ENGINEERING TOMORROW



Data Sheet

Angle-seat externally operated valve Type **AV210A - AV210H**

For use in industrial applications



AV210 is an externally operated valve for use in demanding industrial applications.

The valve can operate at very high medium temperatures and viscosities, and is insensitive to dirt particles in the medium; thus, it is often called a "troubleshooter" valve. The valve is available in bronze and stainless steel.

Features

- For all fluids and gases
- Flow range: $0 234 \,\text{m}^3/\text{h} / 0 275 \,\text{USgal/min}$
- Unpressurized closed (NC) bidirectional versions and unpressurized opened (NO) version closing against the flow direction
- The valves can be used for rough vacuum
- Control connection G 1/8
- Valves comply with Pressure Equipment Directive 97/23/EC
- NC version: bi-directional, closing against or closing with the flow direction
- NO version: always closing against the flow direction



1 Portfolio overview

Table 1: Portfolio overview

| Features | AV | 210 |
|-----------------------------------|-----------------------------------|-----------------------------------|
| | | |
| Body material | Brass | Stainless steel |
| DN [mm] | 15-50 | 15-50 |
| Connection ISO | G 3%– G 2 | G½-G2 |
| Connection NPT (Only NC) | 1⁄2−2 | 1/2−2 |
| Sealing material | PTFE | PTFE |
| Function | NC, NO | NC, NO |
| Kv [m³/h] | 4.5-67 | 4.9-67 |
| Control head diameter [mm] | 40, 50, 63, 90, 110 | 50, 63, 90, 110 |
| Differential pressure range [bar] | 0-16 | 0-16 |
| Control pressure NC [bar] | 4-10 | 4-10 |
| Control pressure NO [bar] | 1.8-10 | 1.8-10 |
| Function NC | Closing against and with the flow | Closing against and with the flow |
| Function NO | Only closing against the flow | Only closing against the flow |
| Temperature range [°C] | -30-180 | -30-180 |

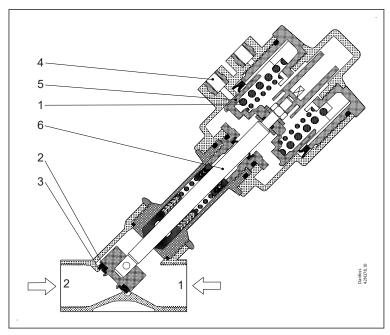


2 Functions

2.1 NC ISO / NPT Connection

AV210 unpressurized closed version (NC) bidirectional.

The valve is kept closed by the spring (1), which presses the seat gasket (2) against the valve seat (3). When the pressure is applied to the control connection (4), the control piston (5), the spindle (6) and thus the seat gasket (2) are raised, and the valve opens with or against the pressure of the medium.

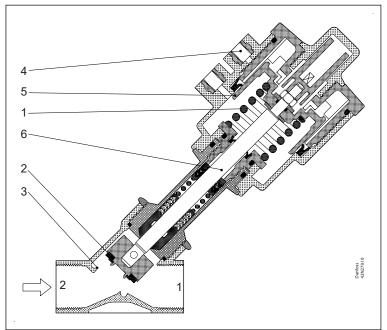


| 1 | Spring |
|---|--------------------|
| 2 | Seat gasket |
| 3 | Valve seat |
| 4 | Control connection |
| 5 | Control piston |
| 6 | Spindle |

2.2 NO ISO Connection

AV210 unpressurized open version (NO):

The valve is kept open by the spring (1), which keeps the seat gasket (2) away from the valve seat (3). When pressure is applied to the control connection (4), the control piston (5), the spindle (6) and thus the seat gasket (2) are lowered, and the valve closes against the pressure of the medium.



| 1 | Spring |
|---|--------------------|
| 2 | Seat gasket |
| 3 | Valve seat |
| 4 | Control connection |
| 5 | Control piston |
| 6 | Spindle |



