

## Manifold kit art. CI 595CN - CI 596CN



CI 595CN and CI 596CN kits are distribution systems consisting of delivery and return manifolds with built-in mounting brackets for an easy housing into the box. Delivery manifolds feature FLUXER devices by which the circuits can be balanced and flow rates can be read directly. Return manifolds are equipped with thermostatically controllable inserts for flow interception, and protecting caps. With respect to CI 595CN, CI 596CN kit features a free way both on the delivery and on the return manifolds for fill-drain cocks and automatic air-vent valves. All distribution manifolds are obtained from drawn brass bars with a special profile. They are machined and assembled automatically by innovative machinery; they then undergo stress relief heat treatment, in order to minimise crack risk. Each manifold is tested under pressure with all the fittings and accessories mounted to be sure that there are no leaks. Threads on the main column connections comply with ISO228 standard. Derivation pipes are connected by means of two types of fittings, M24×1.5 thread or 3/4" EUROKONUS, sealed by glued o-rings to ensure

they do not loosen when disassembling the fitting. Where foreseen, manifolds are available both with "yellow" and nickel-plated surface (product code final "N"). CI-series manifold kits are suitable for radiant floor heating systems. In particular, with FLUXER devices installed on delivery manifolds, one can monitor the flow rate of each branch through a spyglass with graduated scale and indicator. Besides, FLUXER devices allow to balance each single outtake and to keep memory of the selected setting, which is particularly useful in case of temporary closure due to maintenance operations.

### ■ TECHNICAL FEATURES

Max operating temperature: 90 °C  
Max operating pressure: 10 bar

#### *FLUXER*

Adjustment range: 0÷5 l/min  
Precision: ±10 %

### ■ MATERIALS

Brass parts: CW617N

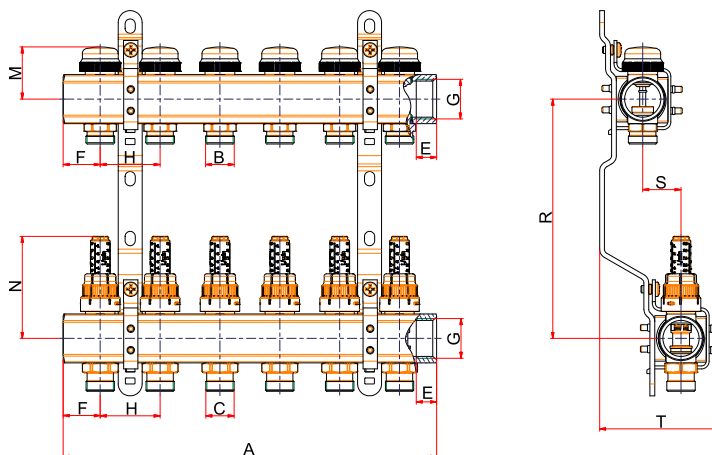
Seal parts: peroxide EPDM  
Protecting caps: ABS

#### *FLUXER*

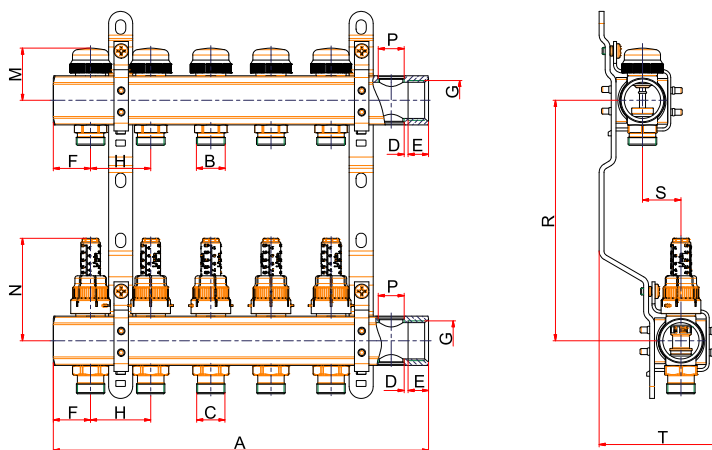
Body: PPA  
Shutter: PA MXD6  
Seal: peroxide EPDM  
Lock ring: PPO and PS blend  
Indicator: PA 12  
Spindle: PSU  
Spyglass: transparent PA 12  
Cover: ABS

