

Multidis SF

Presettable Heating Circuit Manifold optionally with Flow Indicators



Item no. 14063



Item no. 14065

Heating circuit manifold made of stainless steel for surface heating and cooling systems with forced circulation. For connecting two to twelve heating circuits to the heat or cooling generator.

The heating circuit manifold consists of a flow distributor, a return collector, wall brackets and fixing material. The heating circuit manifolds are completely pre-assembled with rotatable fill and drain cocks, vent plugs and end caps. To simplify the installation of the heating circuit pipes, the return collector (bottom) is moved forward in the wall bracket.

The flow distributor is equipped with integrated flow measuring and regulating devices or with simple regulating inserts. The return collector is equipped with valve inserts with M 30 x 1.5 connection thread to connect optional actuators. These are factory-fitted with a protection cap, which can also be used to temporarily shut off the heating circuit

The heating circuit connections with G 3 4 external thread are suitable for Oventrop compression fittings. Sound insulation according to DIN 4109.

Functions

- · Regulation of the heating circuit flow rate
- Flow rate check per heating circuit (item no. 14063)
- Heating circuit shutoff
- Filling, venting, draining
- M 30 x 1.5 connection thread for actuators

Features

- Static setting of the flow rate, optionally with flow indicators
- + High-quality stainless steel version
- + Complete with wall brackets for installation in a surface-mounted or a flush-mounted cabinet or in a niche

Product Details

Technical Data

Item no. **14063** with flow measuring and regulating devices

Item no. **14065** with regulating inserts

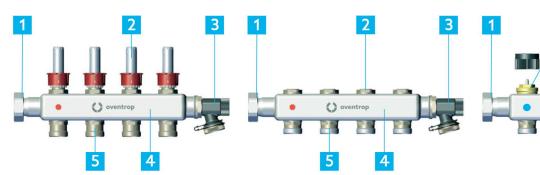
Heating circuits	212	212				
Variant	Flow distributor: flow measuring and regulating devices Return collector: valve inserts with connection thread M 30 x 1.5	Flow distributor: regulating inserts Return collector: valve inserts with connection thread M 30 x 1.5 -1090 °C				
Operating temperature	-1070 °C					
Operating pressure	max. 6 bar	max. 10 bar				
Differential pressure	max. 100 kPa (1 bar)	max. 100 kPa (1 bar)				
Medium	Heating and cooling water according to VDI 2035 or ÖNORM 5195, water-glycol mixtures with max. 50% glycol content					
Kvs value heating circuit	0.9	1.9				
Actuator connection	M 30 x 1.5					
Valve stroke	1.8 mm					
Closing dimension	11.8 mm					
Closing force actuator	90150 N					
Heating circuit connection	G ¾ external thread, Eurocone according to DIN EN 16313					
Supply and return connection	G 1 union nut					

Design

Flow distributor design item no. 14063

Flow distributor design item no. 14065

Return collector design



- 1 G 1 union nut
- 2 Flow measuring and regulating device
- 3 Fill and drain cock
- 4 Flow distributor
- 5 Heating circuit connection

- 1 G 1 union nut
- 2 Regulating insert
- 3 Fill and drain cock
- 4 Flow distributor
- 5 Heating circuit connection



- 1 G 1 union nut
- 2 Valve insert
- 3 Protection cap
- 4 Fill and drain cock
- 5 Return collector
- 6 Heating circuit connection

Functions

Shutoff

HEATING CIRCUITS

Individual heating circuits can be shut off via the regulating inserts.

- Item no. 14063: Turn the adjustment bonnet of the flow measuring and regulating device manually clockwise as far as it will go
- Item no. 14065: Turn the regulating plug of the insert clockwise as far as it will go using a 5 mm Allen key

In the return, the heating circuits can be briefly shut off with the supplied protection caps.

HEATING CIRCUIT MANIFOLD

For a complete shutoff of the heating circuit manifold to the system, ball valves must be placed between the manifold and the system connection. These are not included in the scope of delivery. Suitable flat sealing ball valves for the manifolds are:

- For the supply and return, red T-handle: item no. 1406383 (DN 20) and 1406384 (DN 25)
- For the supply, red T-handle and thermometer: item no. 1406483 (DN 20) or 1406484 (DN 25)
- For the return, blue T-handle and thermometer: item no. 1406583 (DN 20) or 1406584 (DN 25)

The different nominal sizes refer to the connection on the system side. The connection on the manifold side is always G 1, matching the G 1 unions nuts of the manifolds. See also chapter "Accessories" further on.

Flow regulation

The flow through the individual heating circuits must be throttled by means of the regulating inserts/flow measuring and regulating devices in the supply to ensure hydronic balancing of the heating circuits connected to the manifold. The set values are determined by a room-by-room heating load calculation, which can be carried out e.g. with the free OVplan design software.

