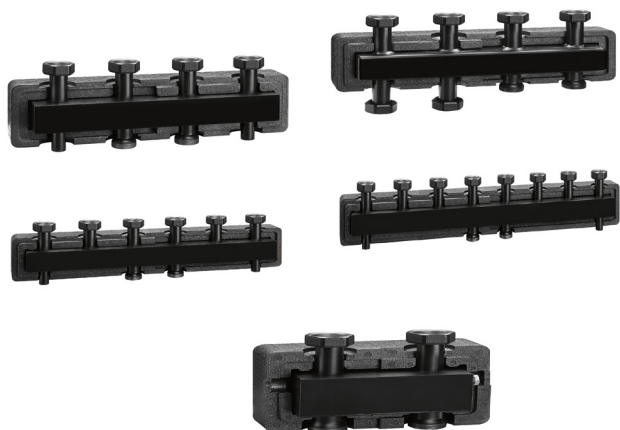


Compact manifolds

550 series



Function

The compact manifolds are used in heating systems to allow different heat settings in the various rooms when there is only one heat generator.

The various configurations are compact, and can be easily fitted in any kind of hydraulic circuit, with the advantages of ease of installation and a saving of useful living space. The manifolds have pre-formed shell insulation to guarantee perfect thermal insulation.

Product range

Code 550220	Manifold for heating system 2	main fittings 1 1/2" M; outlets: 1 1/2" F with nut (centre distance 125 mm)
Code 550230	Manifold for heating system 3	main fittings 1 1/2" M; outlets: 1 1/2" F with nut (centre distance 125 mm)
Code 550240	Manifold for heating system 4	main fittings 1 1/2" M; outlets: 1 1/2" F with nut (centre distance 125 mm)
Code 550221	Manifold for heating system 2+1	main fittings 1 1/2" M; outlets: 1 1/2" F with nut (centre distance 125 mm)
Code 550205	Hydraulic separator	main fittings 1 1/2" M; outlets: 1 1/2" F with nut (centre distance 125 mm)

Technical specifications

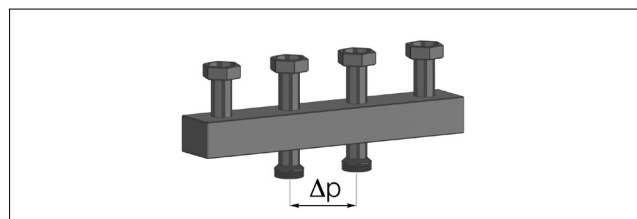
Materials

Body:	painting steel
Max. working pressure:	6 bar
Working temperature range:	5–110 °C
Medium:	water; non-hazardous glycol solutions
Main connections:	1 1/2" M (ISO 228-1)
Outlets:	1 1/2" F with captive nut (ISO 228-1)
Centre distance:	125 mm

Technical specifications of insulation

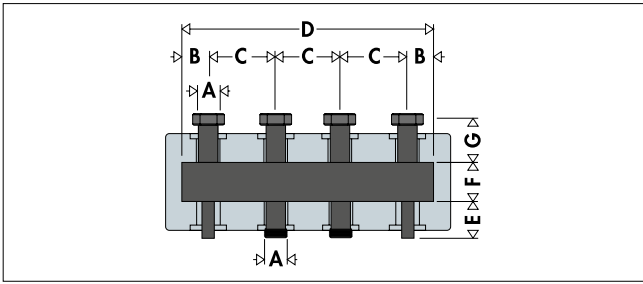
Material:	Closed cell expanded PEX
Thickness:	30 mm
Density:	45 kg/m ³
Thermal conductivity	0,037 W/(m·K) at 10 °C
Reaction to fire (UL94):	class HBF

Hydraulic characteristics

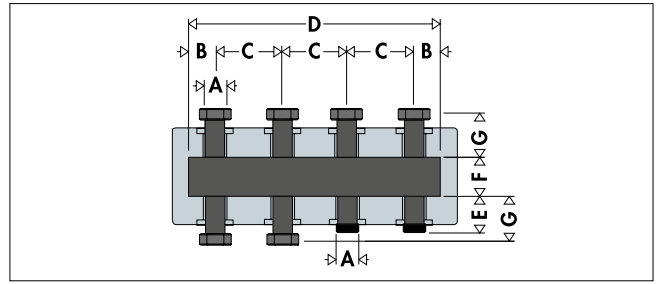


The pressure drop values indicated correspond to a condition of even flow rate distribution across the outlets.

