

Single pipe valve

886-888

ICMA

TECHNICAL DATA SHEET - 08/2020 - ENG

Description

The manual valves 886 and 888 offer possibility to be reversible and can be used on radiator systems with single-pipe ring type.

The valves can be installed only through the lower radiator connection, which is used both as fluid inlet and outlet.



886



888

Technical features

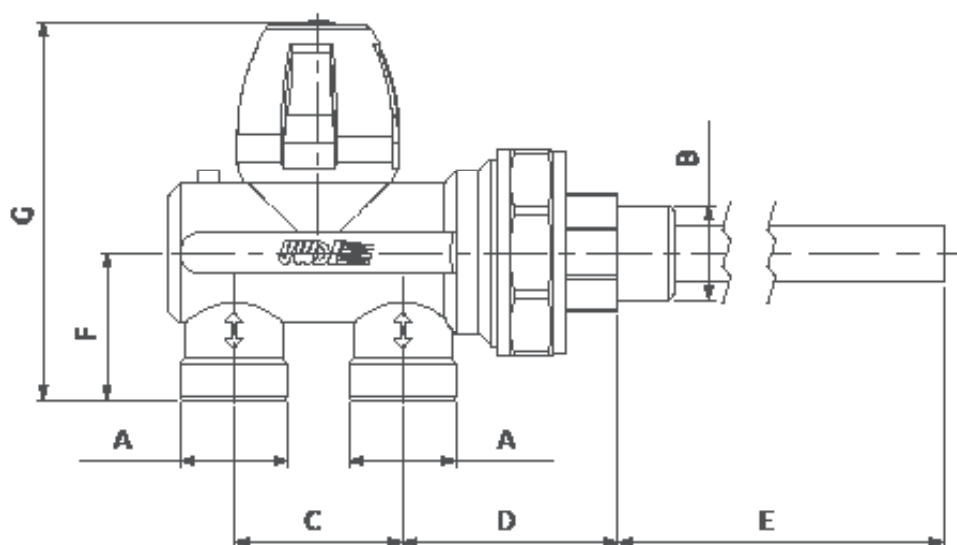
Technical data

Working fluids:	Water and glycol based solutions
Max percentage of glycol:	30%
Max working pressure:	10 Bar
Pressione max differenziale:	1 Bar
Max working temperature:	100°C
Max flow to radiator:	60%

Materials

Body:	Brass CW617N - EN12165
Lock ring:	Brass CW617N - EN 12164
Obturator:	Brass CW617N - EN 12164
Rod:	Brass CW617N - EN 12164
Stop ring:	Bronze phosphorus
Obturator guide:	Acet. CV 25%
Knob:	ABS white
Screw:	Steel
Cup:	Brass CW617N - EN 12165
Pipe union:	Brass CW617N - EN 12165
Probe assembly:	Various - see ST (856-891)
Gasket:	EPDM perox

Dimensions



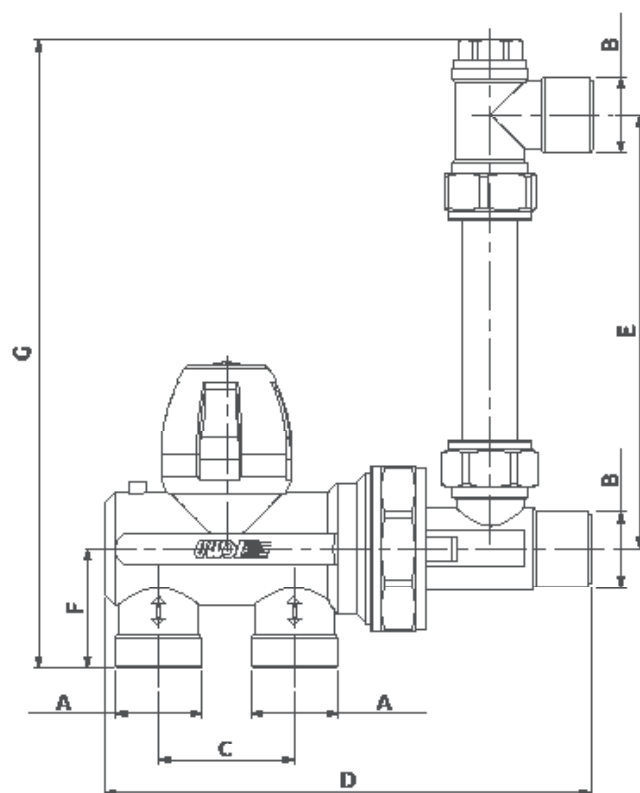
SERIE	CODE	A	B	C	D	E	F	G
886	81886AD06	24x1,5	1/2"	37,5	48	387	33	84,5
886	81886AE06	24x1,5	3/4"	37,5	48	387	33	84,5
886	81886AF06	24x1,5	1"	37,5	48	387	33	84,5

