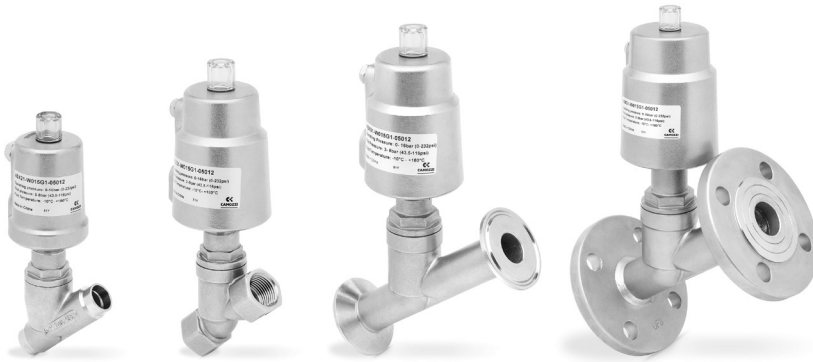


Series ASX angle seat valves

2/2-way - Normally Closed (NC) and Normally Open (NO)
2/2-way - Double Acting (DA)

SERIES ASX ANGLE SEAT VALVES



- » High flow
- » Low resistance of the flow
- » Anti-water hammer design
- » Compliant with Directive PED 97/23/EC
- » Compliant with Directive ATEX for Zones 1/21 - II 2G Ex h IIC T4 Gb and II 2D Ex h IIIC T4 Db

Angle seat valves are available in different versions with regard to nominal diameter, type of fluid and process connections. They are able to manage media that are corrosive or contain suspended solid particulate matter and can be used in applications with high operating temperatures.

The operation is determined by the pneumatic drive of a single acting, guided piston actuator with spring return. There are also models available with double acting actuators, without spring. For liquid media we recommend the models with flow direction under the seat. For gas or steam we recommend the models with flow direction above the seat.

GENERAL DATA

TECHNICAL FEATURES

| | |
|---|--|
| Function | 2/2 NC - 2/2 NO - 2/2 Double Acting |
| Operation | pneumatic, poppet type |
| Pneumatic connections | 1/4 ... 4" with BSP/BSPT/NPT threads, flanged, welding ends, tri-clamp |
| Nominal diameter | DN8 ... DN100 |
| Flow coefficient Kv (m ³ /h) | 2.2 ... 132 |
| Operating pressure | 0 ÷ 2 ... 16 bar |
| Operating temperature | -10 ÷ 180 °C (standard seals) / 25 ÷ 220 °C (high temperature seals) |
| Media | water, air, steam, inert or corrosive liquids and gases (compatible with the materials in contact) |
| Viscosity | 600 cSt. max |
| Installation | in any position |

MATERIALS IN CONTACT WITH THE MEDIUM

| | |
|----------------|---------------------|
| Body | 316 stainless steel |
| Seals | PTFE |
| Internal parts | 316 stainless steel |

SPECIFICATIONS PNEUMATIC ACTUATOR

| | |
|----------------------|--|
| Actuator dimensions | Ø40 - Ø50 - Ø63 - Ø90 - Ø125 mm |
| Actuator material | 304 stainless steel / aluminium (only for Ø125 mm) |
| Piston material | aluminium |
| Piston seal material | FKM |
| Piloting fluid | air or inert gases |

CODING EXAMPLE

| | | | | | | | | | | | | | |
|-----------|----------|----------|----------|----------|----------|------------|-----------|----------|------------|----------|----------|----------|--|
| AS | X | 2 | 1 | - | W | 015 | G1 | - | 040 | 1 | 2 | - | |
|-----------|----------|----------|----------|----------|----------|------------|-----------|----------|------------|----------|----------|----------|--|

| | |
|------------|--|
| AS | SERIES |
| X | TYPE OF ACTUATOR X = metal actuator |
| 2 | BODY MATERIAL 2 = 316 stainless steel |
| 1 | NUMBER OF WAYS - FUNCTIONS 0 = 2/2-way NO 1 = 2/2-way NC 3 = 2/2-way DA (Double Acting) |
| W | FLOW DIRECTION W = under the seat (liquids and gases, anti-water hammer) Y = above the seat (gases) |
| 015 | NOMINAL DIAMETER 008 = DN 8 010 = DN 10 015 = DN 15 020 = DN 20 025 = DN 25 032 = DN 32 040 = DN 40 050 = DN 50 S65 = DN 65 S80 = DN 80 100 = DN 100 |
| G1 | BODY CONNECTION G1 = BSP thread DIN 228-1 T1 = BSPT thread DIN 2999-1 N1 = NPT thread ASME B1.20.1 H7 = welding ends DIN 11850-2 / DIN 11866-A H8 = welding ends DIN 11850-3 K7 = tri-clamp ISO 2852 F2 = flange DIN 2543 |
| 040 | ACTUATOR DIMENSION 040 = Ø40 mm 050 = Ø50 mm 063 = Ø63 mm 090 = Ø90 mm 125 = Ø125 mm |
| 1 | ACTUATOR MATERIAL 1 = 304 stainless steel 8 = aluminium |
| 2 | SEALS 2 = for standard temperatures -10 ÷ 180 °C 3 = for high temperatures 25 ÷ 220 °C |
| | OPTIONS = none PS1 = proximity switch NPN - NO PS2 = proximity switch NPN - NC PS3 = proximity switch PNP - NO PS4 = proximity switch PNP - NC MO = stroke limiter PI = position indicator |

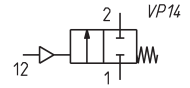
2/2- way NC angle seat valve – Pressure under the seat



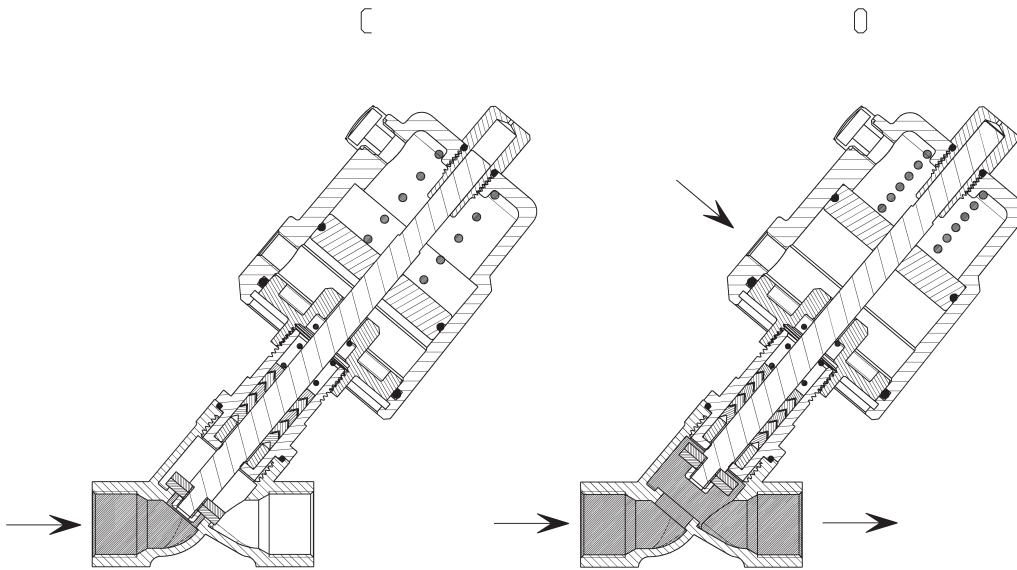
The valves with flow direction under the seat are suitable for incompressible fluids. This function prevents the hydraulic water hammer effect.

NOTE TO THE TABLE:

The indicated models are suitable for operating temperatures from -10 to +180 °C. For higher temperatures, please see the CODING EXAMPLE.
* to complete the code add BODY CONNECTION.



