



# 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.



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



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



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



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




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 |          |          |          |          |




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 |          |          |          |



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 |          |          |




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 |          |          |




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 |          |          |



**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



**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



**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



**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




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 |          |          |



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 |          |          |




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 |          |          |          |




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 |          |          |




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 |          |          |




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 |          |          |




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 |          |          |




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 |          |          |



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 |          |          |




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 |          |          |          |



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 |          |          |

**Spare parts code numbers**




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 |          |          |          |




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 |          |          |



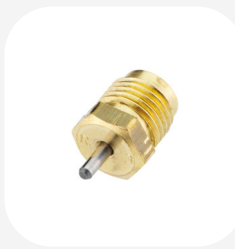
013G7376

**Service built-in valve for manifold**

Service built-in valve for manifold

Related products

|          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|
| 088U0652 | 088U0653 | 088U0654 | 088U0655 | 088U0656 | 088U0657 |
| 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 |          |          |          |          |



013G0554

**RA-C, DN 15, External Thread**

Stuffing box, RA-C

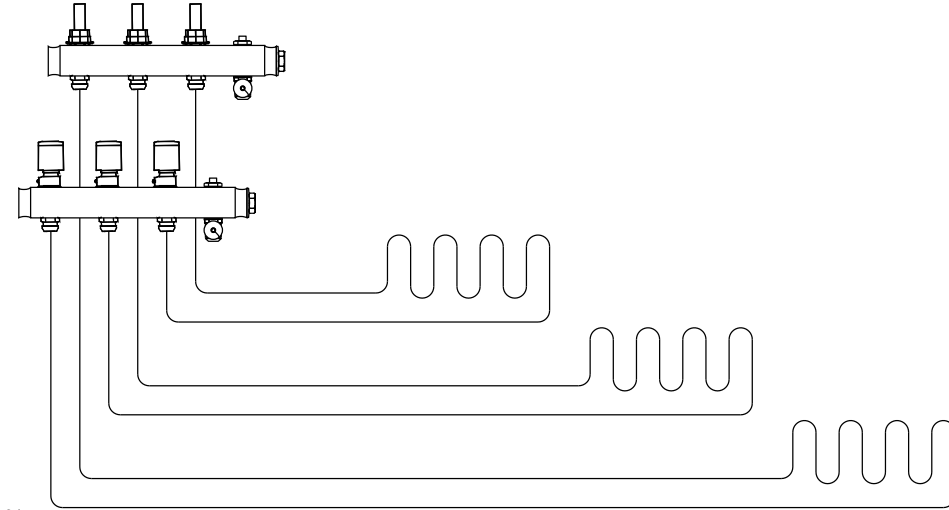
Related products

|          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|
| 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 |          |          |          |

## Overview

### System architecture

Figure: System layout



## Functions

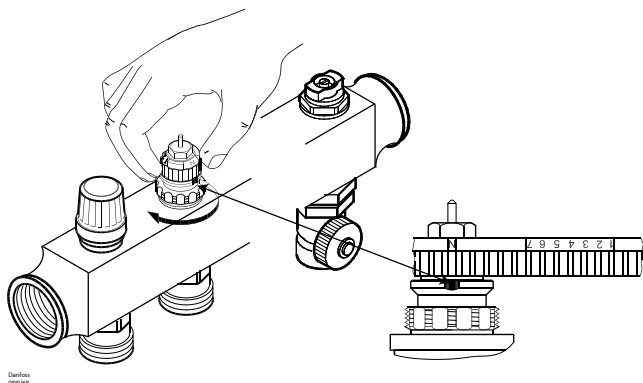
### Operation

|                                   | 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                             |
| Suitable for radiator application | No                             | Yes                               |

