



Manifold & Manifold Kits

Manifold SSM

Description

The SSM manifold is designed for controlling water flow in underfloor heating systems. Each pipe circuit in the floor heating system is connected to the manifold, enabling individual control of water flow or heat supply to each room in the building.

The manifold consists of a supply manifold and a return manifold. The supply manifold allows individual shut-off of each pipe circuit via a flowmeter or shut-off valve. The return manifold is equipped with a built-in valve, ensuring optimal hydronic balance in the system.

The built-in valves can be controlled by thermal actuators, optionally via a mechanical room sensor. The manifold is available in modules with up to 12 circuits. Ball valves are offered as an option for positive shut-off between the manifold and the system.

Each SSM manifold is supplied with a manual air vent and a 360° swivel drain valve.

Features & benefits

- Built in valve with state of the art visible pre-setting compensates for different lengths of pipe circuits
 - No tools required to do pre-setting
- Stuffing boxes with corrosion resistant pin
- Control valve enables the use of actuators and controls
- No clogging, if no heat, fully open the pre-setting on N and let the dirt pass
- Flowmeter with visual flow indication
- Rotating swivel drain for easy access when draining, filling and flushing
- Lightweight design:
 - Less lead
 - Less water
 - Fewer metals
- Shut-off function allows isolation of individual pipe circuits for service and trouble shooting
- One-piece manifold (air vent and drain integrated) reduces the risk of leakage
- Stainless steel manifold body
 - Less brass
 - Lighter weight, and excellent corrosion resistance
 - Low thermal conductivity - less heat loss

Ordering

Product code numbers

Type	Description	Code number
SSM manifold bundle	SSM Bundle 2+2	088U0652
SSM manifold bundle	SSM Bundle 3+3	088U0653
SSM manifold bundle	SSM Bundle 4+4	088U0654
SSM manifold bundle	SSM Bundle 5+5	088U0655
SSM manifold bundle	SSM Bundle 6+6	088U0656
SSM manifold bundle	SSM Bundle 7+7	088U0657
SSM manifold bundle	SSM Bundle 8+8	088U0658
SSM manifold bundle	SSM Bundle 9+9	088U0659
SSM manifold bundle	SSM Bundle 10+10	088U0660
SSM manifold bundle	SSM Bundle 11+11	088U0661
SSM manifold bundle	SSM Bundle 12+12	088U0662
Manifold SSM-F	SSM manifold 2+2 with flowmeter	088U0752
Manifold SSM-F	SSM manifold 3+3 with flowmeter	088U0753
Manifold SSM-F	SSM manifold 4+4 with flowmeter	088U0754
Manifold SSM-F	SSM manifold 5+5 with flowmeter	088U0755
Manifold SSM-F	SSM manifold 6+6 with flowmeter	088U0756
Manifold SSM-F	SSM manifold 7+7 with flowmeter	088U0757
Manifold SSM-F	SSM manifold 8+8 with flowmeter	088U0758
Manifold SSM-F	SSM manifold 9+9 with flowmeter	088U0759

Manifold SSM-F	SSM manifold 10+10 with flowmeter	088U0760
Manifold SSM-F	SSM manifold 11+11 with flowmeter	088U0761
Manifold SSM-F	SSM manifold 12+12 with flowmeter	088U0762
Manifold SSM	SSM manifold 2+2	088U0802
Manifold SSM	SSM manifold 3+3	088U0803
Manifold SSM	SSM manifold 4+4	088U0804
Manifold SSM	SSM manifold 5+5	088U0805
Manifold SSM	SSM manifold 6+6	088U0806
Manifold SSM	SSM manifold 7+7	088U0807
Manifold SSM	SSM manifold 8+8	088U0808
Manifold SSM	SSM manifold 9+9	088U0809
Manifold SSM	SSM manifold 10+10	088U0810
Manifold SSM	SSM manifold 11+11	088U0811
Manifold SSM	SSM manifold 12+12	088U0812

Accessories code numbers

Compression fittings description

- Compression fittings for PEX tubing in accordance with DIN16893 & DIN 4726.
- Compression fittings for ALUPEX tubing in accordance with DIN16893 & DIN 4726.

Max working pressure: 6 bar

Test pressure: 10 bar

Max. flow temperature: 95 °C

G 3/4" internal thread

Max. flow temperature given by the tube manufacturer must not be exceeded.



088U0822

Ball valve for manifolds, 1"

Ball valve for manifolds, 1"

Related products

088U0752	088U0753	088U0754	088U0755	088U0756	088U0757
088U0758	088U0759	088U0760	088U0761	088U0762	088U0802
088U0803	088U0804	088U0805	088U0806	088U0807	088U0808
088U0809	088U0810	088U0811	088U0812	088U0932	088U0933
088U0934	088U0935	088U0936	088U0937	088U0938	088U0939
088U0940	088U0941	088U0942			



088U0595

Manifold bracket for cabinet

Manifold bracket for cabinet

Related products

088U0752	088U0753	088U0754	088U0755	088U0756	088U0757
088U0758	088U0759	088U0760	088U0761	088U0762	088U0802
088U0803	088U0804	088U0805	088U0806	088U0807	088U0808
088U0809	088U0810	088U0811	088U0812	088U0932	088U0933
088U0934	088U0935	088U0936	088U0937	088U0938	088U0939
088U0940	088U0941	088U0942			



088U0585

Mounting Brackets

Mounting Brackets

Related products

- 088U0752
- 088U0753
- 088U0754
- 088U0755
- 088U0756
- 088U0757
- 088U0758
- 088U0759
- 088U0760
- 088U0761
- 088U0762
- 088U0802
- 088U0803
- 088U0804
- 088U0805
- 088U0806
- 088U0807
- 088U0808
- 088U0809
- 088U0810
- 088U0811
- 088U0812
- 088U0932
- 088U0933
- 088U0934
- 088U0935
- 088U0936
- 088U0937
- 088U0938
- 088U0939
- 088U0940
- 088U0941
- 088U0942



