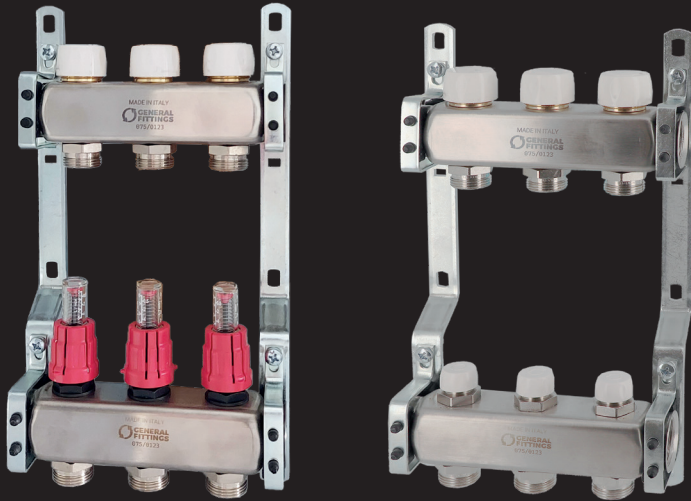


THOR



ENG: 1" pre-assembled stainless steel manifolds
for radiant systems with $\frac{3}{4}$ " outlets

1" pre-assembled stainless steel manifolds for radiant systems with 3/4" outlets

6A00 SERIES manifolds are the ideal solution for the distribution of water in radiant heating and cooling systems. These manifolds are pre-assembled on brackets and can be housed in metal cases and placed within partition walls. A wide range of accessories makes it possible to complete the manifold with all the necessary components for the proper functioning of the system: shut-off ball valves, venting valves, bypass valves and input/output taps.

- The manifolds with pre-set shut-off valves for electrothermal command should always be installed on the return segment of the circuit. The handle has two purposes: to protect the threading and occasionally to intercept the fluid in the connectors. That control wheel makes it possible to turn the thermostatically controlled valve into a manual valve.

- The manifolds with a mechanical memory stem (lockshields) come with micrometric regulation and are pre-set for position memory in the case of momentary closure. They are to be installed on the delivery circuit.

- The manifolds with regulators and flow meters make it possible to immediately verify the balancing of the system through a reading of the flow. It is possible to block their calibration settings through a closing ring. The glass can be removed and cleaned while the system is in operation. These manifolds are to be installed on the delivery circuit.

Materials

Stainless steel AISI 304L
Brass CW617N- UNI EN 12164
Elastomer gaskets
ABS cap

Performance

Version with flow meters:

Minimum operation temperature: -7°C

Maximum operation temperature: 65°

Maximum operation pressure: 6 bar

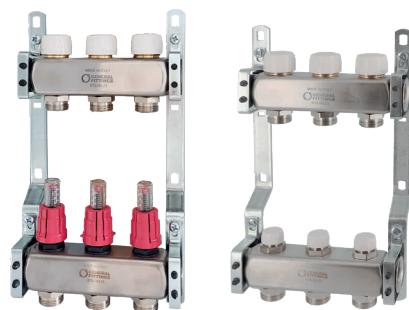
Version with lockshields:

Minimum operation temperature: -20°C*

Maximum operation temperature: 95°C

Maximum operation pressure: 10 bar

*-20°C only with antifreeze liquid, glycol, max % of 30%.

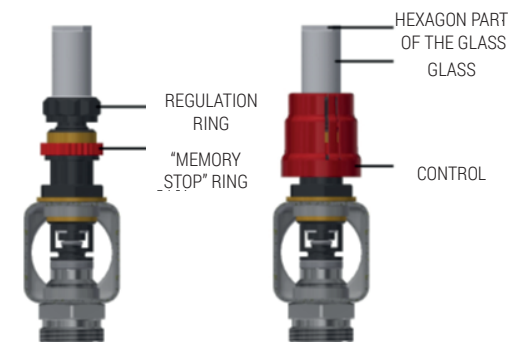


Flow meters

"Memory stop" flow meter operation

System to block the aperture of the flow meter which, when the circuit is reopened, maintains the flow in the initial position (as calculated by the system designer).

