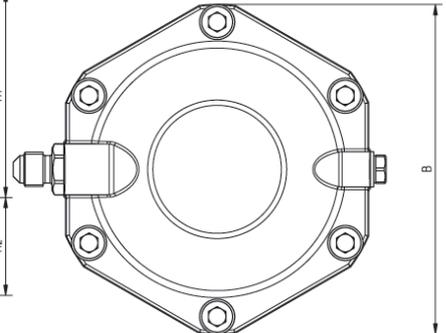
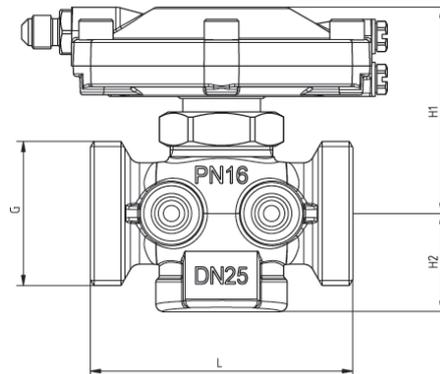
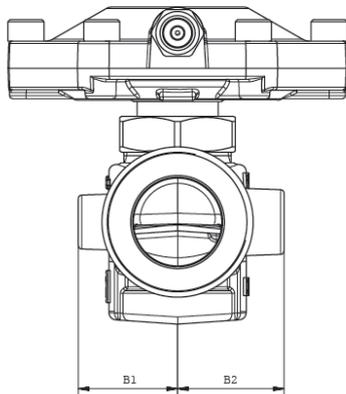
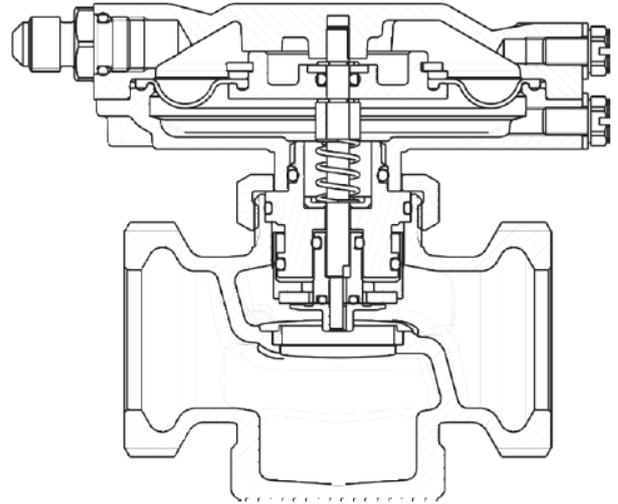