DRAWING LEGEND:
C = valve in closed position
O = valve in open position



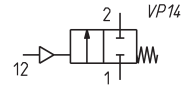
| Mod. | Function | DN | Ports | Orifice Ø (mm) | Kv (m³/h) | Differential pressure min ÷ max (bar) | Pilot pressure min ÷ max (bar) | Actuator Ø (mm) | Actuator material |
|--------------------------------|----------|-----|--------|----------------|-----------|---------------------------------------|--------------------------------|-----------------|-------------------|
| ASX21-W008 ² -04012 | 2/2 NC | 8 | 1/4" | 13 | 2.2 | 0 ÷ 13 | ≥ 4 | 40 | SS 304 |
| ASX21-W008 ² -05012 | 2/2 NC | 8 | 1/4" | 13 | 2.2 | 0 ÷ 14 | ≥ 4.5 | 50 | SS 304 |
| ASX21-W010 ² -04012 | 2/2 NC | 10 | 3/8" | 13 | 3.9 | 0 ÷ 13 | ≥ 4 | 40 | SS 304 |
| ASX21-W010 ² -05012 | 2/2 NC | 10 | 3/8" | 13 | 3.9 | 0 ÷ 14 | ≥ 4.5 | 50 | SS 304 |
| ASX21-W015 ² -04012 | 2/2 NC | 15 | 1/2" | 13 | 4.3 | 0 ÷ 13 | ≥ 4 | 40 | SS 304 |
| ASX21-W015 ² -05012 | 2/2 NC | 15 | 1/2" | 13 | 4.3 | 0 ÷ 14 | ≥ 4.5 | 50 | SS 304 |
| ASX21-W020 ² -05012 | 2/2 NC | 20 | 3/4" | 18 | 7.6 | 0 ÷ 14 | ≥ 4.5 | 50 | SS 304 |
| ASX21-W025 ² -05012 | 2/2 NC | 25 | 1" | 24 | 15.8 | 0 ÷ 8 | ≥ 4.5 | 50 | SS 304 |
| ASX21-W025 ² -06312 | 2/2 NC | 25 | 1" | 24 | 15.8 | 0 ÷ 13 | ≥ 5 | 63 | SS 304 |
| ASX21-W032 ² -06312 | 2/2 NC | 32 | 1 1/4" | 31 | 26 | 0 ÷ 6 | ≥ 5 | 63 | SS 304 |
| ASX21-W032 ² -09012 | 2/2 NC | 32 | 1 1/4" | 31 | 26 | 0 ÷ 16 | ≥ 6 | 90 | SS 304 |
| ASX21-W040 ² -06312 | 2/2 NC | 40 | 1 1/2" | 35 | 32 | 0 ÷ 5 | ≥ 5 | 63 | SS 304 |
| ASX21-W040 ² -09012 | 2/2 NC | 40 | 1 1/2" | 35 | 32 | 0 ÷ 16 | ≥ 6 | 90 | SS 304 |
| ASX21-W050 ² -06312 | 2/2 NC | 50 | 2" | 45 | 52 | 0 ÷ 5 | ≥ 5 | 63 | SS 304 |
| ASX21-W050 ² -09012 | 2/2 NC | 50 | 2" | 45 | 52 | 0 ÷ 10 | ≥ 6 | 90 | SS 304 |
| ASX21-W050 ² -12582 | 2/2 NC | 50 | 2" | 45 | 52 | 0 ÷ 16 | ≥ 5.5 | 125 | Aluminium |
| ASX21-W565 ² -09012 | 2/2 NC | 65 | 2 1/2" | 61 | 83.2 | 0 ÷ 5 | ≥ 6 | 90 | SS 304 |
| ASX21-W565 ² -12582 | 2/2 NC | 65 | 2 1/2" | 61 | 83.2 | 0 ÷ 9 | ≥ 5.5 | 125 | Aluminium |
| ASX21-W580 ² -12582 | 2/2 NC | 80 | 3" | 80 | 119 | 0 ÷ 5 | ≥ 5.5 | 125 | Aluminium |
| ASX21-W100 ² -12582 | 2/2 NC | 100 | 4" | 90 | 132 | 0 ÷ 2.5 | ≥ 5.5 | 125 | Aluminium |

2/2- way NC angle seat valve – Pressure above the seat

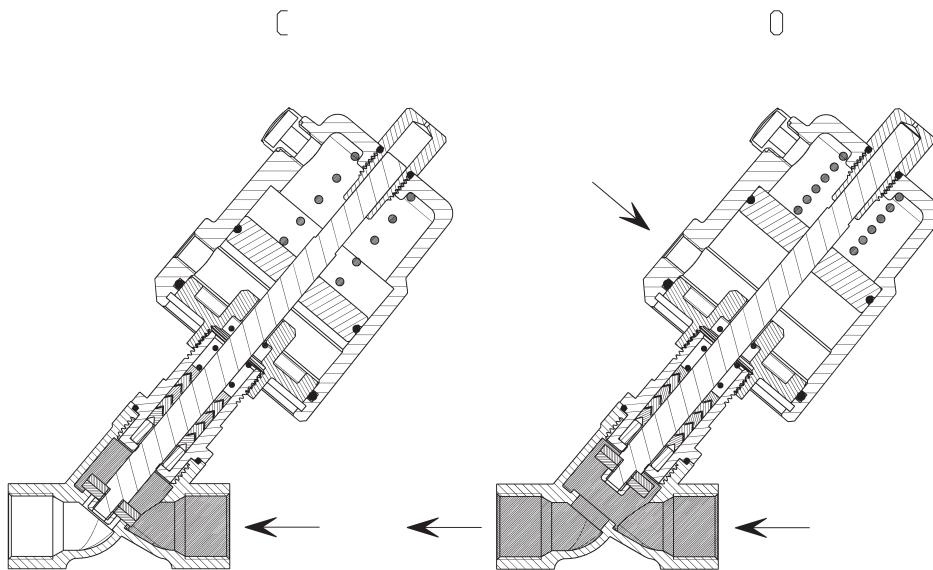


The valves with flow direction above the seat are suitable for compressible fluids.

NOTE TO THE TABLE:
The indicated models are suitable for operating temperatures from -10 to +180 °C. For higher temperatures, please see the CODING EXAMPLE.
* to complete the code add BODY CONNECTION.



