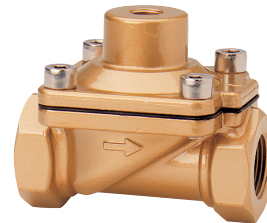


82160 2/2-way seat valves

- Port size: DN 8 ... 50, G1/4 ... 2 (ISO G)
- For fluids with high particle contamination
- Fluid isolated from valve actuator
- Optimised dimensions and weight
- Vacuum version as an option
- Compact valve for industrial applications
- International approvals



Technical features

Medium:
Neutral fluids with high particle contamination

Pilot fluid:
Air max. +60°C (+140°F)

Switching function:
Normally closed with pilot pressure

Operation:
Externally actuated seat valves

Type:
Pressure actuated seat valve with diaphragm actuator

Mounting position:
Optional

Flow direction:
Determined

Port size:
G1/4, G3/8, G1/2, G3/4, G1, G1 1/4, G1 1/2, G2

Pilot connection:
G1/4

Operating pressure:
0,2 ... 16 bar

Differential pressure:
0,2 bar required

Pilot pressure:
G1/4 ... 1/2
max. 6 bar higher than operating pressure
G3/4 ... 2
max. 1 bar higher than operating pressure

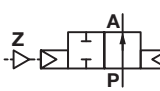
Fluid temperature:
–10 ... +90°C (+14 ... +194°F)

Ambient temperature:
–10 ... +60°C (+32 ... +140°F)

Viscosity:
Max. to 80 mm²/s

Material:
Body: Brass (CW617N)
Cover: Brass (2.0402)
Seat seals: NBR
Internal parts: Brass, Stainless steel
Main sealing element: Fabric reinforced NBR diaphragm with valve plate
Valve seat: Brass

Technical data – standard models

Symbol	Port size	Orifice	Pilot connection	Flow kv value *1)	Operating pressure *2)		Weight	Model
		(mm)			(bar)	(psi)		
	G1/4	8	G1/4	1,7	0,2 ... 16	2,9 ... 232	0,5	8216000.0000.00000
	G3/8	10	G1/4	3,4	0,2 ... 16	2,9 ... 232	0,45	8216100.0000.00000
	G1/2	12	G1/4	4	0,2 ... 16	2,9 ... 232	0,4	8216200.0000.00000
	G3/4	20	G1/4	11	0,2 ... 16	2,9 ... 232	1,15	8216300.0000.00000
	G1	25	G1/4	13	0,2 ... 16	2,9 ... 232	1	8216400.0000.00000
	G1 1/4	32	G1/4	28	0,2 ... 16	2,9 ... 232	2,35	8216500.0000.00000
	G1 1/2	40	G1/4	31	0,2 ... 16	2,9 ... 232	2,1	8216600.0000.00000
	G2	50	G1/4	46	0,2 ... 16	2,9 ... 232	3,35	8216700.0000.00000

*1) Cv-value (US) ≈ kv value x 1,2

*2) For gases and liquid fluids up to 80 mm²/s (cSt)

Option selector

82★6★★★.0000.00000

Thread form	Substitute
ISO G	0
Port size	Substitute
1/4	0
3/8	1
1/2	2
3/4	3
1	4
1 1/4	5
1 1/2	6
2	7

Valve options	Substitute
Fabric diaphragm FPM with valve plate T _{max} +110°C Operating pressure 0,2 ... 16 bar Control pressure = Operating pressure G1/4 ... 1/2: max. control pressure 6 bar over operating pressure but max. control pressure 16 bar G3/4 ... 2: max. control pressure 1 bar over operating pressure but max. control pressure 16 bar	03
Fabric diaphragm NBR with valve plate T _{max} +90°C Operating pressure 0,2 ... 16 bar Control pressure = Operating pressure G3/4 ... 2: max. control pressure 6 bar over operating pressure but max. control pressure 16 bar	51
Fabric diaphragm FPM with valve plate T _{max} +110°C Operating pressure 0,2 ... 16 bar Control pressure = Operating pressure G3/4 ... 2: max. control pressure 6 bar over operating pressure but max. control pressure 16 bar	52
Suitable for vacuum with pressure spring under diaphragm, FPM-fabric diaphragm T _{max} +110°C Operating pressure -0,9 ... 16 bar Control pressure 2 ... 16 bar max. control pressure 6 bar over operating pressure	53
Suitable for vacuum with pressure spring under diaphragm, NBR-fabric diaphragm T _{max} +90°C Operating pressure -0,9 ... 16 bar Control pressure 2 ... 16 bar max. control pressure 6 bar over operating pressure	54

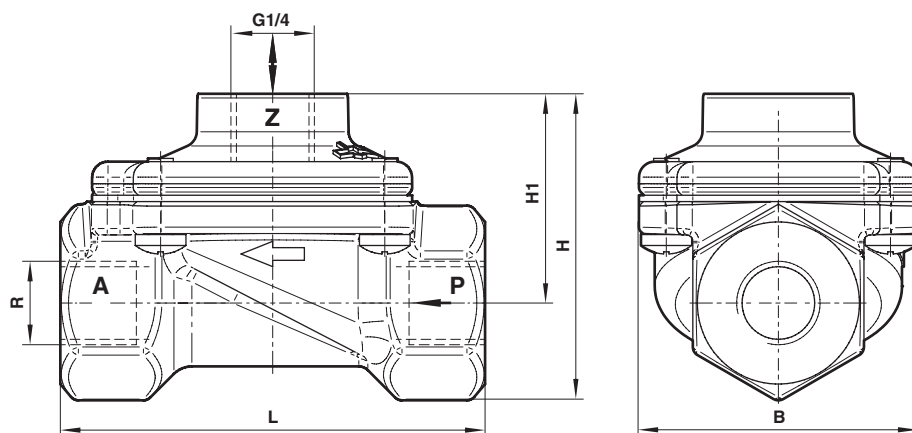
Further options on request!

Dimensions

G1/4 ... 2

Dimensions in mm

Projection/first angle



Port size R	B *3)	H	H1	L	Model
G1/4	44	48	33	67	8216000.0000.00000
G3/8	44	48	33	67	8216100.0000.00000
G1/2	44	48	33	67	8216200.0000.00000
G3/4	70	81	57	95	8216300.0000.00000
G1	70	81	57	95	8216400.0000.00000
G 1 1/4	96	103	70	132	8216500.0000.00000
G1 1/2	96	103	70	132	8216600.0000.00000
G2	112	121	81	160	8216700.0000.00000

*3) max. depth

Note to Pressure Equipment Directive (PED):

The valves of this series up to and including DN 25 (G1) are according to Art. 4 § 3 of the Pressure Equipment Directive (PED) 2014/68/EU. This means interpretation and production are in accordance to engineers practice wellknown in the member countries. A certificate of conformity is not designated.

For valves > DN 25 (G1) Art. 4 § (1) Letter d) applies:

The basic requirements of the Enclosure I of the PED must be fulfilled. The CE-sign at the valve refers to the PED. A certificate of conformity of this directive will be available on request.