### 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:

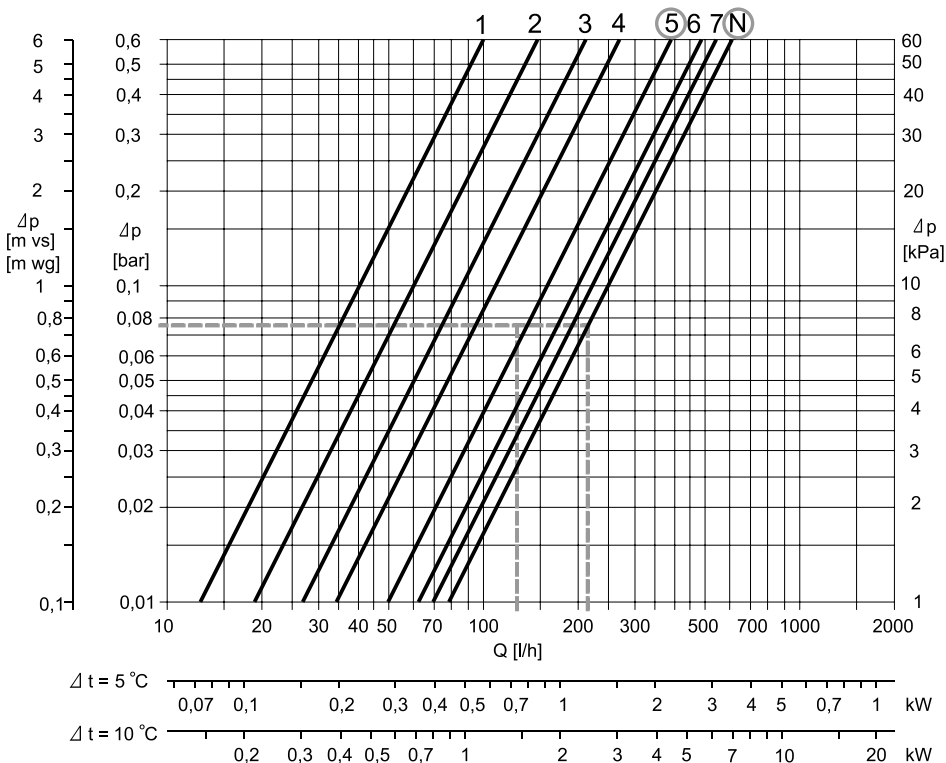
|         |  |   |
|---------|--|---|
| Room 1: | 1. Determine the longest pipe circuit, largest room  | 25 m <sup>2</sup>   |
|         | 2. Desired ΔT  | 5 °C (typical)  |
|         | 3. Determine the heat loss for the room  | 50 W/m <sup>2</sup>   |
|         | 4. Conversion factor   | 1.16  |
| 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

#### Manifold, with flowmeter

Pre-setting:

Room 1 → N

Room 2 → 5



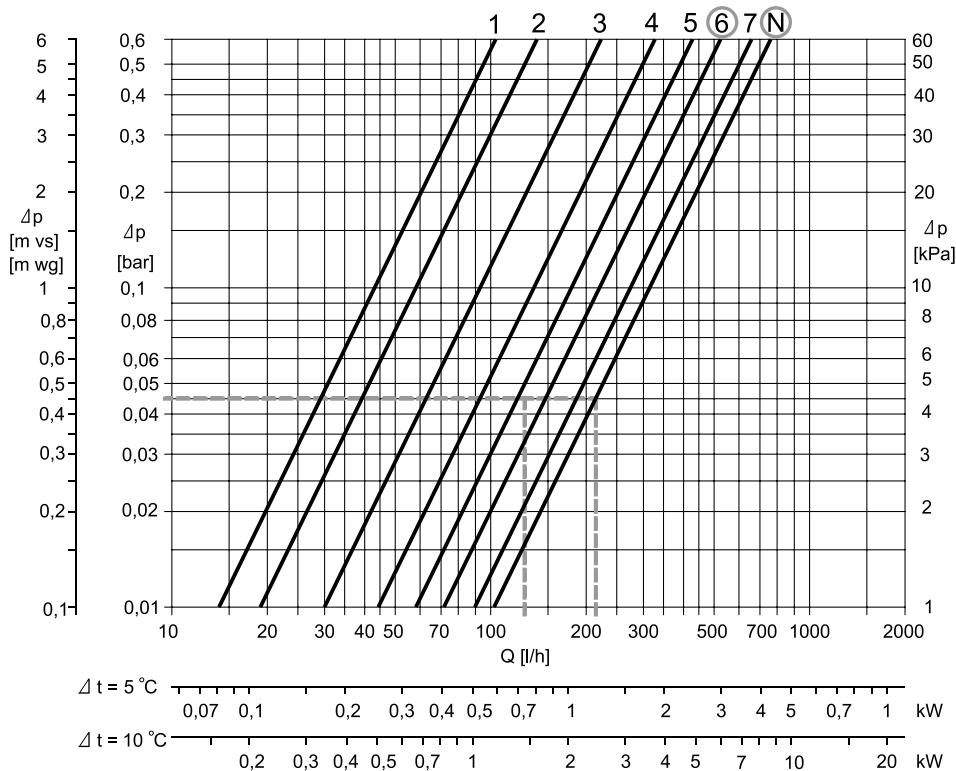


**Manifold, without flowmeter**

Pre-setting:

