teflon for DN 65...150, spare part, [MV 505245](#)
0361259 000 Intermediate piece for DN 15...50 with AVP142 valve drive.
Required for media above 130 °C. Assembled as per [MV 505495](#)
0361 . . . / . . . Soft sealing for DN 15...50 (see table on page 76.18 or 76.528/5)
0361316 . . . Counter flange for B6F (see table on page 76.18 or 76.528/5)
0360390 . . . Counter flange for B6G and B6S (see table on page 76.18 or 76.528/5)
0378034 001 Valve with packing box, silicon-free; synthetic lubricant; max. 130 °C
0378034 002 Valve with packing box, grease-free; max. 240 °C

1) At temp. under 0 °C, use stuffing-box heating (accessory); over 130 °C, use intermediate piece (accessory)

2) With soft seal: leakage rate < 0,0001% of k_{vs}, available as accessory for DN 15...50, (not for Type F9 . . .)

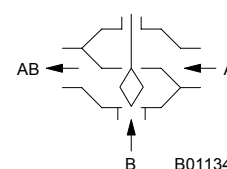


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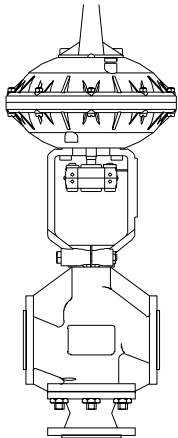
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mixing valve

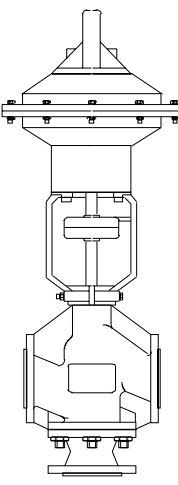


B01134

Combination: B6F, PN 16 with pneumatic drive AVP142...AV45



B09802



B01761

| Drive Max. press. p _{stat} Running time ¹⁾ | AVP142 F001 ²⁾ ≤ 10 bar 10 s | | AV43 P15 ≤ 16 bar 14 s | | AV43 P10 ²⁾ ≤ 16 bar 14 s | | AV44 P10 ≤ 16 bar 20 s | |
|--|---|-----------------|------------------------------|-----------------|--|-----------------|------------------------------|-----------------|
| | Δp _{max} | Δp _s | Δp _{max} | Δp _s | Δp _{max} | Δp _s | Δp _{max} | Δp _s |
| Valve | | | | | | | | |
| B6F 15 F304 | 10.0 | 22.3 | 10 | 16 | 10 | 16 | – | – |
| B6F 20 F304 | 10.0 | 13.6 | 10 | 13 | 10 | 16 | – | – |
| B6F 25 F304 | 7.5 | 7.5 | 7 | 7 | 10 | 14 | 10 | 16 |
| B6F 32 F304 | 5.0 | 7.5 | 7 | 7 | 10 | 14 | 10 | 16 |
| B6F 40 F304 | 3.2 | 3.6 | 3 | 3 | 6 | 6 | 9 | 16 |
| B6F 50 F304 | 2.0 | 2.3 | 2 | 2 | 4 | 4 | 8 | 11 |

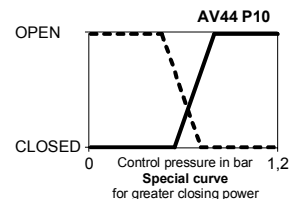
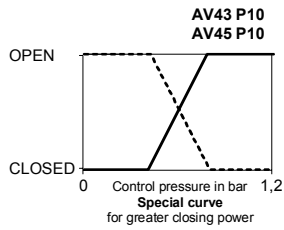
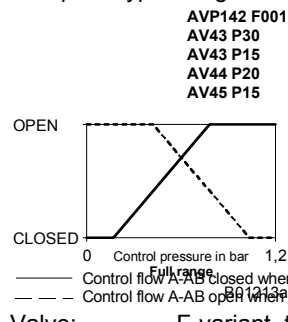
| Drive Max. press. p _{stat} Running time ¹⁾ | AV43 P30 ≤ 16 bar 24 s | | AV44 P20 ≤ 16 bar 40 s | | AV45 P15 ≤ 16 bar 90 s | | AV45 P10 ≤ 16 bar 90 s | |
|--|------------------------------|-----------------|------------------------------|-----------------|------------------------------|-----------------|------------------------------|-----------------|
| | Δp _{max} | Δp _s | Δp _{max} | Δp _s | Δp _{max} | Δp _s | Δp _{max} | Δp _s |
| Valve | | | | | | | | |
| B6F 65 F304 | 1.4 | 1.5 | 3.0 | 3.0 | 4.5 | 6.0 | 4.5 | 12 |
| B6F 80 F304 | 0.9 | 1.0 | 2.0 | 2.0 | 3.5 | 4.0 | 3.5 | 8 |
| B6F 100 F304 | 0.6 | 0.6 | 1.2 | 1.2 | 2.5 | 2.5 | 3.0 | 5 |
| B6F 125 F304 | 0.4 | 0.4 | 0.8 | 0.8 | 1.5 | 1.5 | 2.0 | 3 |
| B6F 150 F304 | 0.3 | 0.3 | 0.6 | 0.6 | 1.0 | 1.0 | 1.0 | 2 |

