

"START" MANIFOLDS



"START" (Main module)

Chrome-plated, multi-purpose, modular, flanged manifold for water distribution and heating systems. Manual regulation. Female thread on both sides. Complete with plug, regulating valve, blue/red double-sided disc and disc with numeric references for circuit identification.



"START" (Linking module- 100 mm centre line between ports)

Chrome-plated, multi-purpose, modular, flanged manifold for water distribution and heating systems. Manual regulation. Female thread on one side only and double steel screw for flange connection. Complete with plug, regulating valve, blue/red double-sided disc and disc with numeric references for circuit identification.



"START" (Linking module- 200 mm centre line between ports)

Chrome-plated, multi-purpose, modular, flanged manifold for water distribution and heating systems. Manual regulation. Female thread on one side only and double steel screw for flange connection. Complete with plug, regulating valve, blue/red double-sided disc and disc with numeric references for circuit identification.

1. DESCRIPTION

The Start modular manifold is manufactured from CR dezincification resistant brass. Outlets are provided with a regulating valve and 2 reversible silkscreen printed discs for circuit identification and numbering.

Available sizes:

- 1"1/4 with 1/2" connections,
- 1"1/2 with 1/2" or 3/4" connections,
- 2" with 1" connections.

The Start manifold is suitable for installation in domestic services, heating and cooling systems.

The FAR range comprises a main module and 2 linking modules: with 100 mm or 200 mm centre lines between ports - depending on system requirements. The linking module with a 100 mm centre line between ports is generally ideal for zone valves or water meter installations. The unit with a 200 mm centre line between ports is mainly used for pumps installed in parallel, as shown in the following illustrations.



Start with pumps



Start with zone valves



Start with water meters

Installation components for Start manifolds



Art. 3877

Flanged extension for manifolds with 100 mm centre line between ports.



Art. 3452

Chrome-plated intermediate connection.



Art. 4150

Chrome-plated terminal plug complete with o-ring seal



Art. 4200

Chrome-plated terminal reduction complete with o-ring seal



Art. 4310

Chrome-plated flanged closing plug complete with o-ring seal and screws



Art. 7470

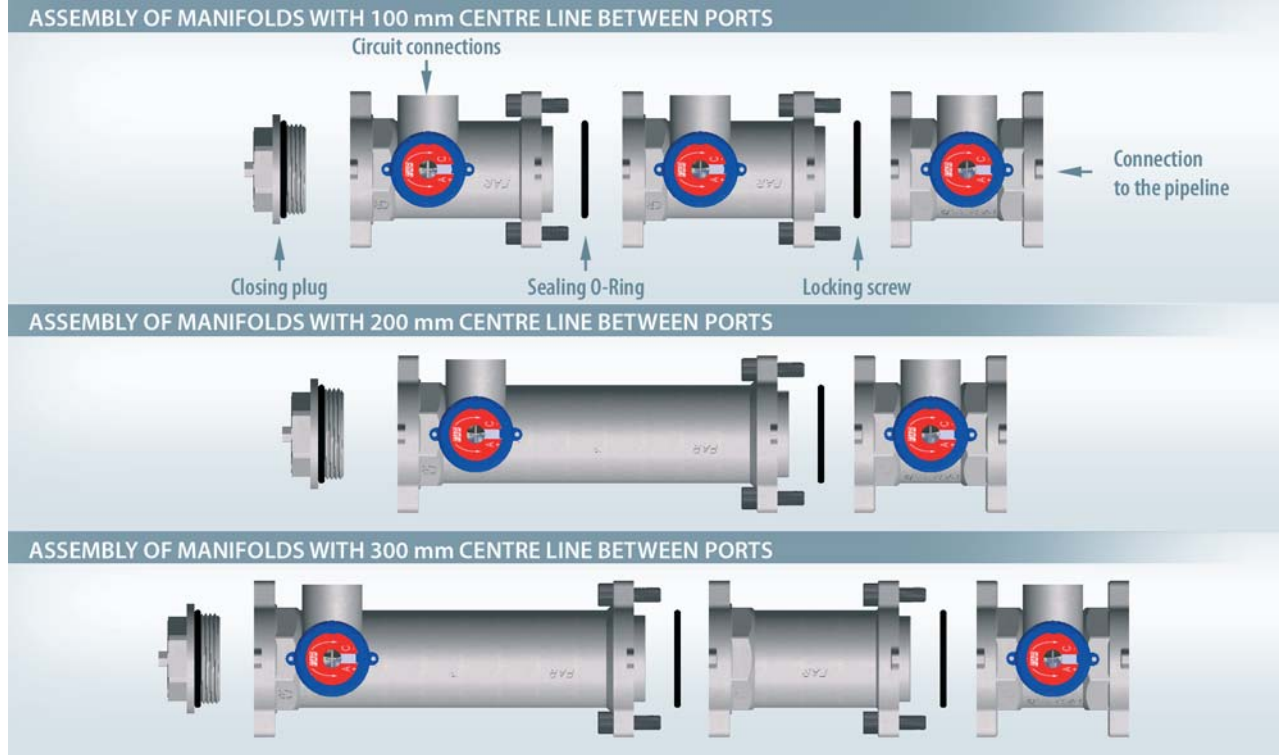
Metal bracket complete with collars for manifolds with 100 mm centre line between ports