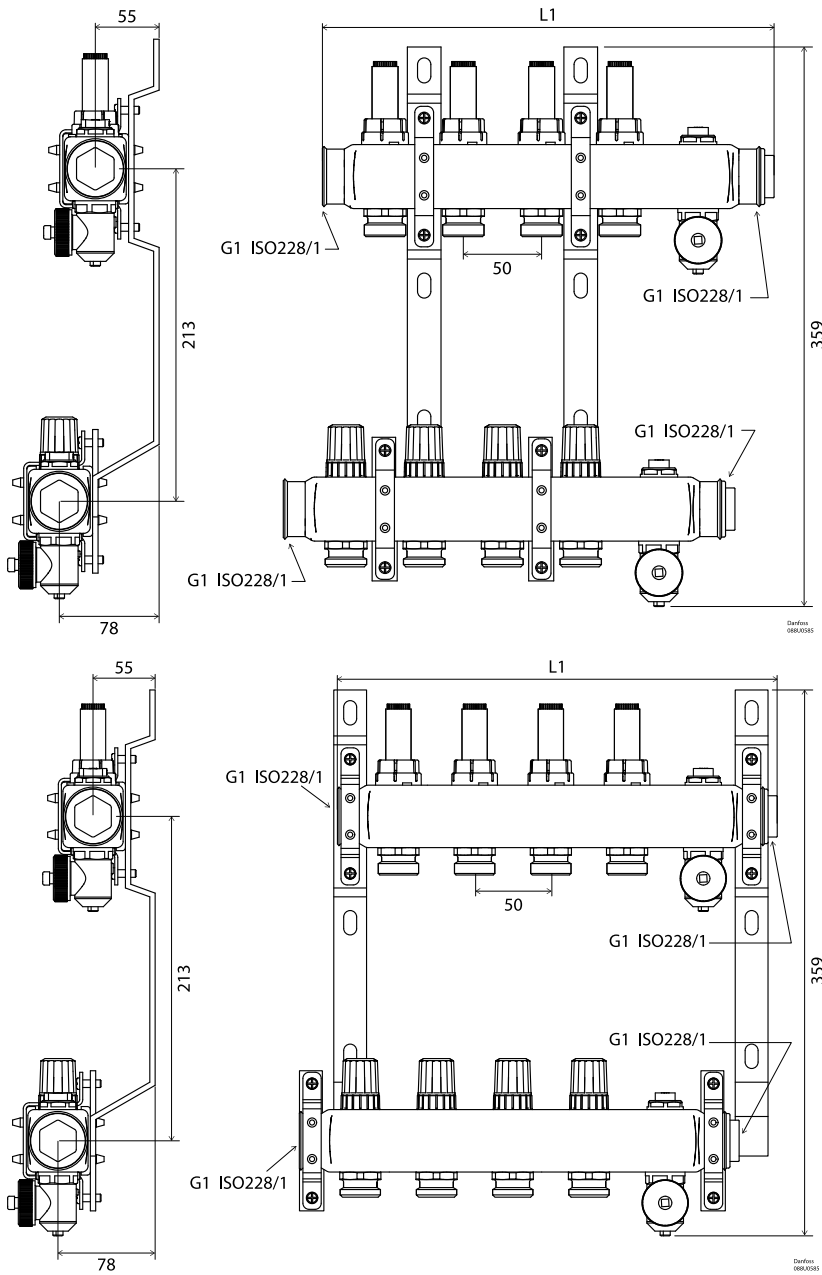
Room 1 → N

Room 2 → 6