1) Relates to the Centair air capacity (400 l_n/h) and to a line of 20 m in length and 4 mm in diameter

2) Unsuitable for use with XSP 31 or 31G positioners (due to static friction in the Teflon packing box).

Pressure-stroke curve (with integrated valve)

Complete type designation: Valve and drive each with F-variant.



Valve: F-variant, technical data and accessories, see valve type table.

Drive: F-variant, technical data, accessories and fitting position, see Sect. 71.

Example: B6F 15 F304/AVP142 F001

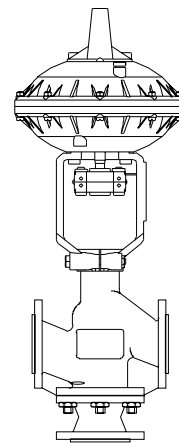
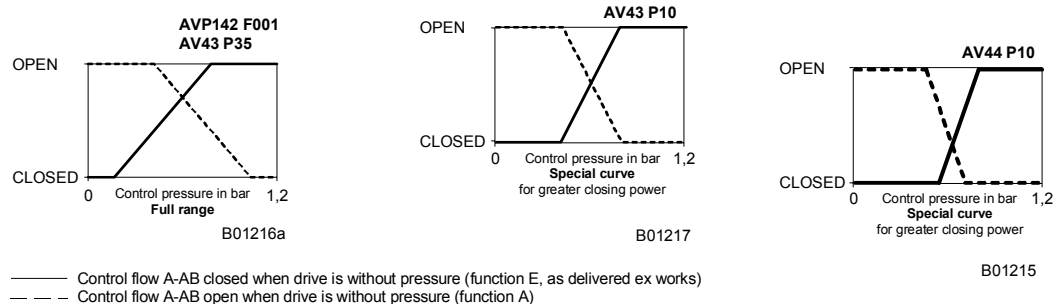
- Δp_{max} in bar = Max. permissible pressure difference across the valve at which the drive can still safely open and close the valve.
- Δp_s in bar = Max. permissible pressure difference across the valve during malfunction at which the drive can still close the valve.
- p_{stat} in bar = Dormant pressure at valve when pump is inactive. Fluidic level of the plant plus pressure increase caused by pressure tank or steam pressure should taken into account.

Combination: B6G, PN 25 with pneumatic drive AVP142...AV44

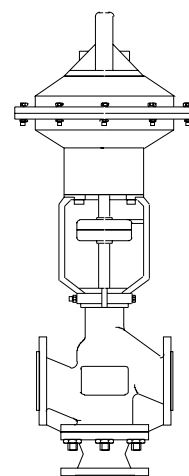
| Drive Max. press. p_{stat} Running time ¹⁾ | AVP142 F001 ²⁾ ≤ 10 bar 10 s | | AV43 P15 ≤ 25 bar 14 s | | AV43 P10 ²⁾ ≤ 25 bar 14 s | | AV44 P10 ≤ 25 bar 20 s | |
|---|---|--------------|------------------------------|--------------|--|--------------|------------------------------|--------------|
| | Δp_{max} | Δp_s | Δp_{max} | Δp_s | Δp_{max} | Δp_s | Δp_{max} | Δp_s |
| B6G 15 F304 | 11.5 | 22.3 | 16 | 23 | 16 | 25 | — | — |
| B6G 20 F304 | 12.4 | 13.6 | 13 | 13 | 16 | 25 | — | — |
| B6G 25 F304 | 7.5 | 7.5 | 7 | 7 | 14 | 14 | 16 | 25 |
| B6G 32 F304 | 5.0 | 7.5 | 7 | 7 | 10 | 14 | 16 | 25 |
| B6G 40 F304 | 3.2 | 3.6 | 3 | 3 | 6 | 6 | 16 | 17 |
| B6G 50 F304 | 2.0 | 2.3 | 2 | 2 | 4 | 4 | 11 | 11 |

1) Relates to the Centair air capacity (400 l_n/h) and to a line of 20 m in length and 4 mm in diameter
 2) Unsuited for use with XSP 31 or 31G positioners (due to static friction in the Teflon packing box).

