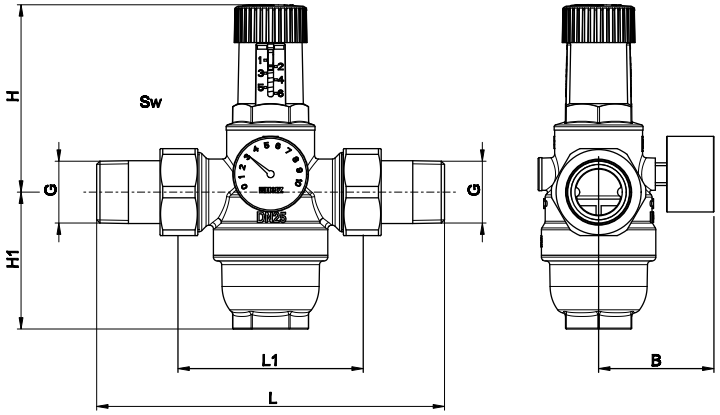
HERZ - Diaphragm Pressure Reducing Valve

Data sheet **1 2682 XX**, Issue 0626

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	110	52
1 **2682** 15	plastic	1-1/2"	16	40	1-1/2"	224	122	78	156	110	60
1 **2682** 16	plastic	2"	16	50	2"	252	136	78	156	110	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
1 **2682** 24	brass	1-1/4"	16	32	1-1/4"	204	120	78	157	102	52
1 **2682** 25	brass	1-1/2"	16	40	1-1/2"	224	122	78	157	102	60
1 **2682** 26	brass	2"	16	50	2"	252	136	78	157	102	75

Construction

Body:	**(DN 15-25)** forged brass acc. to EN 12165 **(DN 32-50)** casted brass acc. to EN 1982
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 (for articles 1 **2682** 2X)
Screw connection:	Brass
Sealing screw connection:	Klingersil C-432

Specifications

Maximum inlet pressure:	16 bar
Outlet pressure range:	1,5-6 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:	0.3 mm
Medium:	water
Standard:	EN 1567
Pressure gauge connectors:	1/4" F (ISO 228-1)
Connectors:	external thread acc. to ISO 7-1 and ISO228

