



# **60 YEARS OF ITALIAN TRADITION**

Luxor is an important industrial reality, world wide and European market leader in the production of flexible hoses and components for hydro and thermo-sanitary installations. Luxor has been the expression of the most prestigious made in Italy and the great Italian high technology mechanical workings tradition for fifty years; a quality certified and recognized by the most prestigious International Certification Institutes all over the world.

Our mission is the complete customer satisfaction through a process of continuous technological research in order to make high quality, reliable products, anticipating the market evolutions by innovative partnership with both customers and suppliers. Luxor mission takes place in its own Research and Development Centre in which new and advanced technologies are constantly analyzed and researched with continuous investments to offer the most innovative and reliable solutions for the international markets at competitive costs, ensuring strict quality controls on each single piece.

Luxor entirely plans and realizes each product, thanks to its decennial know how. The great production strength, a "slender" innovative and advanced industrial organization together with a modern logistic conception, make Luxor able to satisfy every kind of request, even customized, with fast deliveries all over the world.



specifications and certified products or visit the website of the corresponding certification body for the latter. Please refer to www.nsf.org for a complete list of NSF approved products.

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STAINLESS STEEL DISTRIBUTION MANIFOLDS

# 2.5 / CX SERIES

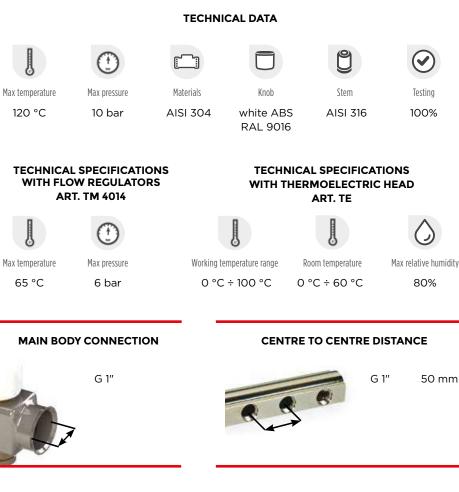
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# СХ STAINLESS STEEL DISTRIBUTION MANIFOLDS



Do only use Luxor manifolds with Luxor accessories with soft o-ring sealing. All of Luxor fittings and accessories for manifolds (such as drain valves, plugs, etc.) are provided with this kind of sealing and do not require any intermediate sealing element (PTFE, hemp, etc.), which could result in cracks.

We recommend to tighten the fittings to a maximum torque of 60 Nm.



# LOCKSHIELD VALVE

Adjusting and balancing manifolds (lockshield type) feature a double micrometric adjustment with memory of position in case of temporary shutdowns and can be mounted both on inlets and outlets of the system.

The tightening device on the stem of the manifolds with built-in valves for thermoelectric adjustment can be inspected and replaced while the system is operating. The control stem is in AISI 316 stainless steel and its tightness is ensured by two peroxide cured EPDM o-rings.

All manifolds CX series are 100% checked with an electronically controlled pneumatic test.

the inlet.

FLOW REGULATORS AND

HOLDERS

With regulators and flow me-

ters TM 4012, adjusting and ba-lancing manifolds allow for an

immediate verification of the

system's balance by reading the

flow rate. This adjustment can be

locked through a block cap. The

glass and the measuring spring

can be disassembled for maintenance and cleaned while the

system is operating. This kind

of manifold must be installed on





Copper pipe W 24x19 - TR 91 G 3/4 EK - TR 91/A

SYSTEM CONNECTIONS

**Plastic pipe** W 24x19 - TP 95 G 3/4 EK - TP 98



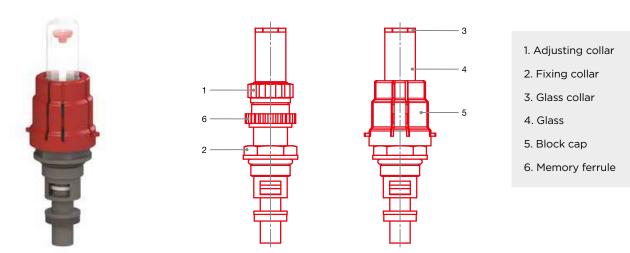
**Multilayer pipe** W 24x19 - TP 97 G 3/4 EK - TP 99