Pressure-stroke curve (with integrated valve)



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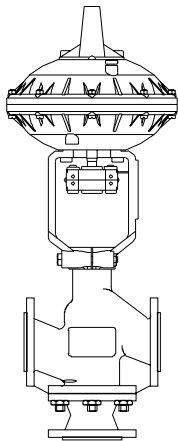
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Complete type designation: Valve and drive each with F-variant.

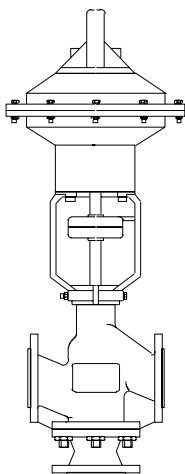
- Valve: F-variant, technical data and accessories, see valve type table.
- Drive: F-variant, technical data accessories and fitting position, see Section 71.
- Example: B6G 15 F304/AVP142 F001

- Δp_{max} in bar = Max. permissible pressure difference across the valve at which the drive can still safely open and close the valve.
- Δp_s in bar = Max. permissible pressure difference across the valve during malfunction at which the drive can still close the valve.
- p_{stat} in bar = Dormant press. at valve when pump is inactive. Fluidic level of the plant and the press. increase caused by the press. tank or the steam pressure should be taken into account.

Combination: B6S, PN 40 with pneumatic drive AVP142...AV45



B09801



B01762

| Drive Max. press. p _{stat} Running time ¹⁾ | AVP142 F001 ²⁾ ≤ 10 bar 10 s | | AV43 P15 ≤ 25 bar 14 s | | AV43 P10 ²⁾ ≤ 25 bar 14 s | | AV44 P10 ≤ 25 bar 20 s | |
|--|---|-----------------|------------------------------|-----------------|--|-----------------|------------------------------|-----------------|
| Valve | Δp _{max} | Δp _s | Δp _{max} | Δp _s | Δp _{max} | Δp _s | Δp _{max} | Δp _s |
| B6S 15 F305 | 11.5 | 22.3 | 16 | 23 | 16 | 25 | – | – |
| B6S 20 F305 | 12.4 | 13.6 | 13 | 13 | 16 | 25 | – | – |
| B6S 25 F305 | 7.5 | 7.5 | 7 | 7 | 14 | 14 | 16 | 25 |
| B6S 32 F305 | 5.0 | 7.5 | 7 | 7 | 10 | 14 | 16 | 25 |
| B6S 40 F305 | 3.2 | 3.6 | 3 | 3 | 6 | 6 | 16 | 17 |
| B6S 50 F305 | 2.0 | 2.3 | 2 | 2 | 4 | 4 | 11 | 11 |

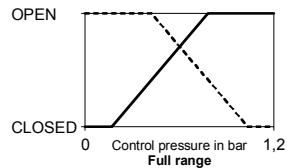
| Drive Max. press. p _{stat} Running time ¹⁾ | AV43 P30 ≤ 16 bar 24 s | | AV44 P20 ≤ 16 bar 40 s | | AV45 P15 ≤ 40 bar 90 s | | AV45 P10 ≤ 40 bar 90 s | |
|--|------------------------------|-----------------|------------------------------|-----------------|------------------------------|-----------------|------------------------------|-----------------|
| Valve | Δp _{max} | Δp _s | Δp _{max} | Δp _s | Δp _{max} | Δp _s | Δp _{max} | Δp _s |
| B6S 65 F305 | 1.4 | 1.5 | 3.0 | 3.0 | 6.0 | 6.0 | 10.0 | 12 |
| B6S 80 F305 | 0.9 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 7.0 | 8 |
| B6S 100 F305 | 0.6 | 0.6 | 1.2 | 1.2 | 2.5 | 2.5 | 4.5 | 5 |
| B6S 125 F305 | 0.4 | 0.4 | 0.8 | 0.8 | 1.5 | 1.5 | 3.0 | 3 |
| B6S 150 F305 | 0.3 | 0.3 | 0.6 | 0.6 | 1.0 | 1.0 | 2.0 | 2 |

1) Relates to the Centair air capacity (400 l_n/h) and to a line of 20 m in length and 4 mm in diameter

2) Unsuitable for use with XSP 31 or 31G positioners (due to static friction in the Teflon packing box).

