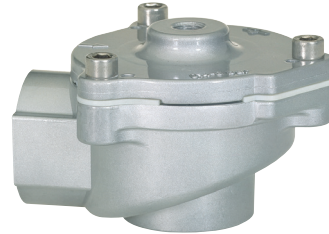


# 82900/82910

## 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 ... 7/8 bar  
(5,8 ... 101,5/116 psi)

**Pilot connection:**

G1/8 or 1/8 NPT

**Dusty gas temperature:**

-20 ... +85°C (-4 ... +185°F)

**Cleaning gas temperature:**

-40 ... +85°C (-40 ... +185°F)

**Ambient temperature:**

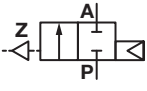
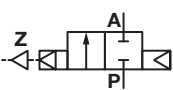
-20 ... +85°C (-4 ... +185°F)

**Material:**

Body: Aluminium

Seat seal: TPE

### Technical data – standard models

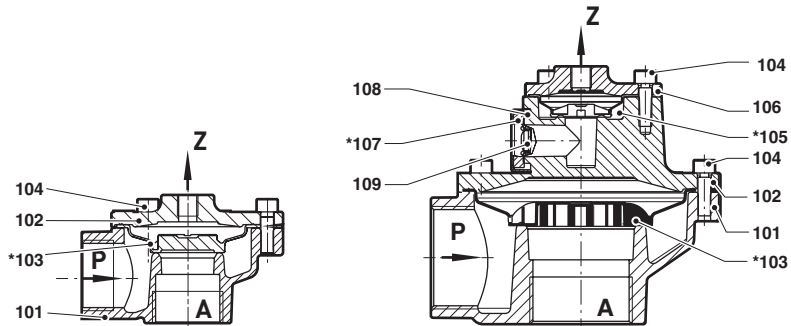
Symbol	Port size	Orifice	Valve length	Flow kv value	Operating pressure		Weight	Model
		(mm)	(mm)	(m <sup>3</sup> /h)	(bar)	(psi)		
	G3/4	20	95	18	0,4 ... 8	5,8 ... 101,5	0,32	8290300.0000.00000
	3/4 NPT	20	95	18	0,4 ... 8	5,8 ... 101,5	0,32	8291300.0000.00000
	G1	25	95	22	0,4 ... 8	5,8 ... 101,5	0,29	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 ... 7	5,8 ... 116	3,7	8290900.0000.00000

\*1) Cv-value (US) = kv value x 1,2

**Option selector**
**829\*\*\*\*.0000.00000**

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

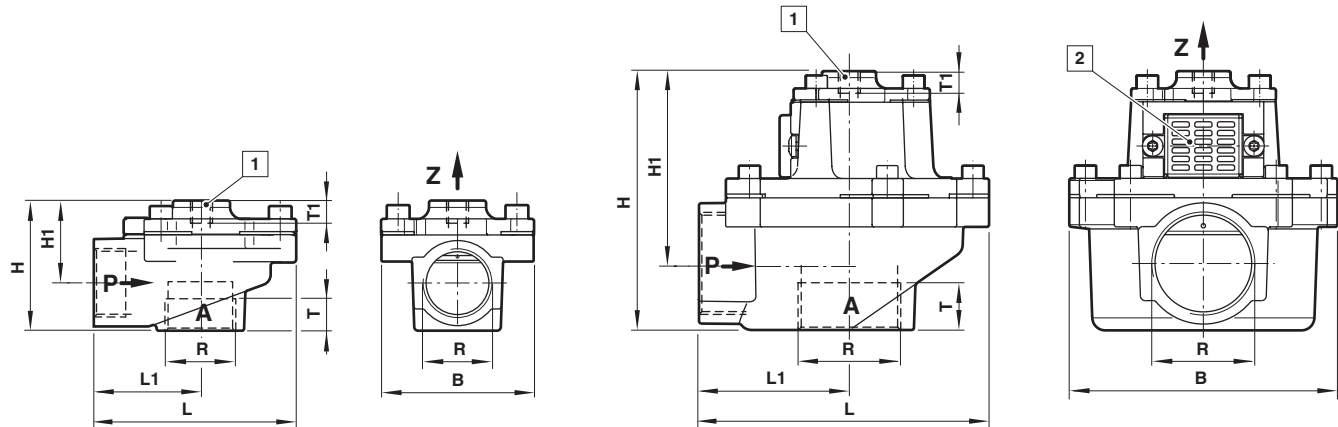
Valve options	Substitute
The resource materials and surfaces are free of silicone	<b>33</b>
Flange version without valve body	<b>54</b>
Dusty gas temperature version -20 ... +100°C (-4 ... +212°F), Seat seal TPE, Ambient temperature -40 ... +85°C (-40 ... +185°F), Cleaning gas temperature -20 ... +85°C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

**Section View**
**G3/4 ... 1**
**1 1/2 ... 2 1/2 NPT**



No.	Description
101	Valve body
102	Valve cover
*103	Diaphragm
104	Socket head cap screw
*105	Diaphragm
106	Valve cover
*107	Silencer
108	Silencer housing
109	Socket head cap screw

\* These individual parts form a complete wearing unit.  
 When ordering spare parts please state Model No. and Series No.

**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		T	Typ	
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.