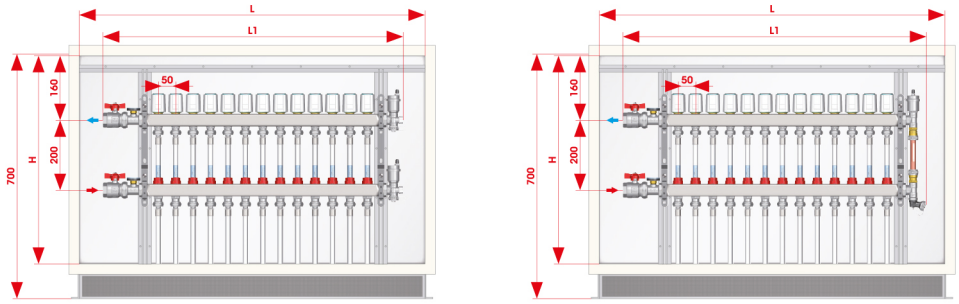
PRE-ASSEMBLED STAINLESS STEEL MANIFOLDS

937 Single manifold, with shut-off valves preset for electrothermal actuators - with handles

INSTRUCTIONS ON INSTALLATION, USE AND MAINTENANCE

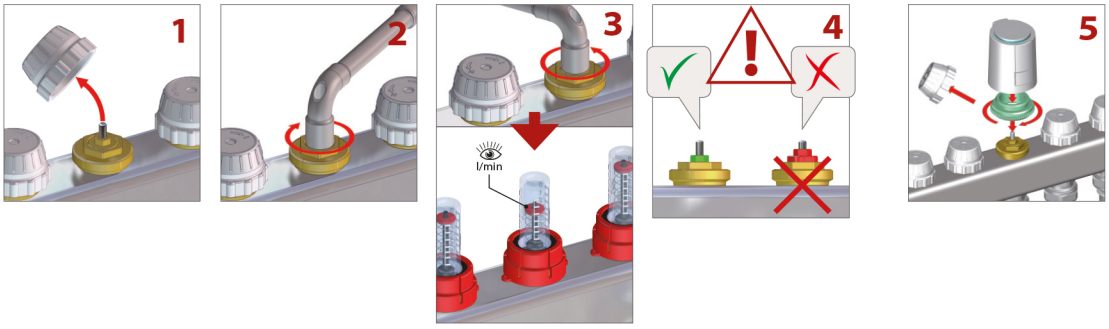
Technical specifications:
Available sizes: 1”
Maximum operating pressure with installed flow meters: 6 bar (10 bar for installation test)
Maximum operating pressure with installed lockshields: 10 bar
Maximum working temperature: 70°C (with flow meters), 80°C (with lockshields).
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Outlets: from 3 to 13, 3/4” Eurokonus.
Outlet centre distance: mm.50

POSITIONING THE STAINLESS STEEL MANIFOLDS INTO METAL BOXES



CODICE / *CODE* / CODE / *CÓDIGO* / TEILENUMMER / *КОД*	498.500.600	498.600.600	498.700.600	498.800.600	498.1000.600
L x H (mm)	500x600	600x600	700x600	800x600	1000x600
N° vie / *outlet* / voies / *vías* / Wege / *ходов*	3-4	5-6	7-8	9-10	11-12-13
COLLETTORE / *MANIFOLD* / COLLECTEUR / *COLECTOR* / VERTEILER / *КОЛЛЕКТОР*	1”				
L1	386	486	586	686	836

HOW TO ADJUST THE FLOW RATE



1. Remove the plastic cap from the valve, installed on return manifold.
2. The valve, equipped with a pre-setting insert, is normally supplied with the spindle completely open. Please, close each valve by means of a 8 mm key tool, by turning the insert clockwise.
3. Adjust the flow rate of each circuit by turning the insert anti-clockwise till you read, on the flowmeter installed on the flow manifold, the required flow rate.
4. The fine thread of the pre-setting valve must not be seen above the edge of its hexagonal seat: the insert is totally open (full flow) when you have turned it anti-clockwise at approximately 2.5 turns.
5. Once you have adjusted the flow rate, the valve has to be protected from dust and dirt by screwing back the plastic cap of by installing an electrothermal actuator.

FLOWMETER ADJUSTMENT

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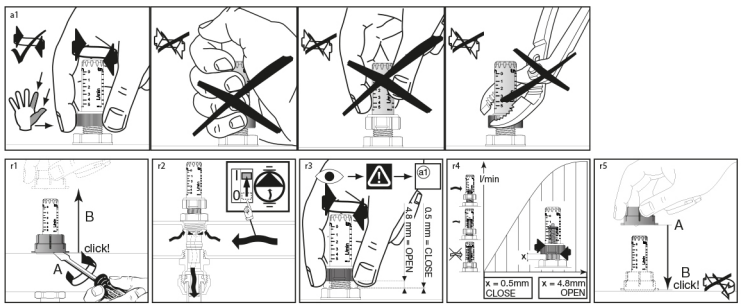
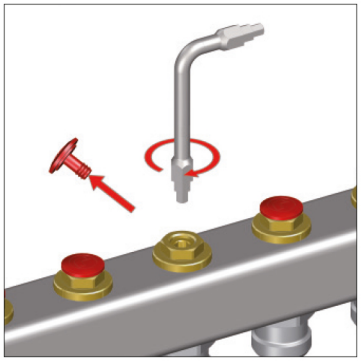