DRAWING LEGEND:
C = valve in closed position
O = valve in open position



| Mod. | Function | DN | Ports | Orifice Ø (mm) | Kv (m³/h) | Differential pressure min ÷ max (bar) | Pilot pressure min ÷ max (bar) | Actuator Ø (mm) | Actuator material |
|-------------------|----------|----|--------|----------------|-----------|---------------------------------------|--------------------------------|-----------------|-------------------|
| ASX21-Y008*-04012 | 2/2 NC | 8 | 1/4" | 13 | 2.2 | 0 ÷ 16 | 3 ÷ 4.5 | 40 | SS 304 |
| ASX21-Y008*-05012 | 2/2 NC | 8 | 1/4" | 13 | 2.2 | 0 ÷ 16 | 3 ÷ 3.5 | 50 | SS 304 |
| ASX21-Y010*-04012 | 2/2 NC | 10 | 3/8" | 13 | 3.9 | 0 ÷ 16 | 3 ÷ 4.5 | 40 | SS 304 |
| ASX21-Y010*-05012 | 2/2 NC | 10 | 3/8" | 13 | 3.9 | 0 ÷ 16 | 3 ÷ 3.5 | 50 | SS 304 |
| ASX21-Y015*-04012 | 2/2 NC | 15 | 1/2" | 13 | 4.3 | 0 ÷ 16 | 3 ÷ 4.5 | 40 | SS 304 |
| ASX21-Y015*-05012 | 2/2 NC | 15 | 1/2" | 13 | 4.3 | 0 ÷ 16 | 3 ÷ 3.5 | 50 | SS 304 |
| ASX21-Y020*-05012 | 2/2 NC | 20 | 3/4" | 18 | 7.6 | 0 ÷ 16 | 3 ÷ 4 | 50 | SS 304 |
| ASX21-Y025*-05012 | 2/2 NC | 25 | 1" | 24 | 15.8 | 0 ÷ 16 | 3 ÷ 4.5 | 50 | SS 304 |
| ASX21-Y025*-06312 | 2/2 NC | 25 | 1" | 24 | 15.8 | 0 ÷ 16 | 3 ÷ 3.5 | 63 | SS 304 |
| ASX21-Y032*-06312 | 2/2 NC | 32 | 1 1/4" | 31 | 26 | 0 ÷ 16 | 3 ÷ 5.5 | 63 | SS 304 |
| ASX21-Y032*-09012 | 2/2 NC | 32 | 1 1/4" | 31 | 26 | 0 ÷ 16 | 3 ÷ 3.5 | 90 | SS 304 |
| ASX21-Y040*-06312 | 2/2 NC | 40 | 1 1/2" | 35 | 32 | 0 ÷ 16 | 3 ÷ 6.5 | 63 | SS 304 |
| ASX21-Y040*-09012 | 2/2 NC | 40 | 1 1/2" | 35 | 32 | 0 ÷ 16 | 3 ÷ 4 | 90 | SS 304 |
| ASX21-Y050*-06312 | 2/2 NC | 50 | 2" | 45 | 52 | 0 ÷ 9 | 3 ÷ 7 | 63 | SS 304 |
| ASX21-Y050*-09012 | 2/2 NC | 50 | 2" | 45 | 52 | 0 ÷ 16 | 3 ÷ 4.5 | 90 | SS 304 |
| ASX21-Y050*-12582 | 2/2 NC | 50 | 2" | 45 | 52 | 0 ÷ 16 | 3 ÷ 4 | 125 | Aluminium |
| ASX21-YS65*-09012 | 2/2 NC | 65 | 2 1/2" | 61 | 83.2 | 0 ÷ 10 | 3 ÷ 6 | 90 | SS 304 |
| ASX21-YS65*-12582 | 2/2 NC | 65 | 2 1/2" | 61 | 83.2 | 0 ÷ 16 | 3 ÷ 4 | 125 | Aluminium |
| ASX21-YS80*-12582 | 2/2 NC | 80 | 3" | 80 | 119 | 0 ÷ 12 | 3 ÷ 7 | 125 | Aluminium |

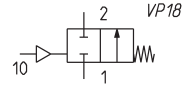
2/2-way NO angle seat valve – Pressure under the seat



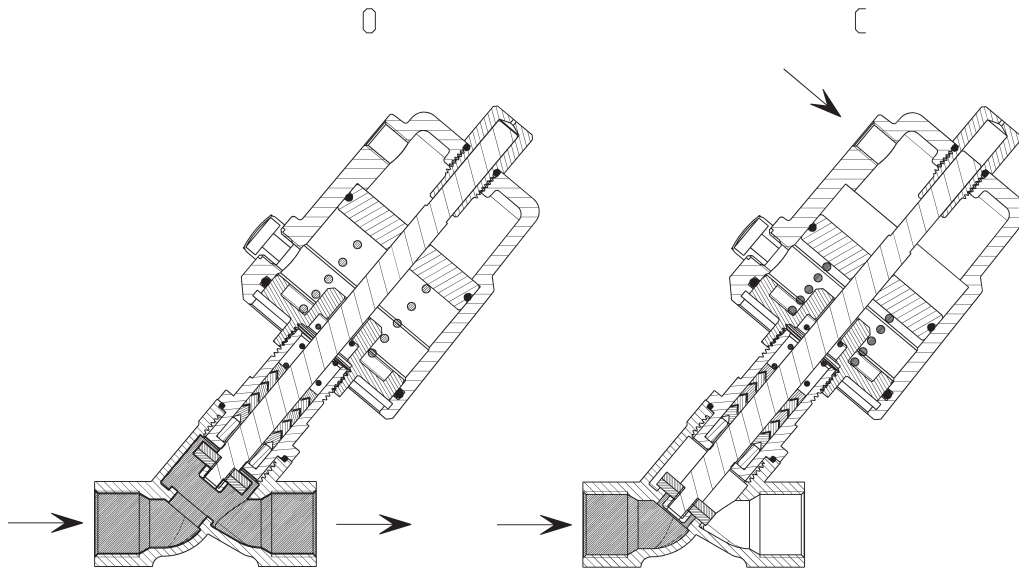
The valves with flow direction under the seat are suitable for incompressible fluids. This function prevents the hydraulic water hammer effect.

NOTE TO THE TABLE:

The indicated models are suitable for operating temperatures from -10 to +180 °C. For higher temperatures, please see the CODING EXAMPLE.
* to complete the code add BODY CONNECTION.



DRAWING LEGEND:
C = valve in closed position
O = valve in open position



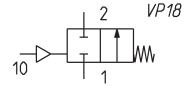
| Mod. | Function | DN | Ports | Orifice Ø (mm) | Kv (m ³ /h) | Differential pressure min ÷ max (bar) | Pilot pressure min ÷ max (bar) | Actuator Ø (mm) | Actuator material |
|--------------------------------|----------|----|--------|----------------|------------------------|---------------------------------------|--------------------------------|-----------------|-------------------|
| ASX20-W008 ² -04012 | 2/2 NO | 8 | 1/4" | 13 | 2.2 | 0 ÷ 16 | 3 ÷ 5 | 40 | SS 304 |
| ASX20-W008 ² -05012 | 2/2 NO | 8 | 1/4" | 13 | 2.2 | 0 ÷ 16 | 3 ÷ 4 | 50 | SS 304 |
| ASX20-W010 ² -04012 | 2/2 NO | 10 | 3/8" | 13 | 3.9 | 0 ÷ 16 | 3 ÷ 5 | 40 | SS 304 |
| ASX20-W010 ² -05012 | 2/2 NO | 10 | 3/8" | 13 | 3.9 | 0 ÷ 16 | 3 ÷ 4 | 50 | SS 304 |
| ASX20-W015 ² -04012 | 2/2 NO | 15 | 1/2" | 13 | 4.3 | 0 ÷ 16 | 3 ÷ 5 | 40 | SS 304 |
| ASX20-W015 ² -05012 | 2/2 NO | 15 | 1/2" | 13 | 4.3 | 0 ÷ 16 | 3 ÷ 4 | 50 | SS 304 |
| ASX20-W020 ² -05012 | 2/2 NO | 20 | 3/4" | 18 | 7.6 | 0 ÷ 16 | 3 ÷ 6 | 50 | SS 304 |
| ASX20-W025 ² -05012 | 2/2 NO | 25 | 1" | 24 | 15.8 | 0 ÷ 13 | 3 ÷ 6 | 50 | SS 304 |
| ASX20-W025 ² -06312 | 2/2 NO | 25 | 1" | 24 | 15.8 | 0 ÷ 16 | 3 ÷ 5 | 63 | SS 304 |
| ASX20-W032 ² -06312 | 2/2 NO | 32 | 1 1/4" | 31 | 26 | 0 ÷ 13 | 3 ÷ 6 | 63 | SS 304 |
| ASX20-W040 ² -06312 | 2/2 NO | 40 | 1 1/2" | 35 | 32 | 0 ÷ 7 | 3 ÷ 6 | 63 | SS 304 |
| ASX20-W040 ² -09012 | 2/2 NO | 40 | 1 1/2" | 35 | 32 | 0 ÷ 16 | 3 ÷ 3.5 | 90 | SS 304 |
| ASX20-W050 ² -06312 | 2/2 NO | 50 | 2" | 45 | 52 | 0 ÷ 5 | 3 ÷ 6 | 63 | SS 304 |
| ASX20-W050 ² -09012 | 2/2 NO | 50 | 2" | 45 | 52 | 0 ÷ 12 | 3 ÷ 6 | 90 | SS 304 |
| ASX20-W565 ² -09012 | 2/2 NO | 65 | 2 1/2" | 61 | 83.2 | 0 ÷ 7.5 | 3 ÷ 5 | 90 | SS 304 |
| ASX20-W565 ² -12582 | 2/2 NO | 65 | 2 1/2" | 61 | 83.2 | 0 ÷ 14 | 3 ÷ 7 | 125 | Aluminium |
| ASX20-W580 ² -12582 | 2/2 NO | 80 | 3" | 80 | 119 | 0 ÷ 12 | 3 ÷ 7 | 125 | Aluminium |