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# DISTRIBUTION MANIFOLDS FOR HEATING SYSTEMS WITH **INLET REGULATOR / FLOW METERS**



#### ADJUSTMENT INSTRUCTIONS FOR MANIFOLDS WITH INLET REGULATOR/FLOW METERS

#### **BALANCING OF THE HYDRAULIC CIRCUITS**

The theoretical flow rate of a hydraulic circuit, assigned by a technician, is given by the adjustment carried out through the regulator/flow meters TM 4014 (code 69000017) assembled on the flow inlet.

The adjustment must be carried out with the valve on the return circuit fully open.

Since the flow rates of each heating ring affect each other, each single heating ring has to be adjusted until the values in litres/minute laid down in the project are satisfactorily reached.

#### FLOWMETER "MEMORY-STOP" FUNCTION

Blocking system of the opening grade of the flowmeter which allows, once the system is reopened, the stopping of the run at its initial setting (project value).

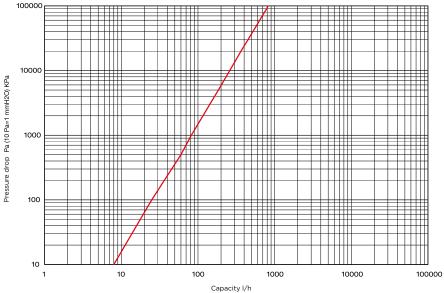
- 1) Set the Flowmeter control to the design value. The control wheel must be removed during this operation;
- 2) Turn the "Memory stop" ferrule anticlockwise (left-hand thread) to the end of its travel;
- 3) Put the control wheel back on. The individual circuit can be closed by turning the wheel clockwise. By turning it the other way up to the stop it is possible to reopen the circuit to the set design value;

Using the two holes in the control wheel it is possible to seal the Flowmeter so as to prevent tampering with the setting.

#### TM 4014 FLOWMETER 0.5 L

∆P Pa	∆P Kpa	Q I/h
10	0,01	8
100	0,1	25
500	0,5	60
1000	1	82
5000	5	185
10000	10	260
20000	20	365
30000	30	450
40000	40	520
50000	50	585
60000	60	640
70000	70	690
80000	80	740
90000	90	785
100000	100	825





Warning: do NOT use any tools to turn/manipulate the Flowmeter, as to do so could stop it working properly.

#### CLEANING

The glass and the measuring spring can be disassembled for maintenance and cleaned.

This can be done as follows even while the system is operating:

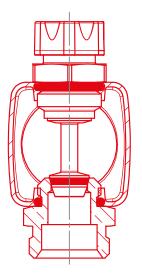
- close the top meter and the screw placed on the return manifold:
- unscrew the glass applying strength on the collar and take it out - be careful not to lose the measuring spring;
- during this operation, a negligible water leakage will appear:
- if necessary, the glass can now be easily cleaned:
- to reassemble, follow the above instructions in reverse.

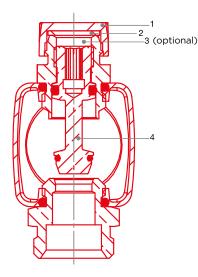
#### PRESSURE DROP

The total pressure drop of the heating circuit is made up by various pressure drops: water return valve, pipes and regulator/flow meters.

2

# DISTRIBUTION MANIFOLDS FOR HEATING SYSTEMS WITH BUILT-IN LOCKSHIELDS





- 1. ABS plug
- 2. Gasket
- 3. Adjusting collar, code 3346656
- 4. Obturator

# ADJUSTMENT INSTRUCTIONS FOR MANIFOLDS WITH LOCKSHIELDS

Unscrew the plug (1). Screw the obturator with a hex key until it reaches the closed position.

