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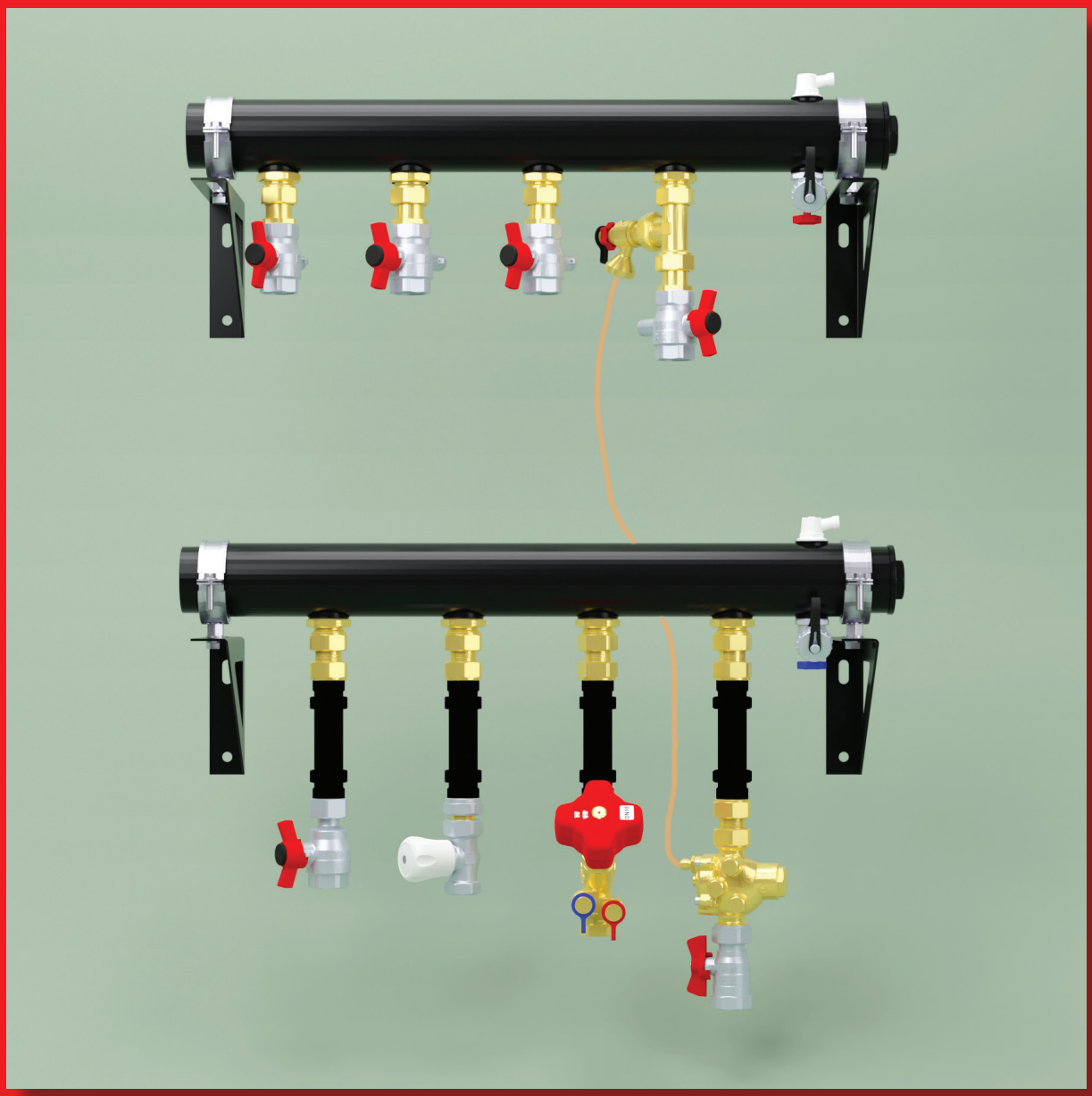
HERZ Metering Manifold