3 Product specification

3.1 Technical data

Table 2: Technical data

| Media | Bronze | For water, oil and compressed air | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|
| media | Stainless | For neutral, aggressive liquid and gaseous media | | | | | | | |
| Media temperature [°C] / [°F] | PTFE | -30-180 °C /-22-356 °F | | | | | | | |
| Ambient temperature [°C] / [°F] | -30-60 °C / -22-140 °F | | | | | | | | |
| Pressure | Pressure range can be extended depending on the application | for use in rough vacuum, typically up to 99% vacuum (10 mbar), | | | | | | | |
| | DN15 | 4.5-5.7 m ³ /h | | | | | | | |
| | DN20 | 10 m ³ /h | | | | | | | |
| Kv value [m³/h] | DN25 | $20 \text{ m}^3/\text{h}$ | | | | | | | |
| KV Value [m²/n] | DN32 | 29 m³/h | | | | | | | |
| | DN40 | 46 m³/h | | | | | | | |
| | DN50 | 67 m³/h | | | | | | | |
| Min. Opening differential pressure [bar] | 0 bar | | | | | | | | |
| Max. Opening differential pressure [bar] | Up to 30 bar | | | | | | | | |
| Max. working pressure [bar] | Up to 30 bar | | | | | | | | |
| | DN1.5-4.5 | 52.5 bar | | | | | | | |
| Max. test pressure [bar] | DN6-10 | 37.5 bar | | | | | | | |
| | DN15-25 | 24 bar | | | | | | | |
| Control medium | Air | | | | | | | | |
| Tightness | Internally / Externally: | Better than 0.4 mbar l/sec (25 ccm air per min.) | | | | | | | |
| Viscosity [cSt] | Max. 600 cSt / 3000 SSU | | | | | | | | |
| | | | | | | | | | |

Differential pressure range for NC/NO

Table 3: Differential pressure NC, closing against the flow

| Connection ISO228/1 | Connection NPT | Orifice | Control head diameter | Max worki | ng pressure | Differentia min. to | l pressure, o max. | Control pressure ⁽¹⁾ (Values for closing against the flow) | | |
|------------------------|-------------------|---------|--------------------------|-----------|-------------|------------------------|-----------------------|---|--------|--|
| | | [mm] | [mm] | [bar] | [psi] | [bar] | [psi] | [bar] | [psi] | |
| G 3/8 | | 15 | 40 | 16 | 232 | 0-16 | 0-232 | 4.2-10 | 61-145 | |
| G 3/6 | | 15 | 50 | 16 | 232 | 0-16 | 0-232 | 4-10 | 58-145 | |
| G 1/2 | 1/2 | 15 | 40 | 16 | 232 | 0-16 | 0-232 | 4.2-10 | 61-145 | |
| G 1/2 | 1/2 | 15 | 50 | 16 | 232 | 0-16 | 0-232 | 4-10 | 58-145 | |
| G 3/4 | 3/4 | 20 | 50 | 10 | 140 | 0-10 | 0-140 | 4-10 | 58-145 | |
| G 3/4 | 3/4 | 20 | 63 | 16 | 232 | 0-16 | 0-232 | 4-10 | 58-145 | |
| G 1 | 1 | 25 | 63 | 11 | 160 | 0-11 | 0-160 | 4-10 | 58-145 | |
| G I | ı | 25 | 90 | 16 | 232 | 0-16 | 0-232 | 4-8 | 58-116 | |
| G 11/4 | 11/4 | 32 | 90 | 14 | 203 | 0-14 | 0-203 | 4-8 | 58-116 | |
| G 11/2 | 11/2 | 40 | 90 | 11 | 160 | 0-11 | 0-160 | 4-8 | 58-116 | |
| G 11/2 | 11/2 | 40 | 110 | 16 | 232 | 0-16 | 0-232 | 4-8 | 58-116 | |
| G 2 | 2 | 50 | 110 | 10 | 140 | 0-10 | 0-140 | 4-8 | 58-116 | |

⁽¹⁾ For NC, closing with the flow: See figure 2 - 5 / Diagrams, NC for closing with the flow direction (Port 1 to 2)

Table 4: Differential pressure NO, closing against the flow

| | Orifice | Control head | Max walking process | Differential pressure, | Control | pressure | | | | | |
|------------------------|---------|--------------|---------------------------------|----------------------------------|------------------------|----------|--|--|--|--|--|
| Connection ISO228/1 | Ornice | diameter | Max working pressure | min. to max. | Min. | Max. | | | | | |
| | [mm] | [mm] | [bar] | [bar] | [ba | ar] | | | | | |
| G1/2 | 15 | 50 | | 10 | | | | | | | |
| G3⁄4 | 20 | 50 | Soo figure 7 10 / Diagrams N | O for closing against the flow d | iraction (Part 2 to 1) | 10 | | | | | |
| G1 | 25 | 63 | See ligure 7 - 10 / Diagrams, N | 10 | | | | | | | |
| G1½ | 40 | 90 | | | | | | | | | |