2. INSTALLATION

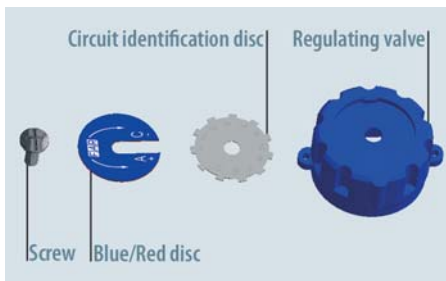
Connection between modules is effected by means of flanges with a high temperature resistant O-Ring inserted between them. The two stainless steel screws guarantee a perfect and lasting joint.

The manifold is equipped with holes for eventual sealing with lead.

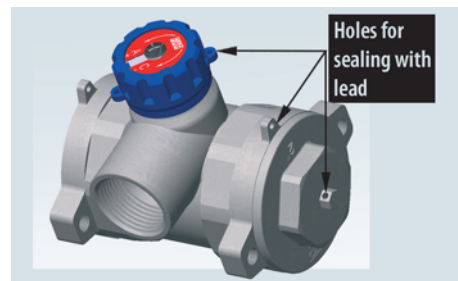
Manifolds can be assembled in the following combinations: with 100 mm, 200 mm or 300 mm centre line between ports. It is necessary to use an extension piece with no outlet (Art.3877) in order to form manifolds with a 300mm centre line between ports, as shown below.



Included in the pack are 2 silk-screen printed discs which are supplied along with the regulating valves. One disc indicates OPEN/CLOSE and the other is numbered from 1 to 22 for circuit identification.



Regulating valves are equipped with holes for sealing with lead. For the same purpose holes are also provided on the manifold body near the flanges and on the closing plug.

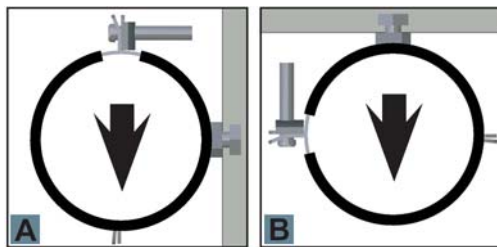


COLLAR TECHNICAL FEATURES

Acoustic level decrease: up to 18 dB
Wear resistance: UNI 6067
Working temperature: from -30°C to +140°C
Fire reaction: B2 class DIN4102

APPLICATION LIMITS

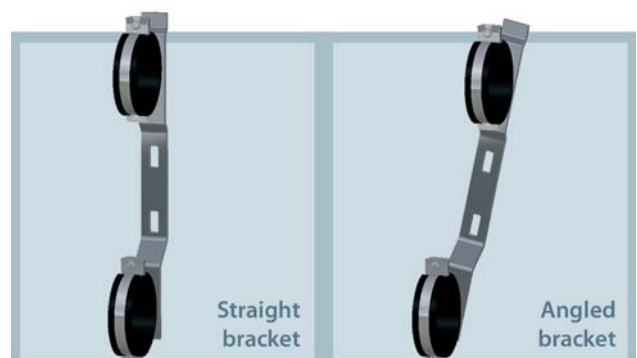
Indicated below are the max. loads for the collars, whatever the size of the manifold:



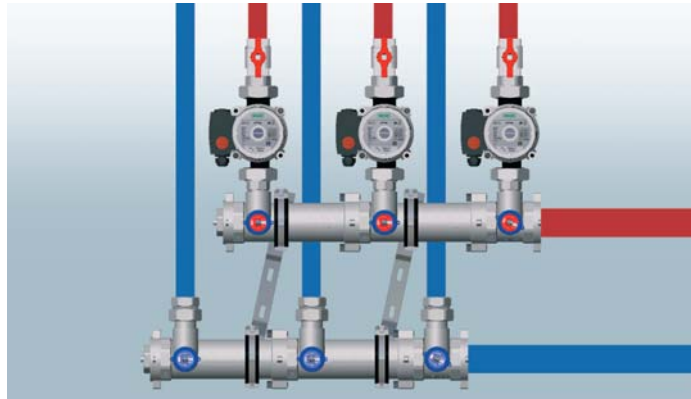
A	MAX. LOAD	585 N
	BREAK LOAD	2450 N
B	MAX. LOAD	680 N
	BREAK LOAD	2940 N

Metal brackets Art. 7470 are ideal for the fixing of START manifolds in the box housing or to the wall and are available in the following sizes: 1"1/4, 1"1/2 and 2".

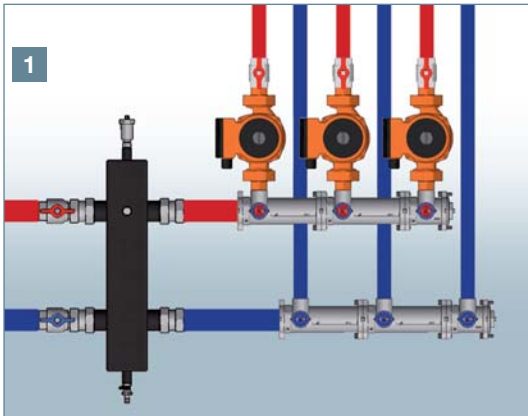
Manifolds on brackets can be installed into metal boxes or direct to the wall making use of simple Rawlplugs. Rotating collars, made of zinc-coated steel, can be fixed to the brackets with a screw. The rubber section in EPDM is heat-resistant and can absorb any vibration from the system. The closing clip ensures a quick and easy installation.



The illustration shows a Start manifolds assembly with the brackets in the angled position. This configuration permits a space-saving arrangement of pipelines between the outlets, simplifying installation of pumps or motorized ball zone valves on the outlets. Shut-off valves make it possible to open or close circuits serving flow delivery, thus eliminating the need to install ball valves and allowing circuit identification with the aid of the discs supplied.

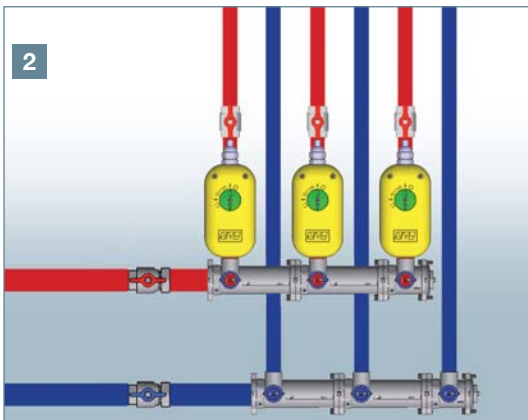


2.1 INSTALLATION EXAMPLES



Circuit 1 comprises a FAR hydraulic separator Art.2160, located between the boiler and the Start manifolds, in order to avoid pressure differentials, which could cause interference to the pumps. The pumps installed on the manifold outlets supply flow to the system demanded by each circuit.

