TECHNICAL CATALOGUE

ACCESSORIES FOR MANIFOLDS

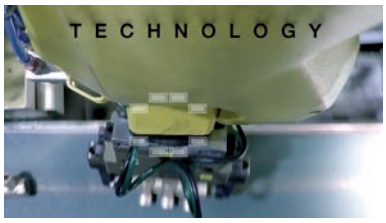
ITAP AT A GLANCE

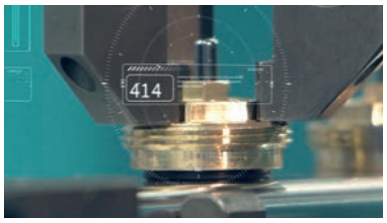
THE COMPANY

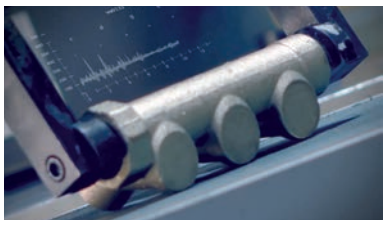
ITAP SpA, founded in Lumezzane (Brescia) in 1972, is currently one of the leading production companies in Italy of **valves, fittings and distribution manifolds** for plumbing and heating systems.

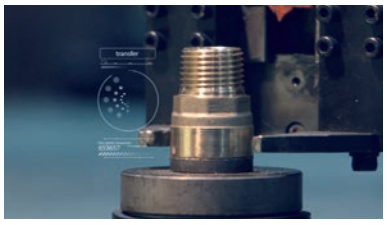
Thanks to a fully automated production process, with 85 transfer machines and 55 assembly lines, it is capable of producing 400,000 pieces per day.

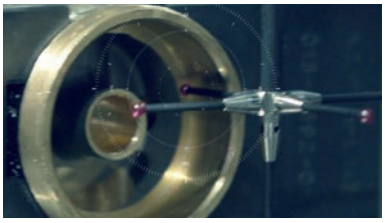
Our innate pursuit for innovation and observance of technical regulations is supported by the company certification ISO 9001. The company has always considered its focus on quality as the main tool to obtain significant business results: today ITAP SpA is proud to offer products bearing the approval of numerous international certifying bodies.











ITAP products have obtained approvals by more than 30 certification bodies from all over the world.

915CK Extension kit for manifolds

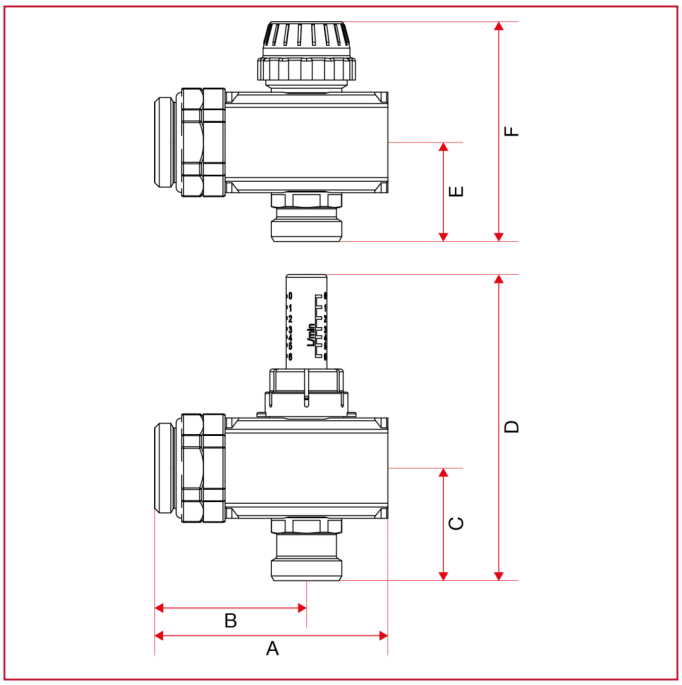
MEASURE	PRESSURE	CODE	PACKING
1"X3/4"X1"	6bar/87psi	9150010001034CK	1/12

TECHNICAL SPECIFICATIONS

Consisting of:
- 1 flow manifold in nickel-plated brass with flow meter
- 1 return manifold in nickel-plated brass with shut-off valve preset for electrothermal actuator
- 2 adjustable male/male fittings with o-ring

Maximum working temperature: 70°C
Maximum working pressure: 6 bar.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

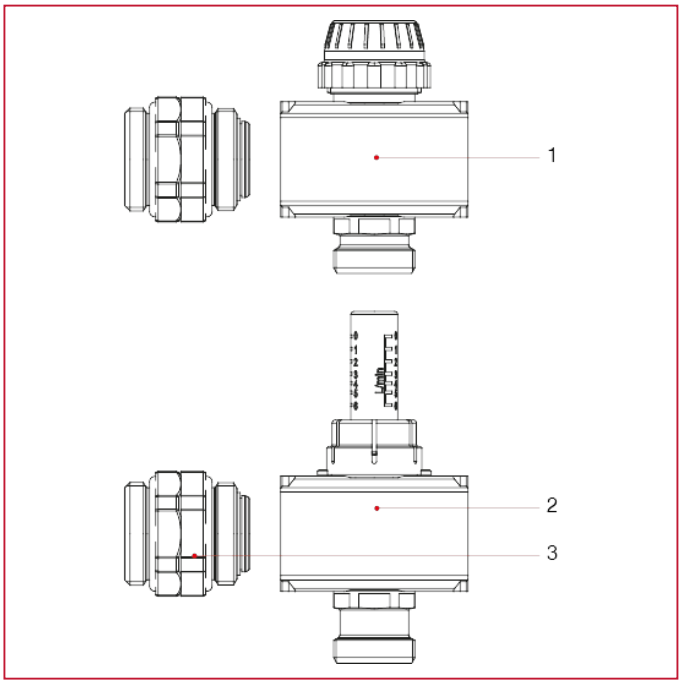
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