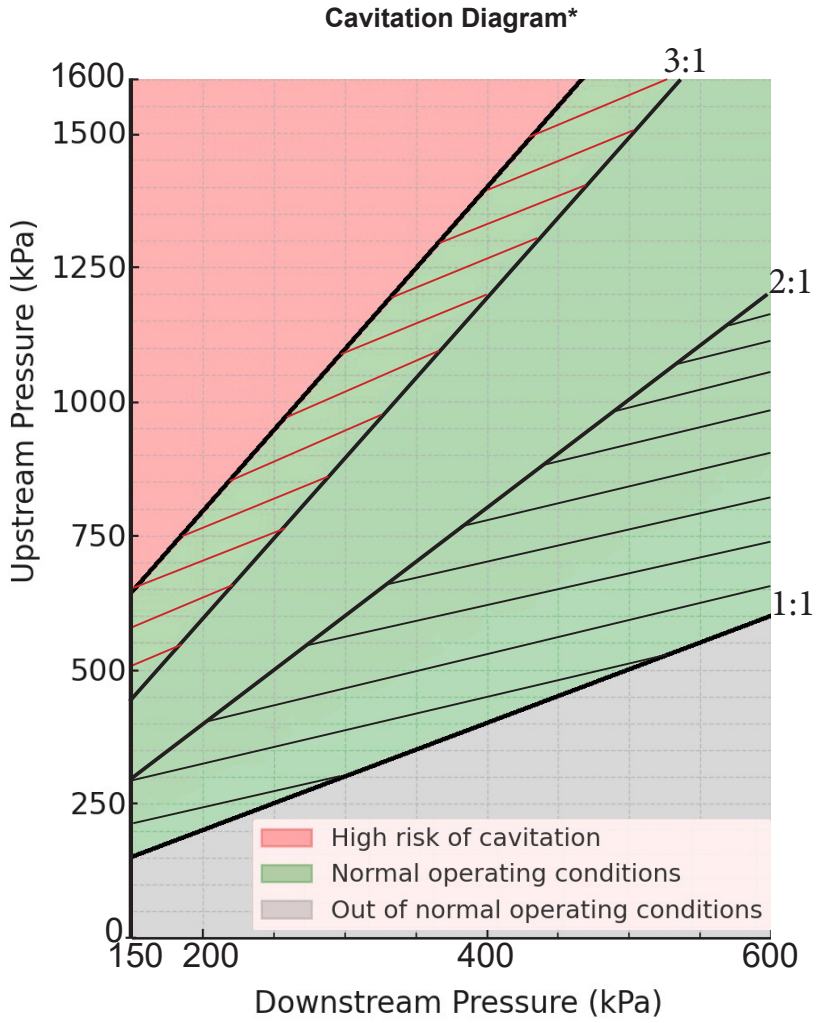
Assembly

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 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.
A safety device, such as a safety valve I **0132** X4 or an expansion tank, must always be provided on the pressure-reduced side, as the pressure reducer acts like a backflow preventer and thus creates a closed system after it. Planners and executors have to be advised of the use of a safety device.

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 and EN 806. 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.

Cavitation Diagram



*The planner can refer to the 'cavitation diagram' to select the required pressure reducer for a particular water supply system. These values do not represent a limitation on the use of pressure reducers, but serve as examples.

The cavitation diagram illustrates the recommended operating conditions for pressure-reducing valves, minimizing the risk of cavitation, which can otherwise cause malfunctions such as seal-area erosion, vibrations, and increased noise.

The diagram distinguishes three operating zones:

1. Normal Operating Conditions:
For optimal valve operation, the ratio between upstream (higher) and downstream (lower) pressures should ideally be 2:1, with a maximum of 3:1 (e.g., upstream pressure 10 bar, downstream pressure 5 bar, pressure ratio 10/5 = 2:1). Operating within this range significantly reduces cavitation risk.

2. High Risk of Cavitation:
Operating conditions characterized by high upstream pressure combined with very low downstream pressure pose an increased risk of cavitation. Avoid operating in this area to prevent potential valve damage, noise, and vibrations.

3. Out-of-Normal Operating Conditions:
Conditions where the downstream pressure is set too high relative to the upstream pressure are not recommended, as this may lead to inefficient valve performance and reduced effectiveness.

Recommendations for Optimal Operation:

• Maintain the recommended pressure ratio of 2:1, up to a maximum of 3:1.
• If operating conditions exceed these recommended limits, consider implementing a two-stage pressure reduction (e.g., first stage reducing from 16 bar to 8 bar, second stage from 8 bar to 4 bar).
• Ensure that appropriate brackets are used to securely fasten upstream and downstream pipes according to the manufacturer's instructions and local regulations, thus preventing vibration and noise within the system.

Nominal flow rates standard EN 1567

Size	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50
Flow rate [m^3/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

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
Increased downstream pressure	This problem is due to heating of the cold drink water caused by the room temperature	- install a safety valve I **0132** X4 or 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 debris Valve undersized	- clean or change filter cartridge - check valve caracterictis and use the right valve

Brass

HERZ uses top-quality brass that is in compliance with the UBA and 4MS lists. HERZ - membrane pressure reducer is made from brass due to its good strength and excellent corrosion resistance. Pursuant to Article 33 of the REACH Regulation (EC No. 1907/2006), we are obliged to point out that the material lead is listed on the SVHC list and that all brass components manufactured in our products exceed 0.1% (w / w) lead (CAS: 7439-92-1 / EINECS: 231-100-4). Since lead is a component part of an alloy, actual exposure is not possible and therefore no additional information on safe use is necessary.

Disposal instruction

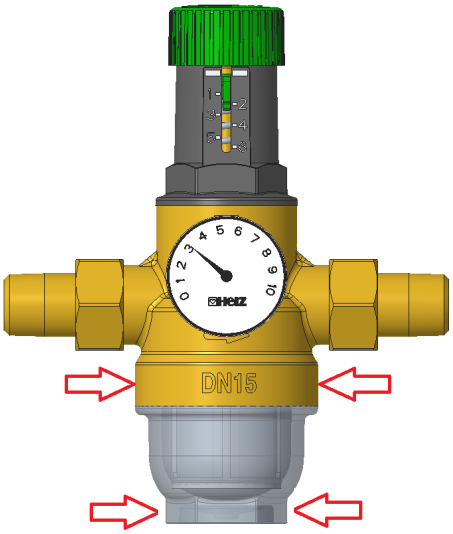
The disposal of HERZ - Drinking water manifolds systems must not endanger the health or the enviroment. National legal regulations for proper disposal of the HERZ - Drinking water manifolds systems have to be followed.