Diagrams, NC for closing with the flow direction (Port 1 to 2)

Recommended only for compressible media for extended pressure range

Figure 1: Valve connection

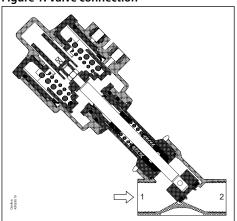


Figure 2: Control head ø40 - ø50 mm / 2 in

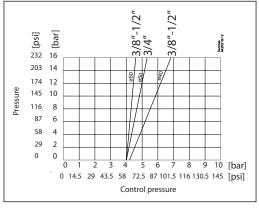


Figure 3: Control head ø63 mm / 2 1/2 in

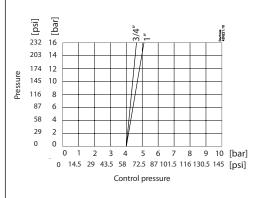


Figure 4: Control head ø90 mm / 3 $\frac{1}{2}$ in

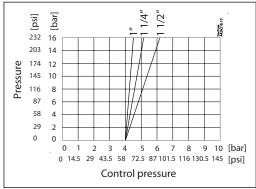
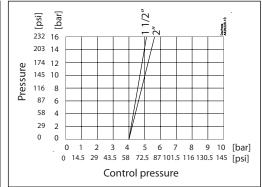


Figure 5: Control head $\emptyset 110 \text{ mm} / 4 \frac{1}{3} \text{ in}$





Diagrams, NO for closing against the flow direction (Port 2 to 1)

Figure 6: Valve connection

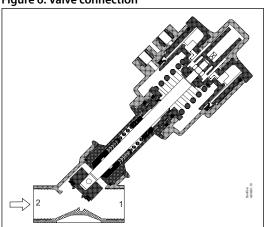


Figure 7: Control head ø50 mm

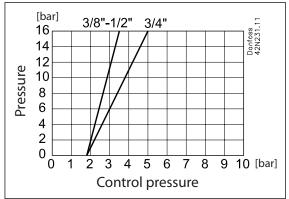


Figure 8: Control head ø63 mm

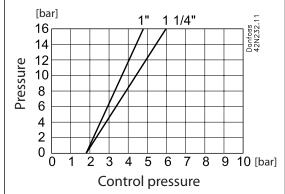


Figure 9: Control head ø90 mm

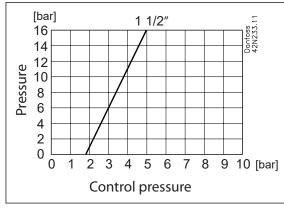
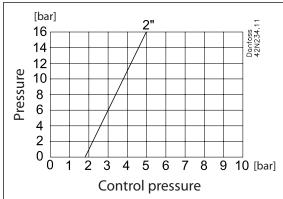