088U0029

Thermometer 0-60°C Ø35mm

Thermometer 0-60°C Ø35mm

Related products

- 088U0752
- 088U0753
- 088U0754
- 088U0755
- 088U0756
- 088U0757
- 088U0758
- 088U0759
- 088U0760
- 088U0761
- 088U0762
- 088U0802
- 088U0803
- 088U0804
- 088U0805
- 088U0806
- 088U0807
- 088U0808
- 088U0809
- 088U0810
- 088U0811
- 088U0812
- 088U0932
- 088U0933
- 088U0934
- 088U0935
- 088U0936
- 088U0937
- 088U0938
- 088U0939
- 088U0940
- 088U0941
- 088U0942



088U0824

**Insulation capsule for
SSM/SSM-F manifolds**

Insulation capsule for SSM/SSM-F
manifolds

Related products

- 088U0652
- 088U0653
- 088U0654
- 088U0655
- 088U0656
- 088U0657
- 088U0658
- 088U0659
- 088U0660
- 088U0661
- 088U0662
- 088U0752
- 088U0753
- 088U0754
- 088U0755
- 088U0756
- 088U0757
- 088U0758
- 088U0759
- 088U0760
- 088U0761
- 088U0762
- 088U0802
- 088U0803
- 088U0804
- 088U0805
- 088U0806
- 088U0807
- 088U0808
- 088U0809
- 088U0810
- 088U0811
- 088U0812
- 088U0932
- 088U0933
- 088U0934
- 088U0935
- 088U0936
- 088U0937
- 088U0938
- 088U0939
- 088U0940
- 088U0941
- 088U0942



088U0583

Connection Piece

Connection Piece

Related products

- 088U0652
- 088U0653
- 088U0654
- 088U0655
- 088U0656
- 088U0657
- 088U0658
- 088U0659
- 088U0660
- 088U0661
- 088U0662
- 088U0752
- 088U0753
- 088U0754
- 088U0755
- 088U0756
- 088U0757
- 088U0758
- 088U0759
- 088U0760
- 088U0761
- 088U0762
- 088U0802
- 088U0803
- 088U0804
- 088U0805
- 088U0806
- 088U0807
- 088U0808
- 088U0809
- 088U0810
- 088U0811
- 088U0812
- 088U0932
- 088U0933
- 088U0934
- 088U0935
- 088U0936
- 088U0937
- 088U0938
- 088U0939
- 088U0940
- 088U0941
- 088U0942



088U0820

Manifold union nut, 1"

Manifold union nut, 1"

Related products

- 088U0752
- 088U0753
- 088U0754
- 088U0755
- 088U0756
- 088U0757
- 088U0758
- 088U0759
- 088U0760
- 088U0761
- 088U0762
- 088U0802
- 088U0803
- 088U0804
- 088U0805
- 088U0806
- 088U0807
- 088U0808
- 088U0809
- 088U0810
- 088U0811
- 088U0812
- 088U0932
- 088U0933
- 088U0934
- 088U0935
- 088U0936
- 088U0937
- 088U0938
- 088U0939
- 088U0940
- 088U0941
- 088U0942



088U0584

Reducing Bush

Reducing Bush

Related products

- 088U0652
- 088U0653
- 088U0654
- 088U0655
- 088U0656
- 088U0657
- 088U0658
- 088U0659
- 088U0660
- 088U0661
- 088U0662
- 088U0752
- 088U0753
- 088U0754
- 088U0755
- 088U0756
- 088U0757
- 088U0758
- 088U0759
- 088U0760
- 088U0761
- 088U0762
- 088U0802
- 088U0803
- 088U0804
- 088U0805
- 088U0806
- 088U0807
- 088U0808
- 088U0809
- 088U0810
- 088U0811
- 088U0812
- 088U0932
- 088U0933
- 088U0934
- 088U0935
- 088U0936
- 088U0937
- 088U0938
- 088U0939
- 088U0940
- 088U0941
- 088U0942



088U0945

Automatic air ventilation valve

Automatic air ventilation valve

Related products

- 088U0652
- 088U0653
- 088U0654
- 088U0655
- 088U0656
- 088U0657
- 088U0658
- 088U0659
- 088U0660
- 088U0661
- 088U0662
- 088U0752
- 088U0753
- 088U0754
- 088U0755
- 088U0756
- 088U0757
- 088U0758
- 088U0759
- 088U0760
- 088U0761
- 088U0762
- 088U0802
- 088U0803
- 088U0804
- 088U0805
- 088U0806
- 088U0807
- 088U0808
- 088U0809
- 088U0810
- 088U0811
- 088U0812



088H3110

Thermal actuators, TWA-A, RA, Supply voltage [V] AC: 24, NC, 0.95 m

TWA-A NC 24V

Related products

- 088U0652
- 088U0653
- 088U0654
- 088U0655
- 088U0656
- 088U0657
- 088U0658
- 088U0659
- 088U0660
- 088U0661
- 088U0662
- 088U0752
- 088U0753
- 088U0754
- 088U0755
- 088U0756
- 088U0757
- 088U0758
- 088U0759
- 088U0760
- 088U0761
- 088U0762
- 088U0802
- 088U0803
- 088U0804
- 088U0805
- 088U0806
- 088U0807
- 088U0808
- 088U0809
- 088U0810
- 088U0811
- 088U0812



088H3112

Thermal actuators, TWA-A, RA, Supply voltage [V] AC: 230, NC, 0.95 m

TWA-A NC 230V

Related products

- 088U0652
- 088U0653
- 088U0654
- 088U0655
- 088U0656
- 088U0657
- 088U0658
- 088U0659
- 088U0660
- 088U0661
- 088U0662
- 088U0752
- 088U0753
- 088U0754
- 088U0755
- 088U0756
- 088U0757
- 088U0758
- 088U0759
- 088U0760
- 088U0761
- 088U0762
- 088U0802
- 088U0803
- 088U0804
- 088U0805
- 088U0806
- 088U0807
- 088U0808
- 088U0809
- 088U0810
- 088U0811
- 088U0812



