

Data sheet

Externally operated valves, Type AV210



AV210 is an externally operated angle seat 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 m³/h
- Differential pressure: 0 – 16 bar
- Media temperature: -30 – 180 °C
- Ambient temperature: -30 – 60 °C
- Thread connection: G 3/8 - 2"
- DN: 15 - 50
- Viscosity: Up to 600 cSt
- Stainless steel version for neutral and aggressive liquid and gaseous media
- Unpressurized closed (NC) bidirectional versions and unpressurized opened (NO) version closing against the flow direction
- Operating pressure up to 16 bar, depending on valve type
- The valves can be used for rough vacuum
- Control connection G 1/8 and NAMUR
- Valves comply with P.E.D. 97/23/ EC group 1 & 2
- Bi-directional NC version - two flow directions
- Bronze version for water, oil and compressed air

Bronze valve body, NC



| Connection ISO 228/1 | Seal material | Orifice size [mm] | kv - value [m ³ /h] | Diameter control head [mm] | Control pressure [bar] | Differential pressure, min. to max. [bar] ¹⁾ | Code number |
|----------------------|---------------|-------------------|--------------------------------|----------------------------|------------------------|---|-----------------|
| G 3/8 | PTFE | 15 | 4.5 | 40 ²⁾ | 4.2 – 10 | 0 – 16 | 042N4400 |
| G 3/8 | PTFE | 15 | 4.9 | 50 | 4 – 10 | 0 – 16 | 042N4401 |
| G 1/2 | PTFE | 15 | 5.3 | 40 ²⁾ | 4.2 – 10 | 0 – 16 | 042N4402 |
| G 1/2 | PTFE | 15 | 5.7 | 50 | 4 – 10 | 0 – 16 | 042N4403 |
| G 3/4 | PTFE | 20 | 10 | 50 | 4 – 10 | 0 – 10 | 042N4404 |
| G 3/4 | PTFE | 20 | 10 | 63 | 4 – 10 | 0 – 16 | 042N4405 |
| G 1 | PTFE | 25 | 20 | 63 | 4 – 10 | 0 – 11 | 042N4406 |
| G 1 | PTFE | 25 | 20 | 90 | 4 – 8 | 0 – 16 | 042N4407 |
| G 1 1/4 | PTFE | 32 | 29 | 90 | 4 – 8 | 0 – 14 | 042N4408 |
| G 1 1/2 | PTFE | 40 | 46 | 90 | 4 – 8 | 0 – 11 | 042N4409 |
| G 1 1/2 | PTFE | 40 | 47 | 110 | 4 – 8 | 0 – 16 | 042N4410 |
| G 2 | PTFE | 50 | 74 | 110 | 4 – 8 | 0 – 10 | 042N4411 |

¹⁾ Pressure range can be extended for use in rough vacuum, typically up to 99% vacuum (10mbar), depending on the application

²⁾ Without NAMUR interface

Stainless steel valve body, NC



| Connection ISO 228/1 | Seal material | Orifice size [mm] | kv - value [m ³ /h] | Diameter control head [mm] | Control pressure [bar] | Differential pressure, min. to max. [bar] ¹⁾ | Code number |
|----------------------|---------------|-------------------|--------------------------------|----------------------------|------------------------|---|-----------------|
| G 3/8 | PTFE | 15 | 4.9 | 50 | 4 – 10 | 0 – 16 | 042N4450 |
| G 1/2 | PTFE | 15 | 5.7 | 50 | 4 – 10 | 0 – 16 | 042N4451 |
| G 3/4 | PTFE | 20 | 10 | 50 | 4 – 10 | 0 – 10 | 042N4452 |
| G 3/4 | PTFE | 20 | 10 | 63 | 4 – 10 | 0 – 16 | 042N4453 |
| G 1 | PTFE | 25 | 20 | 63 | 4 – 10 | 0 – 11 | 042N4454 |
| G 1 | PTFE | 25 | 20 | 90 | 4 – 8 | 0 – 16 | 042N4455 |
| G 1 1/4 | PTFE | 32 | 29 | 90 | 4 – 8 | 0 – 14 | 042N4456 |
| G 1 1/2 | PTFE | 40 | 46 | 90 | 4 – 8 | 0 – 11 | 042N4457 |
| G 1 1/2 | PTFE | 40 | 47 | 110 | 4 – 8 | 0 – 16 | 042N4458 |
| G 2 | PTFE | 50 | 74 | 110 | 4 – 8 | 0 – 10 | 042N4459 |

¹⁾ Pressure range can be extended for use in rough vacuum, typically up to 99% vacuum (10mbar), depending on the application

Mounting: closing *against* or closing *with* the flow direction:

Closing *against* is recommended to avoid water hammer