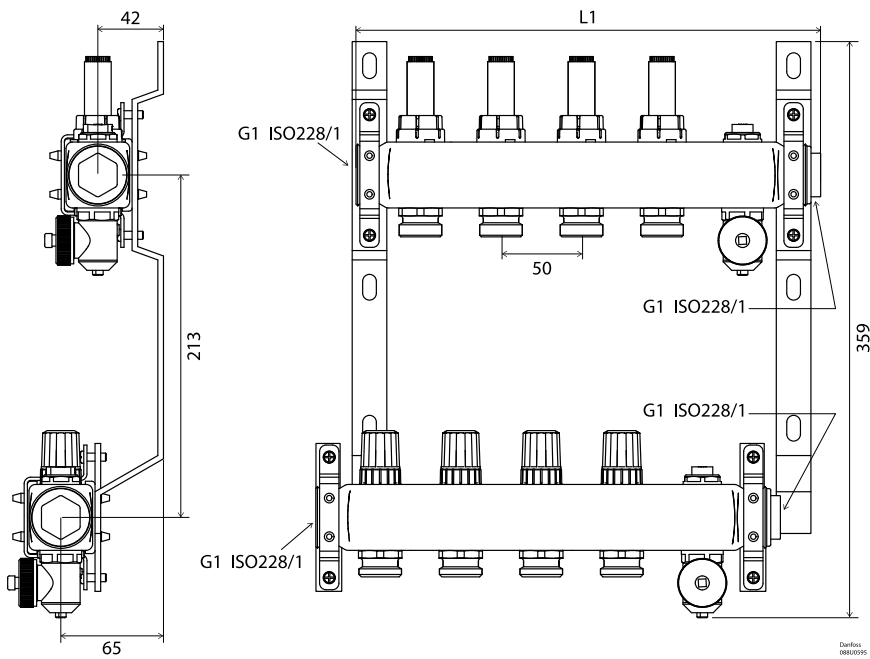
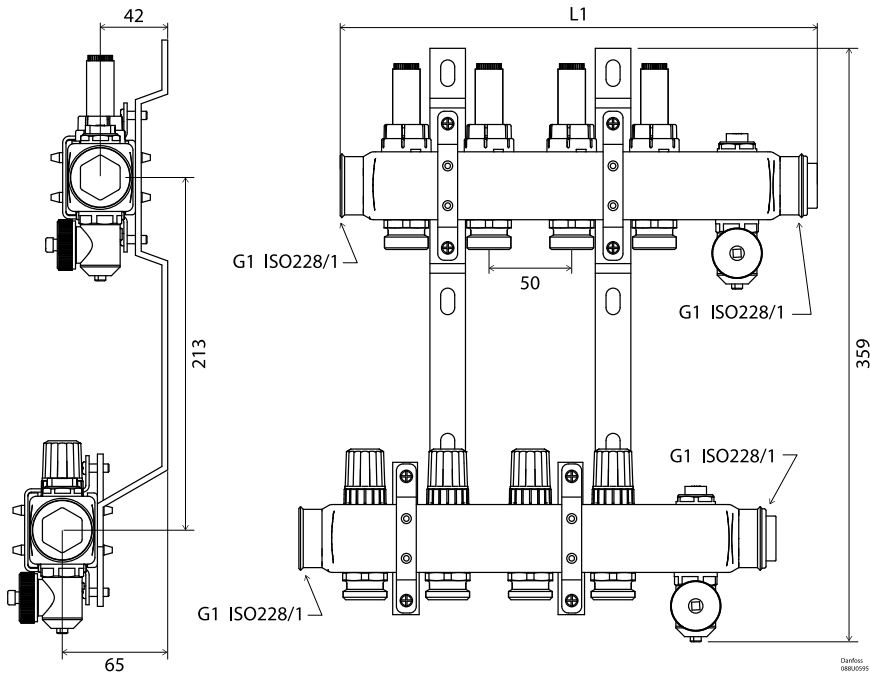
## Dimensions