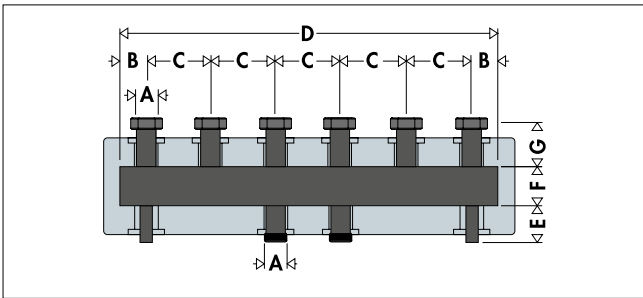
Dimensions



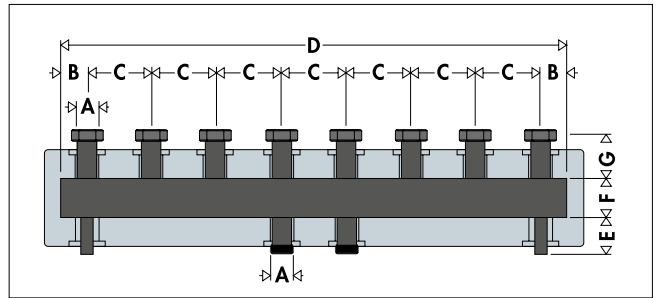
Code	A	B	C	D
550220	1 1/2"	50	125	475
E	F	G	Volume (l)	Mass (kg)
50	60	67,5	2,5	7,29



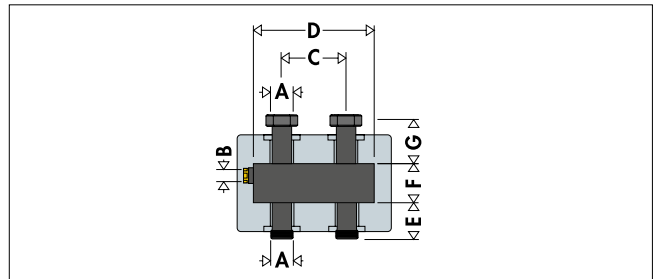
Code	A	B	C	D
550221	1 1/2"	50	125	475
E	F	G	Volume (l)	Mass (kg)
50	60	75	2,5	8,43



Code	A	B	C	D
550230	1 1/2"	50	125	725
E	F	G	Volume (l)	Mass (kg)
50	60	67,5	3,5	8,43

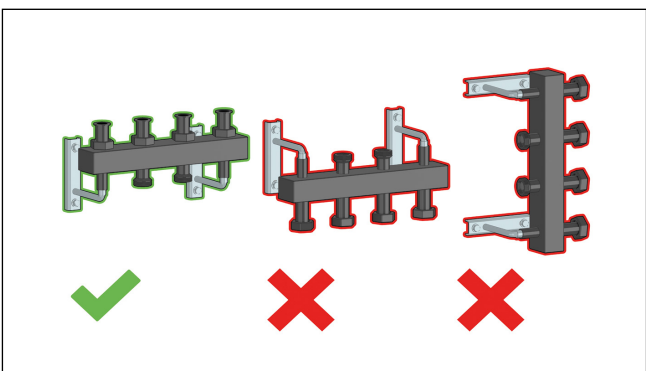


Code	A	B	C	D
550240	1 1/2"	50	125	975
E	F	G	Volume (l)	Mass (kg)
50	60	67,5	5	11,87



Code	A	B	C	D
550205	1 1/2"	1/2"	125	210
E	F	G	Volume (l)	Mass (kg)
42	60	67,5	1,2	6,23

Installation

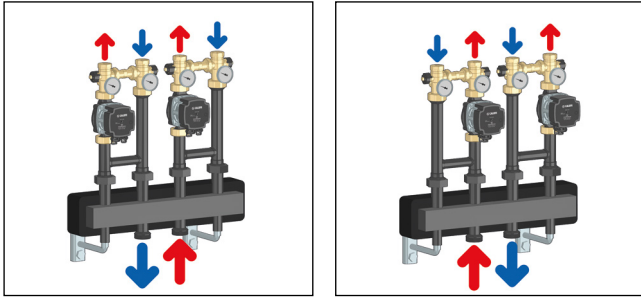


The centre distance of 125 mm makes it compatible with 165 series distribution units, 166 series thermostatic regulation units and 167 series motorised units.