Body features

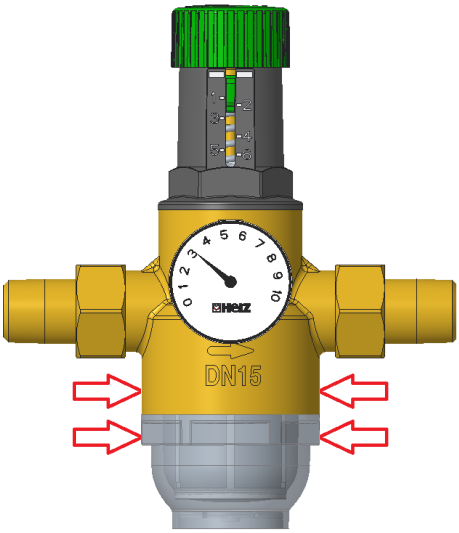
The DN15, DN20 and DN25 bodies were modified in February 2025. The DN32, DN40 and DN50 bodies were modified in May 2026.

The two designs can be distinguished as shown in the images below.
The caps (DN15-DN50) and filter (DN32-DN50) have also been redesigned. Please keep this in mind when reordering plastic, brass caps and filter.

New body design from February 2025 **DN15-DN25**

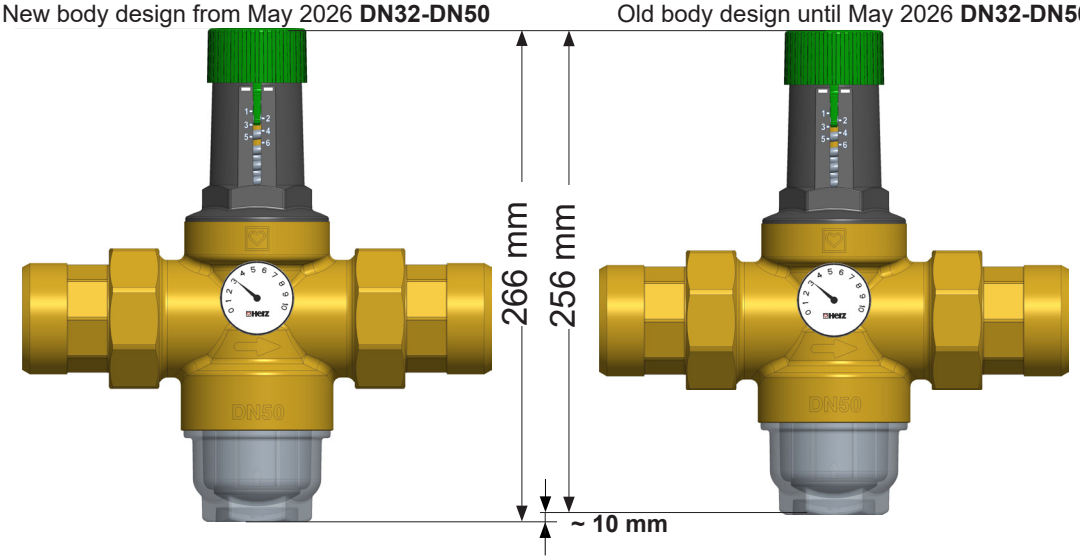


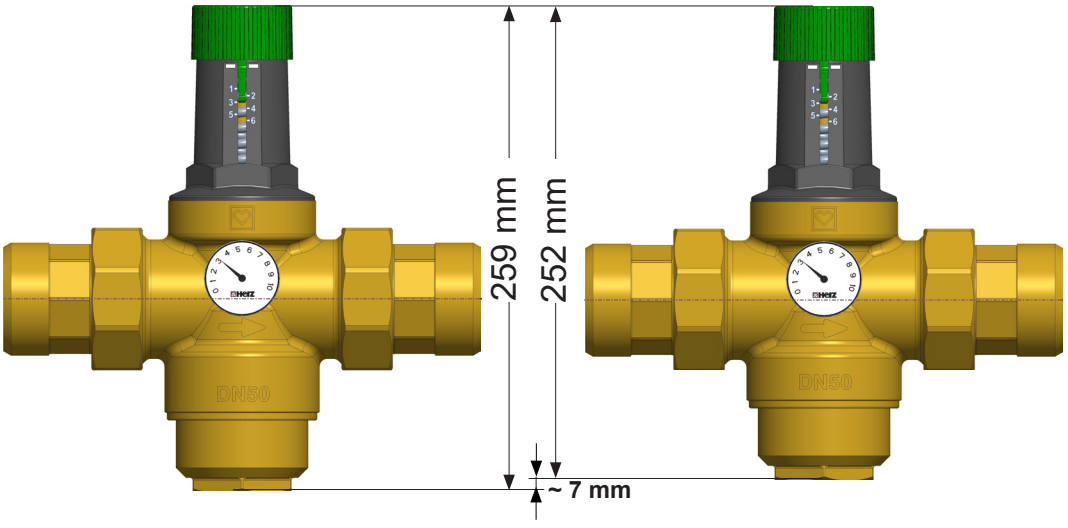
Old body design until February 2025 **DN15-DN25**