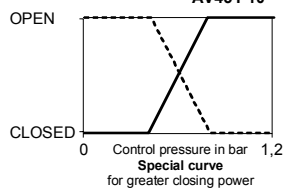
Pressure-stroke curve (with integrated valve)

AVP142 F001
AV43 P30
AV43 P15
AV44 P20
AV45 P15



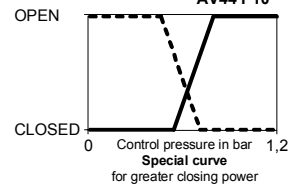
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AV43 P10
AV45 P10



B01213b

AV44 P10



B01215

— Control flow A-AB closed when drive is without pressure (function E, as delivered) works)
- - - Control flow A-AB open when drive is without pressure (function A)

Complete type designation: Valve and drive each with F-variant.

Valve: F-variant, technical data and accessories, see valve type table.

Drive: F-variant, technical data, accessories and fitting position, see Section 71.

Example: B6S 15 F305/AVP142 F001

- Δp_{max} in bar = Max. permissible pressure difference across the valve at which the drive can still safely open and close the valve.
- Δp_s in bar = Max. permissible pressure difference across the valve during malfunction at which the drive can still close the valve.
- p_{stat} in bar = Dormant press. at valve when pump is inactive. Fluidic level of the plant and the press. increase caused by the press. tank or the steam pressure should be taken into account.

Appendix: Accessory for flange valve V6F, G, S and B6F, G, S**Plug with soft seal for through and three-way valves**

0361... Plug and spindle, complete, with soft seal, fitted ex works in valve, for through flange valve V6F, V6G, V6S and three-way valve B6F, B6G, B6S of nominal diameters DN 15...50.

Leakage rate for control flow A-AB < 0,0001% of k_{vs} -value,

Plug with glass-fibre-reinforced PTFE sealing ring

Max. operating temperature: 180 °C for V6F, B6F

Max. operating temperature: 240 °C for V6G, V6S, B6G, B6S

Marked „W“ on the type plate

| Nom. dia. DN | k_{vs} -value m ³ /h | Plug/spindle for equal-perc. curve | Valve F-variant | Plug/spindle for linear curve | Valve F-variant |
|--------------|-----------------------------------|------------------------------------|-----------------|-------------------------------|-----------------|
| 15 | 0.16 | 0361397 000 ¹⁾ | F37 . | 0361402 000 ¹⁾ | F27 . |
| 15 | 0.25 | 0361396 000 ¹⁾ | F36 . | 0361401 000 ¹⁾ | F26 . |
| 15 | 0.4 | 0361395 000 ¹⁾ | F35 . | 0361400 000 ¹⁾ | F25 . |
| 15 | 0.63 | 0361394 000 ¹⁾ | F34 . | 0361399 000 ¹⁾ | F24 . |
| 15 | 1 | 0361393 000 ¹⁾ | F33 . | 0361398 000 ¹⁾ | F23 . |
| 15 | 1.6 | 0361319 000 | F32 . | 0361322 000 | F22 . |
| 15 | 2.5 | 0361318 000 | F31 . | 0361321 000 | F21 . |
| 15 | 4 | 0361317 000 | F30 . | 0361320 000 | F20 . |
| 20 | 6.3 | 0361323 000 | F30 . | 0361324 000 | F20 . |
| 25 | 10 | 0361325 000 | F30 . | 0361326 000 | F20 . |
| 32 | 16 | 0361327 000 | F30 . | 0361328 000 | F20 . |
| 40 | 25 | 0361329 000 | F30 . | 0361330 000 | F20 . |
| 50 | 40 | 0361331 000 | F30 . | 0361332 000 | F20 . |

¹⁾ Only for through flange valve

Specify when ordering: e.g. through valve: V6F 50 F304+0361331 000
or three-way valve: B6F 50 F304+0361331 000

Counter flange for through and three-way valves

0360390 . . . Counter flange, smooth, for PN 25 and PN 40 incl. asbestos-free seal.
2 pieces required for through valve, 3 pieces for three-way valve.

DN 15 20 25 32 40 50 65 80 100 125 150

0361316 . . . Counter flange, smooth, for PN 10 and PN 16 incl. asbestos-free seal.
2 pieces required for through valve, 3 pieces for three-way valve.

DN 15 20 25 32 40 50 65 80 100 125 150

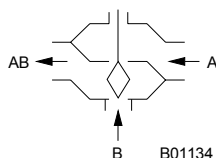
Specify when ordering: DN 25 = /025, DN 40 = /040 etc.