013G4156

FH Pipes, Fittings, Compression fitting, Connection size: 3/4", Connection diameter side 1 [mm]: 16, Connection diameter side 2 [mm]: 0

PEX fittings for pipe 16 x 2 mm

Related products

- 088U0752
- 088U0753
- 088U0754
- 088U0755
- 088U0756
- 088U0757
- 088U0758
- 088U0759
- 088U0760
- 088U0761
- 088U0762
- 088U0802
- 088U0803
- 088U0804
- 088U0805
- 088U0806
- 088U0807
- 088U0808
- 088U0809
- 088U0810
- 088U0811
- 088U0812



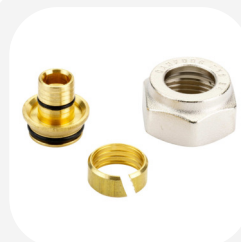
013G4160

**FH Pipes, Fittings,
Compression fitting,
Connection size: 3/4",
Connection diameter side 1
[mm]: 20, Connection
diameter side 2 [mm]: 0**

PEX fittings for pipe 20 x 2 mm

Related products

088U0752	088U0753	088U0754	088U0755	088U0756	088U0757
088U0758	088U0759	088U0760	088U0761	088U0762	088U0802
088U0803	088U0804	088U0805	088U0806	088U0807	088U0808
088U0809	088U0810	088U0811	088U0812		



013G4163

**Compression fittings for PEX
plastic tubings, G 3/4",
16x2.2, Nickel plated**

PEX fittings for pipe 16 x 2,2 mm

Related products

088U0752	088U0753	088U0754	088U0755	088U0756	088U0757
088U0758	088U0759	088U0760	088U0761	088U0762	088U0802
088U0803	088U0804	088U0805	088U0806	088U0807	088U0808
088U0809	088U0810	088U0811	088U0812		



013G4191

**Compression fittings for
Alupex tubings, G 3/4",
20x2.5, Nickel plated**

Alupex fittings for pipe 20 x 2.5 mm

Related products

088U0752	088U0753	088U0754	088U0755	088U0756	088U0757
088U0758	088U0759	088U0760	088U0761	088U0762	088U0802
088U0803	088U0804	088U0805	088U0806	088U0807	088U0808
088U0809	088U0810	088U0811	088U0812		



013G4188

**Compression fittings for
Alupex tubings, G 3/4", 18x2,
Nickel plated**

Alupex fittings for pipe 18 x 2 mm

Related products

088U0752	088U0753	088U0754	088U0755	088U0756	088U0757
088U0758	088U0759	088U0760	088U0761	088U0762	088U0802
088U0803	088U0804	088U0805	088U0806	088U0807	088U0808
088U0809	088U0810	088U0811	088U0812		



013G4159

**Compression fittings for PEX
plastic tubings, G 3/4",
18x2.5, Nickel plated**

PEX fittings for pipe 18 x 2.5 mm

Related products

088U0752	088U0753	088U0754	088U0755	088U0756	088U0757
088U0758	088U0759	088U0760	088U0761	088U0762	088U0802
088U0803	088U0804	088U0805	088U0806	088U0807	088U0808
088U0809	088U0810	088U0811	088U0812		



013G4190

**Compression fittings for
Alupex tubings, G 3/4", 20x2,
Nickel plated**

Alupex fittings for pipe 20 x 2 mm

Related products

088U0752	088U0753	088U0754	088U0755	088U0756	088U0757
088U0758	088U0759	088U0760	088U0761	088U0762	088U0802
088U0803	088U0804	088U0805	088U0806	088U0807	088U0808
088U0809	088U0810	088U0811	088U0812		



013G4162

Compression fittings for PEX plastic tubings, G 3/4", 17x2, Nickel plated

PEX fittings for pipe 17 x 2 mm

Related products

088U0752	088U0753	088U0754	088U0755	088U0756	088U0757
088U0758	088U0759	088U0760	088U0761	088U0762	088U0802
088U0803	088U0804	088U0805	088U0806	088U0807	088U0808
088U0809	088U0810	088U0811	088U0812		



013G4187

Compression fittings for Alupex tubings, G 3/4", 16x2.25, Nickel plated

Alupex fittings for pipe 16 x 2.25 mm

Related products

088U0752	088U0753	088U0754	088U0755	088U0756	088U0757
088U0758	088U0759	088U0760	088U0761	088U0762	088U0802
088U0803	088U0804	088U0805	088U0806	088U0807	088U0808
088U0809	088U0810	088U0811	088U0812		



013G4184

Compression fittings for Alupex tubings, G 3/4", 14x2, Nickel plated

Alupex fittings for pipe 14 x 2 mm

Related products

088U0752	088U0753	088U0754	088U0755	088U0756	088U0757
088U0758	088U0759	088U0760	088U0761	088U0762	088U0802
088U0803	088U0804	088U0805	088U0806	088U0807	088U0808
088U0809	088U0810	088U0811	088U0812		



013G4186

FH Pipes, Fittings, Compression fitting, Connection size: 3/4", Connection diameter side 1 [mm]: 16, Connection diameter side 2 [mm]: 0

Alupex fittings 3/4" x 16 x 2 mm

Related products

088U0752	088U0753	088U0754	088U0755	088U0756	088U0757
088U0758	088U0759	088U0760	088U0761	088U0762	088U0802
088U0803	088U0804	088U0805	088U0806	088U0807	088U0808
088U0809	088U0810	088U0811	088U0812		



013G4158

Compression fittings for PEX plastic tubings, G 3/4", 18x2, Nickel plated

PEX fittings for pipe 18 x 2 mm

Related products

088U0752	088U0753	088U0754	088U0755	088U0756	088U0757
088U0758	088U0759	088U0760	088U0761	088U0762	088U0802
088U0803	088U0804	088U0805	088U0806	088U0807	088U0808
088U0809	088U0810	088U0811	088U0812		