WITH FLOW MEASURING AND REGULATIN DEVICES (ITEM NO. 14063)

Each heating circuit is set by adjusting the flow measuring and regulating devices. The setting range is 0 to 5 litres per minute. During setting, the circulation pump does not have to be in operation and, if necessary, set to constant speed operating mode. The setting should be done before the actuators are mounted. If actuators are already mounted, they should be removed. If this is not possible, make sure that all actuators are in the fully open position.



WITH REGULATING INSERTS (ITEM NO. 14065)

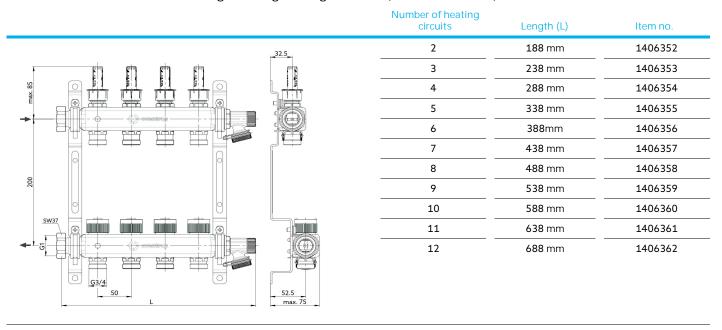
Each heating circuit is set by throttling the regulating inserts. When designing with OVplan, the set values are determined in the calculation and can be adopted directly. The set value is given in counterclockwise turns from the closed position of the regulating insert. Presetting 2 therefore corresponds to two full turns.

Alternatively, the set value can be determined from the pressure loss chart at the end of this data sheet. Flow rate and pressure loss are required to determine the set value. The point of intersection of the two values in the chart corresponds to the preset value. Setting of the regulating inserts can be carried out at any time.

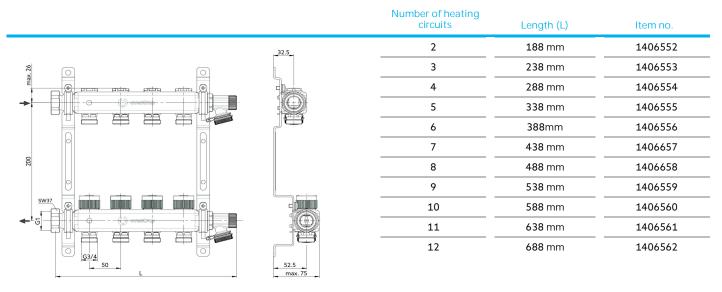


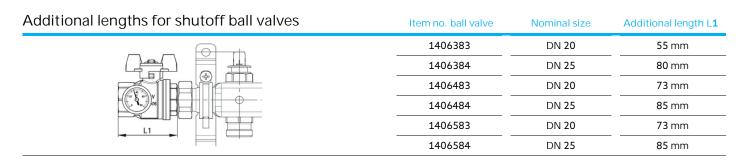
Dimensions and Item Numbers

Multidis SF with flow measuring and regulating devices (item no. 14063)



Multidis SF with regulating inserts (item no. 14065)





Accessories

Ball valves		Size	Suitable for	Item no.
The same	Ball valve, flat sealing, with red	DN 20 : G ¾ x G 1	All Multidis SF	1406383
and the second	T-handle	DN 25: G 1 x G 1	All Multidis SF	1406384
	Ball valve, flat sealing with red	 DN 20: G ¾ x G 1	All Multidis SF	1406483
	T-handle and thermometer	DN 25: G 1 x G 1	All Multidis SF	1406484
	Ball valve, flat sealing, with blue	DN 20: G ¾ x G 1	All Multidis SF	1406583
	T-handle and thermometer	DN 25: G 1 x G 1	All Multidis SF	1406584
urface-mounted cabinet		No.	Inner width	Item no
	Steel, galvanised. Frame and door	No. 1	600 mm	1401171
	white lacquered. Depth surface-mounted element:	No. 2	750 mm	1401172
	160 mm	No. 3	1,000 mm	1401173
10	Height surface-mounted element: 760870 mm	No. 4	1,250 mm	1401174
Flush-mounted cabinet	Steel, galvanised. Frame and door white lacquered. With removable	No. 1	Inner width 560 mm 700 mm	1401151 1401152
	white lacquered. With removable screen.	No. 2	700 mm	1401152
	Depth flush-mounted element: 115180 mm	No. 3	900 mm	1401153
	Height flush-mounted element: 760885 mm	No. 4	1,200 mm	1401154
compression fittings			For pipe	Item no.
	Cofit S compression fitting for C composite pipes and pla	14 x 2 mm	1507934	
C	according to DIN EN 16313, clampi	16 x 2 mm	1507935	
	made of brass, union nut nickel-pla bronze, metal to metal sealir	17 x 2 mm	1507937	
	2-fold for G ¾ externa	18 x 2 mm	1507938	
_		20 x 2 mm	1507939	
	00.14	20 x 2,5 mm	1507940	
	Ofix K compression fitting for according to DIN EN 4726, PE	12 x 2 mm	1016870	
	DIN 16892/16893, PB according to	14 x 2 mm	1016873	
	according to DINI OO	14 v 7 mm		
	according to DIN 80. metal to metal sealing pl		16 x 2 mm	1016874
		us O-Ring	17 x 2 mm	1016876
	metal to metal sealing pl	us O-Ring		

