



HERZ Flow Controller

with Integrated Control Valve

- ❑ Flow control and limitation
- ❑ Used in cooling and district heating systems
- ❑ Constant, presettable flow rate
- ❑ Flow rate adjustment by electric actuator for precise temperature control
- ❑ Energy saving through accurate regulation

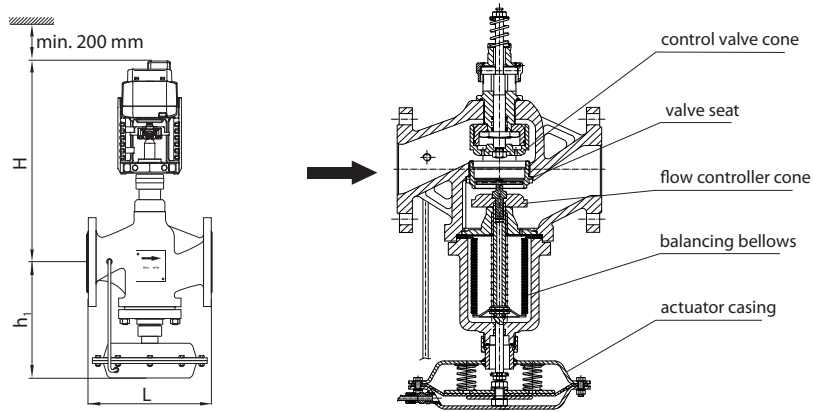


HERZ Amaturen GmbH

A-1230 Vienna · Richard-Strauss-Strasse 22

Tel./Fax: +43 (0)1 616 26 31-0/-227, www.herz.eu





Order Nr. PN 16	Order Nr. PN 25	DN	Stroke [mm]	kvs	min. Flowrate [m³/h]	max. Flowrate [m³/h]	H	h1	L	kg
F 4006 71	F 4006 90	15	10	2,5	0,25	1,3	275	175	130	7
F 4006 72	F 4006 91	15	10	4,0	0,4	2	275	175	130	7
F 4006 73	F 4006 92	25	14	6,3	0,6	3	300	205	160	10
F 4006 93	F 4006 53	25	14	8,0	0,8	4	300	205	160	10
F 4006 74	F 4006 94	32	14	12,0	1,3	6,5	295	220	180	13
F 4006 75	F 4006 95	40	14	20,0	2,6	11	320	225	200	15
F 4006 80	F 4006 96	50	14	32,0	3,2	16	425	240	230	20
F 4006 81	F 4006 97	65	16	50,0	6	28	435	355	290	44
F 4006 82	F 4006 98	80	18	80,0	8	40	450	395	310	56
F 4006 83	F 4006 99	100	21	125,0	12,6	63	455	435	350	73
F 4006 84	F 4006 10	125	21	180,0	16	80	480	480	400	95

Technical Data

Max. operating pressure	16 bar (PN 16) 25 bar (PN 25)	Type of connection	Flanged (EN 1092-2)
Max. differential pressure	10 bar (PN 16) 15 bar (PN 25)	Valve body material	GG 25 (PN16) GGG 40.3 (PN 25)
Diff. pressure across the restrictor	0,2 bar	Gasket material	FPM (ISO1629)
Min. operating temperature	2 °C (pure water)	Cones, stem, seat material	WN1.4057, WN1.4404, WN1.4021
Min. operating temperature	- 20 °C (frost protection)	Impulse tupe	WN1.4301
Max. operating temperature	130 °C	Diaphragm material	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. [%].

Description

The combi-valve is primarily designed to control the flow of circulation water in district heating and HVAC systems. The flow controller is operated by an electric actuator F 7712 81-98 which is controlled by a microprocessor controller.

The limitation and flow regulation is realized by means of the pressure actuator with a diaphragm and integrated control valve. The control valve cone is controlled by the electric actuator and limited by the adjustable nut.

Changing the position of the adjustable nut increases or decreases the maximum flow through the valve. The pressure difference acts through the impulse tube on the control diaphragm and flow controller cone. Each pressure change on the valve upstream port, causes the movement of the control diaphragm and flow controller cone and causes increase or decrease of the valve orifice.

The set point for the valve flow limitation can be adjusted by using the diagrams with adjustment curves.

Installation

The installation in the return flow pipe of the system is recommended. Electric actuator should be placed in upward position, at ±45° angle to the vertical pipe axis. The valves must be installed for the correct application using clean fittings. A HERZ strainer (4111) should be fitted to prevent impurities.

For installation, the local and international rules and standards have to be followed.