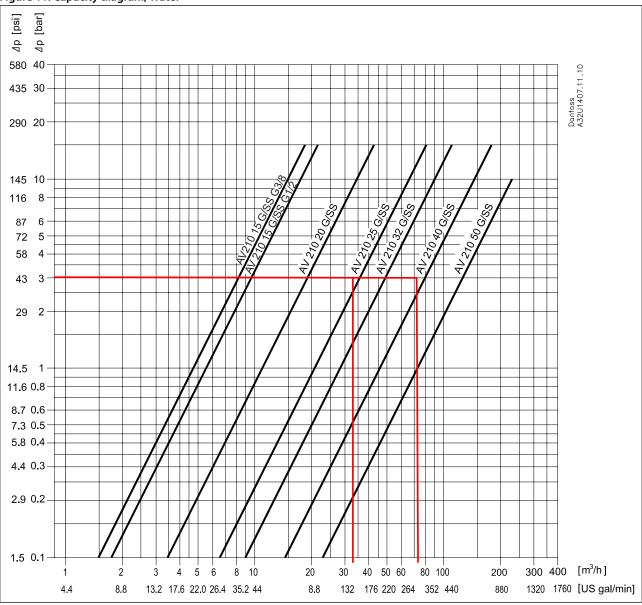
Figure 10: Control head ø110 mm





Capacity diagram

Figure 11: Capacity diagram, Water



Time to open/close

Table 5: Time to open/close

| Main type | ø50 − 63 mm / 2 − 2 ½ in control head Closing with the flow direction | ø50 – 63 mm / 2 – 2 ½ in control head Closing against the flow direction | ø90 – 110 mm / 3 $\frac{1}{2}$ – 4 $\frac{1}{2}$ in control head Closing with the flow direction | ø90 – 110 mm / 3 ½ – 4 ½ in control head Closing against the flow direction |
|-----------------------------------|---|--|--|---|
| Time to open [ms] ⁽¹⁾ | 40 – 180 | 50 – 350 | 80 – 780 | 100 – 460 |
| Time to close [ms] ⁽¹⁾ | 160 – 500 | 120 – 350 | 580 – 1270 | 360 – 790 |

⁽¹⁾ The times are indicative.



Materials

Table 6: Materials

| Components | Materials | Specifications | |
|-----------------------|-----------------|-----------------|-------------|
| Valve body | Bronze | RG 5 | |
| valve body | Stainless steel | AISI 316 | |
| Intermediate piece | Bronze | Brass | W.no.2.0402 |
| intermediate piece | Stainless steel | Stainless steel | AISI 316 |
| Seat control and nut: | Stainless steel | AISI 316 | |
| Spindle | Stainless steel | AISI 316 | |
| Spindle gasket | PTFE | | |
| Gasket | Graphite | | |
| Valve plate unit | PTFE | | |
| Control head | PA66 | | |

3.2 Dimension and weight

Dimension and weight, bronze valve body

Table 7: ISO Connection

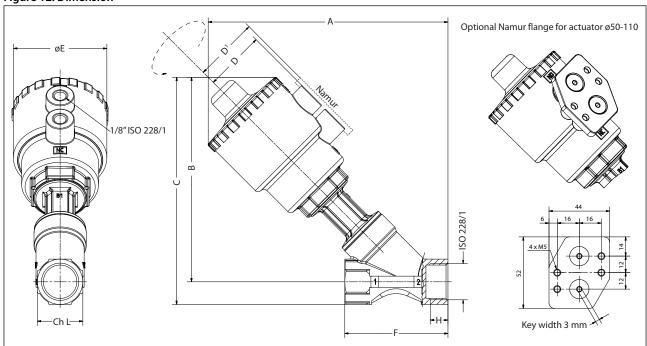
| Connection ISO 228/1 | Orifice size | Control head di- ameter | A | В | С | D | D¹ | øE | F | н | ch.L | Weight |
|----------------------|-----------------|-------------------------------|------|------|------|------|------|-------|------|------|------|--------|
| [in] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [kg] |
| G 3/8 | 15 | 40 | 144 | 121 | 134 | 35 | - | 61 | 65 | 12 | 27 | 1.1 |
| G 3/8 | 15 | 50 | 163 | 140 | 153 | 44 | 50.5 | 70 | 65 | 12 | 27 | 1.1 |
| G 1/2 | 15 | 40 | 144 | 121 | 134 | 35 | - | 61 | 65 | 13 | 27 | 1.0 |
| G 1/2 | 15 | 50 | 163 | 140 | 153 | 44 | 50.5 | 70 | 65 | 13 | 27 | 1.0 |
| G ¾ | 20 | 50 | 173 | 147 | 163 | 44 | 50.5 | 70 | 75 | 14.3 | 27.5 | 1.2 |
| G ¾ | 20 | 63 | 191 | 165 | 181 | 50.5 | 57 | 84.4 | 75 | 14.3 | 27.5 | 1.2 |
| G 1 | 25 | 63 | 206 | 176 | 196 | 50.5 | 57 | 84.4 | 90 | 17.5 | 41 | 1.6 |
| G 1 | 25 | 90 | 246 | 216 | 236 | 66.2 | 72.7 | 116.4 | 90 | 17.5 | 41 | 1.7 |
| G 1 ¼ | 32 | 90 | 255 | 220 | 245 | 66.2 | 72.7 | 116.4 | 110 | 19 | 50 | 3.0 |
| G 1 ½ | 40 | 90 | 270 | 235 | 264 | 66.2 | 72.7 | 116.4 | 120 | 18 | 58 | 3.4 |
| G 1 ½ | 40 | 110 | 306 | 271 | 300 | 77.4 | 83.9 | 140.6 | 120 | 18 | 58 | 4.0 |
| G 2 | 50 | 110 | 316 | 276 | 311 | 77.4 | 83.9 | 140.6 | 150 | 20 | 70 | 5.3 |