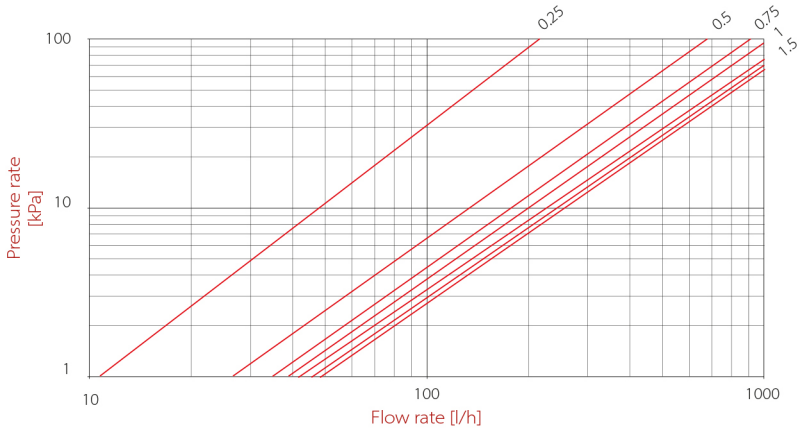
- The pre-setting valve works as a regular valve (ON-OFF operation), if it is used in its totally open position.

LOCKSHIELD ADJUSTMENT



- Starting from a totally closed position, open the lockshield according to the enclosed chart, in order to achieve the desired flow rate. The adjustment has to be done by means of a hexagonal key in the size of 6 mm

SETTING TURNS AND FLOW RATE DIAGRAM



REGOLAZIONE (giri) - *REGULATION (rpm)* - RÉGLAGE (tours) - *REGULACIÓN (revoluciones)* - EINSTELLUNG (Undrehungen) - *Регулировка (обороты)*	0.25	0.5	0.75	1	1.5	2	2.5
Kv	0.22	0.68	0.91	1.05	1.22	1.30	1.35

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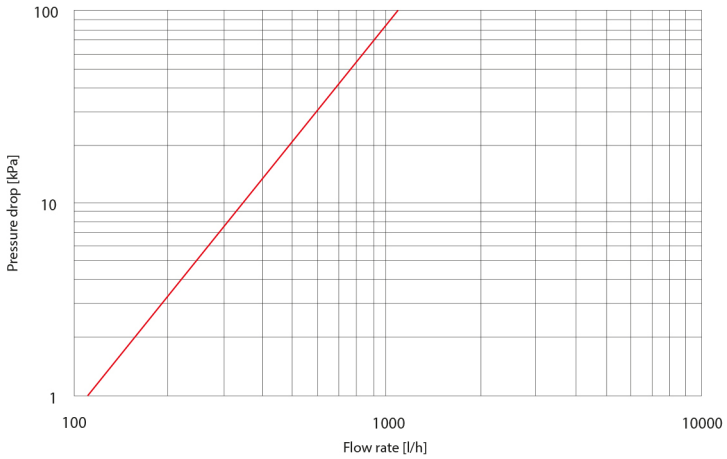
TECHNICAL NOTE:
In case of installation of manifolds equipped with pre-setting valves, the flowmeter has not to be used as a balancing valve, but just to read the required flow rate. In any case, if you prefer to balance the flow rate by means of flowmeter, this is possible also in case of use of a pre-setting valve. In fact, as it is supplied in its totally open position, you can adjust the flow rate of each circuit as usual (please, see the following specification), by turning the flowmeter and leaving pre-setting valve completely open.

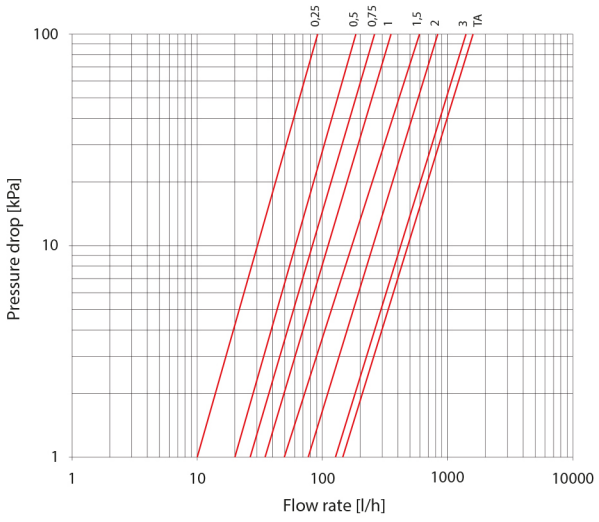
DIAGRAMS
- Below are the flow rate / pressure drop diagrams relative to pre-assembled manifolds with main 1” connections.

Diagram of flow meter fully open (flow manifold)



Kv = 1,1 m3/h

Regulation lockshield diagram (flow manifold)



Regolazione (giri) *Regulation (rpm)* Réglage (tours) *Regulación (revoluciones)* Einstellung (Undrehungen) *Регулировка (обороты)*	Kv [m³/h]
0,25	0,09
0,5	0,19
0,75	0,27
1	0,36
1,5	0,60
2	0,83
3	1,45
TA (*open* - Vollöffnung - *открыто*)	1,65