After these operations the lockshield is ready to be set. The relation between the Kv value, the position of the obturator and the corresponding curve, are described in the differential pressure diagram chart. This means that by unscrewing the obturator for a certain number of turns, it is possible to obtain the required Kv value.

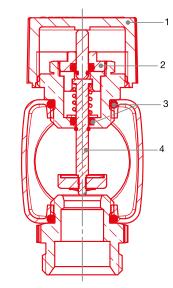
# EXAMPLE

- Curve n. 1: 1/2 turn of the screw Kv 0,09
- Curve n. 3: 1+1/2 turn of the screw Kv 0,76

Using the collar code 33466656 (supplied separately) it is possible to create a mechanical stop of the obturator. Once the flow rate has been set through the obturator, the regulating collar must be screwed to the obturator. It is now possible to open and close the obturator without losing the position of the previously set regulation.

In case of water leakage from the screw stem, the sealing assembly can be tightened until the flow comes to a full stop. Should the leakage continue, the whole sealing assembly can be replaced by following the instructions below while the group is operating.

- Remove the protection cap, the knob, the thermostatic head or the thermoelectric head;
- Unscrew the sealing assembly with a 9mm key blocking the screw body with a 19mm key;
- Replace the part with article code 67980200 screwing it in with a 9mm key;
- Replace the protection cap, the knob, the thermostatic head or the thermoelectric head.



1. ABS plug or manual knob

2. Sealing assembly item 516

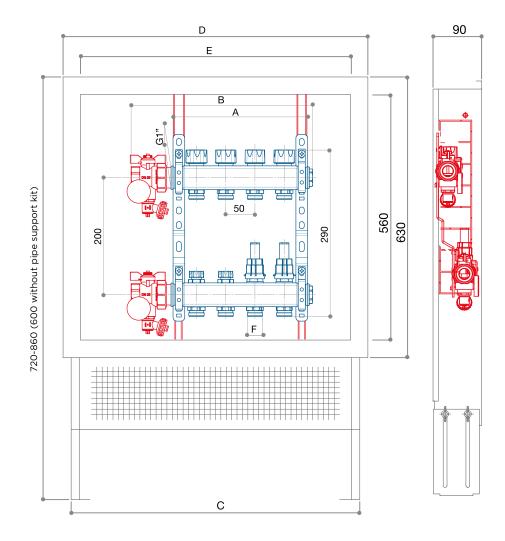
- 3. Gasket
- 4. Obturator

Sealing assembly item 516



# HOW TO CHOOSE THE RIGHT CABINET

# G 1" MANIFOLD



							САВІ	NETS
OUTLETS	А	в	С	D	Е	F	ITEM	CODE
2	130	210						
3	180	260						
4	230	310	500	560	490		CF 490	68561405
5	280	360						
6	330	410						
7	380	460						
8	430	510	700	700 760 690 W24x19			CF 490	68561407
9	480	560	700	760	690	-	CF 490	08501407
10	530	610				G 3/4 EK		
11	580	660						
12	630	710	850	910	840		CF 490	68561408
13	680	760						
14	730	810						
15	780	860	1000	1060	990		CF 490	68561410
16	830	910						

LUXOR

# STAINLESS STEEL DISTRIBUTION MANIFOLDS



Pre-assembled distribution manifold consisting of:

- 1 return manifold with built-in valves set for thermoelectric
- adjustment and protection caps
- 1 inlet manifold with built in
- lockshields fit for double regulation
- 2 metal brackets.

# CX 2465

CODE	SIZE	OUTLETS N°				Ŕ	$\supset$	
15512402X		2	TR 91	TP 95	TP 97	1,331	1	-
15512403X		3	TR 91	TP 95	TP 97	1,756	1	-
15512404X		4	TR 91	TP 95	TP 97	2,166	1	-
15512405X		5	TR 91	TP 95	TP 97	2,552	1	-
15512406X		6	TR 91	TP 95	TP 97	2,998	1	-
15512407X		7	TR 91	TP 95	TP 97	3,384	1	-
15512408X	G 1"	8	TR 91	TP 95	TP 97	3,782	1	-
15512409X	X	9	TR 91	TP 95	TP 97	4,108	1	-
15512410X	(W24x19)	10	TR 91	TP 95	TP 97	4,602	1	-
15512411X		11	TR 91	TP 95	TP 97	5,008	1	-
15512412X		12	TR 91	TP 95	TP 97	5,438	1	-
15512413X		13	TR 91	TP 95	TP 97	5,832	1	-
15512414X		14	TR 91	TP 95	TP 97	5,914	1	-
15512415X		15	TR 91	TP 95	TP 97	6,303	1	-
15512416X		16	TR 91	TP 95	TP 97	6,692	1	-