HERZ Differential Pressure Controller

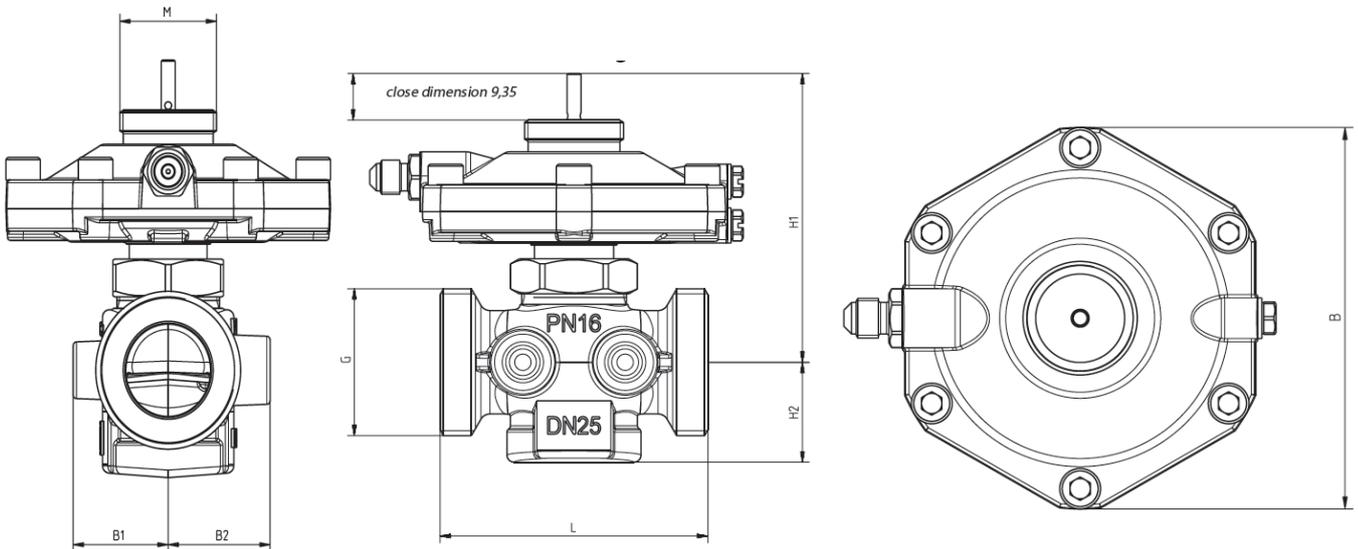
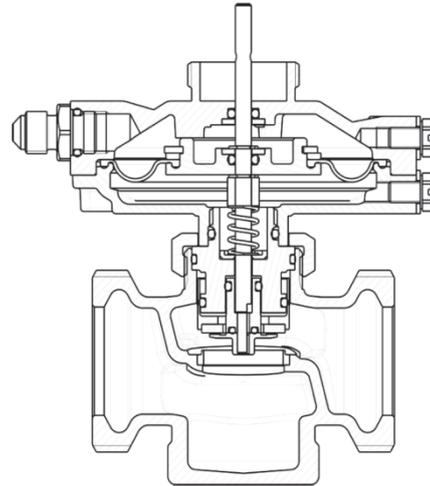
With FIXED differential pressure

Data sheet for 4002, Issue 0915

 Dimensions in mm


Order number	DN	G	L	H1	H2	B	B1	B2
1 4002 21	15	3/4 G	66	59	28	94	28,5	28,5
1 4002 22	20	1 G	76	60	28,5	94	27,5	29,5
1 4002 23	25	1 1/4 flatsealing	76	60	28,5	94	27,5	29,5
1 4002 24	32	1 1/2 flatsealing	114	76	46	94	-	-
1 4002 25	40	1 3/4 flatsealing	132	86	55	94	-	-
1 4002 26	50	2 3/8 flatsealing	140	86	55	94	-	-

Differential Pressure Controller with Integrated Control Valve



Order number	DN	G	L	H1	H2	B	B1	B2	M
1 4002 81	15	3/4 G	66	81	28	94	26	29	28 x 1,5
1 4002 82	20	1 G	76	82	29	94	28	30	28 x 1,5
1 4002 83	25	1 1/4 flatsealing	76	82	29	94	28	30	28 x 1,5
1 4002 84	32	1 1/2 flatsealing	114	98	47	94	-	-	28 x 1,5
1 4002 85	40	1 3/4 flatsealing	132	108	55	94	-	-	28 x 1,5
1 4002 86	50	2 3/8 flatsealing	140	108	55	94	-	-	28 x 1,5

Technical data

max. operating pressure	16 bar
max. differential pressure on the body	2 bar
min. operating temperature	2 °C (pure water)
min. operating temperature	- 20 °C (frost protection)
max. operating temperature	up to DN 32 130 °C from DN 40 110 °C
Stroke	4mm

Kv Values

Order number	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50
1 4002 xx	2,66	4,36	5,38	9,48	14,95	14,95

Application

The differential pressure controller is a straight-version linear controller and works without auxiliary power. The fixed nominal differential pressure is 23 kPa.

A capillary (1000 mm) is included and should be connected to the circuit regulating valve in the flow.