## DIMENSIONS

**CI 595CN. Kit of adjustment manifold with integrated flow meter and on-off manifolds with protecting caps, built-in brackets and fittings (delivery: CI 600N; return: CI 554CN)**



**CI 596CN. Kit of adjustment manifold with integrated flow meter and on-off manifolds with protecting caps, built-in brackets and fittings, and additional connections for air-vent valves and fill-drain taps (delivery: CI 601N; return: CI 555MN)**



### CI 595CN - Dimensions and product codes

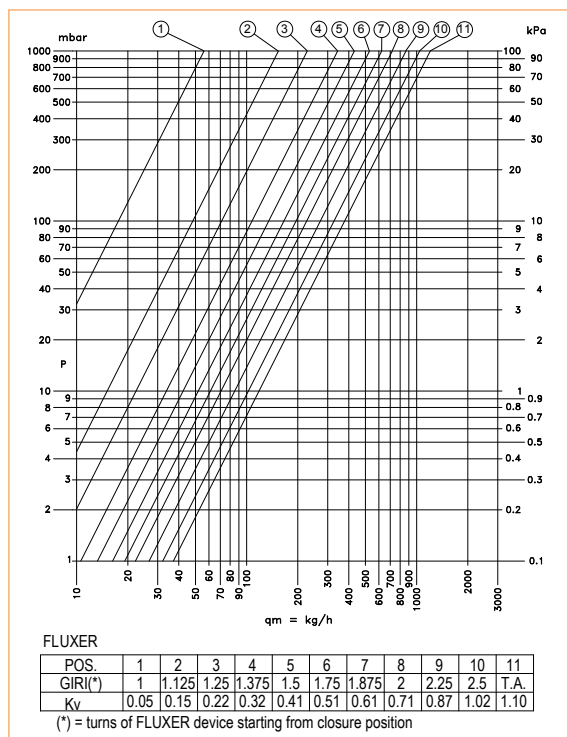
WAYS	COD.	SIZE	A	B	C	D	E	F	G	H	M	N	P	R	S	T
2	502292CN	1"×M24	112	M24×1.5	M24×1.5	17	31	1"		50	44	85				
	500082CN	1"×EK		3/4"	3/4"											
	502312CN	1 1/4"×M24	114	M24×1.5	M24×1.5											
	502142CN	1 1/4"×EK		3/4"	3/4"											
3	502293CN	1"×M24	162	M24×1.5	M24×1.5	17	31	1"		50	44	85				
	500083CN	1"×EK		3/4"	3/4"											
	502313CN	1 1/4"×M24	164	M24×1.5	M24×1.5											
	502143CN	1 1/4"×EK		3/4"	3/4"											
4	502294CN	1"×M24	212	M24×1.5	M24×1.5	17	31	1"		50	44	85				
	500084CN	1"×EK		3/4"	3/4"											
	502314CN	1 1/4"×M24	214	M24×1.5	M24×1.5											
	502144CN	1 1/4"×EK		3/4"	3/4"											
5	502295CN	1"×M24	262	M24×1.5	M24×1.5	17	31	1"		50	44	85				
	500085CN	1"×EK		3/4"	3/4"											
	502315CN	1 1/4"×M24	264	M24×1.5	M24×1.5											
	502145CN	1 1/4"×EK		3/4"	3/4"											
6	502296CN	1"×M24	312	M24×1.5	M24×1.5	17	31	1"		50	44	85				
	500086CN	1"×EK		3/4"	3/4"											
	502316CN	1 1/4"×M24	314	M24×1.5	M24×1.5											
	502146CN	1 1/4"×EK		3/4"	3/4"											
7	502297CN	1"×M24	362	M24×1.5	M24×1.5	17	31	1"		50	44	85				
	500087CN	1"×EK		3/4"	3/4"											
	502317CN	1 1/4"×M24	364	M24×1.5	M24×1.5											
	502147CN	1 1/4"×EK		3/4"	3/4"											
8	502298CN	1"×M24	412	M24×1.5	M24×1.5	17	31	1"		50	44	85				
	500088CN	1"×EK		3/4"	3/4"											
	502318CN	1 1/4"×M24	414	M24×1.5	M24×1.5											
	502148CN	1 1/4"×EK		3/4"	3/4"											
9	502299CN	1"×M24	462	M24×1.5	M24×1.5	17	31	1"		50	44	85				
	500089CN	1"×EK		3/4"	3/4"											
	502319CN	1 1/4"×M24	464	M24×1.5	M24×1.5											
	502149CN	1 1/4"×EK		3/4"	3/4"											
10	502300CN	1"×M24	512	M24×1.5	M24×1.5	17	31	1"		50	44	85				
	500090CN	1"×EK		3/4"	3/4"											
	502320CN	1 1/4"×M24	514	M24×1.5	M24×1.5											
	502150CN	1 1/4"×EK		3/4"	3/4"											
11	502301CN	1"×M24	562	M24×1.5	M24×1.5	17	31	1"		50	44	85				
	500091CN	1"×EK		3/4"	3/4"											
	502321CN	1 1/4"×M24	564	M24×1.5	M24×1.5											
	502151CN	1 1/4"×EK		3/4"	3/4"											
12	502302CN	1"×M24	612	M24×1.5	M24×1.5	17	31	1"		50	44	85				
	500092CN	1"×EK		3/4"	3/4"											
	502322CN	1 1/4"×M24	614	M24×1.5	M24×1.5											
	502152CN	1 1/4"×EK		3/4"	3/4"											
13	502303CN	1"×M24	662	M24×1.5	M24×1.5	17	31	1"		50	44	85				
	500093CN	1"×EK		3/4"	3/4"											
	502323CN	1 1/4"×M24	664	M24×1.5	M24×1.5											
	502153CN	1 1/4"×EK		3/4"	3/4"											

