

Angle seat valve(2/2 way)

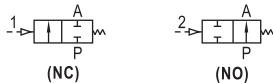
2J Series



Specification

| Model/Item | Port | Actuator size(mm) | Orifice size(mm) | Kv | Min. pilot pressure(bar) | Max. differential pressure(bar) | Weight (kg) | |
|--------------------|------------|-------------------|------------------|------|--------------------------|---------------------------------|-------------|------|
| 2JS150 2JW150 | -10 3/8" | 40 | 15 | 4.4 | 4.8 | 13 | 0.8 | |
| | -15 1/2" | | | | | | 0.7 | |
| | -10 3/8" | 50 | | 4.8 | 4.3 | 16 | 0.8 | |
| | -15 1/2" | | | | | | 0.7 | |
| 2JS200 2JW200 | -20 3/4" | 40 | 20 | 7.9 | 4.8 | 6.5 | 0.9 | |
| | | 50 | | 8 | | | 11 | 0.95 |
| | | 63 | | 10 | | | 16 | 1.6 |
| 2JS250 2JW250 | -25 1" | 63 | 25 | 19 | 4.2 | 11 | 1.9 | |
| | | 80 | | 20 | | | 16 | 2.5 |
| 2JS320 2JW320 | -32 1 1/4" | 63 | 32 | 27 | 4.2 | 6 | 2.5 | |
| | | 80 | | 28 | | | 15 | 3.0 |
| 2JSK150 2JWK150 | -10 3/8" | 40 | 15 | 4.4 | 4.8 | 16 | 0.8 | |
| | -15 1/2" | | | | | | 0.7 | |
| | -10 3/8" | 50 | | 4.8 | | | 16 | 0.8 |
| | -15 1/2" | | | | | | | 0.7 |
| 2JSK200 2JWK200 | -20 3/4" | 40 | 20 | 7.9 | 4.8 | 16 | 0.9 | |
| | | 50 | | 8 | | | 16 | 0.9 |
| 2JSK250 2JWK250 | -25 1" | 50 | 25 | 14.5 | 4.2 | 16 | 1.2 | |
| | | 63 | | 19 | | | 16 | 1.6 |
| 2JSK320 2JWK320 | -32 1 1/4" | 63 | 32 | 27 | 4.2 | 16 | 2.2 | |
| | | 80 | | 28 | | | 16 | 2.4 |
| 2JSY150 2JWY150 | -10 3/8" | 40 | 15 | 4.4 | 4.8 | 16 | 0.8 | |
| | -15 1/2" | | | | | | 0.7 | |
| | -10 3/8" | 50 | | 4.8 | | | 16 | 0.8 |
| | -15 1/2" | | | | | | | 0.7 |
| 2JSY200 2JWY200 | -20 3/4" | 40 | 20 | 7.9 | 4.8 | 16 | 0.9 | |
| | | 50 | | 8 | | | 16 | 0.9 |
| 2JSY250 2JWY250 | -25 1" | 50 | 25 | 14.5 | 4.2 | 16 | 1.3 | |
| | | 63 | | 19 | | | 16 | 1.7 |
| 2JSY320 2JWY320 | -32 1 1/4" | 63 | 32 | 27 | 4.2 | 16 | 2.3 | |

Symbol



Product feature

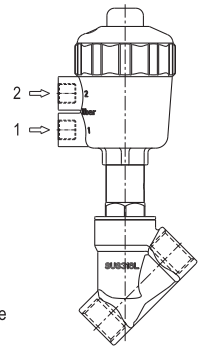
- Air piloted and can be used non electric, inflammable and explosive environment. The start-up pressure is low; and the high pressure could be controlled by the low pressure.
- The accessories such as the noumenon and slide bar are made of stainless steel, which are of excellent rustproof quality. The seals are made of Teflon and can be applied extensively in areas with high temperature and strong corrosive liquids.
- The structure of valve is angles at 45° degrees with streamline inner chamber design. The reduced tunnel resistance allows liquid to run more smoothly thus achieving high flow. Filtration core are added at inlet port to prevent the entrance of impurities and extend life span of the seals.
- Actuator is fitted with visual position indicator. This allows for visual checking and adjustment of flowrate.
- Control point is made of metal insert. Mounting plate can be used to for NAMUR value.
- The actuator part can be rotated at 360° degrees and is easily installed.

