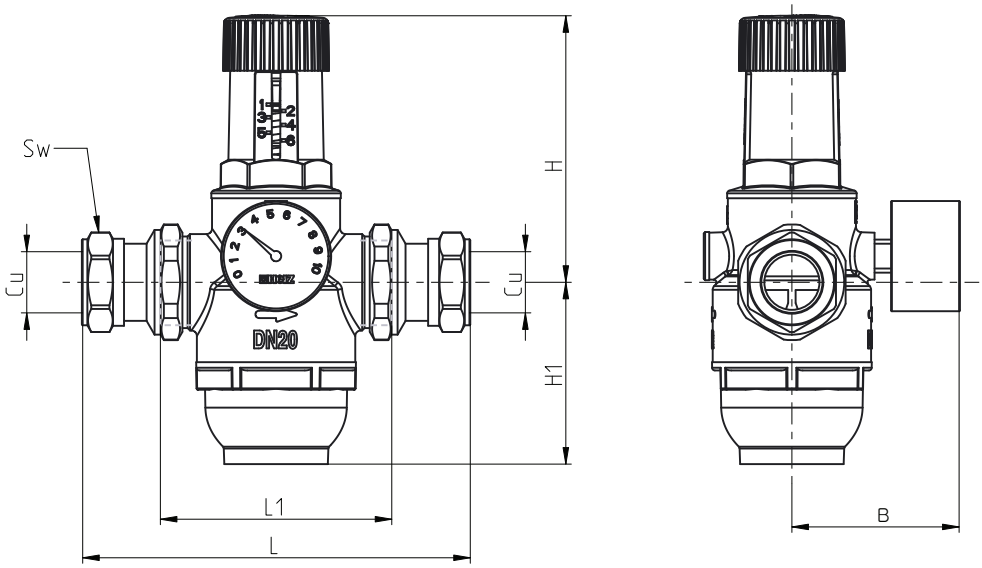
HERZ - Diaphragm Pressure Reducing Valve

with CU connections

Data sheet **1 2682 4X**, Issue 0918

Dimensions



Model	Filter Cap	Dimension	PN [bar]	DN	Cu [mm]	L [mm]	L1 [mm]	B [mm]	H [mm]	H1 [mm]	Sw [mm]
1 **2682** 41	plastic	1/2"	16	15	15	133	84	61	98	66	30
1 **2682** 42	plastic	3/4"	16	20	22	141	84	61	98	66	39

Construction

Body:	**(DN 15-20)** 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

Specifications

Manometer scale:	0-10 bar
Mesh perforatio:	0.3mm
Medium:	water
Maximum inlet pressure:	16 bar
Outlet pressure range:	1.75-6 bar
Factory setting:	3 bar
Maximum temperature:	40°C
Standard:	EN 1567
Pressure gauge connectors:	1/4" F (ISO 228-1)
Connectors on body:	external thread acc. to ISO228
Connectors on adapter:	Cu15, Cu22

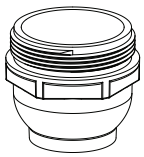
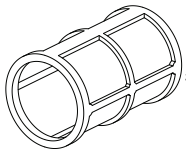
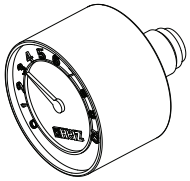
Assembly

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 an isolating valve. Pressure regulator must be installed without any mechanical tensions in the pipeline, leaving enough space to check manometer and maintenance. In case of installing pressure regulator exposed to UV light or solvent vapours we recommend use brass filter cap.

Application and maintenance

The pressure reducing valve protects drinking water installations against over pressure (reduces input pressure to a working level). 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
	brass cover	1 **2682** 32
	Filter	1 **2682** 28
	Manometer	1 **2682** 34

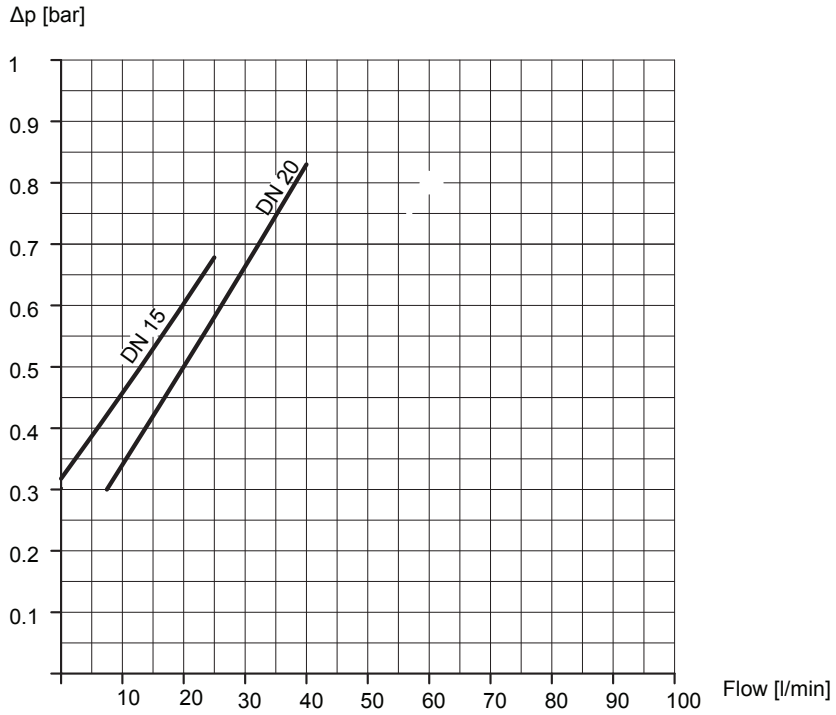
Nominal flow rates standard EN 1567

Size	DN 15	DN 20
Flow rate [m3/h]	1,27	2,27
Flow rate [l/min]	21,16	37,83

Trouble-shooting:

Problem	**Description**	**Solution**
Increased downstream pressure	This problem is due to heating of the water caused by the water heater	-install an expansion tank
Frozen	Valve exposed to temperatures below 0 ° C	-replace valve
Manometer shows a lower pressure under flow conditions than set pressure at no flow	This is normal	-No action
Low flow rate, low downstream pressure	-filter blocked with debrise -valve undersized	-clean or change filter cartridge -check valve caracterictis and use the right valve

Pressure drop diagram



Velocity of water