Material

Body	dezincification-resistant brass
Membranes and O-rings	EPDM

Water purity in accordance with the ÖNORM H 5195 and VDI 2035 standards
Ethylene and propylene glycol can be mixed to a ratio of 25 - 50 vol. [%]

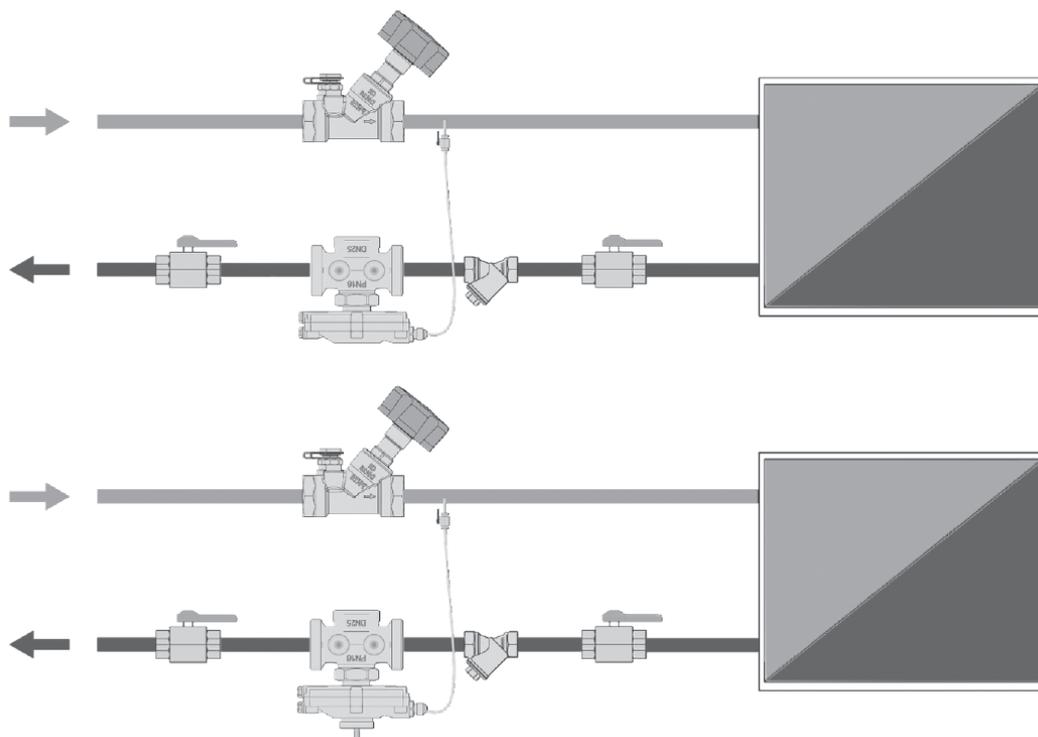
Ammonia contained in hemp can damage brass valve bodies, EPDM gaskets can be affected by Mineral oils lubricants and thus lead to failure of the EPDM seals. Please refer to manufacturers documentation when using ethylene glycol products for frost and corrosion protection.