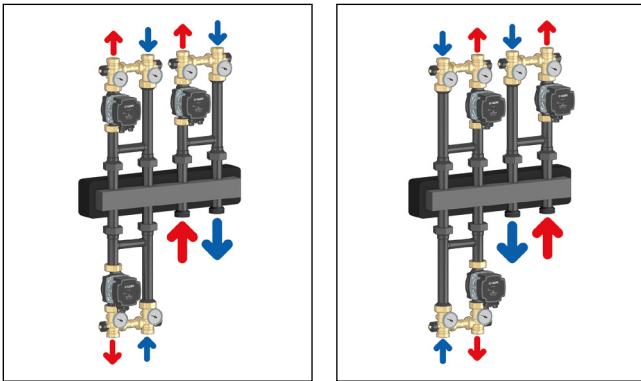
550 series manifolds can be installed horizontally, but not upside down. They cannot be installed vertically.

550 series manifolds must be installed according to the diagrams shown, with attention to the flow and return pipe connections, for both the main connections and outlets with captive nuts.

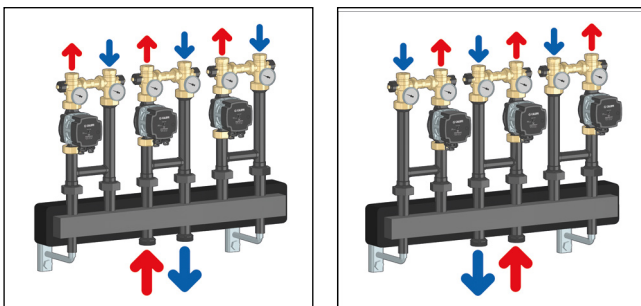
Code 550220



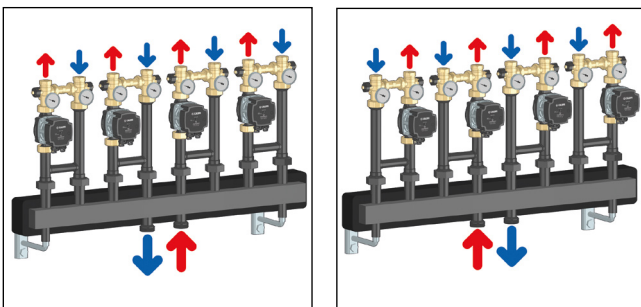
Code 550221



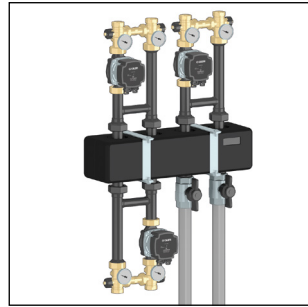
Code 550230



Code 550240

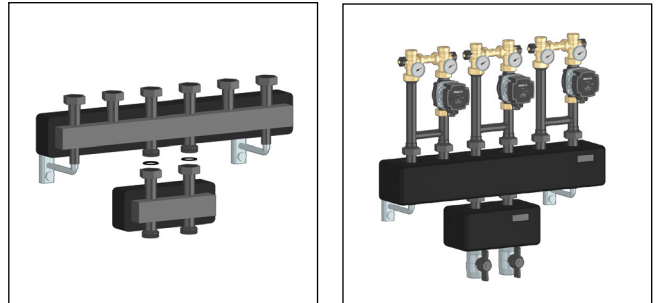


550 series manifolds have steel brackets for easy wall mounting.

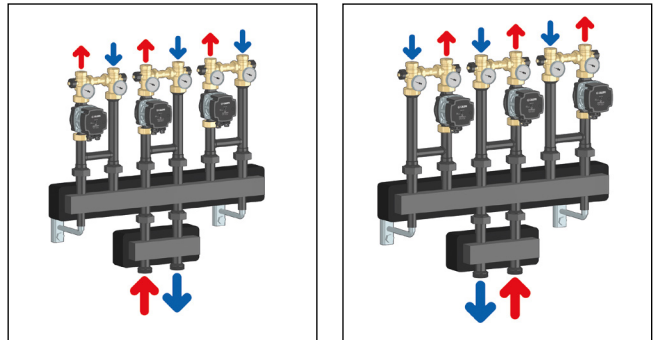


Installation of hydraulic separator code 550205 (optional)

If there is a circulator on the primary circuit, it is possible to install the hydraulic separator code 550205 to make the main circuit independent from the secondary circuit.



When installing the hydraulic separator, it is essential to comply with the flow direction shown in the figures below



Accessories



559

Pair of plugs with seal for not used outlets.