CX 2468

CODE	SIZE	OUTLETS N°			1	ଜ	$\square$	
15512702X		2	TR 91/A	TP 98	TP 99	1,138	1	-
15512703X		3	TR 91/A	TP 98	TP 99	1,756	1	-
15512704X		4	TR 91/A	TP 98	TP 99	2,166	1	-
15512705X		5	TR 91/A	TP 98	TP 99	2,552	1	-
15512706X		6	TR 91/A	TP 98	TP 99	2,998	1	-
15512707X		7	TR 91/A	TP 98	TP 99	3,384	1	-
15512708X	G 1"	8	TR 91/A	TP 98	TP 99	3,782	1	-
15512709X	Х	9	TR 91/A	TP 98	TP 99	4,108	1	-
15512710X	G 3/4 EK	10	TR 91/A	TP 98	TP 99	4,602	1	-
15512711X		11	TR 91/A	TP 98	TP 99	5,008	1	-
15512712X		12	TR 91/A	TP 98	TP 99	5,438	1	-
15512713X		13	TR 91/A	TP 98	TP 99	5,832	1	-
15512714X		14	TR 91/A	TP 98	TP 99	6,306	1	-
15512715X		15	TR 91/A	TP 98	TP 99	6,723	1	-
15512716X		16	TR 91/A	TP 98	TP 99	7,140	1	-

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Pre-assembled distribution manifold consisting of:

- 1 return manifold with built-in valves set for thermoelectric adjustment and protection caps
- 1 inlet manifold with regulator/flow meters
- 2 metal brackets.

## CX 2478

CODE	SIZE	OUTLETS N°			-	Ŵ	$\supset$	
15612402X		2	TR 91	TP 95	TP 97	1,276	1	-
15612403X		3	TR 91	TP 95	TP 97	1,666	1	-
15612404X		4	TR 91	TP 95	TP 97	2,040	1	-
15612405X		5	TR 91	TP 95	TP 97	2,412	1	-
15612406X		6	TR 91	TP 95	TP 97	2,804	1	-
15612407X		7	TR 91	TP 95	TP 97	3,160	1	-
15612408X	G 1"	8	TR 91	TP 95	TP 97	3,528	1	-
15612409X	X	9	TR 91	TP 95	TP 97	3,856	1	-
15612410X	(W24x19)	10	TR 91	TP 95	TP 97	4,280	1	-
15612411X		11	TR 91	TP 95	TP 97	4,652	1	-
15612412X		12	TR 91	TP 95	TP 97	5,042	1	-
15612413X		13	TR 91	TP 95	TP 97	5,424	1	-
15612414X		14	TR 91	TP 95	TP 97	5,525	1	-
15612415X		15	TR 91	TP 95	TP 97	5,886	1	-
15612416X		16	TR 91	TP 95	TP 97	6,247	1	-