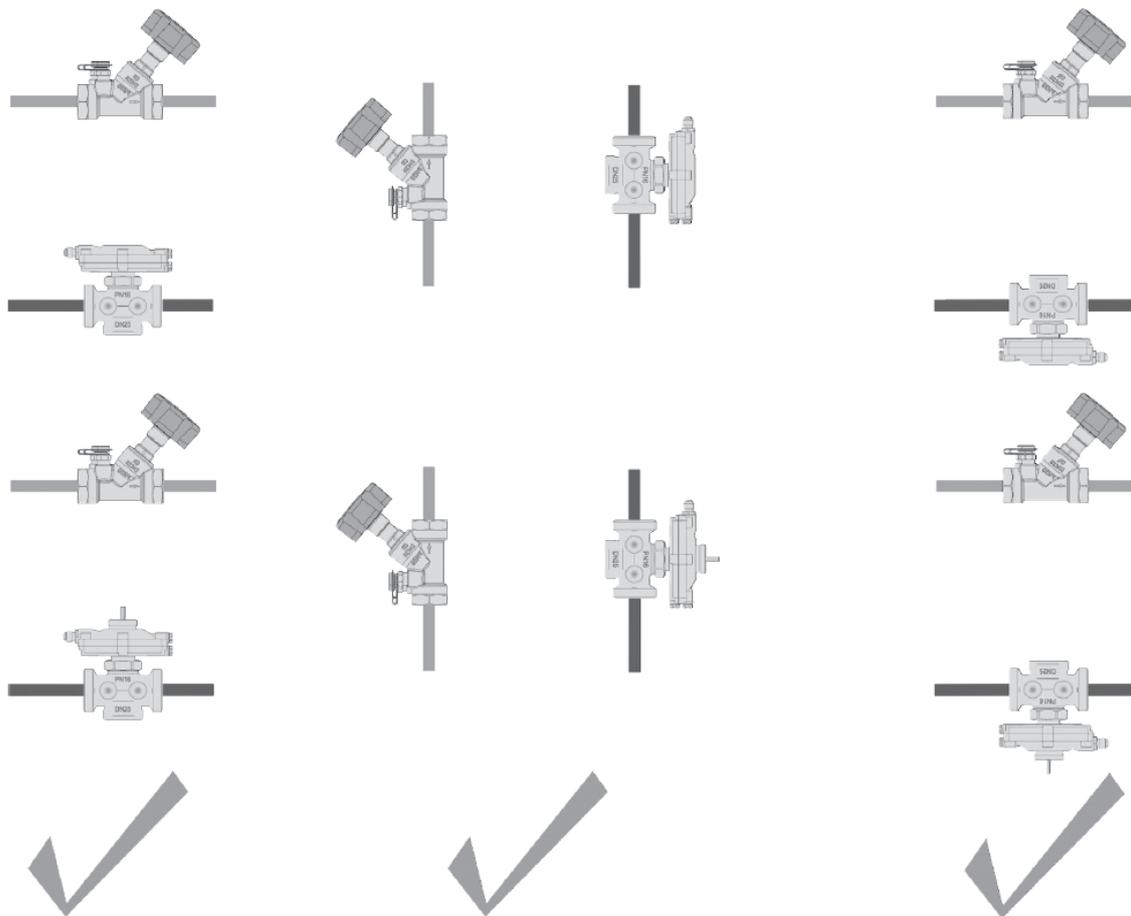
Actuator for 1 4002 8x

The differential pressure controller (4002 8x) can be fitted with an actuator (7708) using the adapter ring 1 7708 85.

Installation

The valve is fitted in the return flow in any position. The arrow on the valve body should align with the direction of flow. It is recommended that an isolation valve is fitted both upstream and downstream of the differential pressure controller.

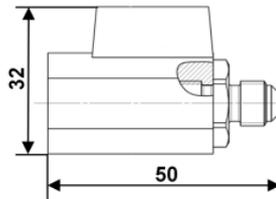




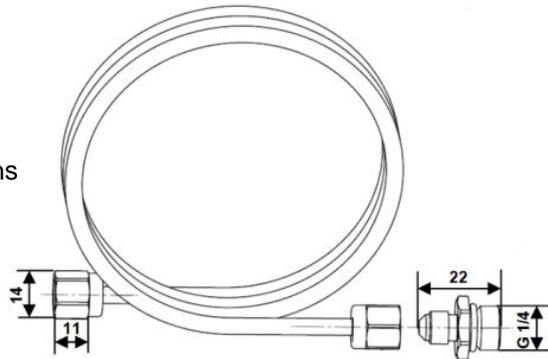
☑ Accessories and spare parts

1 4117 xx	HERZ-STRÖMAX circuit control valves, angle version
1 4217 xx	HERZ-STRÖMAX circuit control valves, straight version
1 4017 xx	HERZ-STRÖMAX circuit control valves with integrated metering orifice plate
1 4125 xx	HERZ shut-off valves, angle version
1 4115 xx	HERZ shut-off valves, angle version
1 4215 xx	HERZ shut-off valves, straight version, also variants with male threads. For details please refer to the corresponding data sheets.
1 0284 01	test point for HERZ circuit control valve, blue cap (return)
1 0284 02	test point for HERZ circuit control valve, red cap (flow)
1 0284 11	test point for HERZ circuit control valve, extended model, blue cap (return)
1 0284 12	test point for HERZ circuit control valve, extended model, red cap (flow)
1 0284 21	HERZ test point with draining function, blue cap (return)
1 0284 22	HERZ test point with draining function, red cap (flow)
1 0284 00	test point adapter set
1 0273 09	screw plug 1/4
1 4006 02	HERZ pre-setting key for differential pressure controll
1 7708 xx	HERZ-Actuating drive for 2-point or pulse control
1 7711 10	HERZ-Actuating drive for 2-point or pulse control; NC (230 V/50 Hz)
1 7711 11	HERZ-Actuating drive for 2-point or pulse control; NO (230 V/50 Hz)
1 7711 12	HERZ-Actuating drive for 2-point or pulse control; NC (24 V)
1 7711 13	HERZ-Actuating drive for 2-point or pulse control; NO (24 V)