Flow meter 0.5 L		
DP Pa	DP kpa	Q l/h
10	0.01	8
100	0.1	25
500	0.5	60
1000	1	82
5000	5	185
10000	10	260
20000	20	365
30000	30	450
40000	40	520
50000	50	585
60000	60	640
70000	70	690
80000	80	740
90000	90	785
100000	100	825



1.Set the flow meter to the design setting.

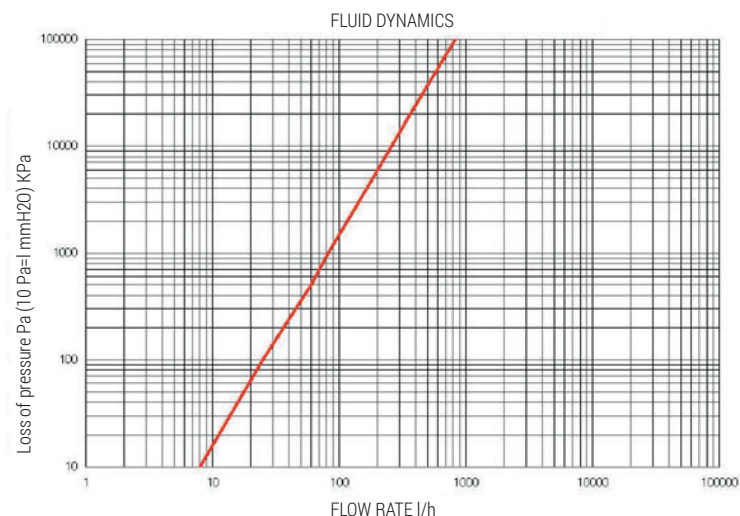
The control wheel must be removed during this operation.

2.Turn the "memory stop" closing ring anti-clockwise until it stops.

3.Reposition the control wheel. The individual circuit can be closed by turning it clockwise. By turning the control wheel anti-clockwise until it stops, the circuit can be re-opened up to the set design value.

Use the two openings on the control wheel to seal the flow meter, to prevent tampering with the setting.

Warning: Do NOT use tools to turn/adjust the flow meter, as they may inhibit its proper functioning



Maintenance instructions

The glass can be removed and inspected for cleaning, even with the system in operation.

1. Close the flow meter by turning the control wheel, but first make sure to have recorded the balancing (l/m) of the system or to have adjusted the "memory stop" ring.
2. Using a hex wrench, unscrew the glass via its hexagonal element.
3. Clean the glass.
4. Screw the glass back into its original position, balancing the system once again.

Mechanical balancing of the system

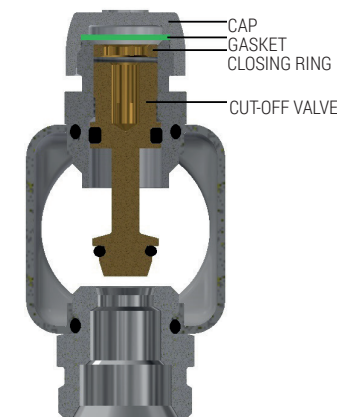
Flow measuring devices (flow meters) and mechanical memory stems (lockshields) are located on the delivery circuit, making it possible to establish the theoretical flow value of the hydraulic system through their adjustment, which will be carried out by the installation technician. The forementioned calibration must be done with the valve in a completely open return position.

Lockshields (mechanical memory stems)

Calibration instructions for manifolds with lockshields:

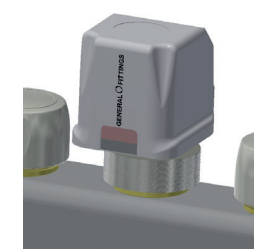
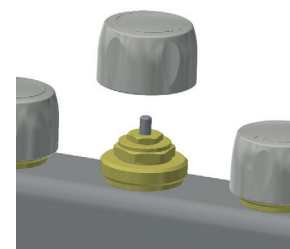
- Unscrew the cap.
- Using a hex key, tighten the cut-off valve until it's completely closed.
- The lockshield is ready to be adjusted as per the chart below.
- Use the closing ring to create a mechanical stop, tightening it down to the cut-off valve once the desired flow has been set. By so doing, the cut-off valve can be opened and closed without altering the set calibration.