Operation

Using a pneumatic drive, the valve can be moved to any position.

When the spindle is extracted, control passage A-AB is closed. Where pneumatic drives are used, the valves should not close with the pressure, otherwise pressure surges ensue.

Used as a mixing valve



Engineering and fitting notes

Can be fitted in any position, except facing downwards, for temperatures up to 240 °C. If the temperature of the medium is above 180 °C, we recommend that the unit be fitted horizontally. The adaptor 361259 should be used for the combination with the AVP142 F001 valve drive when the temperature is above 130 °C. The adaptor can also be used as an extension when the pipe insulation is very thick.

The ingress of condensate, dripping water etc., along the stem and into the drive should be prevented. When fitting the drive to the valve, care must be taken not to turn the valve plug on the two stops (seat), thus damaging the seal.

The drive can be equipped with the XSP 31 or XSP 31 G positioner should any of the following be demanded: a split range; an improvement in the setting accuracy; an increase in positional speed or air capacity; reversible direction of action (see Section 79).

Additional technical details

| Type | Δp_v | Type | Δp_v | Type | Δp_v |
|---------------|--------------|--------------|--------------|---------------|--------------|
| B6F 15 F. 24 | 10 | B6G 15 F. 24 | 16 | B6S 15 F. 25 | 16 |
| B6F 15 F. 14 | 10 | B6G 15 F. 14 | 16 | B6S 15 F. 15 | 16 |
| B6F 15 F. 04 | 10 | B6G 15 F. 04 | 16 | B6S 15 F. 05 | 16 |
| B6F 20 F. 04 | 10 | B6G 20 F. 04 | 16 | B6S 20 F. 05 | 16 |
| B6F 25 F. 04 | 10 | B6G 25 F. 04 | 16 | B6S 25 F. 05 | 16 |
| B6F 32 F. 04 | 10 | B6G 32 F. 04 | 16 | B6S 32 F. 05 | 16 |
| B6F 40 F. 04 | 9 | B6G 40 F. 04 | 16 | B6S 40 F. 05 | 16 |
| B6F 50 F. 04 | 8 | B6G 50 F. 04 | 16 | B6S 50 F. 05 | 16 |
| B6F 65 F. 04 | 4.5 | | | B6S 65 F. 05 | 10 |
| B6F 80 F. 04 | 3.5 | | | B6S 80 F. 05 | 7 |
| B6F 100 F. 04 | 3 | | | B6S 100 F. 05 | 4.5 |
| B6F 125 F. 04 | 2 | | | B6S 125 F. 05 | 3 |
| B6F 150 F. 04 | 1 | | | B6S 150 F. 05 | 2 |

Δp_v in bar = max. pressure difference across the valve in any stroke position, limited by the noise level and erosion (max. values without being limited by the force of the drive).

Additional details on accessories

| | |
|----------------------|--|
| 0217268 . . . | Heating for stuffing box 15 W; housing of light metal; connecting cable 3 × 0,75 mm ² , earth connection, 1 m in length, cable end sleeves; degree of protection IP 54. |
| 0217639 . . . | Heating for stuffing box 15 W; housing of light metal; connecting cable 3 × 0,75 mm ² , earth connection, 1 m in length, cable end sleeves; degree of protection IP 54. |
| 0360715 000 | Stuffing box of stainless steel / Teflon for V6F, B6F and V6G, B6G valve, DN 15...50, marked "N" on the specification plate. |
| 0360718 000 | Stuffing "box" of stainless steel / Teflon for V6F, B6F and V6G, B6G valve DN 65...150, marked "N" on the specification plate. |

Additional details on model types

Valve body for B6F valve of gray cast iron GG25; for B6G valve of ductile cast iron GGG40.3; for B6S valve of cast steel GS-C 25N with smooth bored flanges as per DIN 2501, VSM 18643. Valve fitting width as per DIN 3202. Flat seal of copper and asbestos-free material at the body of the valve. Stuffing box of brass with Teflon packing for B6F and B6G valves; of stainless steel with Teflon packing for B6S valve. Valve body is coloured anthracite grey (RAL 7016) and is matt.