Table 8: NPT Connection

| Conn NPT | Orific | e size | Con head amo | d di- | , | , | В | | С | | С | | C D D¹ øE F H | | | ch | .L | Wei | ight | | | | | |
|-------------|--------|--------|--------------------|-------|------|------|------|------|------|------|------|------|---------------|------|-------|------|------|------|------|------|------|------|------|-------|
| [in] | [mm] | [in] | [mm] | [in] | [mm] | [in] | [mm] | [in] | [mm] | [in] | [mm] | [in] | [mm] | [in] | [mm] | [in] | [mm] | [in] | [mm] | [in] | [mm] | [in] | [kg] | [lbs] |
| 1/2 | 15 | 1/2 | 50 | 2 | 163 | 6.4 | 140 | 5.5 | 153 | 6.0 | 44 | 1.7 | 50.5 | 1.99 | 70 | 2.8 | 65 | 2.6 | 13 | 0.5 | 27 | 1.1 | 1.0 | 2.2 |
| 3/4 | 15 | 3/4 | 50 | 2 | 173 | 6.8 | 147 | 5.8 | 163 | 6.4 | 44 | 1.7 | 50.5 | 1.99 | 70 | 2.8 | 75 | 3.0 | 14.3 | 0.6 | 27.5 | 1.1 | 1.2 | 2.6 |
| 1 | 25 | 1 | 63 | 2 ½ | 206 | 8.1 | 176 | 6.9 | 196 | 7.7 | 50.5 | 2.0 | 57 | 2.24 | 84.4 | 3.3 | 90 | 3.5 | 17.5 | 0.7 | 41 | 1.6 | 1.6 | 3.5 |
| 1 1/4 | 32 | 1 1/4 | 90 | 3 ½ | 255 | 10.0 | 220 | 8.7 | 245 | 9.6 | 66.2 | 2.6 | 72.7 | 2.86 | 116.4 | 4.6 | 110 | 4.3 | 19 | 0.7 | 50 | 2.0 | 3.0 | 6.6 |
| 1 ½ | 40 | 1 ½ | 90 | 3 ½ | 270 | 10.6 | 235 | 9.3 | 264 | 10.4 | 66.2 | 2.6 | 72.7 | 2.86 | 116.4 | 4.6 | 120 | 4.7 | 18 | 0.7 | 58 | 2.3 | 3.4 | 7.5 |
| 2 | 50 | 2 | 110 | 4 1/3 | 316 | 12.4 | 276 | 10.9 | 311 | 12.2 | 77.4 | 3.0 | 83.9 | 3.30 | 140.6 | 5.5 | 150 | 5.9 | 20 | 0.8 | 70 | 2.8 | 5.3 | 11.7 |