### CI 596CN - Dimensions and product codes

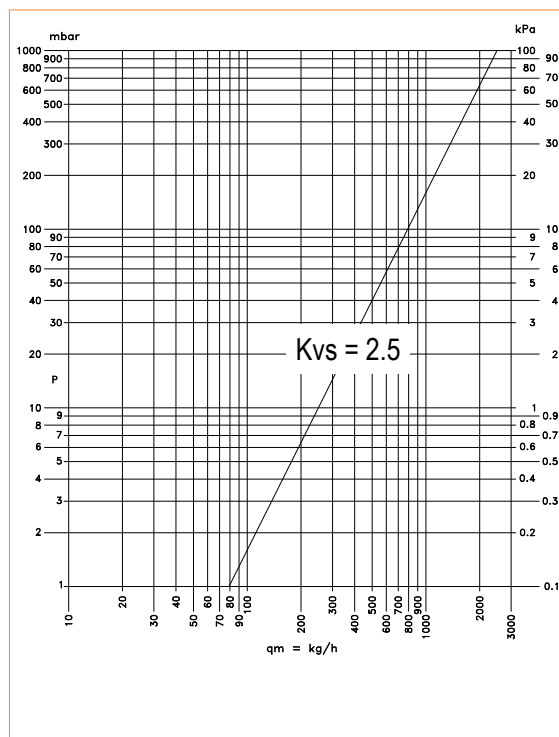
WAYS	COD.	SIZE	A	B	C	D	E	F	G	H	M	N	P	R	S	T
2	502332CN	1"×M24	162	M24×1.5	M24×1.5	1/2"	17	31	1"	50	44	85	1/2"	200	32	100
	502252CN	1"×EK		3/4"	3/4"											
	502352CN	1 1/4"×M24	164	M24×1.5	M24×1.5											
	502272CN	1 1/4"×EK		3/4"	3/4"											
3	502333CN	1"×M24	212	M24×1.5	M24×1.5											
	502253CN	1"×EK		3/4"	3/4"											
	502353CN	1 1/4"×M24	214	M24×1.5	M24×1.5											
	502273CN	1 1/4"×EK		3/4"	3/4"											
4	502334CN	1"×M24	262	M24×1.5	M24×1.5											
	502254CN	1"×EK		3/4"	3/4"											
	502354CN	1 1/4"×M24	264	M24×1.5	M24×1.5											
	502274CN	1 1/4"×EK		3/4"	3/4"											
5	502335CN	1"×M24	312	M24×1.5	M24×1.5											
	502255CN	1"×EK		3/4"	3/4"											
	502355CN	1 1/4"×M24	314	M24×1.5	M24×1.5											
	502275CN	1 1/4"×EK		3/4"	3/4"											
6	502336CN	1"×M24	362	M24×1.5	M24×1.5											
	502256CN	1"×EK		3/4"	3/4"											
	502356CN	1 1/4"×M24	364	M24×1.5	M24×1.5											
	502276CN	1 1/4"×EK		3/4"	3/4"											
7	502337CN	1"×M24	412	M24×1.5	M24×1.5											
	502257CN	1"×EK		3/4"	3/4"											
	502357CN	1 1/4"×M24	414	M24×1.5	M24×1.5											
	502277CN	1 1/4"×EK		3/4"	3/4"											
8	502338CN	1"×M24	462	M24×1.5	M24×1.5											
	502258CN	1"×EK		3/4"	3/4"											
	502358CN	1 1/4"×M24	464	M24×1.5	M24×1.5											
	502278CN	1 1/4"×EK		3/4"	3/4"											
9	502339CN	1"×M24	512	M24×1.5	M24×1.5											
	502259CN	1"×EK		3/4"	3/4"											
	502359CN	1 1/4"×M24	514	M24×1.5	M24×1.5											
	502279CN	1 1/4"×EK		3/4"	3/4"											
10	502340CN	1"×M24	562	M24×1.5	M24×1.5											
	502260CN	1"×EK		3/4"	3/4"											
	502360CN	1 1/4"×M24	564	M24×1.5	M24×1.5											
	502280CN	1 1/4"×EK		3/4"	3/4"											
11	502341CN	1"×M24	612	M24×1.5	M24×1.5											
	502261CN	1"×EK		3/4"	3/4"											
	502361CN	1 1/4"×M24	614	M24×1.5	M24×1.5											
	502281CN	1 1/4"×EK		3/4"	3/4"											
12	502342CN	1"×M24	662	M24×1.5	M24×1.5											
	502262CN	1"×EK		3/4"	3/4"											
	502362CN	1 1/4"×M24	664	M24×1.5	M24×1.5											
	502282CN	1 1/4"×EK		3/4"	3/4"											