Material numbers as per DIN

| | Type | Material no. | Description | DIN norm |
|----------------|---------------|--------------|-----------------------------|------------|
| Valve body | B6F | EN-JL 1040 | EN-GJL-250 (GG25) | EN 1561 |
| Valve body | B6G | EN-JS 1025 | EN-GJS-400-18-LT (GGG 40.3) | EN 1561 |
| Valve body | B6S | 1.0619 | GP 240 GH (GS-C 25 N) | EN 10213-2 |
| Valve seat | B6F, B6G, B6S | 1.4021 | X 8 Cr 13 | EN 10088-3 |
| Spindle - plug | B6F, B6G, B6S | 1.4305 | X 12 CrNiS 18 9 | EN 10088-3 |
| Stuffing box | B6F, B6G | 2.0401 | Cu Zn 39Pb3 | 17 660 |
| Stuffing box | B6S | 1.4021 | X 20 Cr 13 | EN 10088-3 |

Explanation of terms used **Δp_v :**

Maximum permissible pressure difference across the valve in any stroke position, limited by the noise level and erosion.

The valve as a traversed element is defined by this parameter specifically in its hydraulic behaviour. By monitoring cavitation, erosion and the noise thus produced, improvements can be achieved in both life expectancy and durability.

 Δp_{max} :

Maximum permissible pressure difference across the valve at which the drive (control pressure 0 or 1.2 bar) can firmly open and close the valve.

Static pressure and fluidic influences are taken into account. This value helps to maintain smooth stroke action and valve sealing. In doing so, the valve's Δp_v value is not exceeded.

 Δp_s :

Maximum permissible pressure difference across the valve in the event of a malfunction (e.g. loss of supply pressure, excess temperature and pressure, burst pipe) at which the drive can firmly close the valve and, if necessary, hold the full operating pressure against atmospheric pressure. Since this is a safety function with 'fast' stroke, Δp_s can be larger than Δp_{max} or, respectively, Δp_v . This value is valid only when the pneumatic drive is fitted with either a relay (RUEP) or converter (XUEP). The resultant fluidic disturbances are soon overcome and play a minor role here.

On the three-way valves, the values apply only for the control passage.

 Δp_{stat} :

Line pressure behind the valve. This corresponds largely to the dead pressure when the pump is switched off, e.g. due to the level of liquid in the plant, an increase in pressure via the pressure store, steam pressure etc.

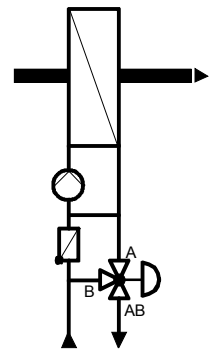
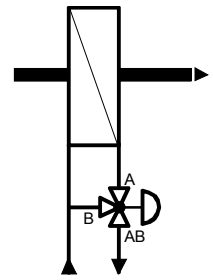
Technical information

- Pressure and temperature specifications
- Flow parameters
- Sauter slide rule for valve sizing
- Slide rule manual
- PC program "Valvedim" for Sauter valve sizing
- Technical manual "Manipulating units"
Parameters, Notes on installation, Control, Pneumatic
manipulating units, General information

DIN 2401
VDI/VDE 2173
7 090011 003
7 000129 003
7 000675 003
7 000477 003

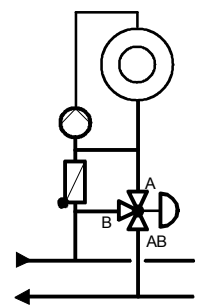
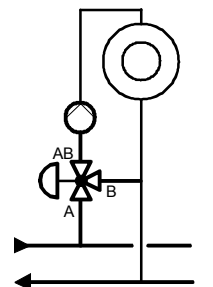
Examples