013G4152

Compression fittings for PEX plastic tubings, G 3/4", 12x2, Nickel plated

PEX fittings for pipe 13 x 2 mm

Related products

088U0752	088U0753	088U0754	088U0755	088U0756	088U0757
088U0758	088U0759	088U0760	088U0761	088U0762	088U0802
088U0803	088U0804	088U0805	088U0806	088U0807	088U0808
088U0809	088U0810	088U0811	088U0812		



013G4093

**FH Pipes, Fittings,
Compression fitting,
Connection size: 3/4",
Connection diameter side 1
[mm]: 20, Connection
diameter side 2 [mm]: 0**

Alupex fitting G3/4" x 20 x 2.25/2.3
mm

Related products

088U0752	088U0753	088U0754	088U0755	088U0756	088U0757
088U0758	088U0759	088U0760	088U0761	088U0762	088U0802
088U0803	088U0804	088U0805	088U0806	088U0807	088U0808
088U0809	088U0810	088U0811	088U0812		



013G4157

**Compression fittings for PEX
plastic tubings, G 3/4",
16x1.5, Nickel plated**

PEX fittings for pipe 16 x 1.5 mm

Related products

088U0752	088U0753	088U0754	088U0755	088U0756	088U0757
088U0758	088U0759	088U0760	088U0761	088U0762	088U0802
088U0803	088U0804	088U0805	088U0806	088U0807	088U0808
088U0809	088U0810	088U0811	088U0812		



013G4155

**Compression fittings for PEX
plastic tubings, G 3/4",
15x2.5, Nickel plated**

PEX fittings for pipe 15 x 2.5 mm

Related products

088U0752	088U0753	088U0754	088U0755	088U0756	088U0757
088U0758	088U0759	088U0760	088U0761	088U0762	088U0802
088U0803	088U0804	088U0805	088U0806	088U0807	088U0808
088U0809	088U0810	088U0811	088U0812		



088U0596

Mounting Brackets

Mounting Brackets

Related products

088U0752	088U0753	088U0754	088U0755	088U0756	088U0757
088U0758	088U0759	088U0760	088U0761	088U0762	088U0802
088U0803	088U0804	088U0805	088U0806	088U0807	088U0808
088U0809	088U0810	088U0811	088U0812		



013G4154

**Compression fittings for PEX
plastic tubings, G 3/4", 14x2,
Nickel plated**

PEX fittings for pipe 14 x 2 mm

Related products

088U0752	088U0753	088U0754	088U0755	088U0756	088U0757
088U0758	088U0759	088U0760	088U0761	088U0762	088U0802
088U0803	088U0804	088U0805	088U0806	088U0807	088U0808
088U0809	088U0810	088U0811	088U0812		



013G4161

**Compression fittings for PEX
plastic tubings, G 3/4",
20x2.5, Nickel plated**

PEX fittings for pipe 20 x 2.5 mm

Related products

088U0752	088U0753	088U0754	088U0755	088U0756	088U0757
088U0758	088U0759	088U0760	088U0761	088U0762	088U0802
088U0803	088U0804	088U0805	088U0806	088U0807	088U0808
088U0809	088U0810	088U0811	088U0812		

Spare parts code numbers



088U0819

Replacement flowmeter for FHF & SSM manifolds

Replacement flowmeter for FHF & SSM manifolds

Related products

- 088U0752
- 088U0753
- 088U0754
- 088U0755
- 088U0756
- 088U0757
- 088U0758
- 088U0759
- 088U0760
- 088U0761
- 088U0762
- 088U0932
- 088U0933
- 088U0934
- 088U0935
- 088U0936
- 088U0937
- 088U0938
- 088U0939
- 088U0940
- 088U0941
- 088U0942



013G7376

Service built-in valve for manifold

Service built-in valve for manifold

Related products

- 088U0652
- 088U0653
- 088U0654
- 088U0655
- 088U0656
- 088U0657
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013G0554

RA-C, DN 15, External Thread

Stuffing box, RA-C

Related products

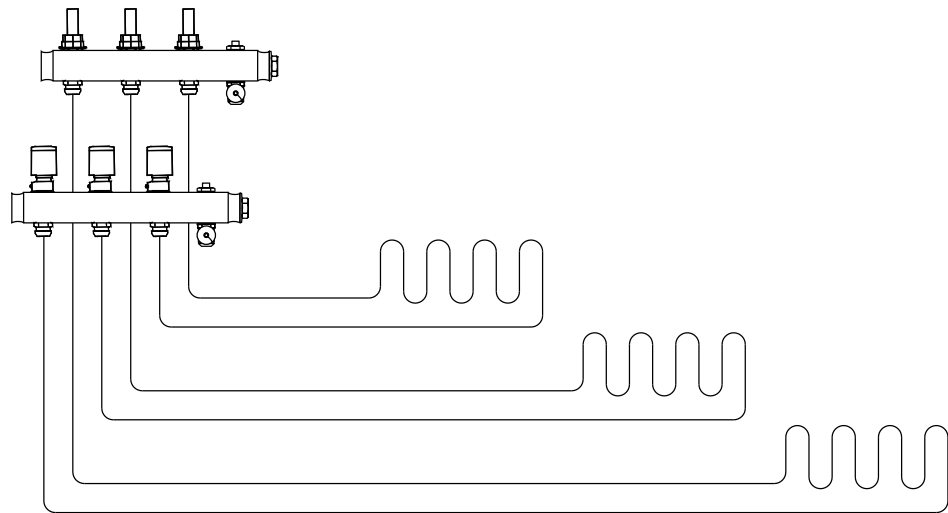
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Overview