## HYDRAULIC FEATURES

### Delivery manifold (single way)



### Return manifold (single way)

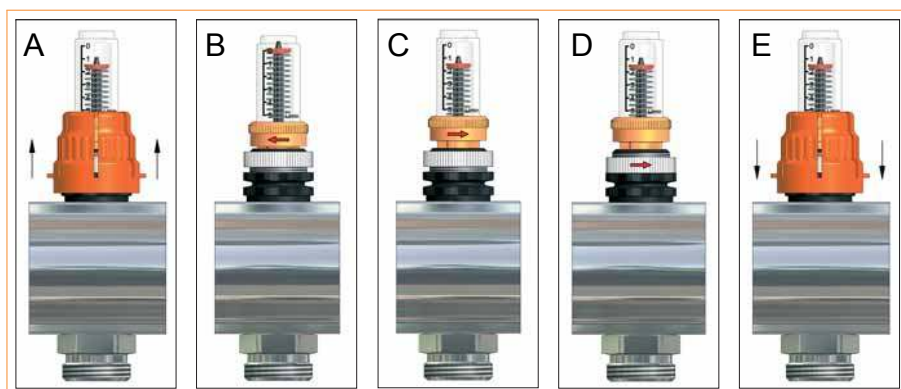


## OPERATING INSTRUCTIONS

### Adjustment

FLUXER devices allow the adjustment and the balancing of each outtake 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:

1. Remove the orange cover as in Fig.1-A;
2. Set the FLUXER in closure position by turning the upper lock ring in the direction indicated by the arrow in Fig.1-B;  
NB: in closure position, the indicator points a null flow-rate;
3. Open the device by turning the same lock ring in the opposite direction (Fig.1-C), and check the correct flow rate through the spyglass;
4. Screw the lower lock ring in the direction indicated in Fig.1-D, until mechanical stop;
5. Put back the orange cover (Fig.1-E);



**Fig. 1:** FLUXER adjustment and block.

I.V.A.R. S.p.A.  
 Via IV Novembre 181  
 25080 Prevalle (BS)  
 Tel. +39 030 68028  
 Fax +39 030 6801329  
 www.ivar.eu - info@ivar.eu

*I.V.A.R. S.p.A. reserves the right to make enhancements and changes to products and relative documentation at any time without prior notice. All rights reserved. Reproduction, even partial, is forbidden without prior permission by the copyright owner.*