2/2- way NO angle seat valve – Pressure above the seat

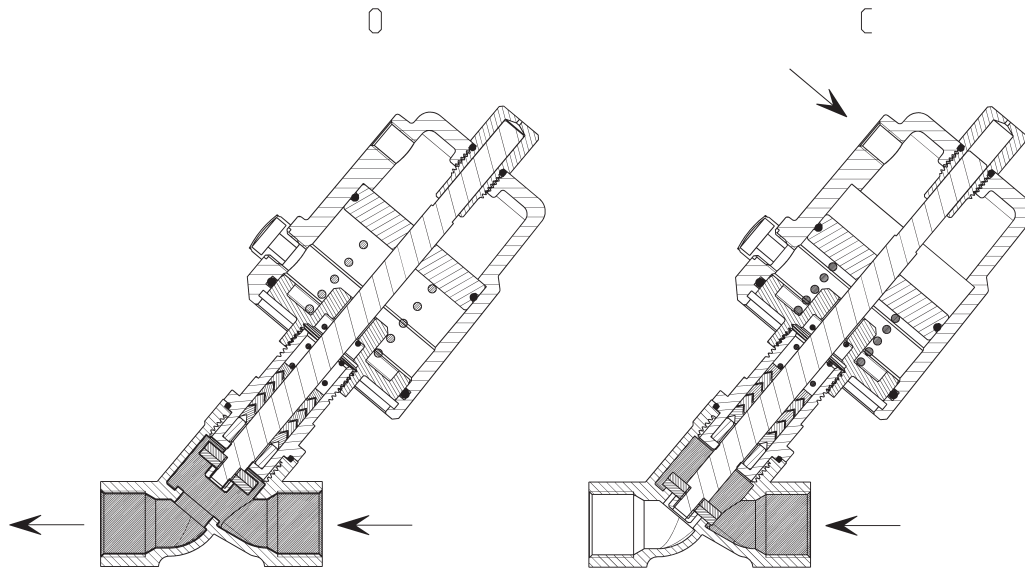


The valves with flow direction above the seat are suitable for compressible fluids.

NOTE TO THE TABLE:
The indicated models are suitable for operating temperatures from -10 to +180 °C. For higher temperatures, please see the CODING EXAMPLE.
* to complete the code add BODY CONNECTION.



DRAWING LEGEND:
C = valve in closed position
O = valve in open position



| Mod. | Function | DN | Ports | Orifice Ø (mm) | Kv (m³/h) | Differential pressure min ÷ max (bar) | Pilot pressure min ÷ max (bar) | Actuator Ø (mm) | Actuator material |
|-------------------|----------|----|--------|----------------|-----------|---------------------------------------|--------------------------------|-----------------|-------------------|
| ASX20-Y008*-04012 | 2/2 NO | 8 | 1/4" | 13 | 2.2 | 0 ÷ 16 | ≥ 3 | 40 | SS 304 |
| ASX20-Y008*-05012 | 2/2 NO | 8 | 1/4" | 13 | 2.2 | 0 ÷ 16 | ≥ 3 | 50 | SS 304 |
| ASX20-Y010*-04012 | 2/2 NO | 10 | 3/8" | 13 | 3.9 | 0 ÷ 16 | ≥ 3 | 40 | SS 304 |
| ASX20-Y010*-05012 | 2/2 NO | 10 | 3/8" | 13 | 3.9 | 0 ÷ 16 | ≥ 3 | 50 | SS 304 |
| ASX20-Y015*-04012 | 2/2 NO | 15 | 1/2" | 13 | 4.3 | 0 ÷ 16 | ≥ 3 | 40 | SS 304 |
| ASX20-Y015*-05012 | 2/2 NO | 15 | 1/2" | 13 | 4.3 | 0 ÷ 16 | ≥ 3 | 50 | SS 304 |
| ASX20-Y020*-05012 | 2/2 NO | 20 | 3/4" | 18 | 7.6 | 0 ÷ 12 | ≥ 3 | 50 | SS 304 |
| ASX20-Y025*-05012 | 2/2 NO | 25 | 1" | 24 | 15.8 | 0 ÷ 3 | ≥ 3 | 50 | SS 304 |
| ASX20-Y025*-06312 | 2/2 NO | 25 | 1" | 24 | 15.8 | 0 ÷ 16 | ≥ 4.5 | 63 | SS 304 |
| ASX20-Y032*-06312 | 2/2 NO | 32 | 1 1/4" | 31 | 26 | 0 ÷ 14 | ≥ 4.5 | 63 | SS 304 |
| ASX20-Y040*-06312 | 2/2 NO | 40 | 1 1/2" | 35 | 32 | 0 ÷ 14 | ≥ 4.5 | 63 | SS 304 |
| ASX20-Y050*-06312 | 2/2 NO | 50 | 2" | 45 | 52 | 0 ÷ 6 | ≥ 4.5 | 63 | SS 304 |

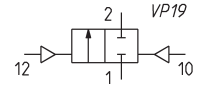
2/2- way DA angle seat valve – Pressure under the seat



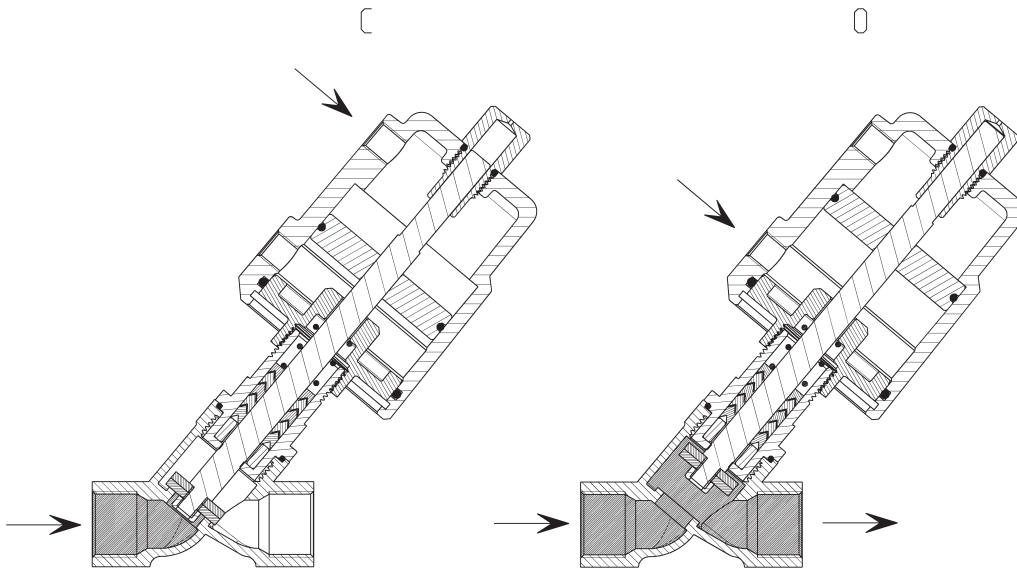
The valves with flow direction under the seat are suitable for incompressible fluids. This function prevents the hydraulic water hammer effect.

NOTE TO THE TABLE:

The indicated models are suitable for operating temperatures from -10 to +180 °C. For higher temperatures, please see the CODING EXAMPLE.
* to complete the code add BODY CONNECTION.