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   |

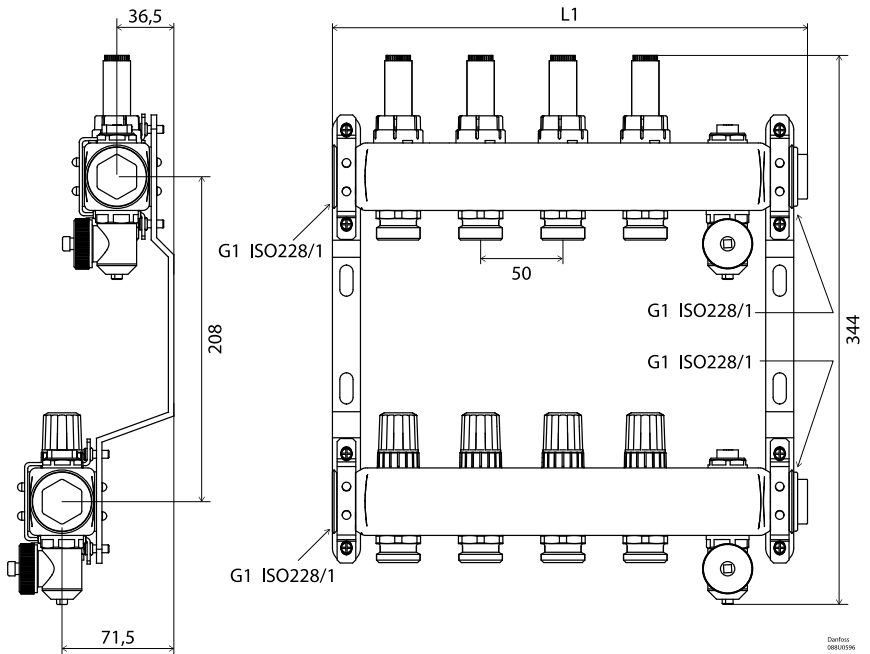
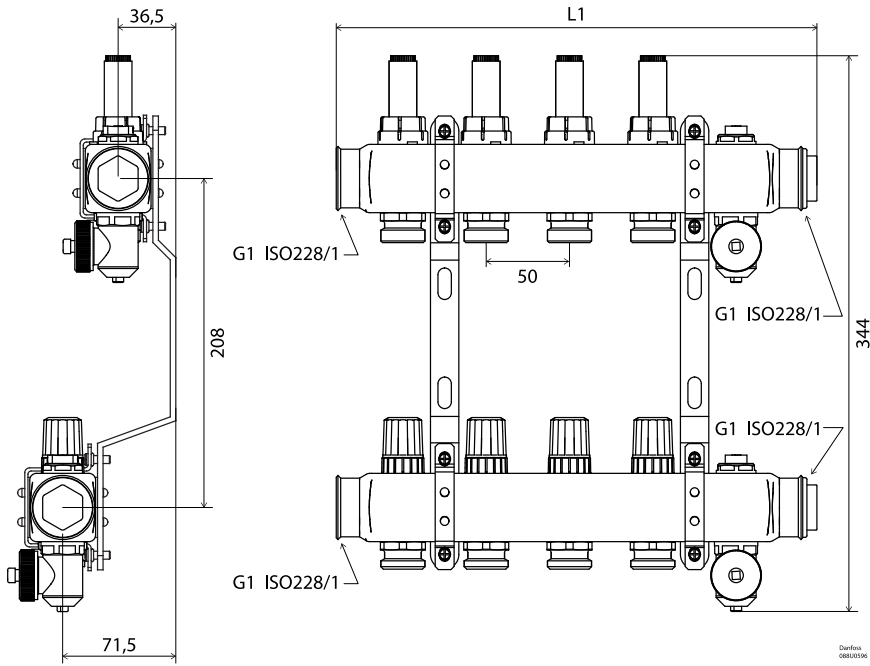
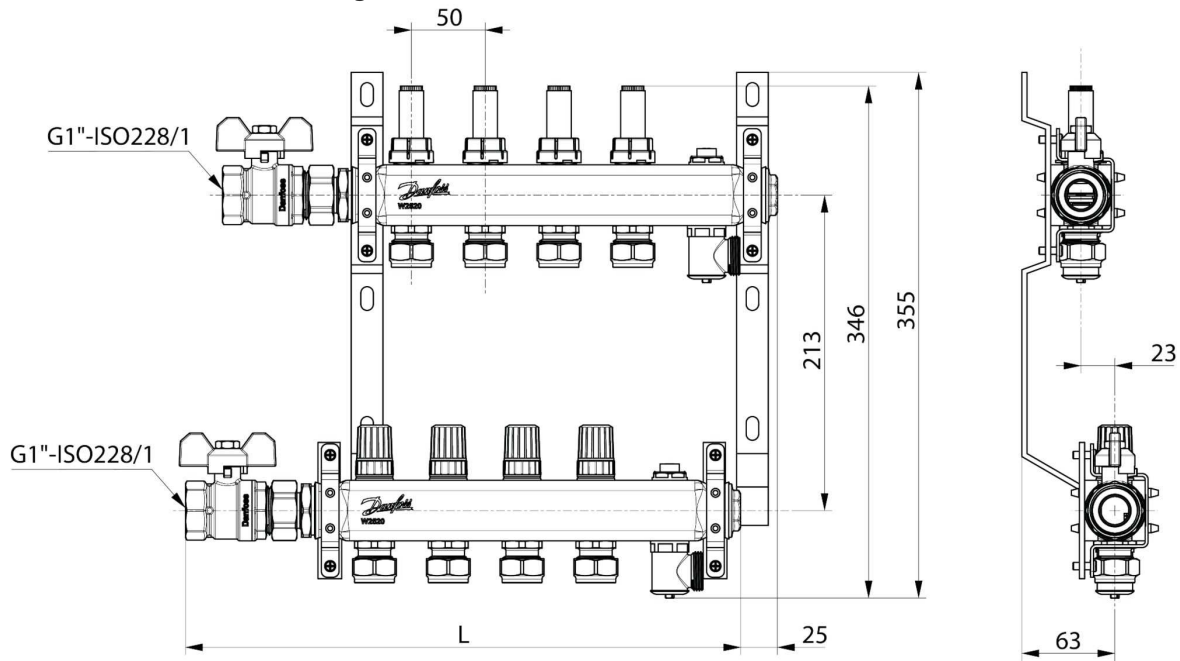