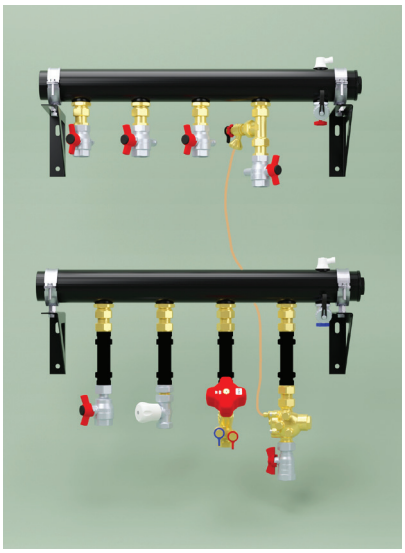
The central point for commissioning, maintenance and metering of apartments

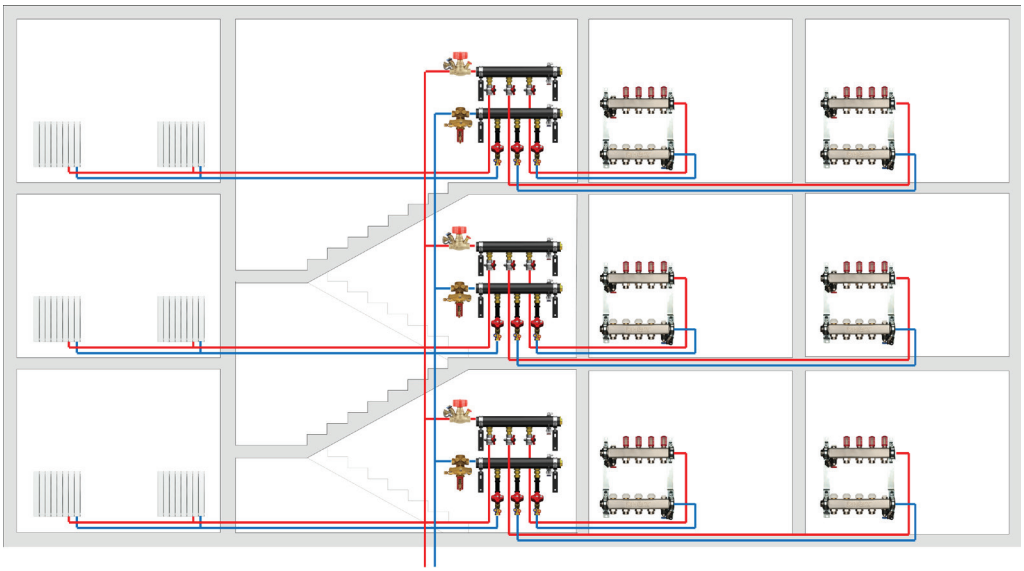


Overview

The expectations of developers and home owners are ever increasing. Next to a professional plumbing work, the heating system needs to be comissioned and the flow rates proven according to the design. When the comissioning valves are spread all around the building, it is a challenge to access the indvidual valves repeatedly for measurement, regulation, troubleshooting and verification. In case of unexpected issues, it is difficult to locate the problem. During the lifetime of the building, periodic replacement of the heat meters may require coordination with the tenants to acess heat meters located in the apartments.

How much faster and easier is the job when everything is in one place! The HERZ Metering Manifold brings the pieces of the comissioning puzzle together. Moving from one commissioning valve to the other is a matter of a moment. Troubleshooting is easy, as all settings are immediately accessible and the differential pressures and flow rates can be measured for all of the connected appartments at one place.





Schematic illustration without additional components

When using the regulation option with HERZ 4017 valves with fixed orifice, reading the flow rates in each apartment with the HerzCOMP 650 measuring computer is as fast as switching the needles to the next valve, without the need to enter the valve setting.