Code

559001 1 1/2" M



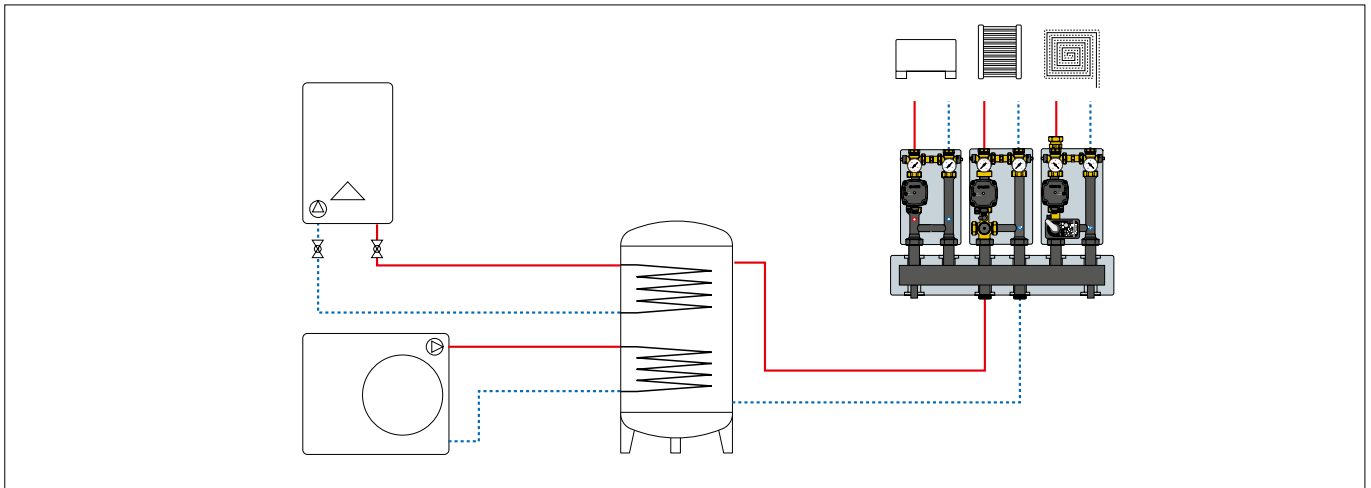
559

Pair of fittings with seal.

Code

559002 1 1/2" M x 1" M

Application diagram



SPECIFICATION SUMMARY

Code 550220

Compact manifold for heating systems with 2 outlets. Painted steel body. Main connections 1 1/2" M, centre distance 125 mm. Outlet connections 1 1/2" F with nut, centre distance 125 mm. Medium water and glycol solutions, maximum percentage of glycol 30 %. Maximum working pressure 6 bar. Working temperature range 5–110 °C. Insulation made of closed-cell expanded PEX, thickness 30 mm, density 45 kg/m³. Steel brackets.

Code 550230

Compact manifold for heating systems with 3 outlets. Painted steel body. Main connections 1 1/2" M, centre distance 125 mm. Outlet connections 1 1/2" F with nut, centre distance 125 mm. Medium water and glycol solutions, maximum percentage of glycol 30 %. Maximum working pressure 6 bar. Working temperature range 5–110 °C. Insulation made of closed-cell expanded PEX, thickness 30 mm, density 45 kg/m³. Steel brackets.

Code 550240

Compact manifold for heating systems with 4 outlets. Painted steel body. Main connections 1 1/2" M, centre distance 125 mm. Outlet connections 1 1/2" F with nut, centre distance 125 mm. Medium water and glycol solutions, maximum percentage of glycol 30 %. Maximum working pressure 6 bar. Working temperature range 5–110 °C. Insulation made of closed-cell expanded PEX, thickness 30 mm, density 45 kg/m³. Steel brackets.

Code 550221

Compact manifold for heating systems with 2+1 outlets. Painted steel body. Main connections 1 1/2" M, centre distance 125 mm. Outlet connections 1 1/2" F with nut, centre distance 125 mm. Medium water and glycol solutions, maximum percentage of glycol 30 %. Maximum working pressure 6 bar. Working temperature range 5–110 °C. Insulation made of closed-cell expanded PEX, thickness 30 mm, density 45 kg/m³. Steel brackets.

Code 550205

Hydraulic separator for heating systems, painted steel body. Main connections 1 1/2" M, centre distance 125 mm. Outlet connections 1 1/2" F with nut, centre distance 125 mm. Medium water and glycol solutions, maximum percentage of glycol 30 %. Maximum working pressure 6 bar. Working temperature range 5–110 °C. Insulation made of closed-cell expanded PEX, thickness 30 mm, density 45 kg/m³. Steel brackets.

Code 559001

Pair of plugs with seal for not used outlets. Size 1 1/2" M.

Code 559002

Pair of fittings with seal. Size 1 1/2" M x 1" M.

We reserve the right to make changes and improvements to the products and related data in this publication, at any time and without prior notice.