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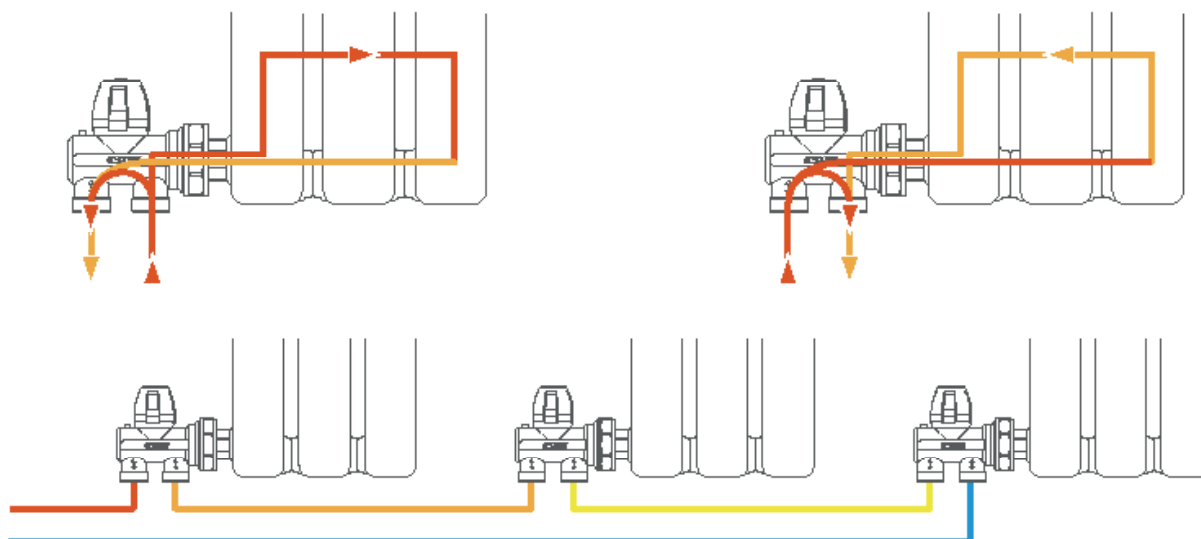
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SERIE	CODE	A	B	C	D	E	F	G
886	81888AD06	24x1,5	1/2"	37,5	134,5	120	33	174

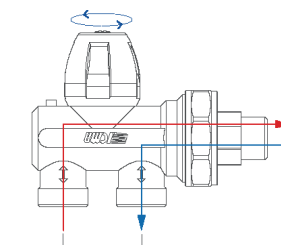
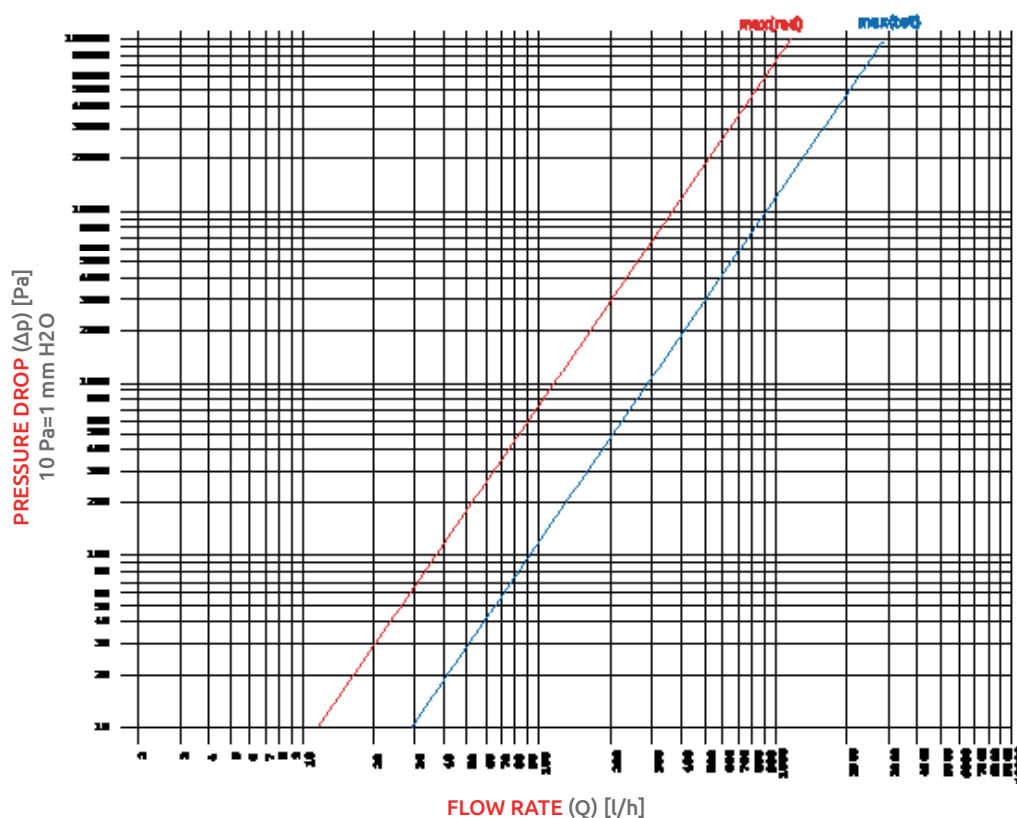
Operating Principle

In single-pipe systems, the radiators are connected in series, with respect to each manifold derivation. However, the 886 and 888 series valves, set up for this type of system, send only 60% of the flow to the radiator, while the remaining part of fluid is bypassed and routed to the next radiator. In this way the radiators can be intercepted individually (for exclusion or maintenance), allowing the functioning of the radiators installed further downstream.

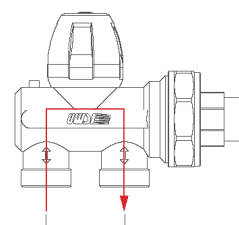


/ Pressure Loss

One-pipe valve Art. 886-888
PRESSURE DROP DIAGRAM



*V



N° setting (by-pass screw)	*K _{v,rad} [m ³ /h]	*K _{v,tot} [m ³ /h]	%Rad
0	0	2,94	0
1	0,28	2,45	11
2	1,02	2,18	46
3	1,04	1,85	56
4	1,10	1,80	62

$$K_{v,rad} = \frac{Q_{rad}}{\sqrt{\Delta p}} \quad K_{v,tot} = \frac{Q_{by} + Q_{rad}}{\sqrt{\Delta p}}$$