







Distributors and Reverse Valves Series 140 - 141 - 142



Series 141 and 142 single and dual pipe distributors, in conjunction with Series 140 and 115TA reverse valves, are designed for installation on heating elements in single and dual pipe systems. Series 141 (single pipe) and Series 141T (dual pipe) components are used in systems with underfloor branch lines while Series 142 (single pipe) and 142T (dual pipe) are used in systems with wall branch lines. They come complete with fittings for sensors diameter 15mm and 3/4" Eurocone connections.

All models can be combined with manual or thermostatisable reverse valves.

The single pipe versions of the distributor deliver the fluid to the heating element proportionally at 50% (i.e. 50% of the fluid is delivered to the radiator and 50% is bypassed on to the successive radiators). These **te-sa** distributors are particular in that they are reversible and can be installed on either the right or left side of the radiator provided that the direction of circulation of the fluid, as indicated on the valve body, is respected.

Using te-sa thermostatic controls provides the additional possibility of automatically regulating room temperature to the set value thereby assuring comfort and energy savings.

Technical specifications

Materials:

Brass UNI EN 12165 - CW617N Body: Brass UNI EN 12164 - CW614N Insert valve: Hydraulic seals: **EPDM Peroxide** Valve knob: ABS Lockshield cap: ABS

Operation:

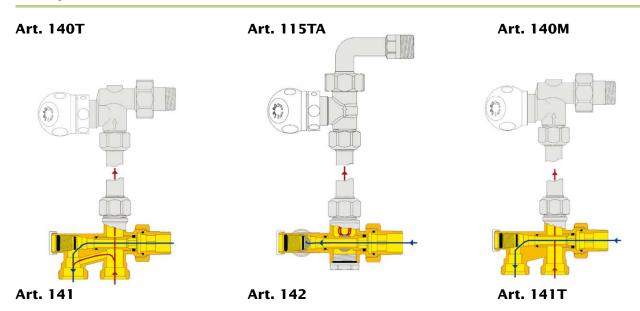
Useable fluids: Water - Glycolated solutions Maximum glycol percentage: 30% Maximum operating pressure: 6 bar 100°C Maximum operating temperature:

Product range:

Art. 140M-04-15	Manual reverse valve with fitting	1/2" x 15
Art. 140T-04-15	Thermostatisable reverse valve with knob and fitting	1/2" x 15
Art. 140C-04-15	Thermostatisable reverse valve with cap and fitting	1/2" x 15
Art. 140TS-04-15	Thermostatisable reverse valve with knob, bleed and fitting	1/2" x 15
Art. 115TA-04-15	Thermostatisable straight valve with knob, 90° curve and fitting	1/2" x 15
Art. 141-04-15	Single pipe 4-way distributor, 50% flow delivery, 3/4" underfloor connections	1/2" x 15
Art. 141T-04-15	Dual pipe 4-way distributor, 100% flow delivery, 3/4" underfloor connections	1/2" x 15
Art. 142-04-15	Single pipe 4-way distributor, 50% flow delivery, 3/4" wall connections	1/2" x 15
Art. 142T-04-15	Dual pipe 4-way distributor, 100% flow delivery, 3/4" wall connections	1/2" x 15



Example combinations



Thermostatic control specifications

Conformity: EN 215 Thermostatic sensor: liquid type TWB-400 Rated pressure: PN 10 Temperature regulation range: 8-28°C 0.8 °K Hysterisis: Recommended installation position: horizontal

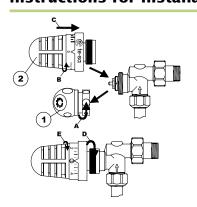
Regulation scale

	*	1	2	3	4	5
0°C	8°C	12°C	16°C	20°C	24°C	28°C

= fully closed position

= anti-freeze protection position

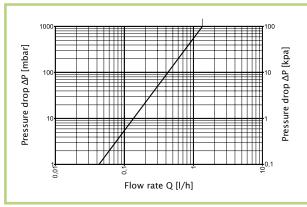
Instructions for installation of thermostatic heads



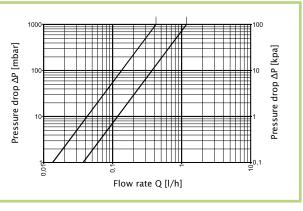
Follow the procedure below to fit the thermostatic head on the thermostatisable valve:

- A. Unscrew the locking nut on the manual control knob (1) and remove the
- B. Position the thermostatic head (2) at the maximum value (pos. 5);
- C. Insert the head onto the valve body by fitting the insert valve hex stem into the recess in the head;
- D. Fully tighten the head locking nut;
- E. Turn the knob so that the arrow corresponds with the desired temperature value.

