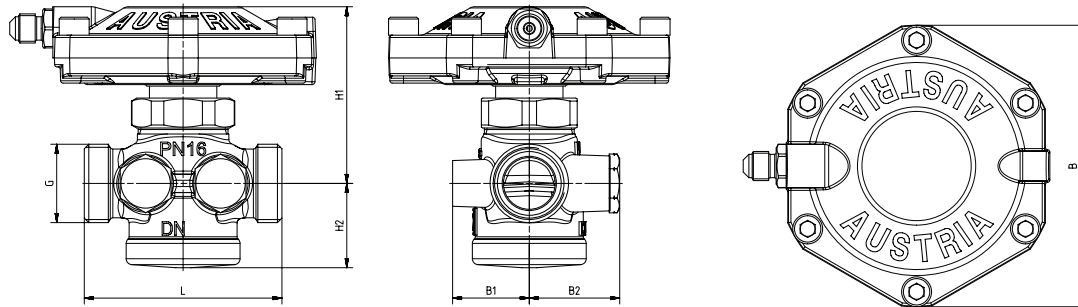


HERZ Differential pressure controller with fixed setpoint

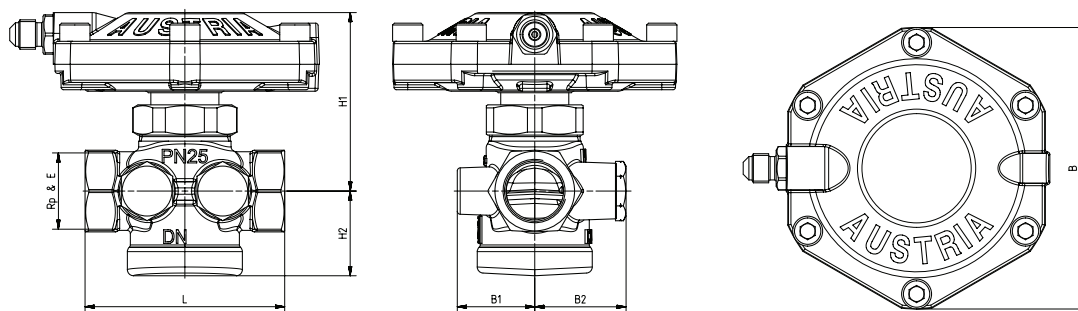
Data sheet 1 4X02 XX (FIX), Issue 0122

☑ Dimensions in mm

1 4002 XX



1 4202 XX



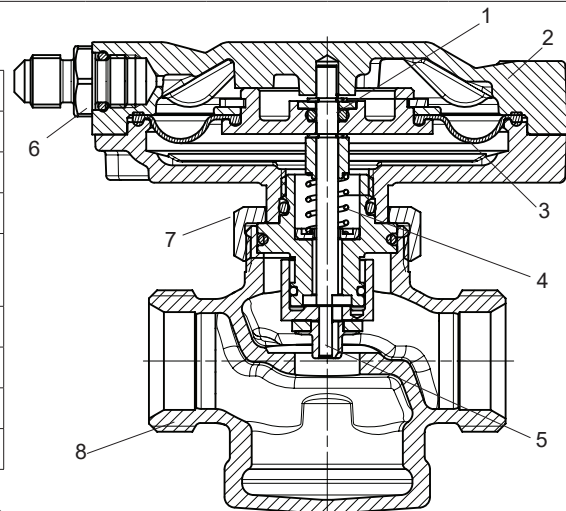
FIX dP	DN	Item		Thread, in	L, mm	H1, mm	H2, mm	B, mm	B1, mm	B2, mm
23 kPa	DN15	1 4002 21	MT	3/4 G	66	59	28	94	26	31
	DN20	1 4002 22		1 G	76	60	29	94	28	33
	DN25	1 4002 23		5/4 flat sealing	76	60	29	94	28	33
	DN32	1 4002 24		1 1/2 flat sealing	114	76	47	94	32	32
	DN40	1 4002 25		1 3/4 flat sealing	132	86	58	94	41	41
	DN50	1 4002 26		2 3/8 flat sealing	140	86	58	94	41	41
23 kPa	DN15	1 4202 21	FT	1/2	66	59	28	94	26	31
	DN20	1 4202 22		3/4	76	60	29	94	28	33
	DN25	1 4202 23		1	90	60	29	94	28	33
	DN32	1 4202 24		5/4	114	76	46	94	32	32
	DN40	1 4202 25		1 1/2	132	86	57	94	41	41
	DN50	1 4202 26		2	140	86	57	94	41	41
50 kPa	DN15	1 4002 59	MT	3/4 flat sealing	66	59	28	94	26	31
13 kPa	DN15	1 4012 01	MT	3/4 flat sealing	66	59	28	94	26	31
13 kPa	DN15	1 4202 01	FT	1/2	66	59	28	94	26	31

☑ Technical data

	DN15	DN20	DN25	DN32	DN40	DN50
k_{vs} value	2,66	4,36	5,38	9,48	14,95	14,95
Operating pressure	max. 16 bar (4002) max. 25 bar (4202)					
Max. differential pressure on the body	4 bar					
Min. operating temperature	2 °C (pure water); - 20 °C (frost protection)					
Max. permissible operating temperature	up to DN32: 130 °C DN40 - DN50: 110 °C					
Control set (see table above)	FIX 23 kPa FIX 50 kPa FIX 13 kPa					
Water quality	according to ÖNORM H 5195 and VDI 2035 The use of ethylene glycol and propylene glycol is permitted in a mixing ratio of 25 - 50% by volume.					