Ordering code

2J S K 150 15 Q50 G

Operation and maintenance

- Before using, please verify that if the working status of product is identical with data in catalogue, and it should not exceed the limits.
- Before the pressure releasing and cooling of system, no maintenance, examination and installation of product should be conducted.
- For the normally-closed-type, when its valve is disassembled, due to the pre-pressure of the relatively large spring power in controller, the "1" hole should be opened for ventilation in advance so to make sure the piston could be completely moved to the position, then rotate the screw thread between the valve and the connection bar, direct rotation is forbidden, otherwise the disassembling would not be conducted in result of the scuffing of screw thread.
- If maintenance of actuator part is needed, special tools should be used for disassembling and installation, while disassembling, the loading spring could cause damage. If the customer can not conduct the maintenance, please return the valve to manufacturer for maintenance.



Model
2J: Angle seat valve(2/2 way)

Valve body material
S: SUS316L
W: SUS304

Thread type
G: G
T: NPT

Size of actuator
Q40: Φ 40mm
Q50: Φ 50mm
Q63: Φ 63mm
Q80: Φ 50mm

Acting type

Blank: No water-hammer(NC)
Control pressure → 2
1 →
The working medium flows to the down side of valve inlet (Flow from the bottom part to upper part of piston)

Y: Water-hammer(NC)
Control pressure → 2
Work pressure →
The working medium flows to the upper side of valve inlet (Flow from the upper part to bottom part of piston)

K: Normal opened
Control pressure → 2
1 →
The working medium flows to the down side of valve inlet (Flow from the bottom part to upper part of piston)

Port size

| Orifice size | Port size |
|--------------|-----------|
| 150 | 10: 3/8" |
| 200 | 15: 1/2" |
| 250 | 20: 3/4" |
| 320 | 25: 1" |

Orifice size
150: Φ 15mm
200: Φ 20mm
250: Φ 25mm
320: Φ 32mm

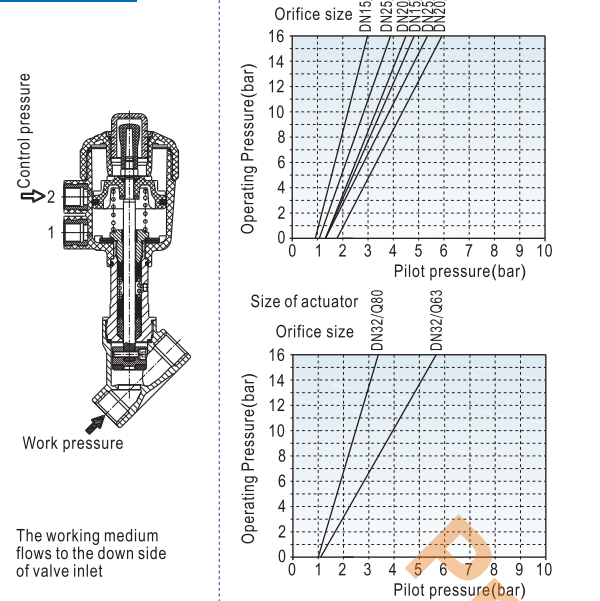
Angle seat valve(2/2 way)

2J Series

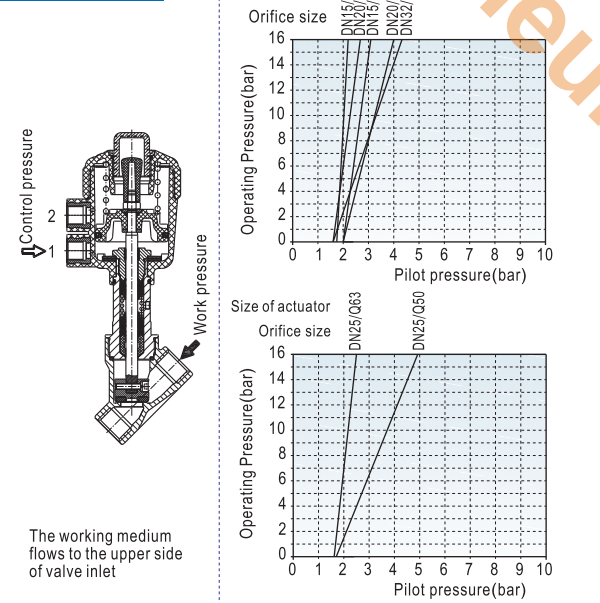


Fluid pressure — control pressure curve

Normal opened

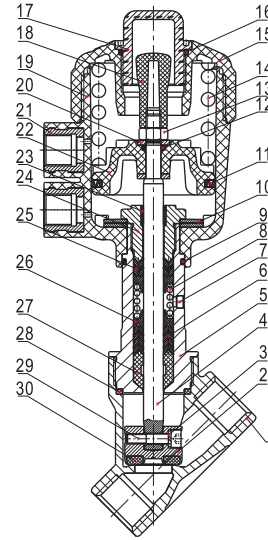


Water-hammer(NC)



