

# 82710/82750

## 2/2-way diaphragm valves

- > **Port size:**  
DN 8 ... 12, 1/4 ... 1/2  
(ISO G/NPT)
- > **Spindle seal with diaphragm**
- > **Suitable for contaminated process fluids**
- > **Optical position indicator is standard**
- > **International approvals**



### Technical features

**Medium:**  
Neutral gases and liquids

**Pilot fluid:**  
Air, water, hydraulic oil  
max. +90°C (+194°F)

**Switching function:**  
Normally closed

**Operation:**  
Pressure actuated by external fluid

**Mounting position:**  
Optional

**Flow direction:**  
Optional

**Port size:**  
G1/4, G3/8, G1/2, 1/4 NPT,  
3/8 NPT, 1/2 NPT

**Pilot connection:**  
G1/8 res. 1/8 NPT

**Operating pressure:**  
-0,9 ... 6 bar (-13,05 ... 87 psi)

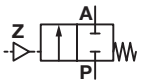
**Differential pressure:**  
3 ... 8 bar (43,5 ... 116 psi)

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

**Ambient temperature:**  
-10° ... +50°C (+14° ... +122°F)

**Material:**  
Process fluid characteristics:  
Body: Brass  
Seat seal: Fabric reinforced NBR diaphragm  
Pilot fluid characteristics:  
Body: Brass, PPO (cover)  
Seat seal: Fabric reinforced NBR diaphragm

### Technical data – standard models

Symbol	Port size	Orifice	Flow kv value *1)	Operating pressure *2)		Differential pressure *3)	Weight	Model
		(mm)	(m <sup>3</sup> /h)	(bar)	(psi)			
	G1/4	8	1,9	-0,9 ... 6	-13 ... 87	3 ... 8	0,75	8271000.0000.00000
	1/4 NPT	8	1,9	-0,9 ... 6	-13 ... 87	3 ... 8	0,75	8275000.0000.00000
	G3/8	10	2,4	-0,9 ... 6	-13 ... 87	3 ... 8	0,72	8271100.0000.00000
	3/8 NPT	10	2,4	-0,9 ... 6	-13 ... 87	3 ... 8	0,72	8275100.0000.00000
	G1/2	12	2,9	-0,9 ... 6	-13 ... 87	3 ... 8	0,7	8271200.0000.00000
	1/2 NPT	12	2,9	-0,9 ... 6	-13 ... 87	3 ... 8	0,7	8275200.0000.00000

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

\*2) For gases and liquid fluids up to 80 mm<sup>2</sup>/s (cSt)

