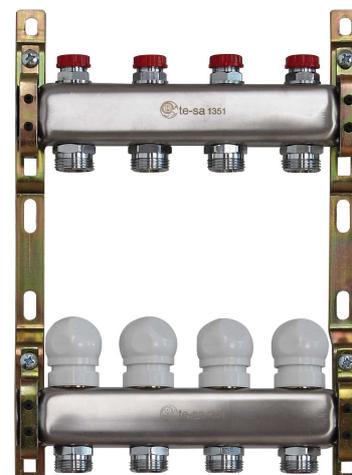


STAINLESS STEEL DISTRIBUTION MANIFOLDS

Application

The 220A te-sa pre-assembled distribution manifolds are designed for the distribution and regulation of heat transfer fluid in heating and conditioning systems.

Made of Stainless Steel material, they are ideally suited to underfloor heating systems, radiator heating systems, fan coil units distribution systems, with condensing boilers, traditional boiler, or heating district distributions. The manifold, when completed with its preformed insulation, is usable for conditioning systems. The particular design of the manifold features a great flow section with reduced pressure drops and consequently lower energy consumption in the circulator pumps. The big flow section of these manifolds permits to the water to reduce its speed, with the result to have very low noises produced. Beautiful to see, it is also strong, reliable and corrosion resistant in the ordinary applications.



Configuration and available sizes

Pre-assembled on brackets, it is a distribution manifold with 3/4" Eurocone loop connections with centre distance 50 mm, and it is composed by delivery manifold with adjustable lockshield, return manifold with built-in interception valves, with maneuver handles, that are predisposed for assembly of electrothermal actuators. The barrels are completed with end plugs, orientable fill and drain valves, and orientable manual air vents. It is packed in carton box with labels included to identify the circuits connected.

1" inlet connection

220A-06-02	2 Loops
220A-06-03	3 Loops
220A-06-04	4 Loops
220A-06-05	5 Loops
220A-06-06	6 Loops
220A-06-07	7 Loops
220A-06-08	8 Loops
220A-06-09	9 Loops
220A-06-10	10 Loops
220A-06-11	11 Loops
220A-06-12	12 Loops
220A-06-13	13 Loops

1-1/4" inlet connection

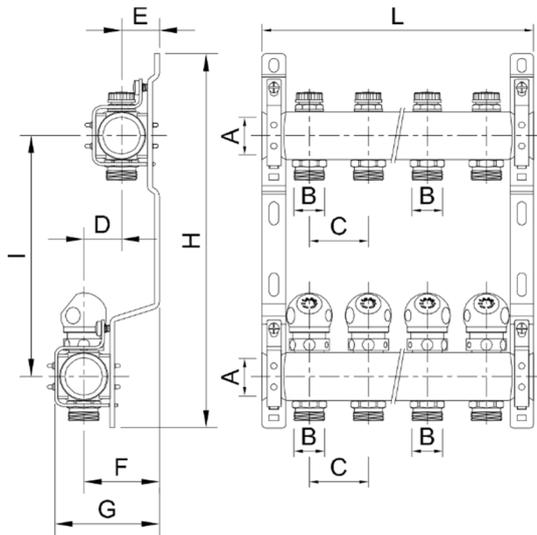
220A-07-02	2 Loops
220A-07-03	3 Loops
220A-07-04	4 Loops
220A-07-05	5 Loops
220A-07-06	6 Loops
220A-07-07	7 Loops
220A-07-08	8 Loops
220A-07-09	9 Loops
220A-07-10	10 Loops
220A-07-11	11 Loops
220A-07-12	12 Loops
220A-07-13	13 Loops



Technical data

- Manifold barrel made of Stainless Steel EN 1.4301-AISI304 UNI-EN 10088
- Manifold components made of Brass Alloy UNI-EN 12164 CW614N e UNI-EN 12165 CW617N
- Manifold body size: 1" ed 1-1/4"
- Supply manifold with micrometric balancing lockshields maneuverable by using 5 mm Allen key, equipped with protection caps to avoid intrusion of powders that could reduce the operating capacity in the time
- Return manifold with interception valves equipped with ABS handles, suitable for installation of electrothermal actuators with M30x1,5 swivel nut connection
- Maximum Operating Pressure 10 bar
- Operating Temperature 0 ÷ 85°C
- Maximum Test Pressure 16 bar
- Maximum glycol percentage 30%
- KV factors in wide open conditions: Supply manifold 1" KV=4,42 ; Return manifold 1" KV=2,8 ; Supply manifold 1-1/4" KV=4,58 ; Return manifold 1-1/4" KV=3,55 ; Supply + Return 1" KV=2,36 ; Supply + Return 1-1/4" KV=2,80

