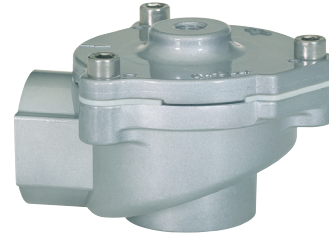


82900/82910

2/2-way diaphragm valves

- Port size: DN 20 ... 80,
G3/4 ... 3 (ISO G/NPT)
- High flow rate
- Clear, compact design
- One-piece diaphragm
- Easy to maintain



Technical features

Medium:
Air

Switching function:
Normally closed

Operation:
Remote pilot operated

Flow direction:
Determined

Mounting position:
Optional

Port size:
G3/4, G1, G1 1/2, G2, G2 1/2, G3,
3/4 NPT, 1 NPT, 1 1/2 NPT, 2 NPT,
2 1/2 NPT

Operating pressure:
0,4 ... 8 bar (5,8 ... 101,5 psi)

Pilot connection:
G1/8 or 1/8 NPT

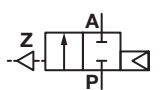
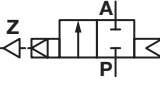
Dusty gas temperature:
–40 ... +85°C (–40 ... +185°F)

Ambient temperature:
–20 ... +85°C (–4 ... +185°F)

Cleaning gas temperature:
–40 ... +85°C (–40 ... +185°F)

Material:
Body: Aluminium
Seat seal: TPE

Technical data – standard models

Symbol	Port size	Orifice	Valve length	Flow kv value *1)	Operating pressure		Weight	Model
		(mm)			(bar)	(psi)		
	G3/4	20	95	18	0,4 ... 8	5,8 ... 101,5	0,32	8290300.0000.00000
	3/4 NPT	20	95	18	0,4 ... 8	5,8 ... 101,5	0,32	8291300.0000.00000
	G1	25	95	22	0,4 ... 8	5,8 ... 101,5	0,29	8290400.0000.00000
	1 NPT	25	95	22	0,4 ... 8	5,8 ... 101,5	0,29	8291400.0000.00000
	G1 1/2	40	135	59	0,4 ... 8	5,8 ... 101,5	0,97	8290600.0000.00000
	1 1/2 NPT	40	135	59	0,4 ... 8	5,8 ... 101,5	0,97	8291600.0000.00000
	G2	50	170	80	0,4 ... 8	5,8 ... 101,5	1,79	8290700.0000.00000
	2 NPT	50	170	80	0,4 ... 8	5,8 ... 101,5	1,79	8291700.0000.00000
	G2 1/2	65	170	93	0,4 ... 8	5,8 ... 101,5	2,07	8290800.0000.00000
	2 1/2 NPT	65	170	93	0,4 ... 8	5,8 ... 101,5	2,07	8291800.0000.00000
	G3	80	239,5	144	0,4 ... 8	5,8 ... 101,5	3,7	8290900.0000.00000

*1) Cv-value (US) ≈ kv value x 1,2

Option selector

Thread form	Substitute
ISO G	0
NPT	1
Port size	Substitute
3/4	3
1	4
1 1/2	6
2	7
2 1/2	8
3 (only ISO G)	9

829***.0000.00000

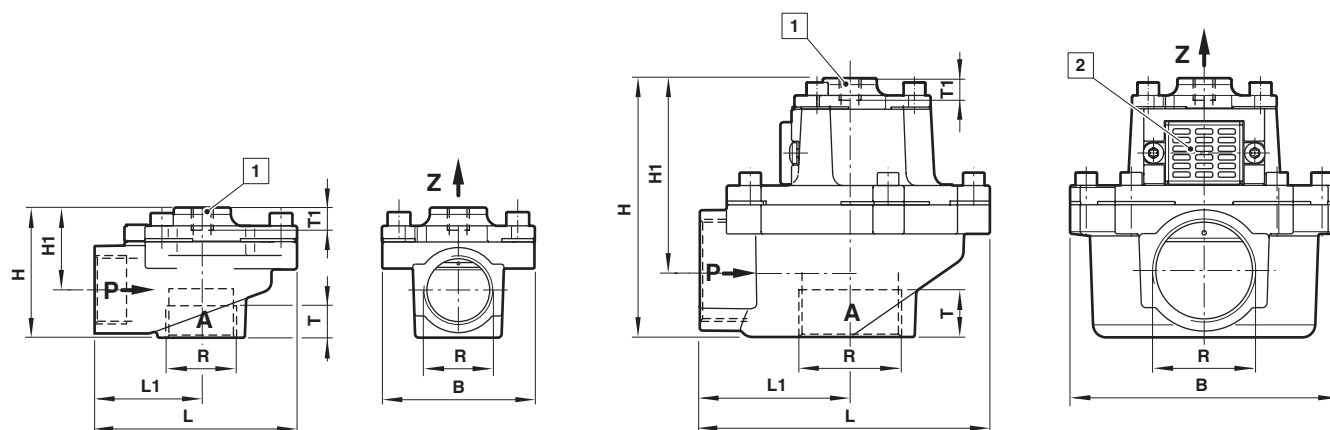
Valve options	Substitute
The resource materials and surfaces are free of silicone	33
Flange version without valve body	54
Dusty gas temperature version -40 ... +100°C (-40 ... +212°F), Seat seal TPE, Ambient temperature -20 ... +85°C (-4 ... +185°F), Cleaning gas temperature -40 ... +85°C (-40 ... +185°F)	62
Dusty gas temperature version -40 ... +140°C (-40 ... +284°F), Seat seal TPE, Ambient temperature -20 ... +85°C (-4 ... +185°F), Cleaning gas temperature -40 ... +85°C (-40 ... +185°F)	63
WEMA-Kor coated	66
Low pressure, 0,1 ... 0,9 bar (1,45 ... 13 psi); Reduced bleed orifice diameter	68
Low temperature version -40...+85°C (-40 ... +185°F), Seat seal TPE, Ambient temperature -40...+85°C (-40 ... +185°F), Cleaning gas temperature -40...+85°C (-40 ... +185°F)	71

Dimensions

G3/4 ... 1
3/4 ... 1 NPT

G1 1/2 ... 3
1 1/2 ... 2 1/2 NPT

Dimensions in mm
Projection/first angle



- 1 Pilot connection
G1/8 resp. 1/8 NPT
- 2 Silencer

Port size R	B	H	H1	L	L1	T	T1	Model
G3/4	80	61,5	39	95	50	16	10	8290300.0000.00000
3/4 NPT	80	61,5	39	95	50	14	10	8291300.0000.00000
G1	80	61,5	39	95	50	18	10	8290400.0000.00000
1 NPT	80	61,5	39	95	50	17	10	8291400.0000.00000
G1 1/2	124,5	122	91	135	70	22	10	8290600.0000.00000
1 1/2 NPT	124,5	122	91	135	70	18	10	8291600.0000.00000
G2	140	145	104	170	95	25	10	8290700.0000.00000
2 NPT	140	145	104	170	95	18	10	8291700.0000.00000
G2 1/2	140	160	115	170	95	25	10	8290800.0000.00000
2 1/2 NPT	140	160	115	170	95	24	10	8291800.0000.00000
G3	196	176	123,5	239,5	143	33	10	8290900.0000.00000

Note to Pressure Equipment Directive (PED):

The valves of this series 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 well-known in the member countries.

A certificate of conformity is not designated.