CX 2473

CODE	SIZE	OUTLETS N°			1	Ŕ	$\supset$	
15612702X		2	TR 91/A	TP 98	TP 99	1,082	1	-
15612703X		3	TR 91/A	TP 98	TP 99	1,666	1	-
15612704X		4	TR 91/A	TP 98	TP 99	2,040	1	-
15612705X		5	TR 91/A	TP 98	TP 99	2,412	1	-
15612706X		6	TR 91/A	TP 98	TP 99	2,804	1	-
15612707X		7	TR 91/A	TP 98	TP 99	3,160	1	-
15612708X	G 1"	8	TR 91/A	TP 98	TP 99	3,528	1	-
15612709X	Х	9	TR 91/A	TP 98	TP 99	3,856	1	-
15612710X	G 3/4 EK	10	TR 91/A	TP 98	TP 99	4,280	1	-
15612711X		11	TR 91/A	TP 98	TP 99	4,652	1	-
15612712X		12	TR 91/A	TP 98	TP 99	5,042	1	-
15612713X		13	TR 91/A	TP 98	TP 99	5,424	1	-
15612714X		14	TR 91/A	TP 98	TP 99	5,917	1	-
15612715X		15	TR 91/A	TP 98	TP 99	6,306	1	-
15612716X		16	TR 91/A	TP 98	TP 99	6,695	1	-

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MANIFOLDS

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# PRE-ASSEMBLED STAINLESS STEEL DISTRIBUTION MANIFOLDS WITH INSTALLATION ACCESSORIES



Pre-assembled distribution manifold consisting of:

- 1 return manifold with built-in valves set for thermoelectric adjustment and manual
- control knob
- 1 inlet manifold with built-in lockshields fit for double regulation.

CX 2465M	CODE	SIZE	OUTLETS N°			and the second sec	ŝ	$\supset$	
	15512402MX		2	TR 91	TP 95	TP 97	2,658	1	-
	15512403MX		3	TR 91	TP 95	TP 97	3,276	1	-
	15512404MX		4	TR 91	TP 95	TP 97	3,686	1	-
	15512405MX		5	TR 91	TP 95	TP 97	4,072	1	-
	15512406MX		6	TR 91	TP 95	TP 97	4,518	1	-
	15512407MX		7	TR 91	TP 95	TP 97	4,904	1	-
	15512408MX	G 1"	8	TR 91	TP 95	TP 97	5,302	1	-
	15512409MX	Х	9	TR 91	TP 95	TP 97	5,628	1	-
	15512410MX	(W24x19)	10	TR 91	TP 95	TP 97	6,122	1	-
	15512411MX		11	TR 91	TP 95	TP 97	6,528	1	-
	15512412MX		12	TR 91	TP 95	TP 97	6,958	1	-
	15512413MX		13	TR 91	TP 95	TP 97	7,352	1	-
	15512414MX		14	TR 91	TP 95	TP 97	7,313	1	-
	15512415MX		15	TR 91	TP 95	TP 97	7,702	1	-
	15512416MX		16	TR 91	TP 95	TP 97	8,090	1	-

CX 2468M	CODE	SIZE	OUTLETS N°				kg	$\geq$	
	15512702MX		2	TR 91/A	TP 98	TP 99	2,658	1	-
	15512703MX		3	TR 91/A	TP 98	TP 99	3,276	1	-
	15512704MX		4	TR 91/A	TP 98	TP 99	3,686	1	-
	15512705MX		5	TR 91/A	TP 98	TP 99	4,072	1	-
	15512706MX		6	TR 91/A	TP 98	TP 99	4,518	1	-
	15512707MX		7	TR 91/A	TP 98	TP 99	4,904	1	-
	15512708MX	G 1"	8	TR 91/A	TP 98	TP 99	5,302	1	-
	15512709MX	Х	9	TR 91/A	TP 98	TP 99	5,628	1	-
	15512710MX	G 3/4 EK	10	TR 91/A	TP 98	TP 99	6,122	1	-
	15512711MX		11	TR 91/A	TP 98	TP 99	6,528	1	-
	15512712MX		12	TR 91/A	TP 98	TP 99	6,958	1	-
	15512713MX		13	TR 91/A	TP 98	TP 99	7,352	1	-
	15512714MX		14	TR 91/A	TP 98	TP 99	7,705	1	-
	15512715MX		15	TR 91/A	TP 98	TP 99	8,122	1	-
	15512716 MX		16	TR 91/A	TP 98	TP 99	8,538	1	-





- Pre-assembled distribution manifold consisting of:
- 1 return manifold with built-in valves set for thermoelectric adjustment and manual control knob
- 1 inlet manifold with regulator/flow meters.