Figure 12: Dimension



Dimension and weight, stainless steel valve body

Table 9: ISO Connection

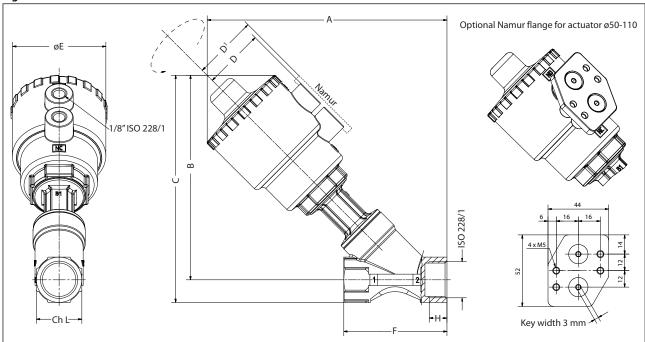
| Connection ISO 228/1 | Orifice size | Control head di- ameter | A | В | c | D | D ¹ | øE | F | н | ch.L | Weight |
|-------------------------|-----------------|-------------------------------|------|------|-------|------|----------------|-------|------|------|------|--------|
| [in] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [kg] |
| G 3/8 | 15 | 40 | 190 | 156 | 169 | 44 | - | 70 | 85 | 12 | 25 | 1.1 |
| G 1/2 | 15 | 50 | 190 | 156 | 169 | 44 | 50.5 | 70 | 85 | 15 | 25 | 1.0 |
| G ¾ | 20 | 50 | 195 | 160 | 176 | 44 | 50.5 | 70 | 95 | 16.3 | 31 | 1.2 |
| G 3/4 | 20 | 63 | 213 | 178 | 194.4 | 50.5 | 70 | 84.4 | 95 | 16.3 | 31 | 1.2 |
| G 1 | 25 | 63 | 219 | 182 | 202 | 50.5 | 70 | 84.4 | 105 | 19.5 | 38 | 1.6 |
| G 1 | 25 | 90 | 259 | 222 | 242 | 66.2 | 72.7 | 116.4 | 105 | 19.5 | 38 | 1.7 |
| G 1 1/4 | 32 | 90 | 266 | 226 | 249 | 66.2 | 72.7 | 116.4 | 120 | 19 | 47 | 3.0 |
| G 1 ½ | 40 | 90 | 271 | 230 | 258 | 66.2 | 72.7 | 116.4 | 130 | 18 | 54 | 3.4 |
| G 1 ½ | 40 | 110 | 307 | 266 | 294 | 77.4 | 83.9 | 140.6 | 130 | 18 | 54 | 4.0 |
| G 2 | 50 | 110 | 321 | 276 | 310 | 77.4 | 83.9 | 140.6 | 150 | 20 | 66 | 5.3 |

Table 10: NPT Connection

| Conn NPT | | | ameter | | head di- A ameter | | В | | С | | D | | D |)1 | ø | E | F | | н | | ch.L | | Weight | |
|-------------|------|-------|--------|-------|----------------------|------|------|------|-------|------|------|------|------|------|-------|------|------|------|------|------|------|------|--------|-------|
| [in] | [mm] | [in] | [mm] | [in] | [mm] | [in] | [mm] | [in] | [mm] | [in] | [mm] | [in] | [mm] | [in] | [mm] | [in] | [mm] | [in] | [mm] | [in] | [mm] | [in] | [kg] | [lbs] |
| 1/2 | 15 | 1/2 | 50 | 2 | 190 | 7.5 | 156 | 6.1 | 169 | 6.7 | 44 | 1.7 | 50.5 | 1.99 | 70 | 2.8 | 85 | 3.3 | 15 | 0.6 | 25 | 1.0 | 1.0 | 2.2 |
| 3/4 | 15 | 3/4 | 50 | 2 | 195 | 7.7 | 160 | 6.3 | 176 | 6.9 | 44 | 1.7 | 50.5 | 1.99 | 70 | 2.8 | 95 | 3.7 | 16.3 | 0.6 | 31 | 1.2 | 1.2 | 2.6 |
| 3/4 | 15 | 3/4 | 63 | 2 ½ | 213 | 8.4 | 178 | 7.0 | 194.4 | 7.7 | 50.5 | 2.0 | 57 | 2.24 | 84.4 | 3.3 | 95 | 3.7 | 16.3 | 0.6 | 31 | 1.2 | 1.2 | 2.6 |
| 1 | 25 | 1 | 63 | 2 ½ | 219 | 8.6 | 182 | 7.2 | 202 | 8.0 | 50.5 | 2.0 | 57 | 2.24 | 84.4 | 3.3 | 105 | 4.1 | 19.5 | 0.8 | 38 | 1.5 | 1.6 | 3.5 |
| 1 1/4 | 32 | 1 1/4 | 90 | 3 ½ | 266 | 10.5 | 226 | 8.9 | 249 | 9.8 | 66.2 | 2.6 | 72.7 | 2.86 | 116.4 | 4.6 | 120 | 4.7 | 19 | 0.7 | 47 | 1.9 | 3.0 | 6.6 |
| 1 ½ | 40 | 1 ½ | 90 | 3 ½ | 271 | 10.7 | 230 | 9.1 | 258 | 10.2 | 66.2 | 2.6 | 72.7 | 2.86 | 116.4 | 4.6 | 130 | 5.1 | 18 | 0.7 | 54 | 2.1 | 3.4 | 7.5 |
| 2 | 50 | 2 | 110 | 4 1/3 | 321 | 12.6 | 276 | 10.9 | 310 | 12.2 | 77.4 | 3.0 | 83.9 | 3.30 | 140.6 | 5.5 | 150 | 5.9 | 20 | 0.8 | 66 | 2.6 | 5.3 | 11.7 |