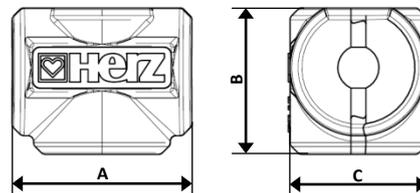
1 4002 78
 ball valve for the control capillary
 connections
 Male thread x Female thread 1/8



1 4002 80
 control capillary with connections
 G 1/4
 length 2,000 mm



1 4096 1x
 Insulation shell
 made of EPP (expanded polypropylene)
 According to DIN 4102 and E after DIN EN 13501-1
 Weight 45 kg/m³



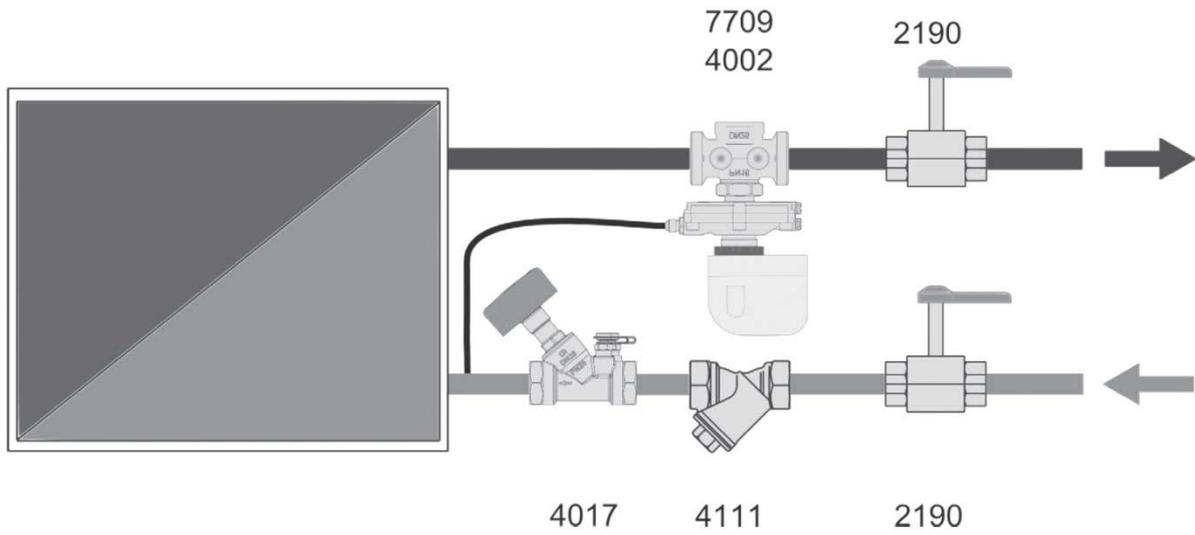
Order number	DN	A	B	C
1 4095 11	15	96	78,5	75
1 4095 12	20	110	82	83
1 4095 13	25	112	84	100
1 4095 14	32	152	120	110
1 4095 15	40	170	130	123
1 4095 16	50	179	130,5	147

Tips

The valves must be installed for the correct application using clean fittings. A HERZ strainer (4111) should be fitted to prevent impurities.

Test points

Two test points are fitted on the same side of the valve and factory sealed. Thanks to this arrangement they are easily accessible and measurement devices can be quickly fitted, no matter in what position the valve has been installed.

Application examples

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HERZ- standard diagram	Differential pressure controller
Order Nr.: 1 4002 2x, 1 4002 8x	Dim. DN 15-DN 50