Table: with 088U0596 brackets set

| 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   |

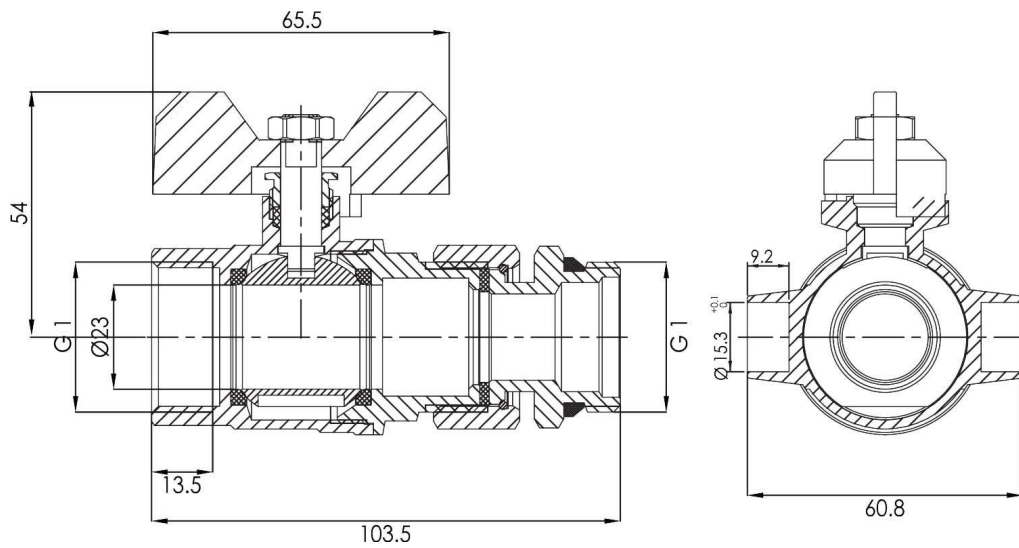
**SSM bundle dimensional drawing**



**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.

| Approval type              | Title  | Certification body           | Approval topic   |
|----------------------------|--|------------------------------|------------------|
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| UA Declaration             | <a href="#">Danfoss UA 2023-01-23 MTC</a><br><a href="#">ASV RA FH RAX PL03 PL28</a> | Danfoss                      | PED, Pressure    |
| Manufacturer's Declaration | <a href="#">Danfoss MD</a><br><a href="#">BF356929191197en-000101.02</a>             | Danfoss                      | EU RoHS, UK RoHS |
| Manufacturer's Declaration | <a href="#">Danfoss MD</a><br><a href="#">BF356751118147en-000101.01</a>             | Danfoss                      |                  |
| EAC Declaration            | <a href="#">EAC KZ 7100841.13.12.03599</a>   | EAC - Eurasian Customs Union | MD               |

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