DRAWING LEGEND:
C = valve in closed position
O = valve in open position



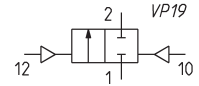
| Mod. | Function | DN | Ports | Orifice Ø (mm) | Kv (m³/h) | Differential pressure min ÷ max (bar) | Pilot pressure min ÷ max (bar) | Actuator Ø (mm) | Actuator material |
|--------------------------------|----------|-----|--------|----------------|-----------|---------------------------------------|--------------------------------|-----------------|-------------------|
| ASX23-W008 ² -04012 | 2/2 DE | 8 | 1/4" | 13 | 2.2 | 0 ÷ 16 | 3 ÷ 4 | 40 | SS 304 |
| ASX23-W008 ² -05012 | 2/2 DE | 8 | 1/4" | 13 | 2.2 | 0 ÷ 16 | 3 ÷ 4 | 50 | SS 304 |
| ASX23-W010 ² -04012 | 2/2 DE | 10 | 3/8" | 13 | 3.9 | 0 ÷ 16 | 3 ÷ 4 | 40 | SS 304 |
| ASX23-W010 ² -05012 | 2/2 DE | 10 | 3/8" | 13 | 3.9 | 0 ÷ 16 | 3 ÷ 4 | 50 | SS 304 |
| ASX23-W015 ² -04012 | 2/2 DE | 15 | 1/2" | 13 | 4.3 | 0 ÷ 16 | 3 ÷ 4 | 40 | SS 304 |
| ASX23-W015 ² -05012 | 2/2 DE | 15 | 1/2" | 13 | 4.3 | 0 ÷ 16 | 3 ÷ 4 | 50 | SS 304 |
| ASX23-W020 ² -05012 | 2/2 DE | 20 | 3/4" | 18 | 7.6 | 0 ÷ 16 | 3 ÷ 4 | 50 | SS 304 |
| ASX23-W025 ² -05012 | 2/2 DE | 25 | 1" | 24 | 15.8 | 0 ÷ 16 | 3 ÷ 6.5 | 50 | SS 304 |
| ASX23-W025 ² -06312 | 2/2 DE | 25 | 1" | 24 | 15.8 | 0 ÷ 16 | 3 ÷ 5.5 | 63 | SS 304 |
| ASX23-W032 ² -06312 | 2/2 DE | 32 | 1 1/4" | 31 | 26 | 0 ÷ 16 | 3 ÷ 7 | 63 | SS 304 |
| ASX23-W032 ² -09012 | 2/2 DE | 32 | 1 1/4" | 31 | 26 | 0 ÷ 16 | 3 ÷ 4.5 | 90 | SS 304 |
| ASX23-W040 ² -06312 | 2/2 DE | 40 | 1 1/2" | 35 | 32 | 0 ÷ 12 | 3 ÷ 7.5 | 63 | SS 304 |
| ASX23-W040 ² -09012 | 2/2 DE | 40 | 1 1/2" | 35 | 32 | 0 ÷ 16 | 3 ÷ 5 | 90 | SS 304 |
| ASX23-W050 ² -06312 | 2/2 DE | 50 | 2" | 45 | 52 | 0 ÷ 4 | 3 ÷ 7.5 | 63 | SS 304 |
| ASX23-W050 ² -09012 | 2/2 DE | 50 | 2" | 45 | 52 | 0 ÷ 16 | 3 ÷ 6 | 90 | SS 304 |
| ASX23-W050 ² -12582 | 2/2 DE | 50 | 2" | 45 | 52 | 0 ÷ 16 | 3 ÷ 4 | 125 | Aluminium |
| ASX23-W565 ² -09012 | 2/2 DE | 65 | 2 1/2" | 61 | 83.2 | 0 ÷ 10 | 3 ÷ 7.5 | 90 | SS 304 |
| ASX23-W565 ² -12582 | 2/2 DE | 65 | 2 1/2" | 61 | 83.2 | 0 ÷ 16 | 3 ÷ 6 | 125 | Aluminium |
| ASX23-W580 ² -12582 | 2/2 DE | 80 | 3" | 80 | 119 | 0 ÷ 10 | 3 ÷ 7 | 125 | Aluminium |
| ASX23-W100 ² -12582 | 2/2 DE | 100 | 4" | 90 | 132 | 0 ÷ 8 | 3 ÷ 7.5 | 125 | Aluminium |

2/2- way DA angle seat valve – Pressure above the seat

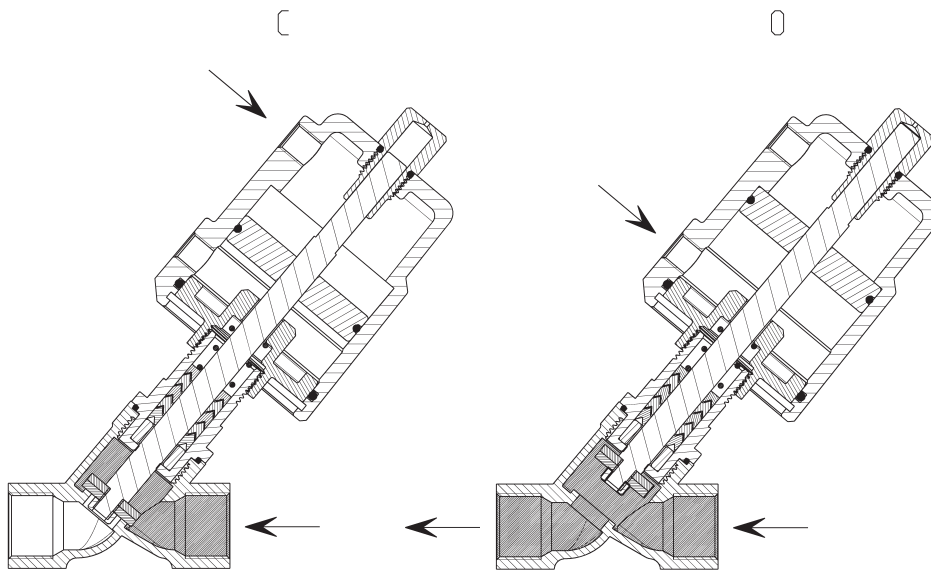


The valves with flow direction above the seat are suitable for compressible fluids.

NOTE TO THE TABLE:
The indicated models are suitable for operating temperatures from -10 to +180 °C. For higher temperatures, please see the CODING EXAMPLE.
* to complete the code add BODY CONNECTION.