In ventilation and air condition systems with mixing valves



B01763

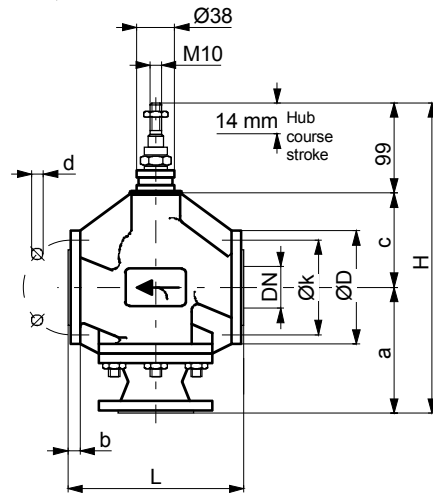
In heating systems with mixing valves



B01764

Dimension drawings 7M104

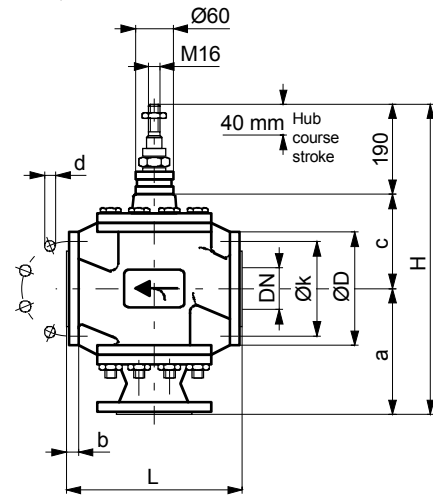
B6F, DN 15...50



| DN | a | c | H | L | D | k | d | b |
|----|-----|-----|-----|-----|-----|-----|---------|----|
| 15 | 112 | 73 | 284 | 130 | 95 | 65 | 14 (4x) | 14 |
| 20 | 125 | 80 | 304 | 150 | 105 | 75 | 14 (4x) | 16 |
| 25 | 130 | 83 | 312 | 160 | 115 | 85 | 14 (4x) | 16 |
| 32 | 140 | 90 | 329 | 180 | 140 | 100 | 18 (4x) | 18 |
| 40 | 140 | 99 | 338 | 200 | 150 | 110 | 18 (4x) | 18 |
| 50 | 152 | 104 | 355 | 230 | 165 | 125 | 18 (4x) | 20 |

M360897b

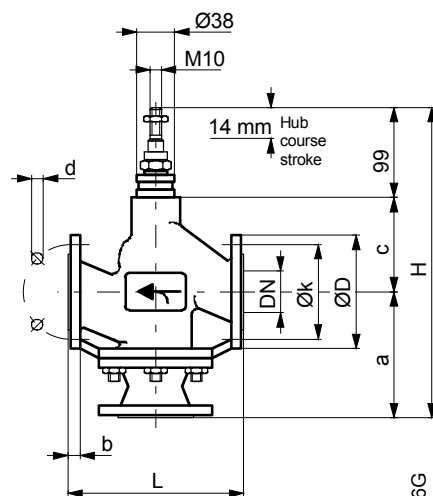
B6F, DN 65...150



| DN | a | c | H | L | D | k | d | b |
|-----|-----|-----|-----|-----|-----|-----|---------|----|
| 65 | 210 | 139 | 539 | 290 | 185 | 145 | 18 (4x) | 20 |
| 80 | 210 | 148 | 548 | 310 | 200 | 160 | 18 (8x) | 22 |
| 100 | 220 | 168 | 578 | 350 | 220 | 180 | 18 (8x) | 24 |
| 125 | 275 | 192 | 657 | 400 | 250 | 210 | 18 (8x) | 26 |
| 150 | 290 | 222 | 702 | 480 | 285 | 240 | 22 (8x) | 26 |

M360832a

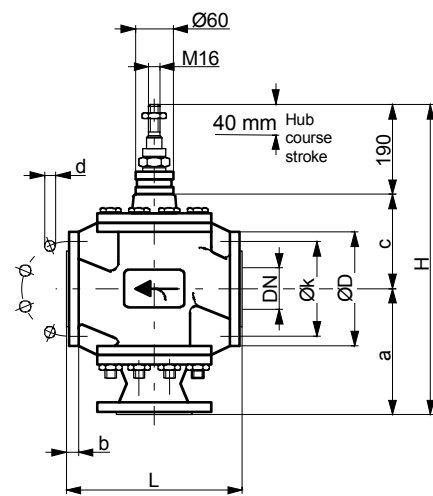
B6G, V6S, DN 15...50



| DN | a | c | H | L | D | k | d | b | b |
|----|-----|-----|-----|-----|-----|-----|---------|----|----|
| 15 | 112 | 73 | 284 | 130 | 95 | 65 | 14 (4x) | 16 | 16 |
| 20 | 125 | 80 | 304 | 150 | 105 | 75 | 14 (4x) | 18 | 18 |
| 25 | 130 | 83 | 312 | 160 | 115 | 85 | 14 (4x) | 18 | 18 |
| 32 | 140 | 90 | 329 | 180 | 140 | 100 | 18 (4x) | 20 | 18 |
| 40 | 140 | 99 | 338 | 200 | 150 | 110 | 18 (4x) | 20 | 18 |
| 50 | 152 | 104 | 355 | 230 | 165 | 125 | 18 (4x) | 22 | 20 |

