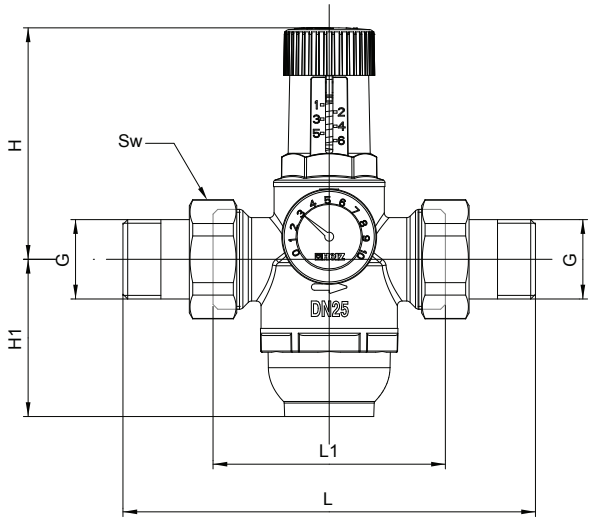
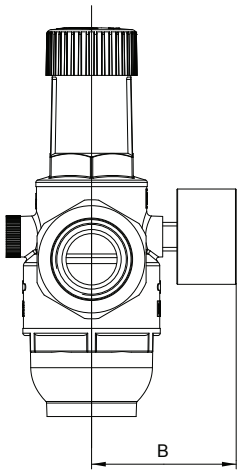
Diaphragm Pressure Reducing Valve

Data sheet for 2682, Issue 0916

Dimensions in mm





Model	Cap	Dimension	PN	DN	G	L [mm]	L1 [mm]	B [mm]	H [mm]	H1 [mm]	Sw
1 **2682** 11	plastic	1/2"	16	15	1/2"	147	84	67	98	66	30
1 **2682** 12	plastic	3/4"	16	20	3/4"	155	84	67	98	66	37
1 **2682** 13	plastic	1"	16	25	1"	185	98	67	98	66	46
1 **2682** 14	plastic	1-1/4"	16	32	1-1/4"	204	120	78	156	100	52
1 **2682** 15	plastic	1-1/2"	16	40	1-1/2"	224	122	78	156	100	60
1 **2682** 16	plastic	2"	16	50	2"	252	136	78	156	100	75
1 **2682** 21	brass	1/2"	16	15	1/2"	147	84	67	98	66	30
1 **2682** 22	brass	3/4"	16	20	3/4"	155	84	67	98	66	37
1 **2682** 23	brass	1"	16	25	1"	185	98	67	98	66	46

Construction

Body:	forged brass acc. to EN 12165; CW626N
Upper part:	PA6.6
Diaphragm:	EPDM
Spring:	spring steel
Spring guide:	stainless steel
Sealing:	EPDM
Round handle:	PA 6.6, green
Filter:	stainless steel
Bottom cover:	PA12, transparent (for articles 1 **2682** 1X)
Bottom cover:	Brass CW626N (for articles 1 **2682** 2X)

Specifications

Maximum inlet pressure:	16 bar
Outlet pressure range:	1-6 bar
Factory settings:	3 bar
Maximum temperature:	40°C (for articles 1 **2682** 1X)
Maximum temperature:	70°C (for articles 1 **2682** 2X)
Manometer scale:	0-10 bar
Mesh perforatio:	0.3mm
Medium:	water
Standard:	EN 1567
Pressure gauge connectors:	1/4" F (ISO 228-1)
Connectors:	external thread acc. to ISO 7-1 and ISO228

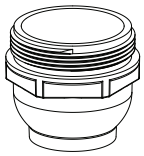
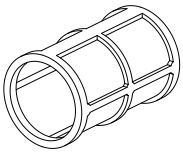
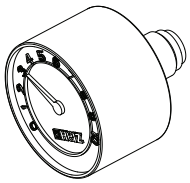
Assembly

Before assembling rinse the system well. In potable water installations the pressure reducing valve is mounted behind the water meter. Install the pressure reducer in a horizontal position with the filter facing down. Take care of the flow direction, indicated on the housing. Proper operation requires a straight piece of at least 5x DN pipe before and after the pressure reducer. The attached manometer (can be mounted on both sides of the pressure reducer). Before and after the pressure reducer, it is necessary to install a closing valve.

Application and maintenance

The pressure reducing valve protects installations against over pressure (reduces input pressure to a working level). It can also be used in heating systems to protect boiler against increased pressure. The outlet pressure is adjustable and does not vary with changes of the inlet pressure. The outlet pressure can be adjusted by turning the green handle. Turning the handle clockwise increases the outlet pressure. Turning above the stated values on the pressure reducer scale may damage the valve. We recommend the max. outlet pressure of 4 bar for private house installations (product long life, costs,...). After each new setting of the outlet pressure, the regulated pipe has to be opened and closed. We recommend maintenance by authorized installers according to DIN 1988. Check the filter condition in the regulator several times a year and, if it is necessary, clean or replace it with a new one. Tool for maintenance is included in every box of pressure reducer.

Spare Parts

Illustration	Description	Item number
	Tool for maintenance	1 **2682** 27
	plastic cover	1 **2682** 30 (DN15-DN25) 1 **2682** 31 (DN32-DN50)
	brass cover	1 **2682** 32 (DN15-DN25) 1 **2682** 33 (DN32-DN50)
	Filter	1 **2682** 28 (DN15-DN25) 1 **2682** 29 (DN32-DN50)
	Manometer	1 **2682** 34

Nominal flow rates standard EN 1567

Size	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50
Flow rate [m3/h]	1,27	2,27	3,6	5,8	9,1	14
Flow rate [l/min]	21,16	37,83	60	96,66	151,66	233,33

Pressure drop diagram