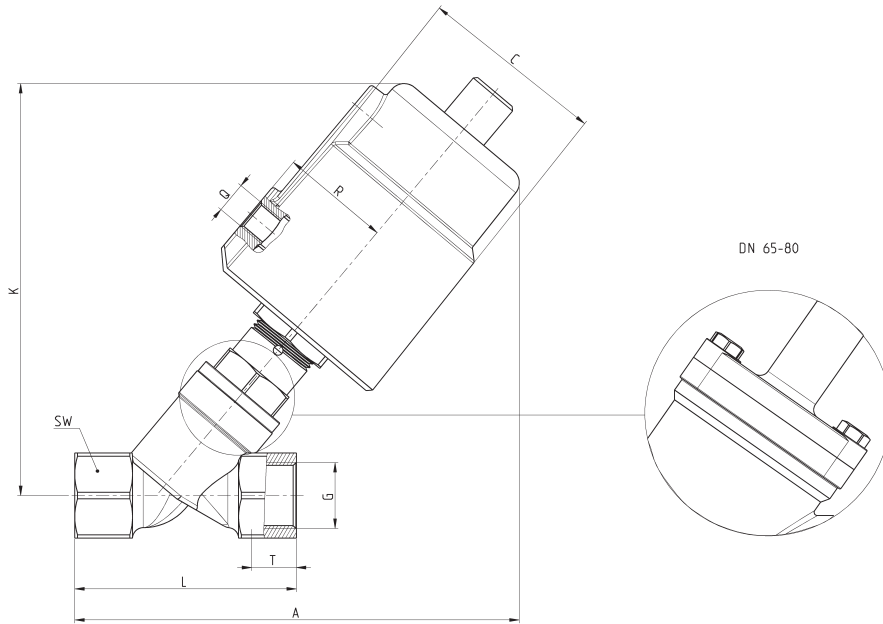


DRAWING LEGEND:
C = valve in closed position
O = valve in open position



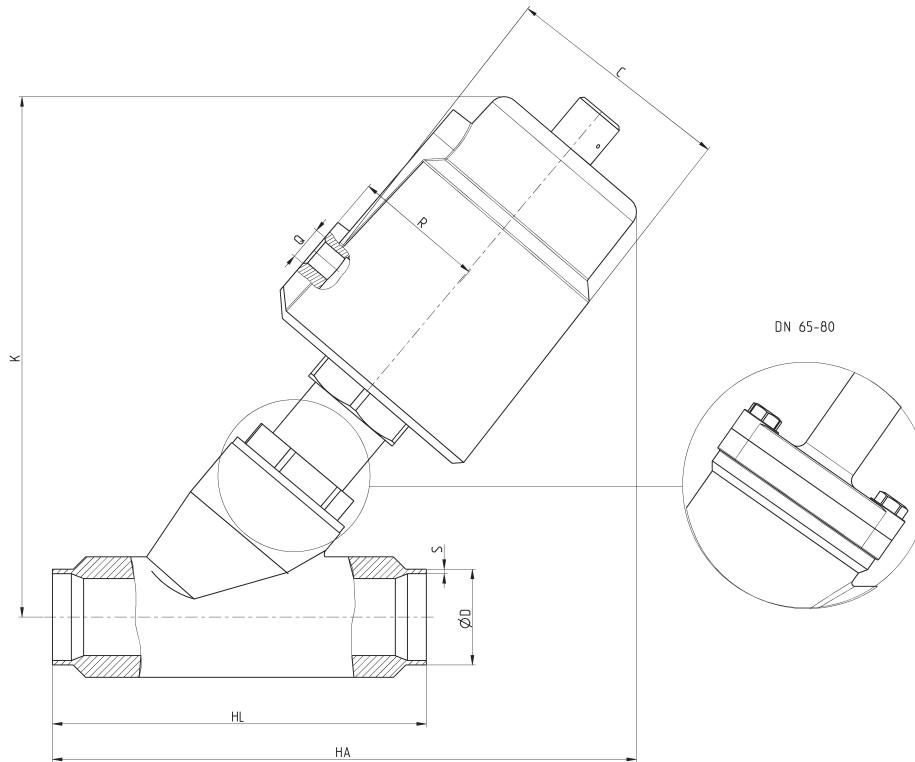
| Mod. | Function | DN | Ports | Orifice Ø (mm) | Kv (m³/h) | Differential pressure min ÷ max (bar) | Pilot pressure min ÷ max (bar) | Actuator Ø (mm) | Actuator material |
|-------------------|----------|----|--------|----------------|-----------|---------------------------------------|--------------------------------|-----------------|-------------------|
| ASX23-Y008*-04012 | 2/2 DE | 8 | 1/4" | 13 | 2.2 | 0 ÷ 16 | 3 ÷ 4.5 | 40 | SS 304 |
| ASX23-Y008*-05012 | 2/2 DE | 8 | 1/4" | 13 | 2.2 | 0 ÷ 16 | 3 ÷ 3.5 | 50 | SS 304 |
| ASX23-Y010*-04012 | 2/2 DE | 10 | 3/8" | 13 | 3.9 | 0 ÷ 16 | 3 ÷ 4.5 | 40 | SS 304 |
| ASX23-Y010*-05012 | 2/2 DE | 10 | 3/8" | 13 | 3.9 | 0 ÷ 16 | 3 ÷ 3.5 | 50 | SS 304 |
| ASX23-Y015*-04012 | 2/2 DE | 15 | 1/2" | 13 | 4.3 | 0 ÷ 16 | 3 ÷ 4.5 | 40 | SS 304 |
| ASX23-Y015*-05012 | 2/2 DE | 15 | 1/2" | 13 | 4.3 | 0 ÷ 16 | 3 ÷ 3.5 | 50 | SS 304 |
| ASX23-Y020*-05012 | 2/2 DE | 20 | 3/4" | 18 | 7.6 | 0 ÷ 16 | 3 ÷ 4 | 50 | SS 304 |
| ASX23-Y025*-05012 | 2/2 DE | 25 | 1" | 24 | 15.8 | 0 ÷ 16 | 3 ÷ 4.5 | 50 | SS 304 |
| ASX23-Y025*-06312 | 2/2 DE | 25 | 1" | 24 | 15.8 | 0 ÷ 16 | 3 ÷ 3.5 | 63 | SS 304 |
| ASX23-Y032*-06312 | 2/2 DE | 32 | 1 1/4" | 31 | 26 | 0 ÷ 16 | 3 ÷ 5.5 | 63 | SS 304 |
| ASX23-Y032*-09012 | 2/2 DE | 32 | 1 1/4" | 31 | 26 | 0 ÷ 16 | 3 ÷ 4 | 90 | SS 304 |
| ASX23-Y040*-06312 | 2/2 DE | 40 | 1 1/2" | 35 | 32 | 0 ÷ 16 | 3 ÷ 6.5 | 63 | SS 304 |
| ASX23-Y040*-09012 | 2/2 DE | 40 | 1 1/2" | 35 | 32 | 0 ÷ 16 | 3 ÷ 4 | 90 | SS 304 |
| ASX23-Y050*-06312 | 2/2 DE | 50 | 2" | 45 | 52 | 0 ÷ 10 | 3 ÷ 7 | 63 | SS 304 |
| ASX23-Y050*-09012 | 2/2 DE | 50 | 2" | 45 | 52 | 0 ÷ 16 | 3 ÷ 4.5 | 90 | SS 304 |
| ASX23-Y050*-12582 | 2/2 DE | 50 | 2" | 45 | 52 | 0 ÷ 16 | 3 ÷ 4 | 125 | Aluminium |
| ASX23-YS65*-09012 | 2/2 DE | 65 | 2 1/2" | 61 | 83.2 | 0 ÷ 10 | 3 ÷ 6 | 90 | SS 304 |
| ASX23-YS65*-12582 | 2/2 DE | 65 | 2 1/2" | 61 | 83.2 | 0 ÷ 16 | 3 ÷ 4 | 125 | Aluminium |
| ASX23-YS80*-12582 | 2/2 DE | 80 | 3" | 80 | 119 | 0 ÷ 12 | 3 ÷ 7 | 125 | Aluminium |