POSITION	N.TURNS	Kvs /m3/h)
1	1/2	0.09
2	1	0.27
3	1+1/2	0.73
4	2	0.91
5	2+1/2	1.08
6	3	1.26
7	3+1/2	1.41
8	4	1.53
9	4+1/2	1.65
10	5	1.76
11	5+1/2	1.85
12	entirely open	1.92

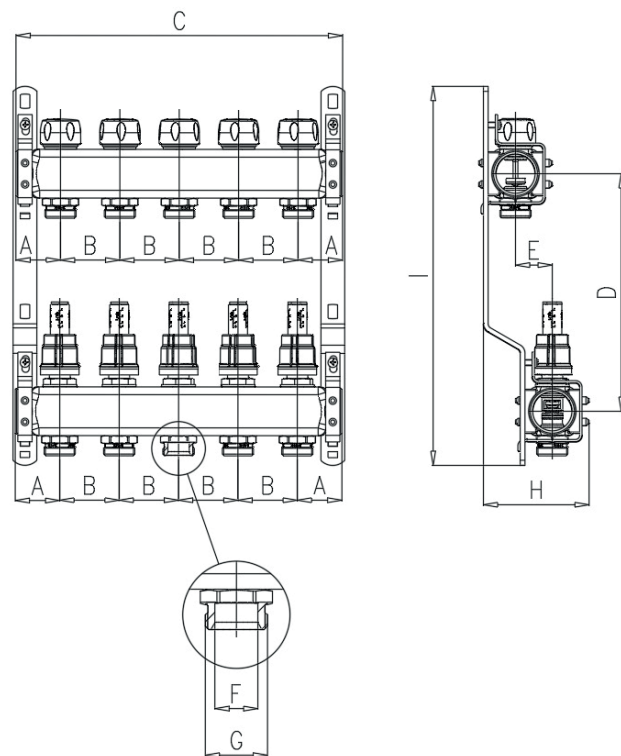


Pre-set shut-off valves for electrothermal command

1. Unscrew the protection handle
2. Place the electrothermal head on the valve.
3. Tighten the metal closing ring by hand (threading: M30x1.5).
4. Complete the electrical connections.



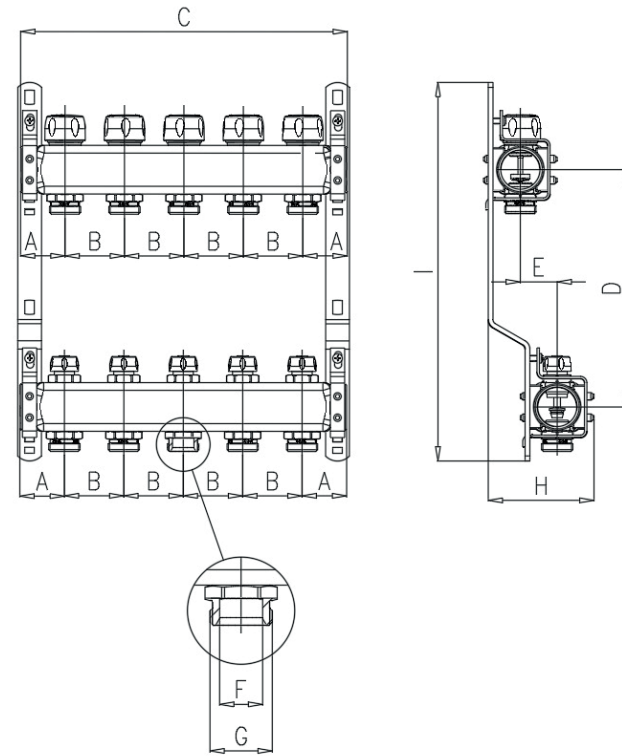
6A00.71: Dimensioni / Dimensions / Abmessungen / PA3MEПbl / Dimensiones



