



# MATERIAL SPECIFICATION SHEET

## Stainless Steel Manifold Kit

Stainless steel manifolds are suitable for distributing and controlling water in heating systems at low and high temperatures. The thickness of the material combined with the pressure testing of each manifold is synonymous with quality and assurance of successful operation on site. The threads of the connections to the headers are 1 " female according to ISO 228 standard. The threads of the joints are made with brass inserts (CW617N, 3/4").



Headers come complete with supply/return manifolds, mounting brackets, shut-off valves, flow meters and air vents. Suitable for thermostatic or manual control.

### Technical Specifications

Max operating pressure	145 PSI
Max operating temperature	194 °F
Adjustment Flow Meter	0-0.1 l/sec (0-1.3 gpm)
Flow Meter precision	10 %

### Materials

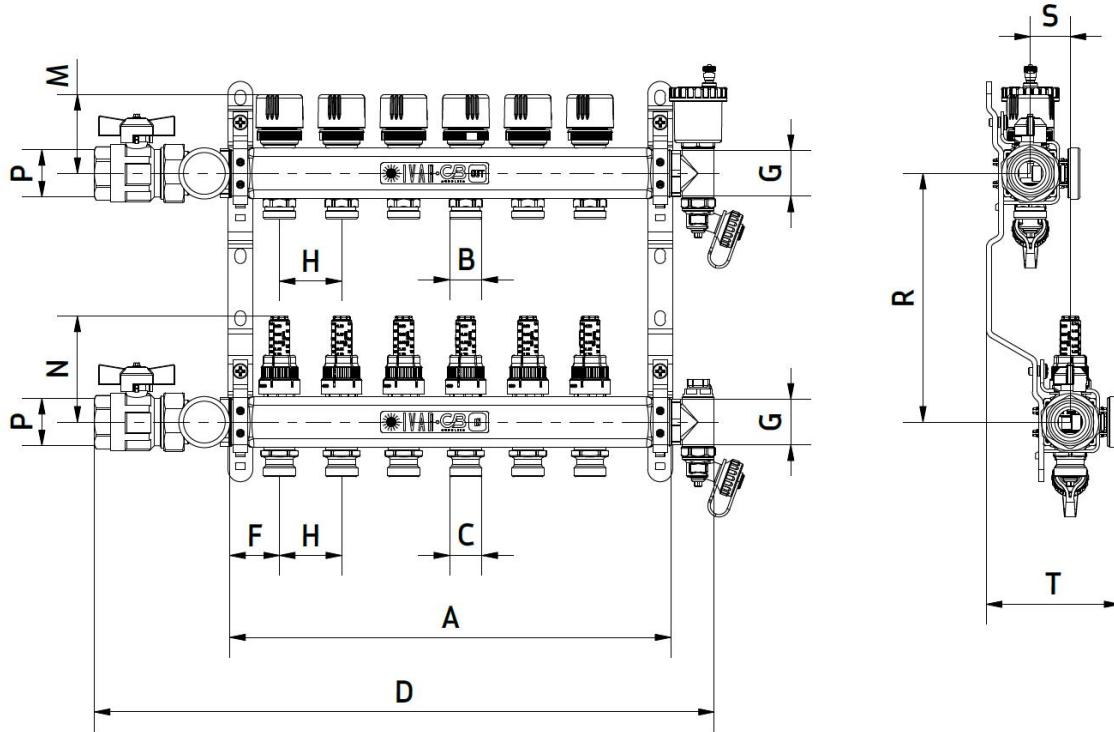
#### Manifolds

- Manifold body: stainless steel AISI 304
- Brass parts: CW617N
- Seal Parts: peroxide EPDM
- Shut-off valve disc: PPA body + brass stem + steel spindle
- Projecting Caps: ABS

#### Flow Meter

- Body: PPA
- Shutter: PA MXD 6
- Seal: peroxide EPDM perossidico
- Lock ring: PPO and PS blend
- Indicator: PA 12
- Spindle: PSU
- Spyglass: transparent PA 12
- Cover: ABS

## Dimensions



**Table 1 - Dimensions and product codes**

Loops	Part No.	A	B	C	D	F	G	H	M	N	P	R	S	T
2	763510002-S	5.75"			10.75"									
3	763510003-S	7"			12.75"									
4	763510004-S	9"			14.75"									
5	763510005-S	11"			16.75"									
6	763510006-S	13"			18.75"									
7	763510007-S	15"	0.75"	0.75"	20.75"	1.6"	1.5"	2"	2.5"	3.5"	1"	8"	1.25"	4"
8	763510008-S	17"			22.75"									
9	763510009-S	19"			24.75"									
10	763510010-S	21"			26.75"									
11	763510011-S	23"			28.75"									
12	763510012-S	25"			20.75"									

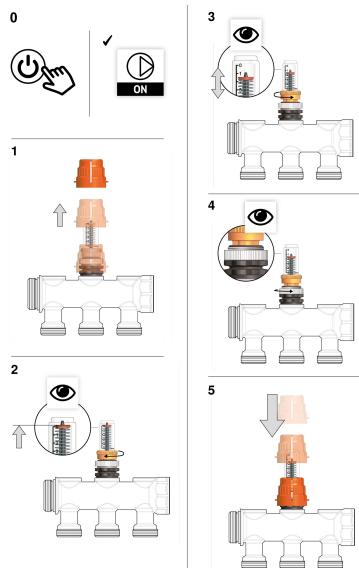
## 1" Manifold Pressure Drop

Manifold Pressure Drop Table		
Highest GPM / circuit	PSI	Feet of Head
0.2	0.03	0.06
0.4	0.11	0.25
0.6	0.24	0.56
0.8	0.43	0.99
1.0	0.67	1.55
1.2	0.97	2.23
1.4	1.32	3.04
1.6	1.72	3.97
1.8	2.18	5.03
2	2.69	6.21

Cv 1.22 for both supply and return circuit isolation valves

## Adjustment

Flow Meter devices allow the adjustment and the balancing of each outlet and keep memory of the selected position in case of temporary closure due to maintenance operations. In order to perform a correct adjustment, proceed as follows:



### 0. Activate the system

1. Remove the orange cover by gently prying upwards
2. Move the Flow Meter to the closed position by turning the upper ring nut clockwise. The displayed flow rate value must be zero (can be viewed inside the slide).
3. Move the Flow Meter to the open position corresponding to the correct flow rate value by turning the upper ring nut counterclockwise.
4. Secure the position memory by turning the lower ring nut counterclockwise until it stops.
5. Replace the orange cover. Afterwards it will be possible to close or open the extension up to the maximum set by the position memory, directly by turning the orange cover clockwise or counterclockwise respectively.

## Regulation

Electrothermic heads can be installed on the Single Way Return Manifold that will open or close to regulate flow through each circuit.