Actuator	Туре	Suitable for	Item no.	
	Aktor T thermal actuator, on/off	1 m	All Multidis SF	1012415
	With fixed cable and stroke position indicator, IP54, 230 V AC	2 m	All Multidis SF	1012452
	Normally closed	5 m	All Multidis SF	1012455
and the second		10 m	All Multidis SF	1012459
lectrical connecting block			Version	Item no.
	6 control zones, hear	230 V / 24 V	1400980	
	10 control zones, heating / coolin	ig (change-over),	230 V	1400981
	pump control		24 V	1400982
	40		1400983	
Electrical connecting blocks	10 control zones, heating / cooling (chaboiler control and integrated boiler control and integrated swith adaptive hydronic ba	time switch	Version	
Electrical connecting blocks		lancing ump control heating		Item no. 1400984
0	boiler control and integrated s with adaptive hydronic ba FloorCon F 200 8 control zones / 12 heating circuit, p	lancing ump control heating), 230 V	Version Without channel	Item no.
	boiler control and integrated S with adaptive hydronic ba FloorCon F 200 8 control zones / 12 heating circuit, p and cooling (change-over	lancing ump control heating), 230 V pump control heating), 230 V	Version Without channel allocation With channel	Item no. 1400984

Item no.

1408038

1408104

1408129

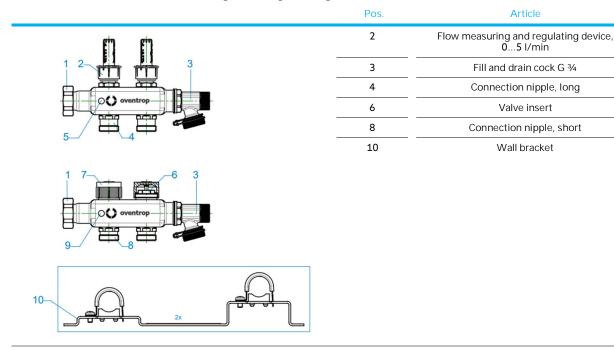
1404091

1408126

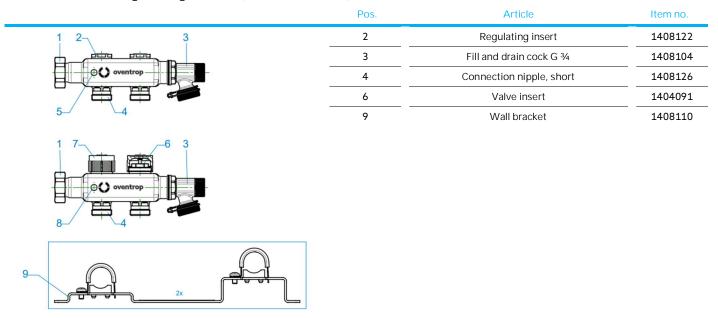
1408110

Spare parts

Multidis SF with flow measuring and regulating devices (item no. 14063)



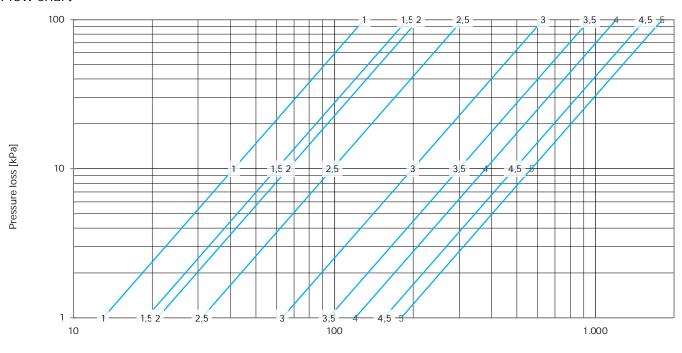
Multidis SF with regulating inserts (item no. 14065)



Design

Multidis SF with regulating inserts (item no. 14065)

Flow chart



Flow rate [I/h]

Kv values

Presetting	1	1,5	2	2,5	3	3,5	4	4,5	5	Kvs
Kv value	0.13	0.19	0.21	0.31	0.63	0.95	1.2	1.55	1.8	1.9