Dimensions



Art.	A	B	C	D	E	F	G	H	I	L
220A-06-02	1"	3/4"	50	32	32	64	95	320	206	130
220A-06-03	1"	3/4"	50	32	32	64	95	320	206	180
220A-06-04	1"	3/4"	50	32	32	64	95	320	206	230
220A-06-05	1"	3/4"	50	32	32	64	95	320	206	280
220A-06-06	1"	3/4"	50	32	32	64	95	320	206	330
220A-06-07	1"	3/4"	50	32	32	64	95	320	206	380
220A-06-08	1"	3/4"	50	32	32	64	95	320	206	430
220A-06-09	1"	3/4"	50	32	32	64	95	320	206	480
220A-06-10	1"	3/4"	50	32	32	64	95	320	206	530
220A-06-11	1"	3/4"	50	32	32	64	95	320	206	580
220A-06-12	1"	3/4"	50	32	32	64	95	320	206	630
220A-06-13	1"	3/4"	50	32	32	64	95	320	206	680

Art.	A	B	C	D	E	F	G	H	I	L
220A-07-02	1 1/4"	3/4"	50	32	36	69	104	320	206	130
220A-07-03	1 1/4"	3/4"	50	32	36	69	104	320	206	180
220A-07-04	1 1/4"	3/4"	50	32	36	69	104	320	206	230
220A-07-05	1 1/4"	3/4"	50	32	36	69	104	320	206	280
220A-07-06	1 1/4"	3/4"	50	32	36	69	104	320	206	330
220A-07-07	1 1/4"	3/4"	50	32	36	69	104	320	206	380
220A-07-08	1 1/4"	3/4"	50	32	36	69	104	320	206	430
220A-07-09	1 1/4"	3/4"	50	32	36	69	104	320	206	480
220A-07-10	1 1/4"	3/4"	50	32	36	69	104	320	206	530
220A-07-11	1 1/4"	3/4"	50	32	36	69	104	320	206	580
220A-07-12	1 1/4"	3/4"	50	32	36	69	104	320	206	630
220A-07-13	1 1/4"	3/4"	50	32	36	69	104	320	206	680

Installation of the electrothermal actuators 116T

The installation of the electrothermal actuators 116T is very easy and quick. After removing the maneuver handle, screw completely by hand the plastic adapter at the thread M30x1,5 of the bonnet. The actuator is connected to the adapter with slight pressure, and can be oriented a little by turning it. The electrothermal actuators are supplied with the stem in middle position. At starting, in order to totally close the interception valve of the manifold, it is necessary to connect the actuator at the electrical power supply for some minutes to open it completely. When the electrical power is removed, the actuator closes totally. The actuators 116T series are Normally Closed type, then with electrical supply they open, while without electrical supply they close.



Accessories



305NTK/1 Pair of straight full port ball valves, with union connection with O-Ring seal, completed with thermometer scale 0÷80°C. Available sizes 1" and 1-1/4".



350TK/1 Pair of angle full port ball valves, with union connection with O-Ring seal, completed with thermometer scale 0÷80°C. Available size 1".



208 – 216T – 217T Compression fittings with nut threaded 3/4" Eurocone, to connect copper pipes, polyethylene pipes and multilayer pipes at the manifolds. Available for the main commercial sizes of pipes



650A Pre-formed insulation shells for manifolds, consisting of two half-shells (front and back). Material: PE-X closed-cell foam. Available sizes 1" and 1-1/4".



116T Electrothermal actuator normally closed with easy and fast connection. For bonnets M30x1,5. Available with and without end switch (two or four wires) in the voltages 230V and 24V.



211N11 Full painted metal cabinet with key on door for embedded installation. Dimensions: 45 cm Height, 11÷15 cm Depth, 40-60-80-100-120 cm Width.