Dimensions - DIN ISO 228-1 BSP threaded version



| DN | Actuator Ø (mm) | G | T | A | L | SW | C | R | K | Q |
|----|-----------------|--------|----|-----|-----|-----|------|----|-----|------|
| 8 | 40 | 1/4" | 12 | 124 | 68 | 27 | 50.5 | 27 | 112 | 1/8" |
| 8 | 50 | 1/4" | 12 | 135 | 68 | 27 | 60 | 33 | 125 | 1/8" |
| 10 | 40 | 3/8" | 12 | 124 | 68 | 27 | 50.5 | 27 | 112 | 1/8" |
| 10 | 50 | 3/8" | 12 | 135 | 68 | 27 | 60 | 33 | 125 | 1/8" |
| 15 | 40 | 1/2" | 15 | 124 | 68 | 27 | 50.5 | 27 | 112 | 1/8" |
| 15 | 50 | 1/2" | 15 | 135 | 68 | 27 | 60 | 33 | 125 | 1/8" |
| 20 | 50 | 3/4" | 16 | 140 | 75 | 32 | 60 | 33 | 132 | 1/8" |
| 25 | 50 | 1" | 17 | 150 | 90 | 40 | 60 | 33 | 136 | 1/8" |
| 25 | 63 | 1" | 17 | 172 | 90 | 40 | 75 | 41 | 162 | 1/8" |
| 32 | 63 | 1 1/4" | 21 | 190 | 116 | 50 | 75 | 41 | 174 | 1/8" |
| 32 | 90 | 1 1/4" | 21 | 235 | 116 | 50 | 106 | 55 | 223 | 1/8" |
| 40 | 63 | 1 1/2" | 21 | 190 | 116 | 56 | 75 | 41 | 175 | 1/8" |
| 40 | 90 | 1 1/2" | 21 | 235 | 116 | 56 | 106 | 55 | 223 | 1/8" |
| 50 | 63 | 2" | 22 | 205 | 138 | 69 | 75 | 41 | 183 | 1/8" |
| 50 | 90 | 2" | 22 | 250 | 138 | 69 | 106 | 55 | 232 | 1/8" |
| 50 | 125 | 2" | 22 | 305 | 138 | 69 | 170 | 85 | 300 | 1/4" |
| 65 | 90 | 2 1/2" | 26 | 275 | 178 | 85 | 106 | 55 | 280 | 1/8" |
| 65 | 125 | 2 1/2" | 26 | 320 | 178 | 85 | 170 | 85 | 330 | 1/4" |
| 80 | 125 | 3" | 27 | 340 | 210 | 100 | 170 | 85 | 355 | 1/4" |

Dimensions - DIN 11850-2 and DIN 11850-3 welding ends version

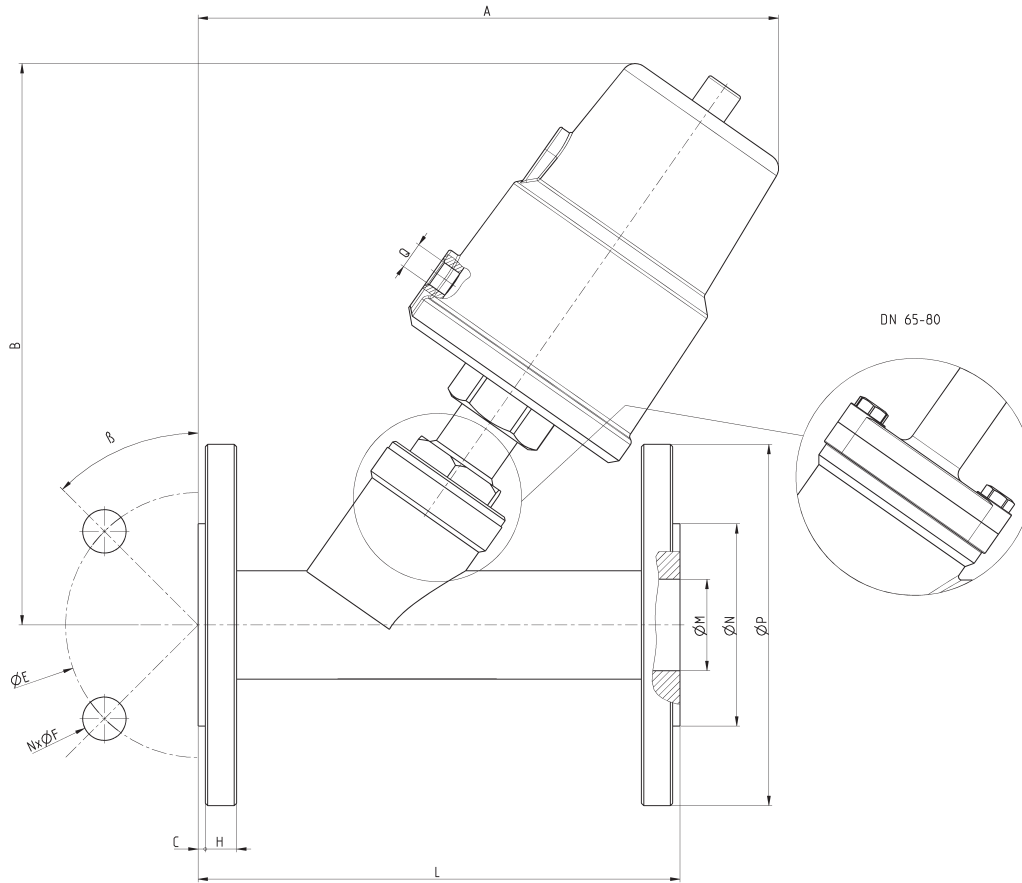


| DN | Actuator Ø (mm) | DIN11850-2 ØD | DIN11850-2 S | DIN11850-3 ØD | DIN11850-3 S | HA | HL | C | R | K | Q |
|----|-----------------|---------------|--------------|---------------|--------------|-----|-----|------|----|-----|------|
| 15 | 40 | 19 | 1.5 | 20 | 2 | 118 | 70 | 50.5 | 27 | 112 | 1/8" |
| 15 | 50 | 19 | 1.5 | 20 | 2 | 128 | 70 | 60 | 33 | 125 | 1/8" |
| 20 | 50 | 23 | 1.5 | 24 | 2 | 135 | 82 | 60 | 33 | 132 | 1/8" |
| 25 | 50 | 29 | 1.5 | 30 | 2 | 150 | 100 | 60 | 33 | 136 | 1/8" |
| 25 | 63 | 29 | 1.5 | 30 | 2 | 175 | 100 | 75 | 41 | 162 | 1/8" |
| 32 | 63 | 35 | 1.5 | 36 | 2 | 186 | 125 | 75 | 41 | 174 | 1/8" |
| 32 | 90 | 35 | 1.5 | 36 | 2 | 232 | 125 | 106 | 55 | 223 | 1/8" |
| 40 | 63 | 41 | 1.5 | 42 | 2 | 190 | 130 | 75 | 41 | 175 | 1/8" |
| 40 | 90 | 41 | 1.5 | 42 | 2 | 235 | 130 | 106 | 55 | 223 | 1/8" |
| 50 | 63 | 53 | 1.5 | 54 | 2 | 206 | 155 | 75 | 41 | 183 | 1/8" |
| 50 | 90 | 53 | 1.5 | 54 | 2 | 250 | 155 | 106 | 55 | 232 | 1/8" |
| 50 | 125 | 53 | 1.5 | 54 | 2 | 307 | 155 | 170 | 85 | 300 | 1/4" |
| 65 | 90 | 70 | 2 | - | - | 320 | 270 | 106 | 55 | 280 | 1/8" |
| 65 | 125 | 70 | 2 | - | - | 360 | 270 | 170 | 85 | 330 | 1/4" |
| 80 | 125 | 85 | 2 | - | - | 360 | 284 | 170 | 85 | 355 | 1/4" |