M360899b

B6S, DN 65...150



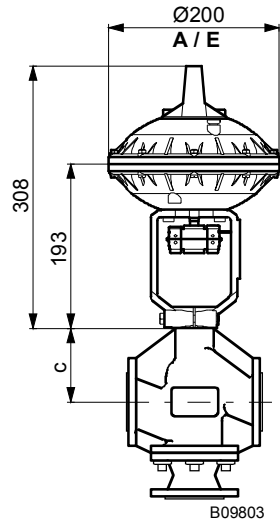
| DN | a | c | H | L | D | k | d | b |
|-----|-----|-----|-----|-----|-----|-----|---------|----|
| 65 | 210 | 139 | 539 | 290 | 185 | 145 | 18 (8x) | 22 |
| 80 | 210 | 148 | 548 | 310 | 200 | 160 | 18 (8x) | 24 |
| 100 | 220 | 168 | 578 | 350 | 235 | 190 | 22 (8x) | 24 |
| 125 | 275 | 192 | 657 | 400 | 270 | 220 | 26 (8x) | 26 |
| 150 | 290 | 222 | 702 | 480 | 300 | 250 | 26 (8x) | 28 |

M360834a

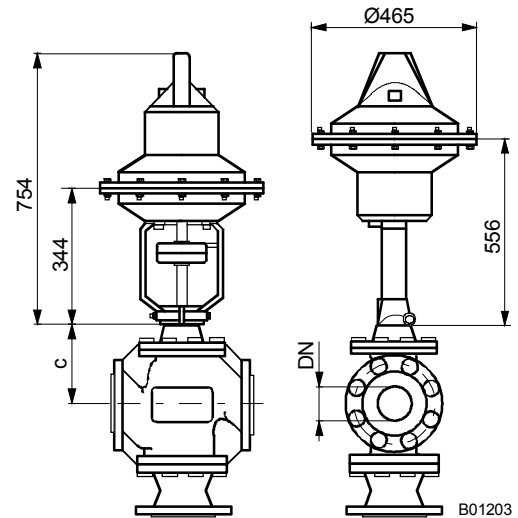
Dimension drawings 7M105

Valves B6F, B6G, B6S with pneumatic drives

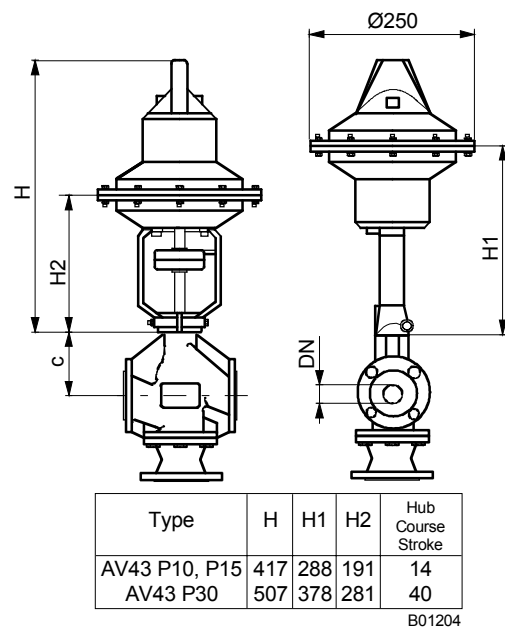
AVP142



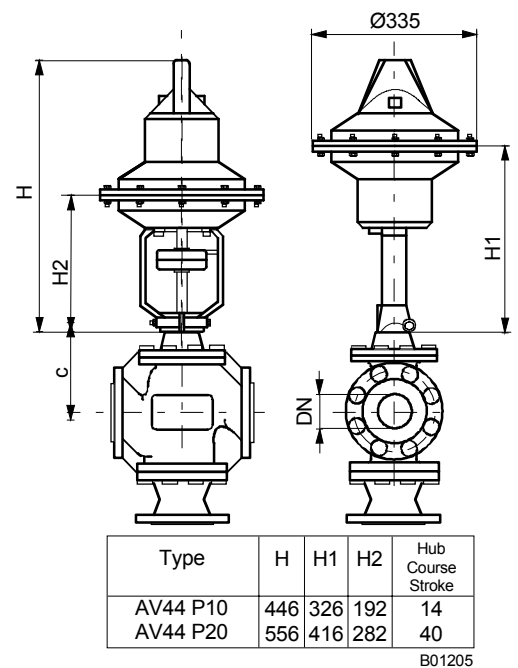
AV45



AV43



AV44



Fitting width:

Take measurement 'c' and number of flange holes from valve dimension drawing 7M104..

Note increase in length of 60 mm due to intermediate insulating piece.
(accessory no. 0361259)

Intermediate piece