## CX 2478N

M	CODE	SIZE	OUTLETS N°			Jan	<u>ه</u>	$\geq$	
	15612402MX		2	TR 91	TP 95	TP 97	2,602	1	-
	15612403MX		3	TR 91	TP 95	TP 97	3,186	1	-
	15612404MX		4	TR 91	TP 95	TP 97	3,560	1	-
	15612405MX		5	TR 91	TP 95	TP 97	3,932	1	-
	15612406MX		6	TR 91	TP 95	TP 97	4,324	1	-
	15612407MX		7	TR 91	TP 95	TP 97	4,680	1	-
	15612408MX	G 1"	8	TR 91	TP 95	TP 97	5,048	1	-
	15612409MX	х	9	TR 91	TP 95	TP 97	5,376	1	-
	15612410MX	(W24x19)	10	TR 91	TP 95	TP 97	5,800	1	-
	15612411MX		11	TR 91	TP 95	TP 97	6,172	1	-
	15612412MX		12	TR 91	TP 95	TP 97	6,562	1	-
	15612413MX		13	TR 91	TP 95	TP 97	6,944	1	-
	15612414MX		14	TR 91	TP 95	TP 97	6,924	1	-
	15612415MX		15	TR 91	TP 95	TP 97	7,285	1	-
ľ	15612416MX	1	16	TR 91	TP 95	TP 97	7,646	1	-

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C A	~	4/	3	IV

M	CODE	SIZE	OUTLETS N°			1	Ŕ	$\square$	
	15612702MX		2	TR 91/A	TP 98	TP 99	2,602	1	-
	15612703MX		3	TR 91/A	TP 98	TP 99	3,186	1	-
	15612704MX		4	TR 91/A	TP 98	TP 99	3,560	1	-
	15612705MX		5	TR 91/A	TP 98	TP 99	3,932	1	-
	15612706MX		6	TR 91/A	TP 98	TP 99	4,324	1	-
	15612707MX		7	TR 91/A	TP 98	TP 99	4,680	1	-
	15612708MX	G 1"	8	TR 91/A	TP 98	TP 99	5,048	1	-
	15612709MX	Х	9	TR 91/A	TP 98	TP 99	5,376	1	-
	15612710MX	G 3/4 EK	10	TR 91/A	TP 98	TP 99	5,800	1	-
	15612711MX		11	TR 91/A	TP 98	TP 99	6,172	1	-
	15612712MX		12	TR 91/A	TP 98	TP 99	6,562	1	-
	15612713MX		13	TR 91/A	TP 98	TP 99	6,944	1	-
	15612714MX		14	TR 91/A	TP 98	TP 99	7,316	1	-
	15612715MX		15	TR 91/A	TP 98	TP 99	7,705	1	-
	15612716MX		16	TR 91/A	TP 98	TP 99	8,094	1	-



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# MULTIPURPOSE WATER INLET BALL VALVE



# TECHNICAL DATA



# **CONSTRUCTIVE FEATURES**

Multipurpose water inlet ball valves are manufactured in CW617N brass and compatible with Luxor manifolds and components.

Multipurpose water inlet ball valves' pivot pin is installed from the inside. This system, known as "explosion-proof", prevents the pivot pin and its sealing system from escaping, while making external tampering impossible as well. Ball valves feature two elastomeric O-ring seals, chosen for their high resistance to ageing.



#### FUNCTIONS

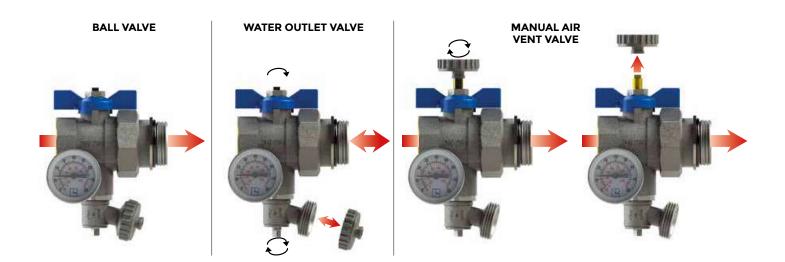
Multipurpose ball valves are extremely compact and may be installed on either right or left of the manifold simply by placing the thermometer on the desired side.