Figure 13: Dimension

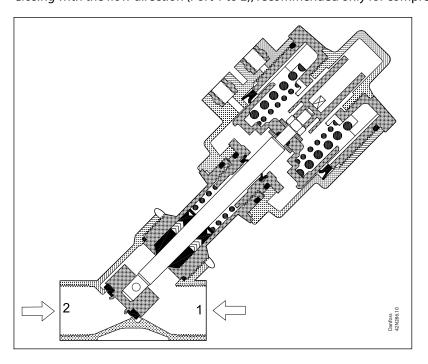


3.3 Mounting

NC

Mounting: Bi-directional

Closing against the flow (Port 2 to 1), recommended to avoid water hammer. Closing with the flow direction (Port 1 to 2), recommended only for compressible fluids for extended pressure range.

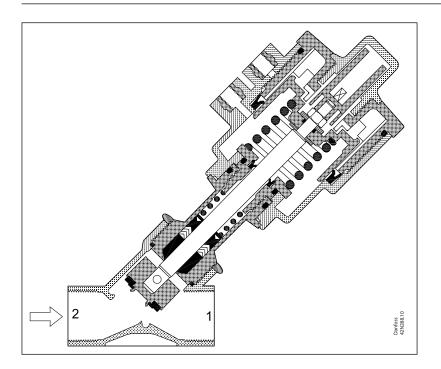


NO

Mounting

Closing against the flow (Port 2 to 1), recommended to avoid water hammer.







4 Ordering

4.1 Parts program

Table 11: Bronze/SS, AV210 with ISO thread connection NC/NO

| Connection ISO228/1 | Orifice | Kv value | Control head | | Function | | | |
|------------------------|---------|----------|--------------|---------|----------|----------|----------|----------|
| | | | diameter | Sealing | Bro | nze SS | | S |
| | [mm] | [m³/h] | [mm] | | NC | NO | NC | NO |
| G 3/8 | 15 | 4.5 | 40 | PTFE | 042N4400 | | | |
| G 78 | 15 | 4.9 | 50 | | 042N4401 | | 042N4450 | |
| G ½ | 15 | 5.3 | 40 | | 042N4402 | | | |
| G 72 | G ½ 15 | 5.7 | 50 | | 042N4403 | 042N4431 | 042N4451 | 042N4481 |
| G 3/4 | 20 | 10 | 50 | | 042N4404 | 042N4432 | 042N4452 | 042N4482 |
| G -/4 | 20 | | 63 | | 042N4405 | | 042N4453 | |
| G 1 | 25 | 20 | 63 | | 042N4406 | 042N4433 | 042N4454 | 042N4483 |
| GI | 25 | | 90 | | 042N4407 | | 042N4455 | |
| G 1¼ | 32 | 29 | 90 | | 042N4408 | | 042N4456 | |
| G 1½ | 40 |) 46 | 90 | | 042N4409 | 042N4435 | 042N4457 | 042N4485 |
| G 1½ | 40 | | 110 | | 042N4410 | | 042N4458 | |
| G 2 | 50 | 67 | 110 | | 042N4411 | 042N4436 | 042N4459 | 042N4486 |

Table 12: Bronze/SS, AV210 with NPT thread connection NC/NO

| Connection NPT | Orifice | Flow value | | Control head di- | | Function | |
|----------------|---------|------------|-----------------|------------------|---------|----------|----------|
| | Offlice | | | ameter | Sealing | Bronze | SS |
| | [mm] | Kv [m³/h] | Cv [USgal/ min] | [mm] | | NC | NC |
| 1/2 | 15 | 5.7 | 6.5 | 50 | PTFE | 042N4503 | 042N4551 |
| 3/4 | 20 | 10 | 11.5 | 50 | | 042N4504 | 042N4552 |
| 1 | 25 | 20 | 23 | 63 | | 042N4506 | 042N4554 |
| 11⁄4 | 32 | 29 | 33 | 90 | | 042N4508 | |
| 11/2 | 40 | 46 | 53 | 90 | | 042N4509 | 042N4557 |
| 2 | 50 | 67 | 77 | 110 | | 042N4511 | 042N4559 |