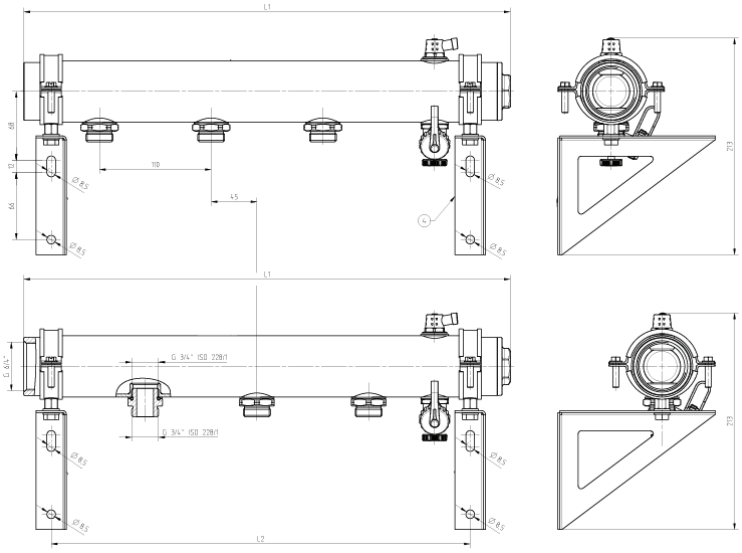
The regulation option with differential pressure control valves on each loop features the compact 4012 FIX differential pressure controllers, factory-set for an optimal differential pressure for the apartment, ensuring that the radiator valves or underfloor heating manifolds operate at the nominal flow conditions.

The HERZ Metering Manifold is a modular system consisting of a pair of manifolds with the desired number of loops, the connections sets including the selected loop regulation valve, and coupling adapters allowing for the connection of the manifold to the risers via valves of appropriate size and type, from a ball valve to a differential pressure control valve and its partner valve.

Benefits

- 2-12 outlets at 110 mm gauge and 45 mm offset between supply and return for a comfortable assembly.
- Loop connections via G ¾” male threaded brass inserts with flat sealing.
- Support brackets and attachment clamps included.
- DN 50 manifold bars to minimize pressure losses on the manifold.
- G 6/4” female threads for manifold connections to primary circuit. Connection adapters available.
- Draining valve and air vent on each manifold.

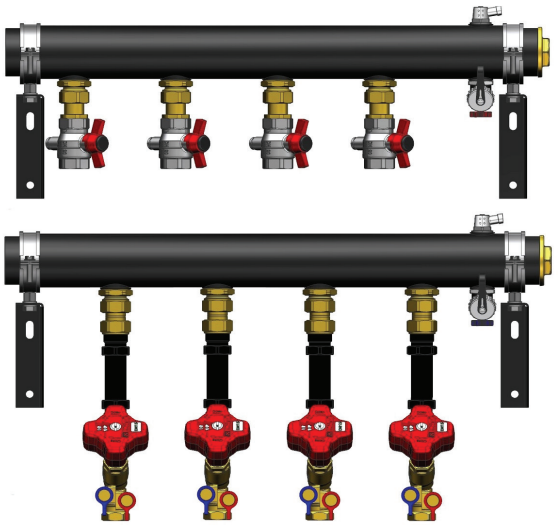
Dimensions



Article number	Outlets	L1, mm	L2, mm
1 **8636** 31	1 *)	170	-
1 **8636** 32	2	370	300
1 **8636** 33	3	480	410
1 **8636** 34	4	590	520
1 **8636** 35	5	700	630
1 **8636** 36	6	810	740
1 **8636** 37	7	920	850
1 **8636** 38	8	1030	960
1 **8636** 39	9	1140	1070
1 **8636** 40	10	1250	1180
1 **8636** 41	11	1360	1290
1 **8636** 42	12	1470	1400