Hydraulic specifications

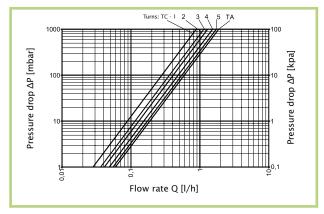


Series 140M

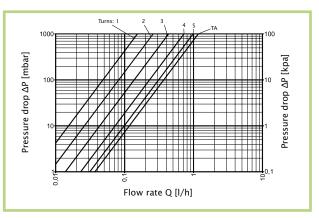


Series 140T - 140TS - 115TA

Hydraulic specifications



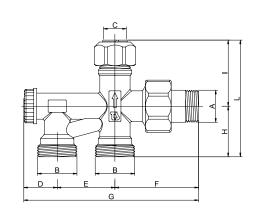
Series 141 - 142



Series 141T - 142T

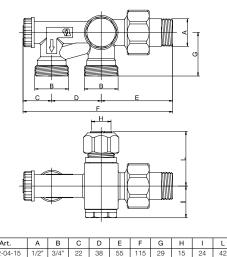
Measurements and overall dimensions

Art. 141 (single pipe) / Art. 141T (dual pipe)



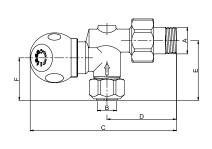
Art.	Α	В	С	D	Е	F	G	Н	- 1	L
141-04-15	1/2"	3/4"	15	22	38	55	115	33	43	76
141T-04-15	1/2"	3/4"	15	22	38	55	115	33	43	76

Art. 142 (single pipe) / Art. 142T (dual pipe)



Art.	Α	В	С	D	Е	F	G	Н	- 1	L
142-04-15	1/2"	3/4"	22	38	55	115	29	15	24	42
142T-04-15	1/2"	3/4"	22	38	55	115	29	15	24	42

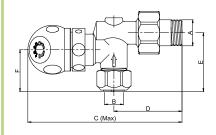
Art. 140M Manual reverse valve



Art.	Α	В	С	D	Е	F
140M-04-15	1/2"	15	114	54	50	34

Art. 140T

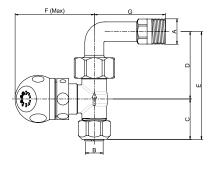
Thermostatisable reverse valve



Art.	Α	В	С	D	Е	F
140T-04-15	1/2"	15	124	54	50	34
140C-04-15	1/2"	15	99	54	50	34
140TS-04-15	1/2"	15	124	54	50	34

Art. 115TA

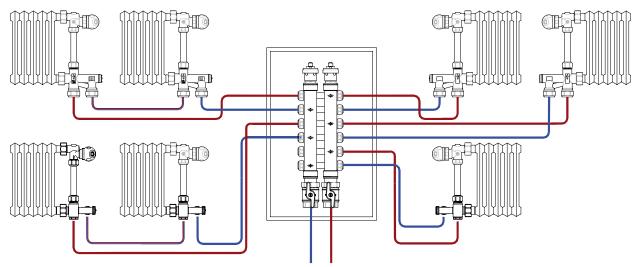
Thermostatisable straight valve with curve



Art.	Α	В	С	D	Е	F	G
115TA-04-15	1/2"	15	40	56	96	68	60



Installation diagram



Series 140

Reverse valve with fitting



Art. 140M-04-15 - Manual reverse valve with monobloc compression fitting for copper pipe Ø15 Art. 208-04-15.



Art. 140T-04-15 - Thermostatisable reverse valve with knob and monobloc compression fitting for copper pipe Ø15 Art. 208-04-15.

Art. 140C-04-15 - Thermostatisable reverse valve with cap and monobloc compression fitting for copper pipe Ø15 Art. 208-04-15.



Art. 140TS-04-15 - Thermostatisable reverse valve with knob, rotary bleed and monobloc compression fitting for copper pipe Ø15 Art. 208-04-15.

Art. 115TA-04-15

Thermostatisable straight valve with knob, 90° curve and fitting



Thermostatisable straight valve with 90° curve, with knob and monobloc compression fitting for copper pipe Ø15 Art. 208- 04-15.

Series 141

Single/Dual 4-way distributor, 3/4" underfloor connections



Art. 141-04-15 – SINGLE PIPE 4-way distributor, 50% flow, 3/4"M Eurocone underfloor connections and monobloc compression fitting for copper pipe Ø15 Art. 208-04-15.

Art. 141T-04-15 – DUAL PIPE 4-way distributor, 100% flow, 3/4"M Eurocone underfloor connections and monobloc compression fitting for copper pipe Ø15 Art. 208-04-15.

Series 142

Single/Dual 4-way distributor, 3/4" wall connections



Art. 142-04-15 - SINGLE PIPE 4-way distributor, 50% flow, 3/4"M Eurocone wall connections and monobloc compression fitting for copper pipe Ø15 Art. 208-04-15.

Art. 142T-04-15 - DUAL PIPE 4-way distributor, 100% flow, 3/4"M Eurocone wall connections and monobloc compression fitting for copper pipe Ø15 Art. 208-04-15.

Art. 116

Thermostatic head



Thermostatic head with integrated liquid type sensor. Antifreeze protection and full shut-off. Regulation scale from 0 to 28°C.

Art. 116S

Thermostatic head with remote sensor



Thermostatic head for thermostatisable radiator valves. Remote sensor with liquid type sensing element. Antifreeze protection and full shut-off.