☑ Materials

N	Description	Material
1	O-Rings	EPDM
2	Membrane body	Brass CW602N
3	Membrane	EPDM
4	Compression spring	Spring steel, rust and acid resistant
5	Valve stem	stainless steel 14301
6	Connection nipple	Brass CW602N
7	Connection nut	Brass CW614N
8	Body	DZR brass CC770S



Ammonia contained in hemp damages brass valve bodies, EPDM seals are swollen by mineral oils or lubricants containing mineral oils and thus lead to failure of the EPDM seals. For antifreeze and corrosion protection agents based on ethylene and propylene glycol, the relevant information can be found in the manufacturer's documentation.

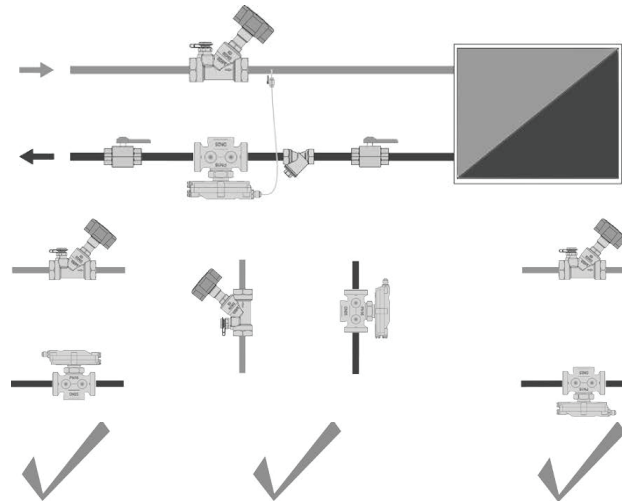
Pursuant to Article 33 of the REACH Regulation (EC No. 1907/2006), we are obliged to point out that the material lead is listed on the SVHC list and that all brass components manufactured in our products exceed 0.1% (w/w) lead (CAS: 7439-92-1 / EINECS: 231-100-4). Since lead is a component part of an alloy, actual exposure is not expected and therefore no additional information on safe use is necessary.

☑ Field of application

The Differential pressure controller is a straight-version linear controller and works without auxiliary power. The fixed nominal differential pressure is 23 kPa or 50 kPa. A capillary (1000 mm) is included and should be connected to the regulating valve in the flow.

☑ Installation

The valve is fitted in the return 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.



☑ Warning notices

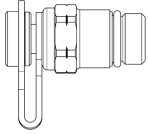
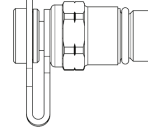
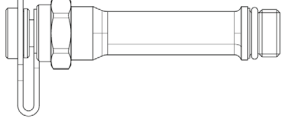
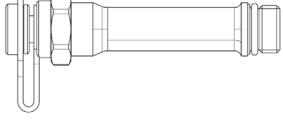
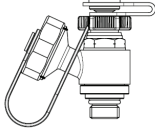
The valves must be installed for the correct application using clean fittings. A HERZ strainer (4111) should be fitted to prevent impurities.

☑ Test points

Two test points are fitted next to each other. This arrangement ensures the best accessibility and optimal connection of measuring devices in all installation positions.

☑ Accessories and spare parts

Item	Dim.	Description	Image
1 4002 78	1,0 m	Capillary for differential pressure controller with ball valve 1/8".	
1 4002 80	2,0 m	Capillary for differential pressure controller with connection nipple 1/8" G x 1/4" G.	
1 0269 19	1/8" x 1/4"	Connection nipple for capillary	
1 0269 09	1/8" x 1/8"	Connection nipple for capillary	

1 0284 01	1/4"	Test point for HERZ regulating valve, blue cap (return)	
1 0284 02	1/4"	Test point for HERZ regulating valve, red cap (supply)	
1 0284 11	1/4"	Test point for HERZ regulating valve, extended design, blue cap (return)	
1 0284 12	1/4"	Test point for HERZ regulating valve, extended design, red cap (supply)	
1 0284 21	1/4"	HERZ test point with drain valve, blue cap (return)	
1 0284 22	1/4"	HERZ test point with drain valve, red cap (supply)	