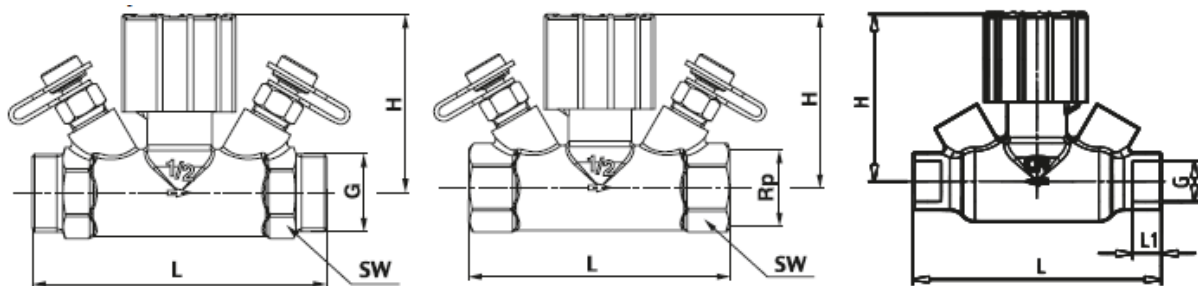


HERZ 4216

Regulating valve

Data sheet for 4216, Issue 0915

☑ Assembly dimensions in mm



Order number	DN	Type	L	L1	Rp	G	SW	H	kvs
1 4216 21	15	Male thread	100	-	-	¾		60 - 66	3,4
1 4216 22	20	Male thread	104	-	-	1		60 - 66	3,4
1 4216 31	15	Female thread	92	-	½		27	60 - 66	3,4
1 4216 32	20	Female thread	102	-	¾		32	60 - 66	3,4
1 4216 11	15	Solder end	92	10	-	15		60 - 66	3,4
1 4216 12	20	Solder end	101	19	-	22		60 - 66	3,4

☑ Models

4216 Regulating valve, DN 15 and DN 20 straight model, presetting by limitation of valve lift, pipe connecting both sides with male thread cone G ¾ or G 1, female thread Rp ½ or ¾ or solder connection. 2 test points, except for 4216 11 and 4216 12, are mounted next to handwheel. Body made of dezincification resistant brass. Screw fittings have to be ordered separately.

☑ Other models

4017 M DN 15–50 STRÖMAX-M, Circuit regulating valve with test points for differential pressure measurement, straight model. kvs = 0,52 - 33,00 m³/h

4117 M DN 15–80 STRÖMAX-M Circuit regulating valve with test points, inclined model, socket x socket. kvs = 4,75 - 133,2 m³/h

4217 GM DN 15–80 STRÖMAX-Circuit regulating valve, straight model, with or without test points, 2 internal thread connections, non-rising handwheel, digital display of the presetting in handwheel, kvs = 0,93 – 76,10 m³/h

☑ Test points

Two test points are mounted next to handwheel on the same side of the valve and factory sealed. This arrangement ensures the best accessibility in any position and optimum connection of measuring instruments.

☑ Technical Data

max. operating temperature: 130 °C
max. operating temperature (Solar): 200 °C
max. operating pressure: 10 bar

Ethylene and propylene glycol is to be used in a mixing ratio of 25 - 50 Vol. [%].

Water quality according to ONORM H 5195 and VDI 2035

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.

☑ Plastic pipe connection

The circuit regulating valves can be used in equipment with plastic pipes. Adapters and plastic pipe connections can be fitted. Models, dimensions and fittings are to be found in the HERZ brochure.

☑ Copper and soft steel pipes

With the installation of soft steel or copper pipes with a compression adapter, we recommend the use the support sleeves. To ensure the proper installation of compression adapters, the thread of the sealing ring or the nut and the sealing ring itself can be coated with silicone oil. We refer to our instructions.

☑ Spare parts

1 0284 01	¼	Test points for circuit regulating valves, blue cap (return) for flow computer
1 0284 02	¼	Test points for circuit regulating valves, red cap (flow) for flow computer.
1 0284 11	¼	Test points for circuit regulating valves, blue cap (return) for flow computer, Extended model for insulated valves up to 40 mm.
1 0284 12	¼	Test points for circuit regulating valves, brass version, red cap (flow) for flow computer. Extended model for insulated valves up to 40 mm.
1 0284 22	¼	Test points with draining function, brass version, red cap (flow) for Herz- Measuring computer.
1 0284 21	¼	Test points with draining function, brass version, blue cap (return) for Herz- Measuring computer.
1 8900 04		HERZ-Measuring computer for one-hand operation
1 8904 02		HERZ-Measuring computer Flow Plus

☑ Application

Can be used as isolating and commissioning valve.

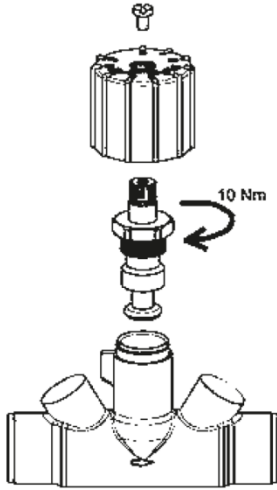
☑ Installation

The HERZ-STRÖMAX-TS valve is installed in the flow or return with the flow in the direction of the arrow on the casing. The installation location should be taken into account.

☑ Tips

When installing HERZ STRÖMAX 4216 for solar installations please screw out the upper part in order to prevent the damages during soldering of the seals. Before commissioning in order to use in solar systems, the handwheel is to be removed as it can melt at higher temperatures.

☑ Mounting 4216 for solar installations



Remove the handwheel and test points from the valve body.
 Solder the valve body into the pipework using solder type 95/5 (95% tin, 5% antimony or silver) ensuring the direction of flow arrow on the body is coincident with the flow direction.
 Refit the stem complete with 'O' ring seals into the body.
 Refit the stem retaining nut. (A thread Loctite may be used).
 Rotate the handwheel to the closed position (clockwise) and fit with the zero position.
 Adjust the handwheel at any desired position.
 Remove fastening screw and pull it off.
 Fit the cap onto the valve stem depending on the desired position.
 Rotate the handwheel to the desired position and re-install fastening screw.

☑ Adjustment implementation

The adjustment is made by fixing at a specific value or blocking the rotational movement from being fully opened or completely close - in cases, when the minimum flow rate is required.

1. Adjust the valve to the desired position of the handwheel.
2. Remove fastening screw and pull it off.
3. Fit the cap onto the valve stem depending on the desired position.
4. Rotate the handwheel to the desired position and re-install fastening screw.



Picture:

Adjustment scale on the handwheel



Picture:

Handwheel positioning screw



Picture:

Nose at the valve
 Groove at the handwheel

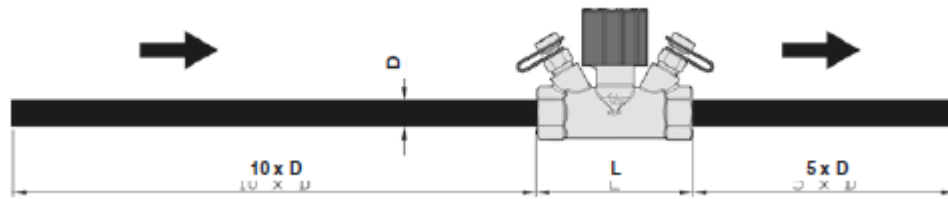


Picture:

Fixed position

Measuring

To get correct measuring results, we recommend a straight piece of pipe before and after the valve. It is recommended to install 10 x straight pipe diameters upstream and 5 x straight pipe diameters downstream of the valve.



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HERZ standard diagram

HERZ 4216