System architecture

Figure: System layout



Functions

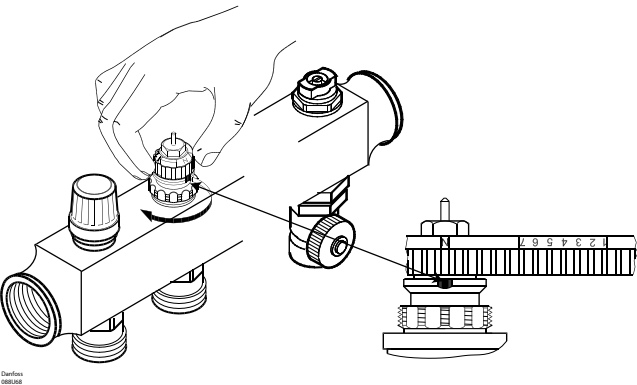
Operation

	Supply manifold with flowmeter	Supply manifold without flowmeter
Max differential pressure	0.6 bar	0.6 bar
Max working pressure	6 bar	10 bar
Max test pressure	10 bar	16 bar
Max flow temperature	60 °C	90 °C

Presettings

Pre-setting

The diagram shows the capacities for each heating circuit at different pre-settings of the manifold valves. Based on the below calculations and capacity diagram, each manifold valve is preset by rotating the red ring until the correct value on the ring aligns with the sight mark on the built-in valve.





Product details

Capacity

Capacity/commissioning

The pre-setting of the manifold valves determines the flow in the floor heating pipe circuits and is therefore an important factor in achieving optimal hydronic balance in the system.

A correct hydronic balance is essential for ensuring optimal comfort with minimum energy consumption, and can be easily achieved by following the example shown below.

Example:

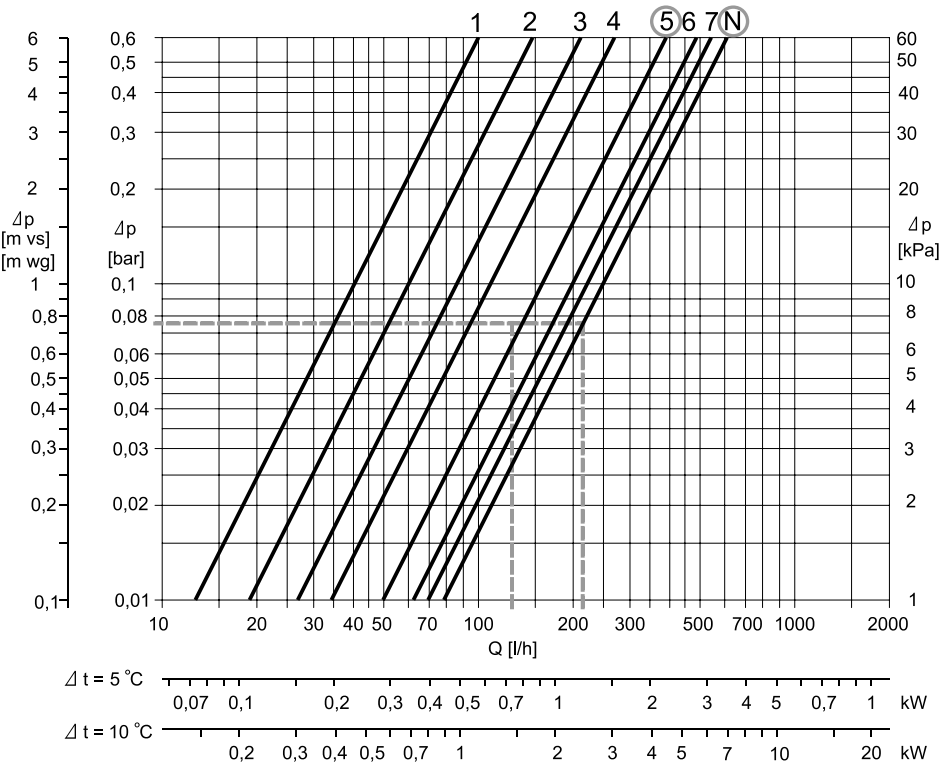
Room 1:	1. Determine the longest pipe circuit, largest room	25 m ²
	2. Desired ΔT	5 °C (typical)
	3. Determine the heat loss for the room	50 W/m ²
	4. Conversion factor	1.16
	5. Calculation of flow for the room	$Q(l/h) = \frac{50\text{ W/m}^2 \times 25\text{ m}^2}{5^\circ\text{C} \times 1.16} = 216\text{ l/h}$
Room 2:	6. Determine area for the next room	15 m ²
	7. Calculation of flow for the room (ΔT and heat loss are assumed to be identical for all rooms in this case)	$Q(l/h) = \frac{50\text{ W/m}^2 \times 15\text{ m}^2}{5^\circ\text{C} \times 1.16} = 129\text{ l/h}$

Manifold, with flowmeter

Pre-setting:

Room 1 → N

Room 2 → 5

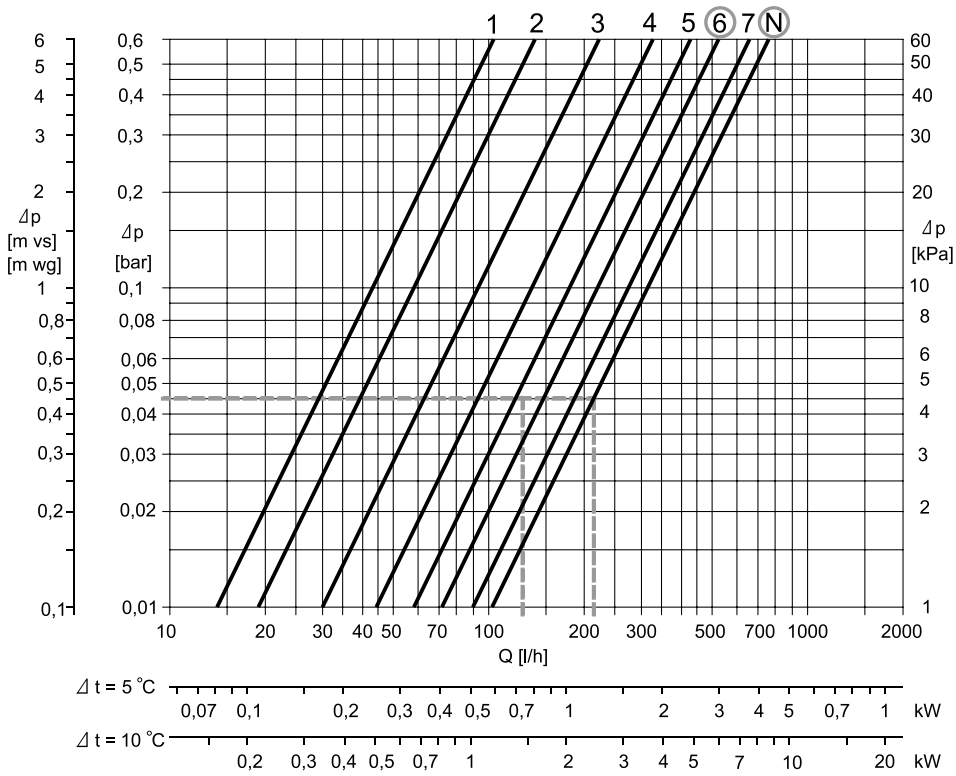


Manifold, without flowmeter

Pre-setting:

Room 1 → N

Room 2 → 6



Dimensions

All dimensions are in mm

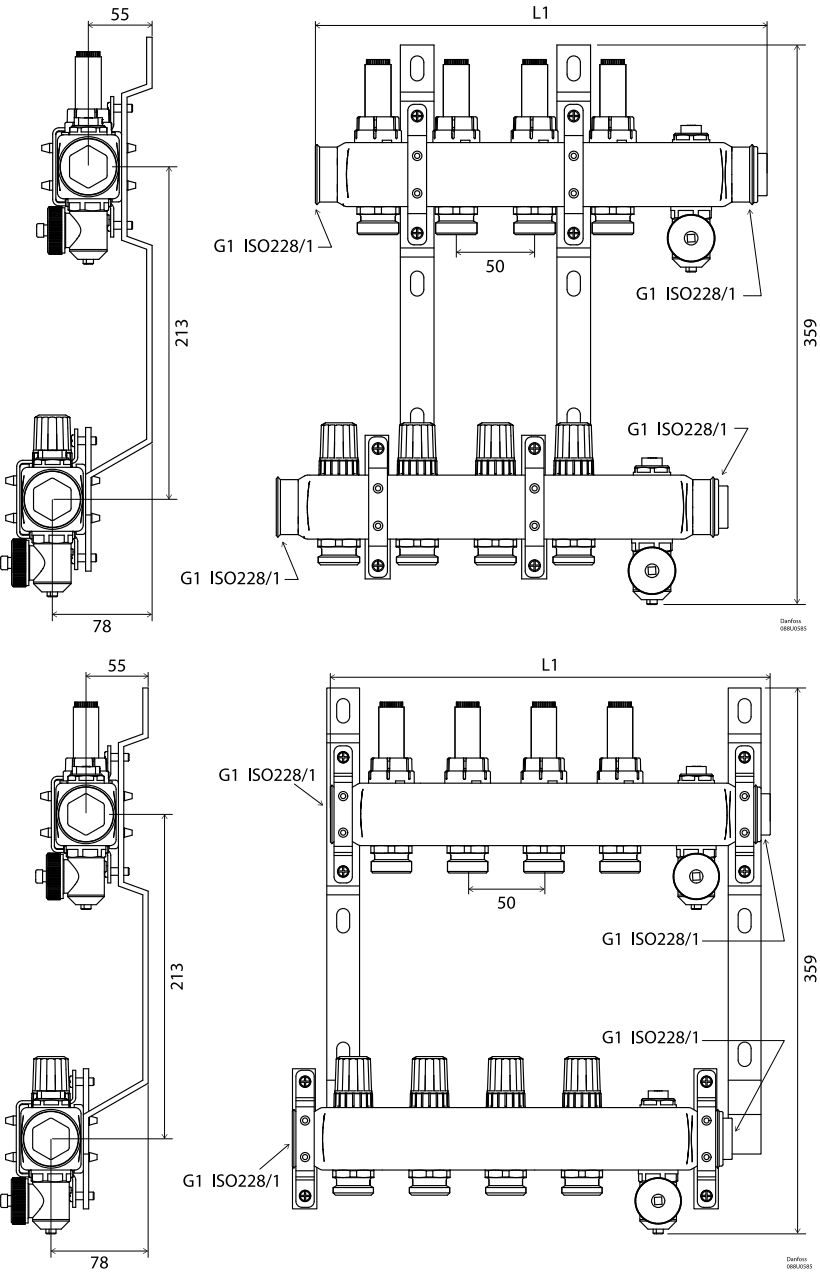


Table: with 088U0585 brackets set

Type	2+2	3+3	4+4	5+5	6+6	7+7	8+8	9+9	10+10	11+11	12+12
L1 (mm)	190	240	290	340	390	440	490	540	590	640	690