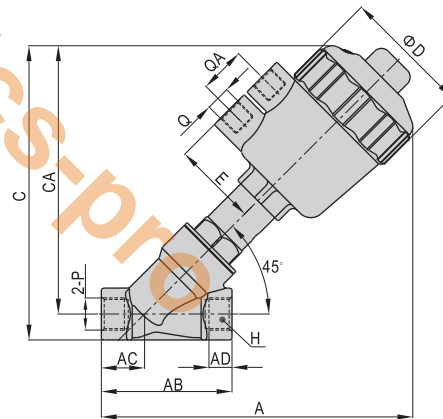
Inner structure

2JS150-Q50



| No. | Item | Material |
|-----|-----------------|-------------------------|
| 1 | Body | Stainless steel |
| 2 | Piston | Stainless steel |
| 3 | Spring washer | Spring steel |
| 4 | Piston rod | Stainless steel |
| 5 | Pitman | Stainless steel |
| 6 | V-seals | PTFE |
| 7 | Filter core | Bronze |
| 8 | Spring | Spring steel |
| 9 | O-ring | NBR |
| 10 | Belville spring | Spring steel |
| 11 | O-ring | NBR |
| 12 | O-ring | NBR |
| 13 | Hexagon nut | steel |
| 14 | Spring | Spring steel |
| 15 | Top cover | PA6 |
| 16 | O-ring | NBR |
| 17 | Transparent cap | Plastic |
| 18 | Indicative | Plastic |
| 19 | Cylinder body | PA6 |
| 20 | Washer | SPCC |
| 21 | Built-in nut | Brass nickel-plate |
| 22 | Piston | PA6 |
| 23 | DU dry bearing | Wear resistant material |
| 24 | Connect nut | Brass |
| 25 | O-ring | Viton |
| 26 | Spring holder | PTFE |
| 27 | Guide sleeve | PTFE |
| 28 | Seal washer | PTFE |
| 29 | Screw | Stainless steel |
| 30 | Seal washer | PTFE |

Dimensions



| Orifice size(DN) | Size of actuator | A | AB | AC | AD | C | CA | ΦD | E | H | Port size(P) | Q | QA |
|------------------|------------------|-----|-----|------|----|-----|-----|------|----|----|--------------|------|----|
| 15 | Φ40 | 153 | 68 | 22.5 | 12 | 144 | 130 | 56 | 33 | 27 | 3/8" | 1/8" | 24 |
| | Φ50 | 162 | | | | 153 | 140 | 66 | 44 | | 1/2" | 1/4" | |
| | Φ40 | 161 | 150 | 134 | | 56 | 33 | 1/8" | | | | | |
| 20 | Φ50 | 170 | 78 | 27 | 14 | 160 | 143 | 66 | 44 | 33 | 3/4" | 1/4" | |
| | Φ63 | 200 | | | | 189 | 172 | 82 | 51 | | 1/4" | | |
| | Φ50 | 176 | 168 | 147 | | 66 | 44 | 1/4" | | | | | |
| 25 | Φ63 | 205 | 90 | 28 | 14 | 197 | 176 | 82 | 51 | 40 | 1" | 1/4" | |
| | Φ80 | 221 | | | | 213 | 193 | 102 | 60 | | 1/4" | | |
| | Φ63 | 220 | 210 | 185 | | 82 | 51 | 1/4" | | | | | |
| 32 | Φ80 | 237 | 110 | 35 | 18 | 210 | 185 | 82 | 51 | 50 | 1 1/4" | 1/4" | |
| | Φ80 | 237 | | | | 227 | 202 | 102 | 60 | | 1/4" | | |

Ambient and medium temperature

| Control medium | Air, neutral air(to be filtered by 40 μm filter element) |
|-----------------------|-------------------------------------------------------------------|
| Max. control pressure | Size of actuator Φ40, 50, 63: 10bar Size of actuator Φ80: 7bar |
| Medium① | air, liquid, vacuum, steam |
| Viscosity limit | 600mm ² /s below |
| Temperatur② | -20~+180°C |
| Ambient temp③ | -10~+60°C |

Note: ① The water-hammer-type can be used for air, or steam only, and can not be used for liquid.

② Dew point: -20°C or less.

③ Relationship of working medium temperature and ambient temperature is shown in following figure.