***) The single outlet manifold bar can be used as an extension**

Connection sets with HERZ 4017 Fixed Orifice Double Regulating Valves



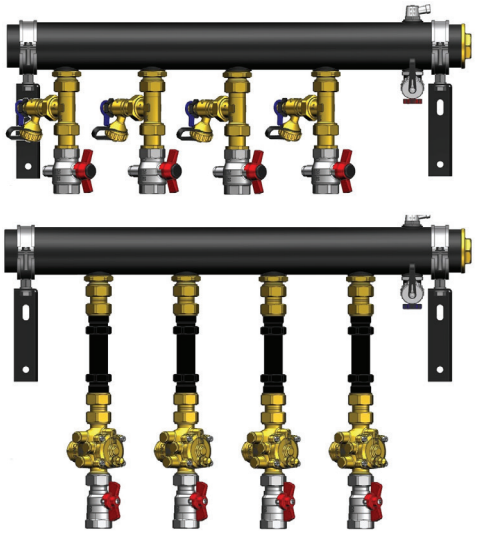
- Precise regulation and fast measurement of flow rates on HERZ 4017 Regulating Valves with fixed measuring orifice
- Pipe connection via G ¾" female thread on supply side and G ½" female thread on the return side
- 110 mm distance piece with G ¾" flat seaing connection for the flow meter in the return assembly and a ball valve with M10 temperature sensor port in the supply assembly
- Three different balancing valve sizes covering the majority of flow requirements

Connection set Art. Nr.	DN	kvs	Orifice kv
1 **8636** 20	15 LF	0.46	0.48
1 **8636** 29	15 MF	0.88	0.97
1 **8636** 24	15	2.00	1.95

Technical data

- Max. Operating pressure 10 bar
- Max. Operating temperature: 110 °C
- Min. Operating temperature: 2 °C
- Internal thread connection (primary): G 1½"
  (with adapter: G 5/4" free-turning union nut)

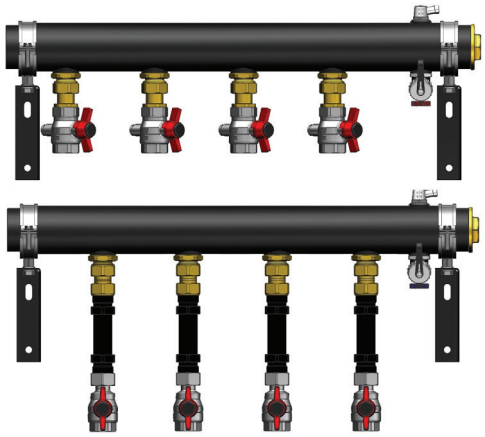
Connection sets with HERZ Differential Pressure Control Valves 4012 FIX



Connection set Art. Nr.	Δp setting	Flow range
1 **8636** 30	13 kPa	50-800 l/h

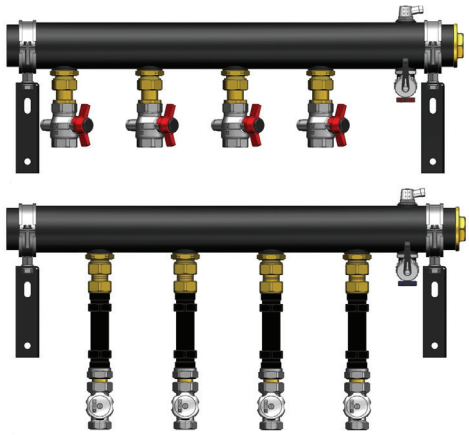
- Dynamic differential pressure regulation for each loop
- Fixed pressure setting providing for optimal Δp conditions in most radiator and underfloor heating applications
- Orifice inserts available for additional flow limiting if necessary
- Capilary connection to the supply side can be isolated
- Ball valves for loop isolation on both supply and return side

Connection sets with ball valves



Connection set Art. Nr.	kvs	Pipe connection	
		Supply	Return
1 **8636** 23	1.8	G ¾" female	Rp ½" female

Connection sets with GP presettable manual valves



Connection set Art. Nr.	kvs	Pipe connection	
		Supply	Return
1 **8636** 21	3.4	G ¾" female	G ¾" female

Adapters for manifold connection to main supply and return lines

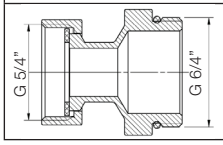
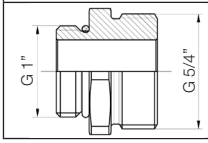
Image	Art. Nr.	Description
	1 **6220** 45	Adapter G 6/4" male to G 5/4" coupling nut

Image	Art. Nr.	Description
	1 **6266** 14	Adapter G 5/4" male to G 1" male

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