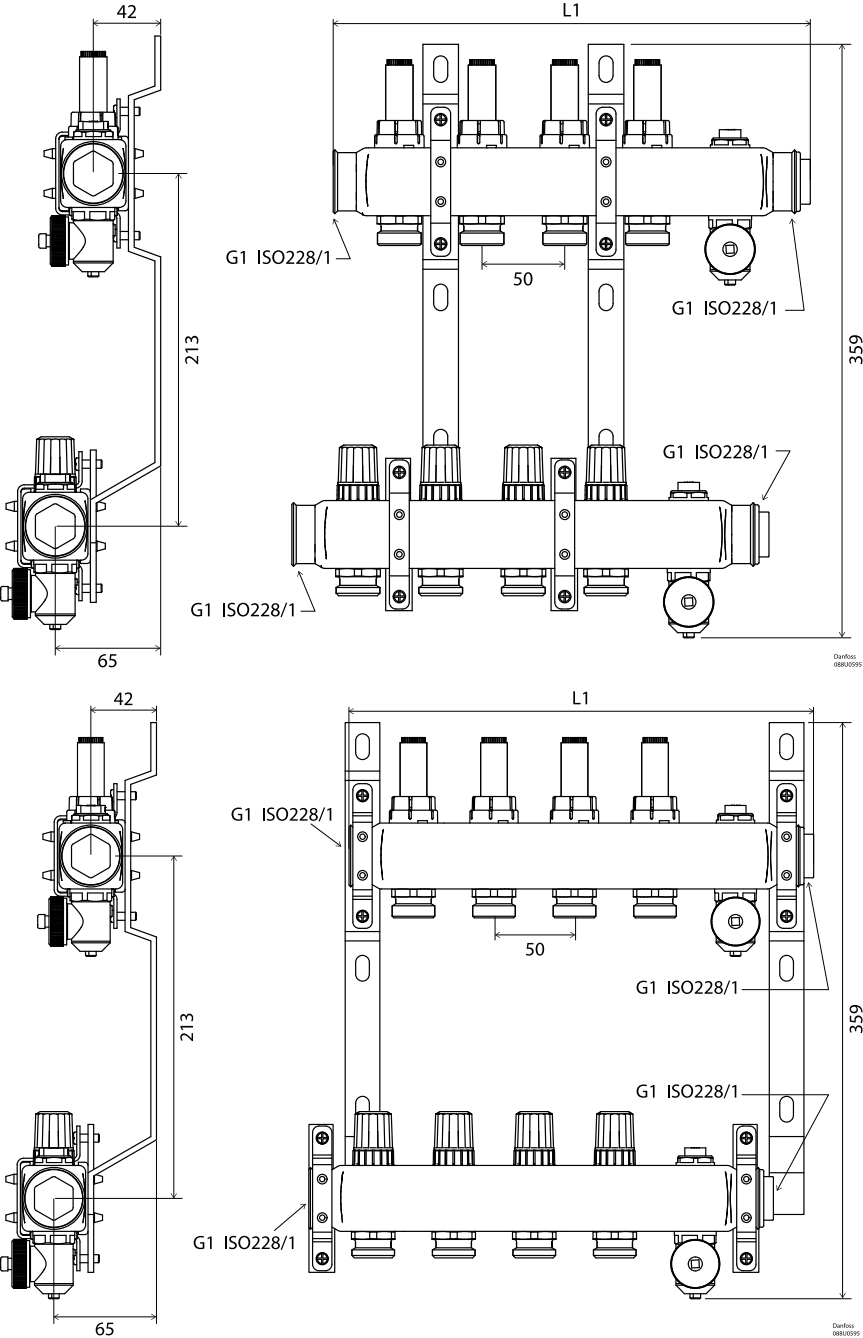


Table: with 088U0595 brackets set

Type	2+2	3+3	4+4	5+5	6+6	7+7	8+8	9+9	10+10	11+11	12+12
L1 (mm)	190	240	290	340	390	440	490	540	590	640	690

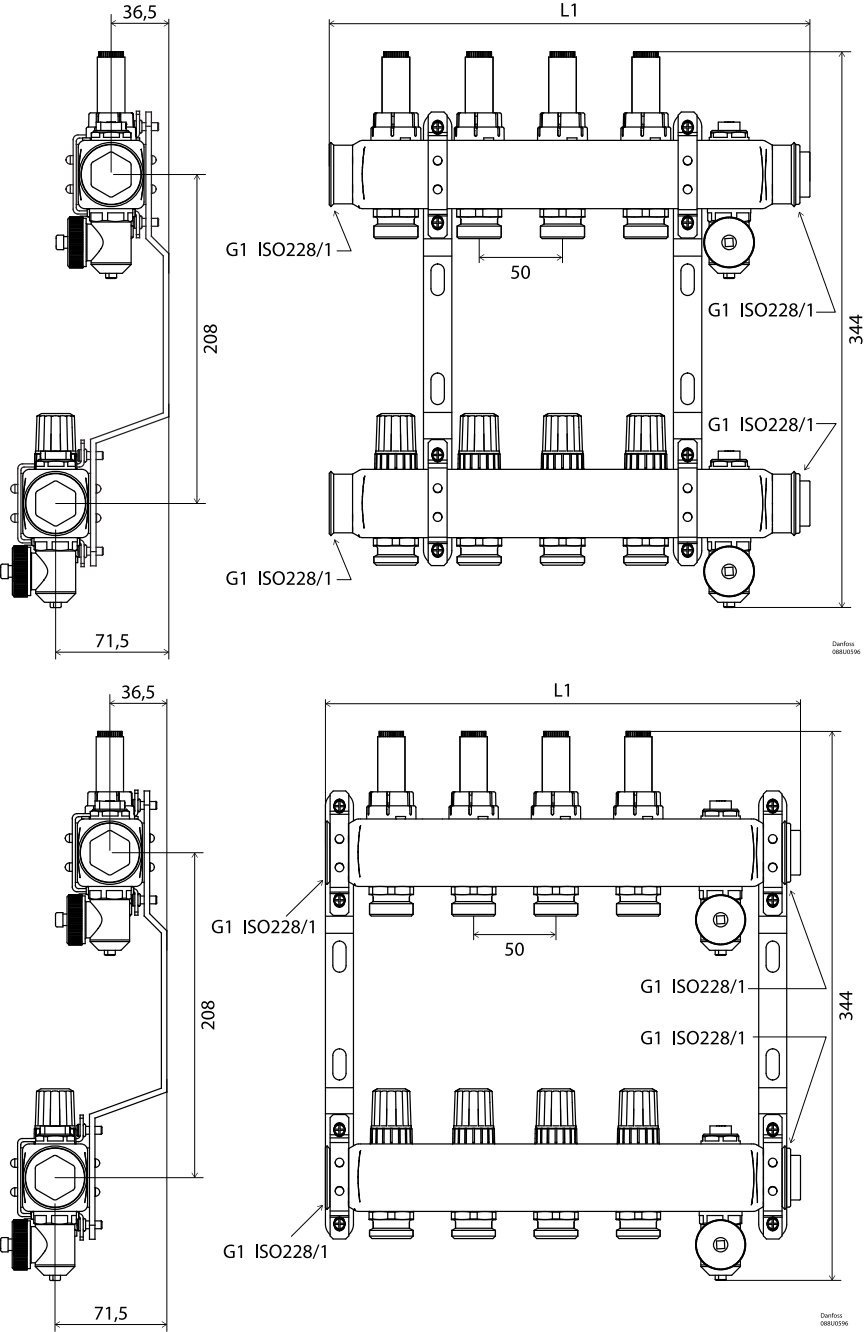


Table: with 088U0596 brackets set

Type	2+2	3+3	4+4	5+5	6+6	7+7	8+8	9+9	10+10	11+11	12+12
L1 (mm)	190	240	290	340	390	440	490	540	590	640	690