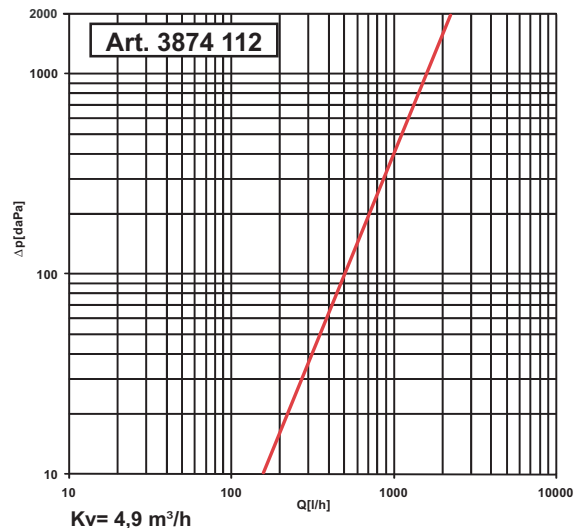
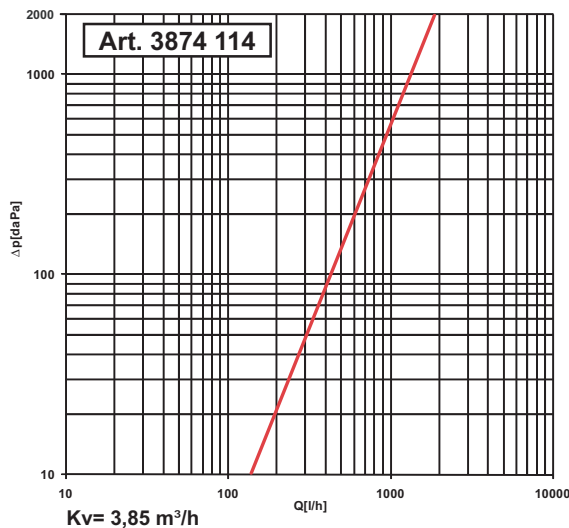
This type of arrangement is mainly used for large flow volume, or where systems are located on different floors in a building.



Circuit 2 is supplied by the boiler pump, which directs fluid through the Start manifold towards the FAR motorized zone valves Art.300115, which open and close the outlets by means of actuators. In this way fluid coming from the boiler will reach the circuits only when needed.

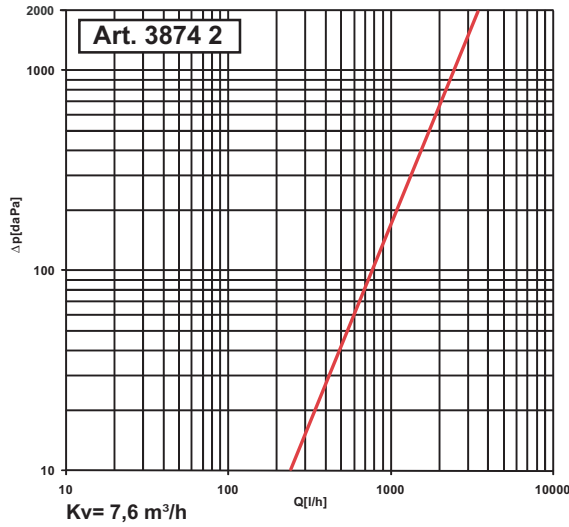
Circuits in such a configuration usually deliver low flow rates due to the presence of a single pump and are suitable for small systems.

3. DIMENSIONAL SHEETS



DIMENSIONAL SHEETS

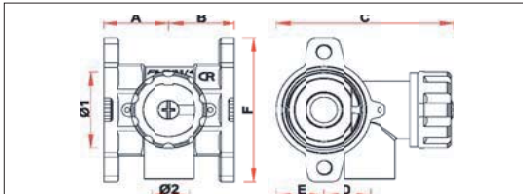
Fluid-dynamic features



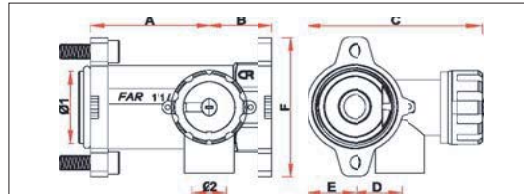
Technical Features

Body material: CR CC752S brass
Nominal pressure: 25 bar
Max. working temperature: 95°C
Screws material: AISI302 steel
O-ring material: EPDM
Handle material: ABS