These valves are called "multipurpose" because they combine a number of functions in one product:

• Ball valve: allowing to intercept the flow to the manifold.

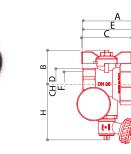
• **Manual air vent valve:** the handle's stem features a manual air vent which may be operated through the drive on the plug of the water inlet/outlet valve. The position of the vent on the upper side of the valve facilitates the complete expulsion of air from the system, thus allowing for optimal operation.

• **Integrated thermometer** for temperature display: may be installed on either side according to the intended use.



# **MULTIPURPOSE WATER INLET BALL VALVE**





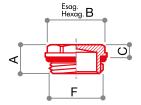
# VC 481

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Multipurpose water inlet ball valve with manual air vent, blue or red butterfly handle and CR 498 fitting with O-ring for manifold connection, complete with 0°C ÷80°C thermometer.

CODE	SIZE	А	В	С	D	Е	F	G	Н	L	g	$\geq$	
68559722B	G 1"	81	41	60	38	70	G 1"	G 1"	70	-	645	4	32
68559722R	G 1"	81	41	60	38	70	G 1"	G 1"	70	-	645	4	32





# TC 460 Cap with o-ring seal.

CODE	SIZE	PLATED	А	В	С	D	Е	F	G	Н	L	ĝ	$\supset$	
68559934N	G 1"	NICKEL	19	27	9	-	-	G 1"	-	-	-	52	50	400

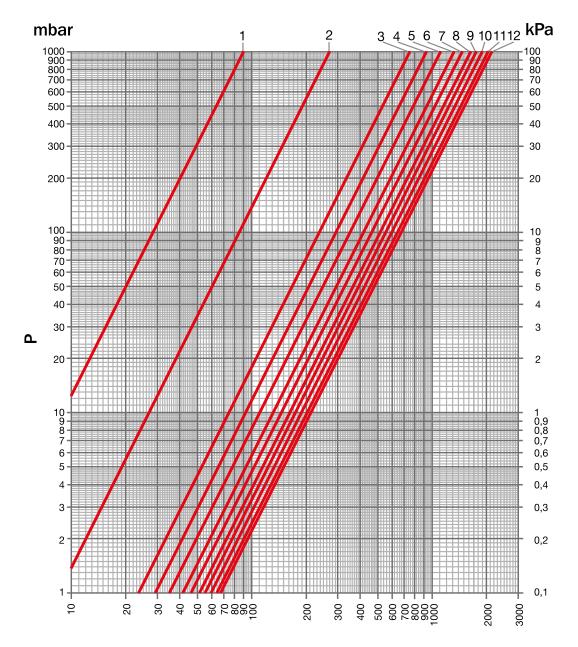


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# MANIFOLDS FLOW RATE CHART

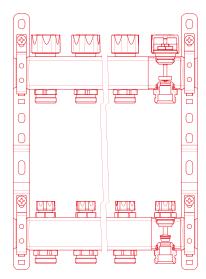
## DISTRIBUTION MANIFOLDS WITH BUILT IN LOCKSHIELDS



qm = kg/h

ITEM	SIZE	TURNS N°	Kvs	POS
		1/2	0,09	1
	G 1"	1	0,27	2
		1+1/2	0,75	3
		2	0,93	4
		2+1/2	1,11	5
CX 2468		3	1,31	6
CX 2468		3+1/2	1,48	7
		4	1,62	8
		4+1/2	1,76	9
		5	1,90	10
		5+1/2	2,02	11
		all open	2,12	12