SSM bundle dimensional drawing

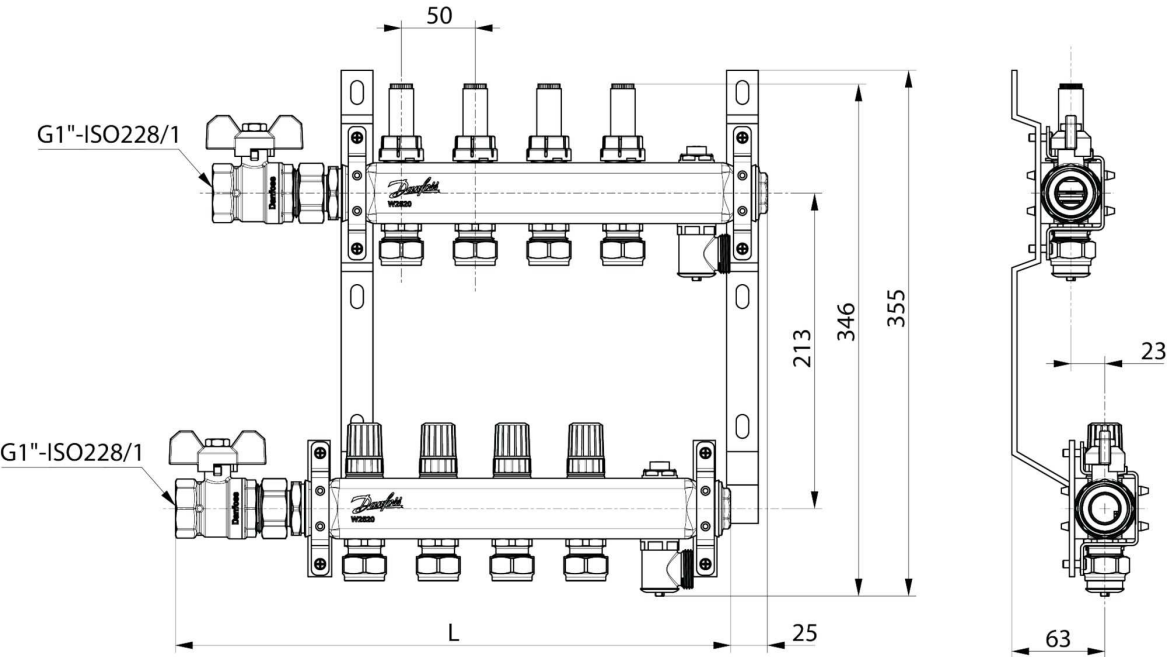
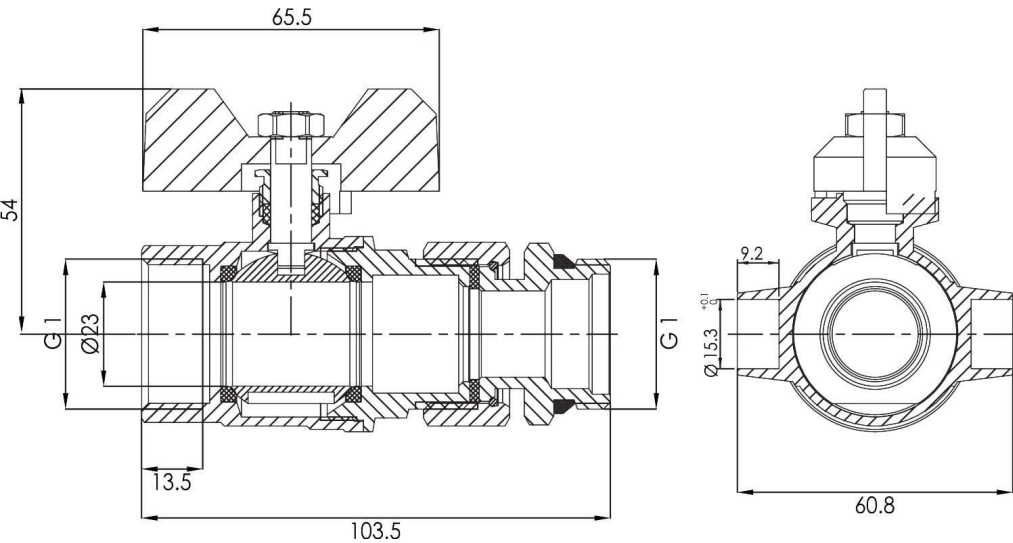


Table: with 088U0585 brackets set

Type	2+2	3+3	4+4	5+5	6+6	7+7	8+8	9+9	10+10	11+11	12+12
L (mm)	276	326	376	426	476	526	576	626	676	726	776

Ball valve dimensional drawing



Certificates, declarations and approvals

The list contains all certificates, declarations, and approvals for this product type. Individual code number may have some or all of these approvals, and certain local approvals may not appear on the list.

When you click on the link you will be directed to the latest version of the 'Declaration of Conformity'. Products developed and sold before this date of issue conform to the directives/standards in force at the time of their sale.

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Manufacturer's Declaration	Danfoss MD BF356751118147en-000101.01	Danfoss	
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