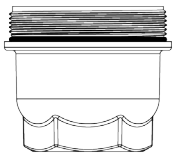
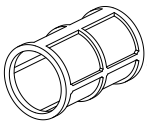
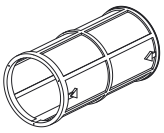
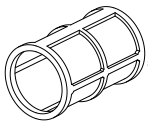
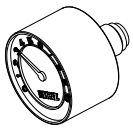
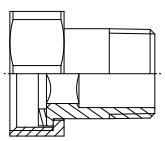
New body design from May 2026 **DN32-DN50**

Old body design until May 2026 **DN32-DN50**

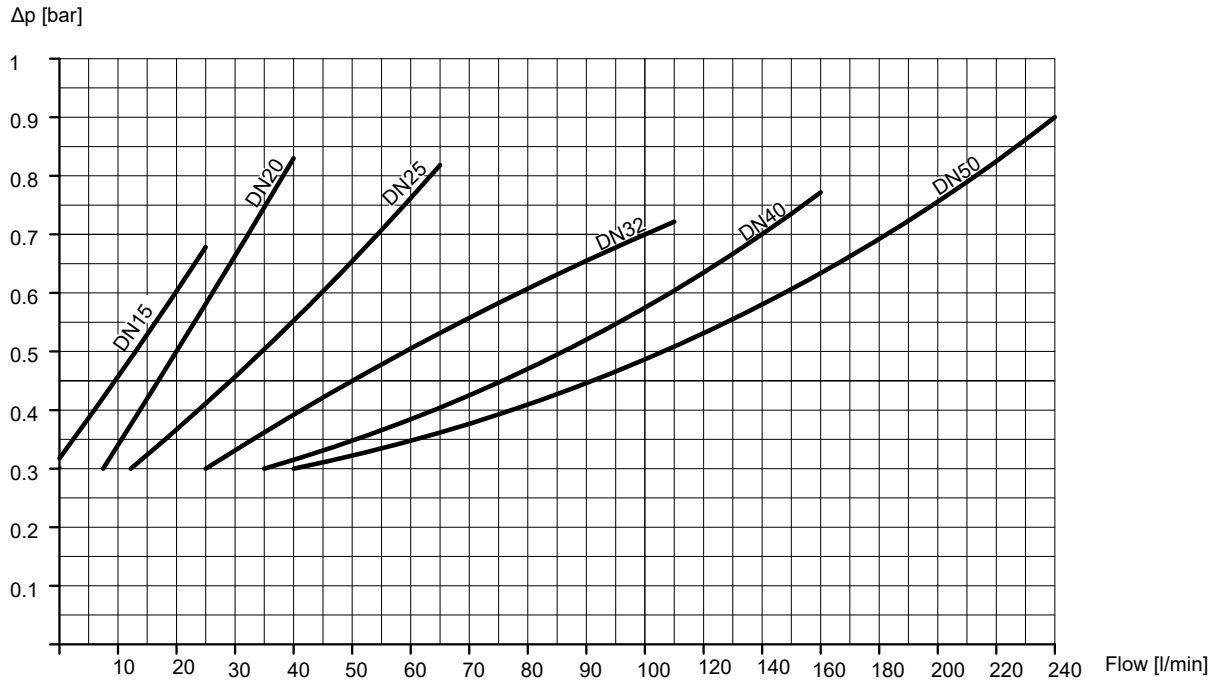




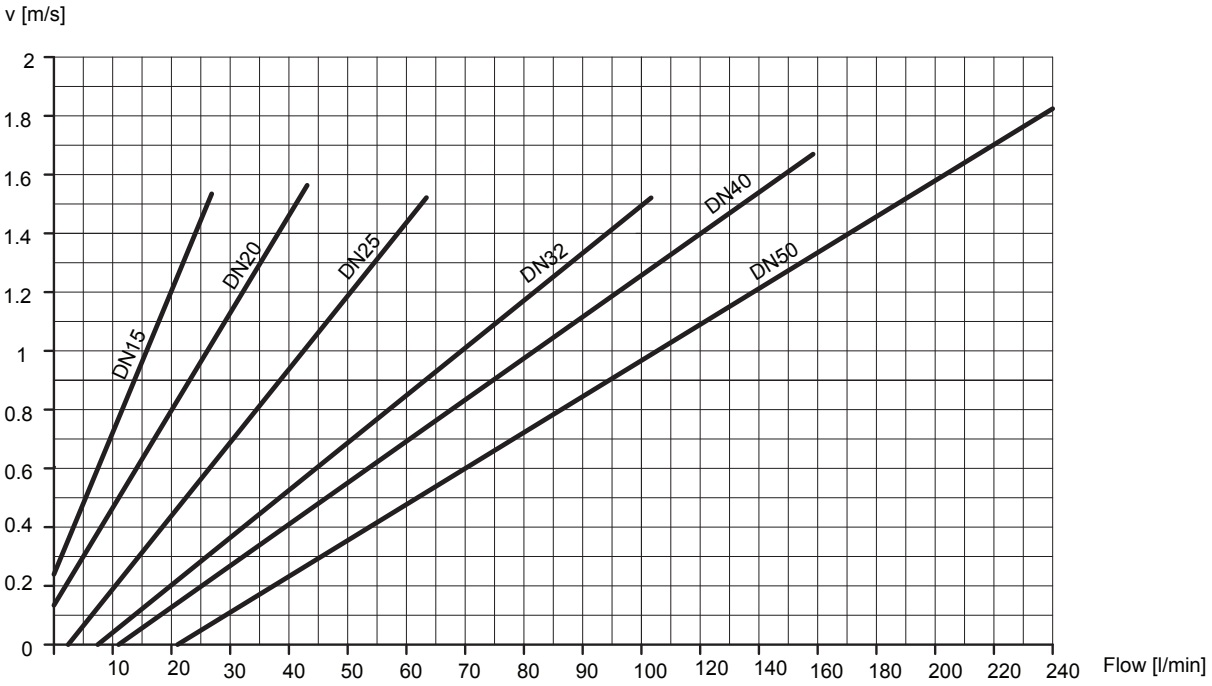
Spare Parts

Illustration	Description	Suitable for Valve	Item number
	Plastic cover with o-ring. Manufactured as of Feb. 2025	DN15 - DN25	1 **2682** 43
	Brass cover with o-ring. Manufactured as of Feb. 2025	DN15 - DN25	1 **2682** 44
	Plastic cover with o-ring. Manufactured up to Feb. 2025	DN15 - DN25	1 **2682** 30
	Brass cover with o-ring. Manufactured up to Feb. 2025	DN15 - DN25	1 **2682** 32
	Plastic cover with o-ring. Manufactured as of May 2026	DN32 - DN50	1 **2682** 46
	Brass cover with o-ring. Manufactured as of May 2026	DN32 - DN50	1 **2682** 47
	Plastic cover with o-ring. Manufactured up to May 2026	DN32 - DN50	not available
	Brass cover with o-ring. Manufactured up to May 2026	DN32 - DN50	1 **2682** 33
	Filter	DN15 - DN25	1 **2682** 28
	Filter. Manufactured as of May 2026	DN32 - DN50	1 **2682** 48
	Filter. Manufactured up to May 2026	DN32 - DN50	1 **2682** 29
	Manometer	DN15 - DN50	1 **2682** 34
	Tool for maintenance	DN15 - DN50	1 **2682** 27
	Screw connections, flat seal	DN15	1 **6221** 11
		DN20	1 **6221** 12
		DN25	1 **6221** 13
		DN32	1 **6221** 14
		DN40	1 **6221** 15
		DN50	1 **6221** 16

Pressure drop diagram



Velocity of water



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