\*3) For vacuum inset min. pilot pressure 4 bar

Note: Stainless steel design for number 50, 51, 52

**Option selector**

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

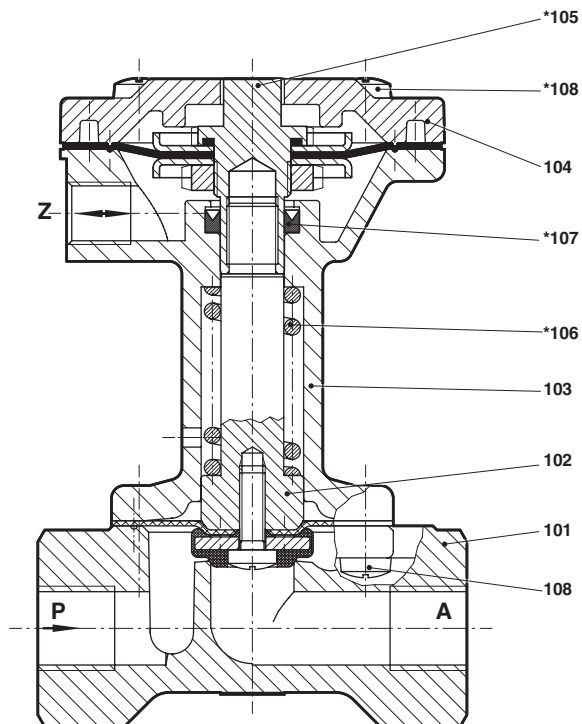
**827\*\*\*\*\*.0000.00000**

Valve options	Substitute
Normally open (NO)	<b>01</b>
Seat seal FPM, FPM-fabric-diaphragm, Fluid temperature +110°C	<b>03</b>
Seat seal EPDM, EPDM-fabric-diaphragm	<b>14</b>
Only for connection G3/8 and G1/2: Body: Stainless steel (1.4581) Internal parts: Stainless steel (1.4301), Sandvik 1802	<b>50</b>
Only for connection G3/8 and G1/2: Seat seal FPM, FPM-fabric-diaphragm Body: Stainless steel (1.4581) Internal parts: Stainless steel (1.4301), Sandvik 1802 Fluid temperature +110°C (+230°F)	<b>51</b>
Seat seal FPM, separating diaphragm PTFE-foil with FPM-diaphragm, Body: Stainless steel (1.4581) Internal parts with contact to fluids: Stainless steel (1.4571 and A4) Fluid temperature +110°C (+230°F)	<b>52</b>

**Note:**

A 3/2 way solenoid pilot valve can be fitted at the pilot connection Z.  
These pilot valves are only for air, look at documentation N/en 5.8.640.

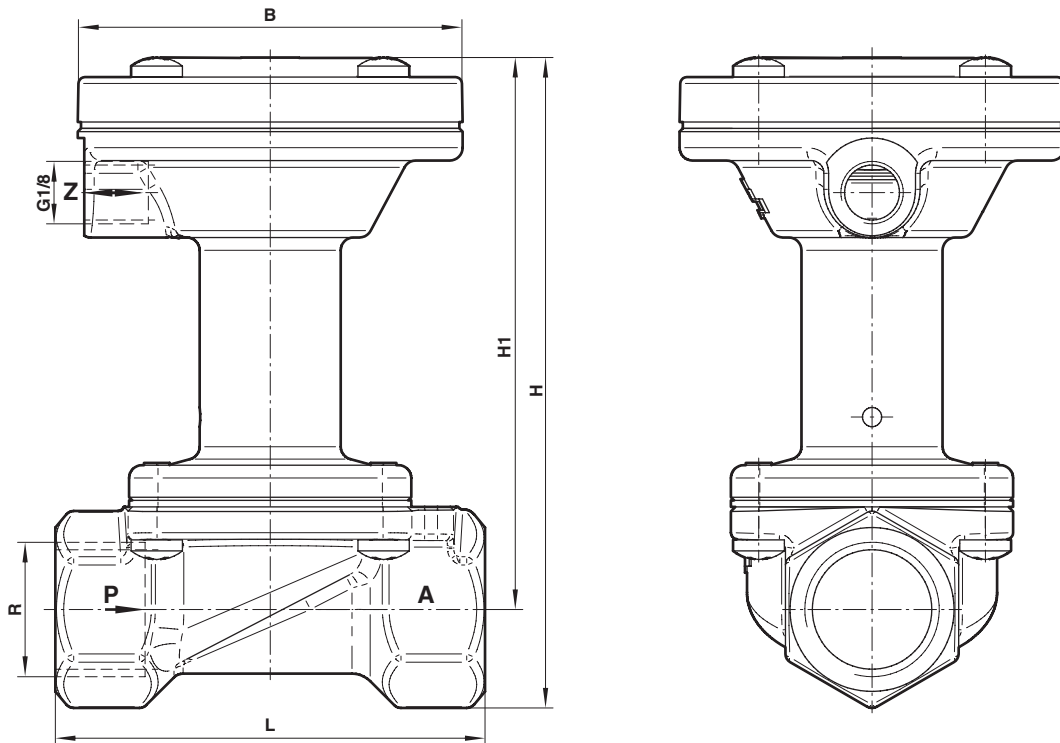
Required parts	Model
3/2-way solenoid valve DN 1,6	8466053.910x.xxxxx

**Section View**
**G1/4 ... 1/2**  
**1/4 ... 1/2 NPT**


No.	Description
101	Valve body
102	Valve plate
103	Actuator housing
104	Actuator housing cover
*105	Diaphragm
*106	Pressure spring
*107	Grooved ring
*108	Oval head cap screw

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

**Dimensions**
**G1/4 ... 1/2**  
**1/4 ... 1/2 NPT**

 Dimensions in mm  
 Projection/First angle


Port size R	B	H	H1	L	Model
G1/4	60	101	86	67	8271000.0000.00000
1/4 NPT	60	101	86	67	8275000.0000.00000
G3/8	60	101	86	67	8271100.0000.00000
3/8 NPT	60	101	86	67	8275100.0000.00000
G1/2	60	101	86	67	8271200.0000.00000
1/2 NPT	60	101	86	67	8275200.0000.00000

**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.