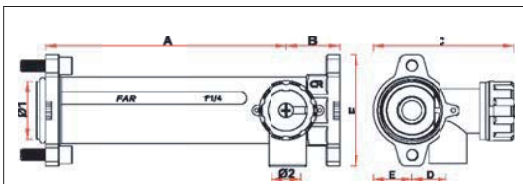
4. DIMENSIONAL FEATURES



CODE	Ø1	A	B	C	D	E	F	Ø2
3874 11412	G11/4	35	35	92	25	25,5	75	G1/2
3874 11212	G11/2	40	40	99	25	29	80	G1/2
3874 11234	G11/2	40	40	99	25	29	80	G3/4
3874 21	G2	49	49	107	27	35	93	G1



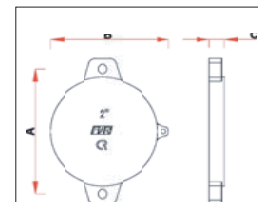
CODE	Ø1	A	B	C	D	E	F	Ø2
3874 11412100	G11/4	66	35	92	25	25	75	G1/2
3874 11212100	G11/2	60	41	99	25	29	82	G1/2
3874 11234100	G11/2	60	41	99	25	29	82	G3/4
3874 21100	G2	49	51	109	27	35	94	G1



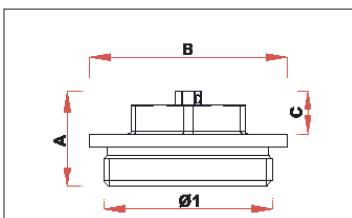
CODE	Ø1	A	B	C	D	E	F	Ø2
3874 11412200	G11/4	165	35	92	25	25,5	75	G1/2
3874 11212200	G11/2	159	41	99	25	29	82	G1/2
3874 11234200	G11/2	159	41	99	25	29	82	G3/4
3874 21200	G2	149	51	109	27	35	94	G1



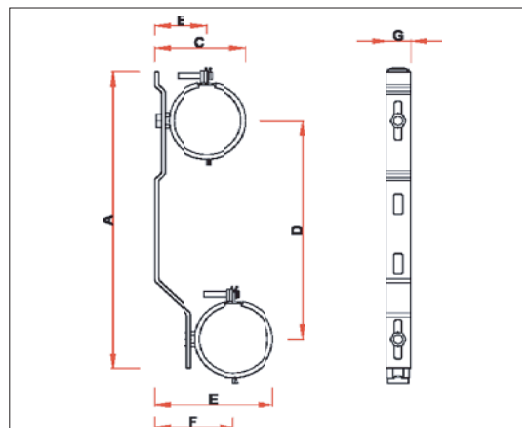
CODE	Ø1	A	B
3877 112	G11/2	100	82
3877 2	G2	100	94



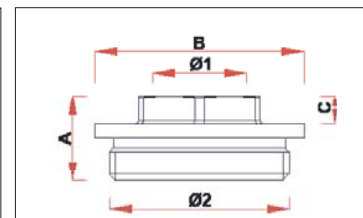
CODE	A	B	C
4310 1	55	46	9
4310 114	60	59	10
4310 112	67	66	10
4310 2	80	78	10



CODE	A	B	C	Ø1
4150 34	21	33	9	G3/4
4150 1	22	40	9	G1
4150 114	30	50	14	G1 1/4
4150 112	33	57	15	G1 1/2
4150 2	35	69	15	G2



CODE	A	B	C	D	E	F	G
7470 114	300	38	64	210-230	79	53	25
7470 112	300	42	71	210-230	86	57	25
7470 2	300	54	93	210-230	108	69	25



CODE	A	B	C	Ø1	Ø2
4200 3414	21	33	8	G1/4	G3/4
4200 3438	21	33	8	G3/8	G3/4
4200 3412	21	33	9	G1/2	G3/4
4200 114	22	40	8	G1/4	G1
4200 138	22	40	8	G3/8	G1
4200 112	22	40	9	G1/2	G1
4200 134	26	40	13	G3/4	G1
4200 11412	27	50	9	G1/2	G1 1/4
4200 11434	26	50	10	G3/4	G1 1/4
4200 1141	26	50	10	G1	G1 1/4
4200 1121	28	57	10	G1	G1 1/2
4200 21	30	69	10	G1	G2