Dimensions - DIN 2543 flanged version

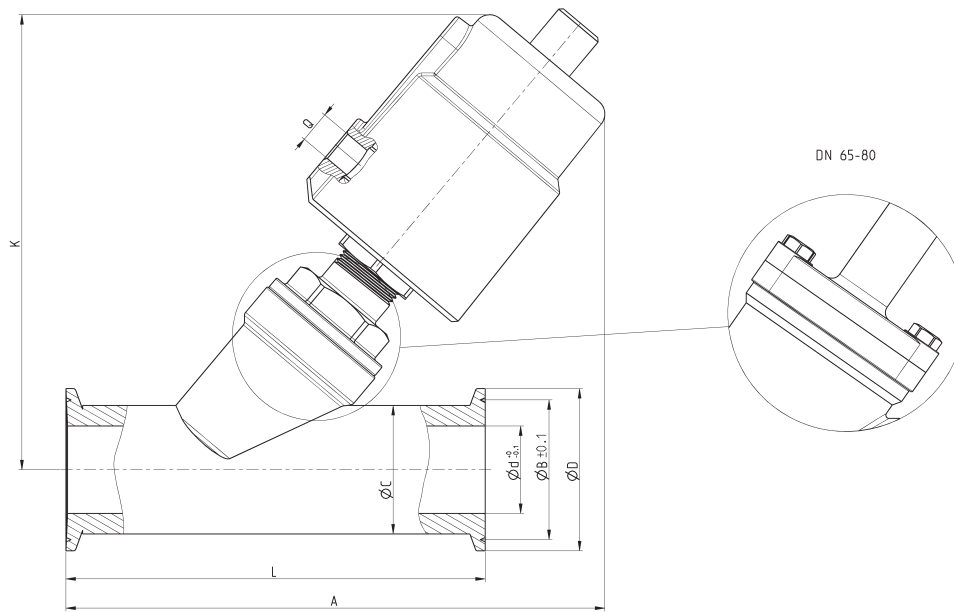


SERIES ASX ANGLE SEAT VALVES



| DN | Actuator Ø (mm) | ØM | ØN | ØP | ØE | NxØF | β | A | B | L | C | H | Q |
|-----|-----------------|----|-----|-----|-----|------|-------|-----|-----|-----|---|----|------|
| 15 | 40 | 16 | 45 | 95 | 65 | 4x14 | 45° | 135 | 125 | 130 | 2 | 14 | 1/8" |
| 15 | 50 | 16 | 45 | 95 | 65 | 4x14 | 45° | 145 | 140 | 130 | 2 | 14 | 1/8" |
| 20 | 50 | 19 | 56 | 105 | 75 | 4x14 | 45° | 165 | 140 | 150 | 2 | 14 | 1/8" |
| 25 | 50 | 26 | 65 | 115 | 85 | 4x14 | 45° | 170 | 145 | 160 | 2 | 14 | 1/8" |
| 25 | 63 | 26 | 65 | 115 | 85 | 4x14 | 45° | 190 | 175 | 160 | 2 | 14 | 1/8" |
| 32 | 63 | 31 | 78 | 140 | 100 | 4x18 | 45° | 190 | 188 | 180 | 2 | 16 | 1/8" |
| 32 | 90 | 31 | 78 | 140 | 100 | 4x18 | 45° | 230 | 235 | 180 | 2 | 16 | 1/8" |
| 40 | 63 | 38 | 84 | 150 | 110 | 4x18 | 45° | 206 | 190 | 200 | 3 | 16 | 1/8" |
| 40 | 90 | 38 | 84 | 150 | 110 | 4x18 | 45° | 250 | 240 | 200 | 3 | 16 | 1/8" |
| 50 | 63 | 49 | 100 | 165 | 125 | 4x18 | 45° | 235 | 195 | 230 | 3 | 16 | 1/8" |
| 50 | 90 | 49 | 100 | 165 | 125 | 4x18 | 45° | 277 | 245 | 230 | 3 | 16 | 1/8" |
| 50 | 125 | 49 | 100 | 165 | 125 | 4x18 | 45° | 330 | 310 | 230 | 3 | 16 | 1/4" |
| 65 | 90 | 66 | 120 | 185 | 145 | 4x18 | 45° | 330 | 280 | 290 | 3 | 18 | 1/8" |
| 65 | 125 | 66 | 120 | 185 | 145 | 4x18 | 45° | 375 | 330 | 290 | 3 | 18 | 1/4" |
| 80 | 125 | 78 | 135 | 200 | 160 | 8x18 | 22.5° | 380 | 355 | 310 | 3 | 20 | 1/4" |
| 100 | 125 | 96 | 155 | 215 | 180 | 8x18 | 22.5° | 420 | 395 | 350 | 3 | 20 | 1/4" |

Dimensions - ISO 2852 tri-clamp version

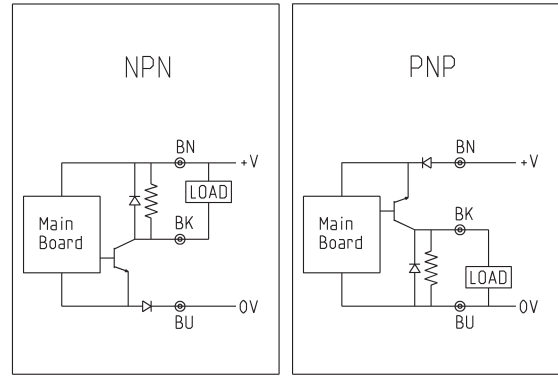


| DN | Actuator \varnothing (mm) | $\varnothing C$ | $\varnothing B$ | $\varnothing d$ | $\varnothing D$ | A | K | L | Q |
|----|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----|-----|-----|------|
| 15 | 40 | 19 | 27.5 | 15 | 34 | 130 | 115 | 80 | 1/8" |
| 15 | 50 | 19 | 27.5 | 15 | 34 | 140 | 126 | 80 | 1/8" |
| 20 | 50 | 25 | 43.5 | 19 | 50.5 | 158 | 148 | 130 | 1/8" |
| 25 | 50 | 32 | 43.5 | 27 | 50.5 | 165 | 140 | 130 | 1/8" |
| 25 | 63 | 32 | 43.5 | 27 | 50.5 | 188 | 166 | 130 | 1/8" |
| 32 | 63 | 37 | 43.5 | 31 | 50.5 | 200 | 174 | 146 | 1/8" |
| 32 | 90 | 37 | 43.5 | 31 | 50.5 | 245 | 223 | 146 | 1/8" |
| 40 | 63 | 40 | 56.5 | 33 | 64 | 210 | 175 | 160 | 1/8" |
| 40 | 90 | 40 | 56.5 | 33 | 64 | 255 | 223 | 160 | 1/8" |
| 50 | 63 | 53 | 56.5 | 45 | 64 | 221 | 185 | 175 | 1/8" |
| 50 | 90 | 53 | 56.5 | 45 | 64 | 265 | 235 | 175 | 1/8" |
| 50 | 125 | 53 | 56.5 | 45 | 64 | 325 | 296 | 175 | 1/4" |
| 65 | 90 | 75 | 83.5 | 66 | 91 | 325 | 280 | 278 | 1/8" |
| 65 | 125 | 75 | 83.5 | 66 | 91 | 360 | 330 | 278 | 1/4" |
| 80 | 125 | 89 | 97 | 78 | 106 | 360 | 352 | 290 | 1/4" |

Option - Proximity switch



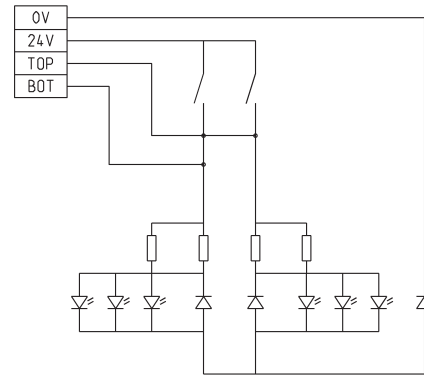
Available on all models of angle seat valves to control the state of the open valve.
 Type: NPN, NO or NC - PNP, NO or NC
 Power supply: 10 ÷ 30 V DC
 Switching distance: 3 mm ± 10%
 Operating temperature: -25 ÷ 70 °C
 Body material: nickel-plated brass
 Sensor material: ABS
 Protection class: IP67



Option - Position indicator



Available on all models of angle seat valves to control the state of the open and closed valve.
 Type of limit switch: mechanical micro-switch
 Operating voltage: 12 ÷ 36 V DC
 Operating current: 25 mA / 24 V DC
 Adjustment range: 5 ÷ 30 mm
 Operating temperature: -30 ÷ 80 °C
 Housing material: PA6/GF30 + PC
 Protection class: IP65



Option - Stroke limiter



Available on all models of angle seat valves to limit the actuator's stroke from 0 to 100% in order to adjust the maximum flow.