4.2 Accessories

Position indicator

Figure 14: Position indicator



Features

The control box to check the open/closed positions with two mechanical limit switches is suitable for assembling on the whole range of valves.

Level of protection: IP65

Ambient temperature: from $-20 - 70 \,^{\circ}\text{C} \, (-4 - 158 \,^{\circ}\text{F})$



Access lead nr.2 PG11

Body material: Polyamide (cap in Lexan/polycarbonate)

Figure 15: Valve

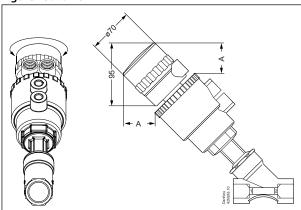
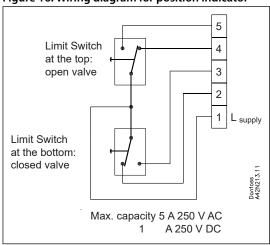


Table 13: Position indicator ordering

| Actuator size | | I | Code number | | |
|---------------|-------|------|-------------|---------------|--|
| [mm] | [in] | [mm] | [in] | Code Hullibel | |
| ø50 | 2 | 52.1 | 2.1 | 042N4820 | |
| ø63 | 21/2 | 47.5 | 1.9 | 042N4821 | |
| ø90 | 3½ | 37.7 | 1.5 | 042N4822 | |
| ø110 | 41//3 | 29.5 | 1.2 | 042N4823 | |

^{*} Limit Switch Box incl. 2 switches

Figure 16: Wiring diagram for position indicator



Namur flange

Namur flange for actuator ø50-110:

- for assembly of 3/2 solenoid valves
- according to EN 15714-3

Figure 17: Namur flange





Table 14: Namur flange ordering

| Actuator size | Code number |
|---------------|-------------|
| ø50-110 | 042N4811 |

Repair kit

The repair kit contains:

- 1. Two gaskets (1) (On actuator size 40 (diameter control head) only one gasket included).
- 2. One complete valve plate unit (plug and pin) (2).

• NOTE:

One gasket is for bronze, and one is for stainless steel.

Figure 18: Kit



Figure 19: Valve

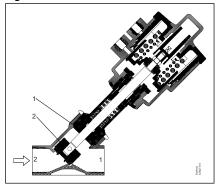


Table 15: Repair kit ordering, bronze/stainless steel

| Connection | | Control head diameter | Mat | Code number | |
|----------------|----------|-----------------------|------------------|-------------|---------------|
| ISO 228/1 [in] | NPT [in] | [mm] | Valve plate unit | Gasket | Code Hulliber |
| G 3/8 | | 40 | PTFE | Graphite | 042N4800 |
| G 3/8 | | 50 | PTFE | Graphite | 042N4801 |
| G 1/2 | | 40 | PTFE | Graphite | 042N4802 |
| G 1/2 | 1/2 | 50 | PTFE | Graphite | 042N4803 |
| G ¾ | 3/4 | 50 – 63 | PTFE | Graphite | 042N4804 |
| G 1 | 1 | 63 | PTFE | Graphite | 042N4805 |
| G 1 | | 90 | PTFE | Graphite | 042N4806 |
| G 1¼ | 11⁄4 | 90 | PTFE | Graphite | 042N4807 |
| G 1½ | 1½ | 90 – 110 | PTFE | Graphite | 042N4808 |
| G 2 | 2 | 110 | PTFE | Graphite | 042N4809 |

Control valves, types EV310A and EV310B

Figure 20: Type EV310A



Figure 21: Type EV310B







- Valves for industrial applications
- Available in de-energized closed and de-energized open versions
- Available with or without manual operation

See separate data sheets regarding code numbers, technical data and coil options for Danfoss EV310A and EV310B valves.



5 Online support

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