CODE	A	B	C	D	E	F	G	H*	H**	I	WAYS	PIPE
6A0071I100502A	37,5	50	125	200	31	Ø18,1	3/4"	89	76	319	2	1"-3/4"Ek.
6A0071I100503A	37,5	50	175	200	31	Ø18,1	3/4"	89	76	319	3	1"-3/4"Ek.
6A0071I100504A	37,5	50	225	200	31	Ø18,1	3/4"	89	76	319	4	1"-3/4"Ek.
6A0071I100505A	37,5	50	275	200	31	Ø18,1	3/4"	89	76	319	5	1"-3/4"Ek.
6A0071I100506A	37,5	50	325	200	31	Ø18,1	3/4"	89	76	319	6	1"-3/4"Ek.
6A0071I100507A	37,5	50	375	200	31	Ø18,1	3/4"	89	76	319	7	1"-3/4"Ek.
6A0071I100508A	37,5	50	425	200	31	Ø18,1	3/4"	89	76	319	8	1"-3/4"Ek.
6A0071I100509A	37,5	50	475	200	31	Ø18,1	3/4"	89	76	319	9	1"-3/4"Ek.
6A0071I100510A	37,5	50	525	200	31	Ø18,1	3/4"	89	76	319	10	1"-3/4"Ek.
6A0071I100511A	37,5	50	575	200	31	Ø18,1	3/4"	89	76	319	11	1"-3/4"Ek.
6A0071I100512A	37,5	50	625	200	31	Ø18,1	3/4"	89	76	319	12	1"-3/4"Ek.
6A0071I100513A	37,5	50	675	200	31	Ø18,1	3/4"	89	76	319	13	1"-3/4"Ek.

* STANDARD/ стандартный **OPTIONAL/ дополнительный

6A00.93: Dimensioni / Dimensions / Abmessungen / PA3MEПbl / Dimensiones



CODE	A	B	C	D	E	F	G	H*	H**	I	WAYS	PIPE
6A0093I100502A	37,5	50	125	200	31	Ø18,1	3/4"	89	76	319	2	1"-3/4"Ek.
6A0093I100503A	37,5	50	175	200	31	Ø18,1	3/4"	89	76	319	3	1"-3/4"Ek.
6A0093I100504A	37,5	50	225	200	31	Ø18,1	3/4"	89	76	319	4	1"-3/4"Ek.
6A0093I100505A	37,5	50	275	200	31	Ø18,1	3/4"	89	76	319	5	1"-3/4"Ek.
6A0093I100506A	37,5	50	325	200	31	Ø18,1	3/4"	89	76	319	6	1"-3/4"Ek.
6A0093I100507A	37,5	50	375	200	31	Ø18,1	3/4"	89	76	319	7	1"-3/4"Ek.
6A0093I100508A	37,5	50	425	200	31	Ø18,1	3/4"	89	76	319	8	1"-3/4"Ek.
6A0093I100509A	37,5	50	475	200	31	Ø18,1	3/4"	89	76	319	9	1"-3/4"Ek.
6A0093I100510A	37,5	50	525	200	31	Ø18,1	3/4"	89	76	319	10	1"-3/4"Ek.
6A0093I100511A	37,5	50	575	200	31	Ø18,1	3/4"	89	76	319	11	1"-3/4"Ek.
6A0093I100512A	37,5	50	625	200	31	Ø18,1	3/4"	89	76	319	12	1"-3/4"Ek.
6A0093I100513A	37,5	50	675	200	31	Ø18,1	3/4"	89	76	319	13	1"-3/4"Ek.

* STANDARD/ стандартный **OPTIONAL/ дополнительный



General Fittings Spa

Via Golgi, 73/75 - 25064 Gussago (BS) ITALY

T +39 030 3739017 - F +39 030 3739021

info@generalfittings.it

www.generalfittings.it