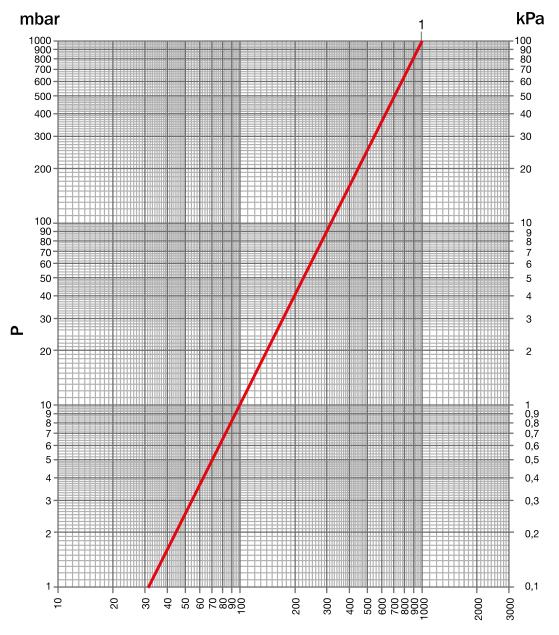
MAX SUGGESTED FLOW RATE 2860 l/h



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# MANIFOLDS FLOW RATE CHART

## DISTRIBUTION MANIFOLDS WITH FLOW METER TM

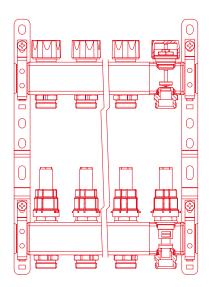


qm = kg/h

ITEM	SIZE	CX + TM	Kvs	POS
CX 2473	G 1"	TM 4014	0,99	1

MAX S	SUGGESTED	FLOW	RATE
-------	-----------	------	------

2450 l/h



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#### CONDITION OF SALE

#### ORDERS

Contracts entered by agents or representative are not definitive until they are regularly accepted by supplier. The orders sent either through our Agents or directly, are accepted under the "General Sales Conditions" described in the present Price List terms, and will agree, without reservation, to the terms below.

#### INCOTERMS

The consignments are always Ex works unless differently agreed in the sales contract.

#### **PAYMENT TERMS**

The payment terms are those specified in the offers and the order confirmation and are binding.

In case of delay of payment with respect to the agreed due terms, the commercial interest shall be calculated. The delayed payment of previous supplies will authorize us to cancel all orders in progress. Agents and representative are not entitled to collect credits, unless clearly authorised in writing by the supplier.

#### CLAIMS

Claims on quantities will be accepted within 8 days from the date of receipt of goods. The supplier will not be responsible for missing or damaged packages, unless in the despatch note it is clearly written "accepted with reservation".

#### COURT

For any controversies the place of jurisdiction shall be: the Court of Low of Brescia.

#### PRICES

Prices indicated are those clearly agreed in the contract sales confirmed by our order confirmation.

#### **DELIVERY TERMS**

The articles part of this catalogue will be consigned within a term of 90 days from order acceptance. Any date inferior to this term is not to be considered accepted unless confirmed in order confirmation.

The delivery times are not binding for the supplier, who will not respond for any damages arising directly or indirectly from delivery delays, or from a total or partial interruption of the supply.

#### PACKAGING

The standard packaging is at suppliers charges.

The standard packaging does not include special out of size or particular. Where any special packaging is required this will be at customer's charges, unless previously agreed in writing in the contract sales.

#### **RETURN OF GOODS**

No goods will be accepted without our previous authorization.

#### MINIMUM ORDER VALUE

The supplier in addition to checking the feasibility will have the right to deliver orders with a minimum value of 500 Euro.

#### WARRANTY

The guarantee terms refer to article 3 and 5 of the 199/44/CE Directive. The guarantee is supported by an adequate insurance policy for the "Product Third Party Liability". The guarantee declines any responsibility whereas the installation and the test have not been correctly carried out. The wholesalers and the retailers are compelled to illustrate to their customers and installers all the useful care for a correct installation of our materials.

#### CATALOGUE VALIDY

Illustrations, data and references published in this issue are not binding on the supplier who reserves the right to make reasonable changes, both technical and commercial, at his discretion at any time, still without lowering the design performance of the goods.