	1"X3/4"X 1"
A	86
B	56
C	41,5
D	113
E	36,5
F	81
Kg/cm2 bar	6
LBS - psi	87

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Single manifold with shut-off valves	1	Nickel-plated brass CW603N M-S
2	Single manifold with flow-meter	1	Nickel-plated brass CW603N M-S
3	Swivelling nipple	2	Nickel-plated brass CW617N

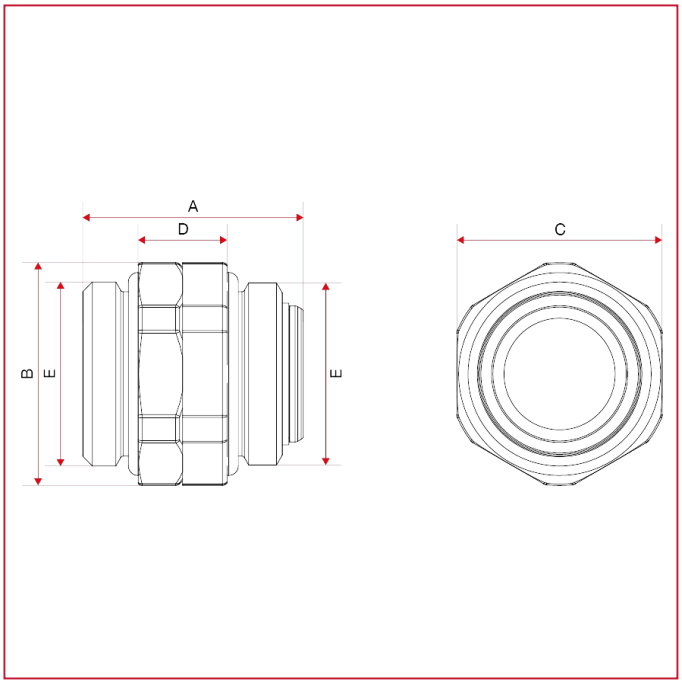
497 Adjustable male/male fitting with O-ring

MEASURE	PRESSURE	CODE	PACKING
1"	10bar/145psi	4970100	20/120

TECHNICAL SPECIFICATIONS

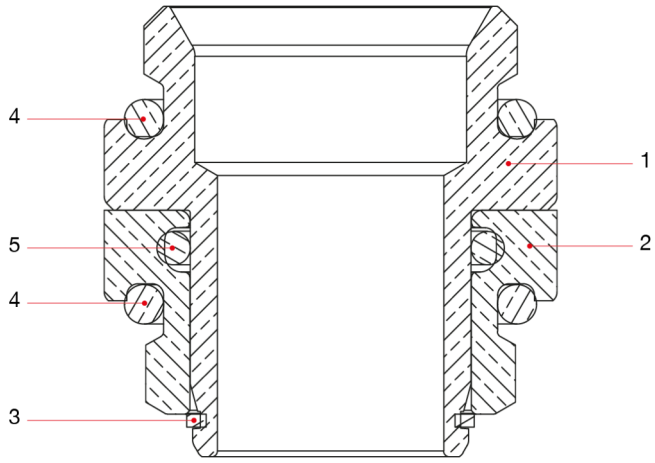
Available size: 1”x1”.
Body in nickel-plated brass.
Maximum working temperature: 100°C.
Maximum working pressure: 10 bar.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

OVERALL DIMENSIONS



	1"
A	40
B	40
C	37
D	16
E	G 1”
Kg/cm2 bar	6
LBS - psi	87

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Support	1	Nickel-plated brass CW617N
2	Nut	1	Nickel-plated brass CW617N
3	Elastic ring	1	Stainless steel AISI 302
4	O-ring	2	EPDM
5	O-ring	1	EPDM

860BY Off-centre by-pass kit

MEASURE	PRESSURE	CODE	PACKING
1"	10bar/145psi	860BY	1/22

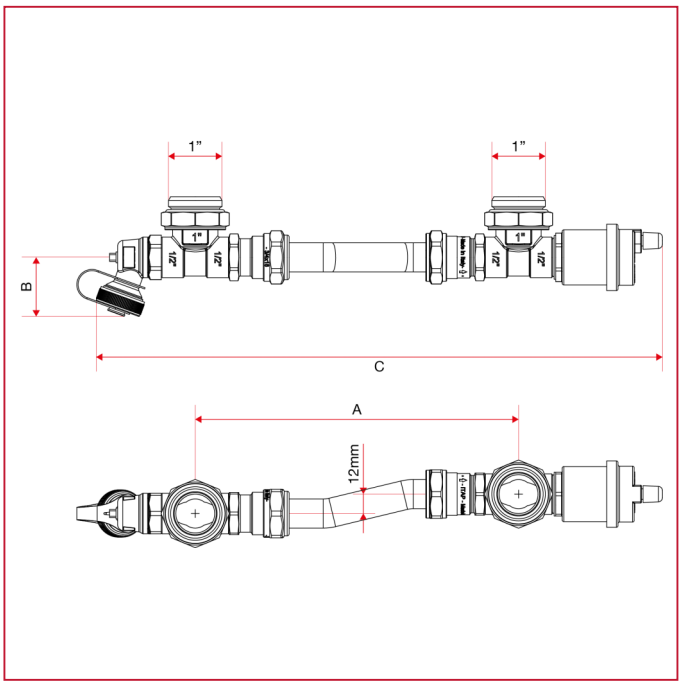
CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Consisting of:
- 2 adjustable end pieces
- off-centre by-pass pipe
- adjustable drain valve
- air vent valve

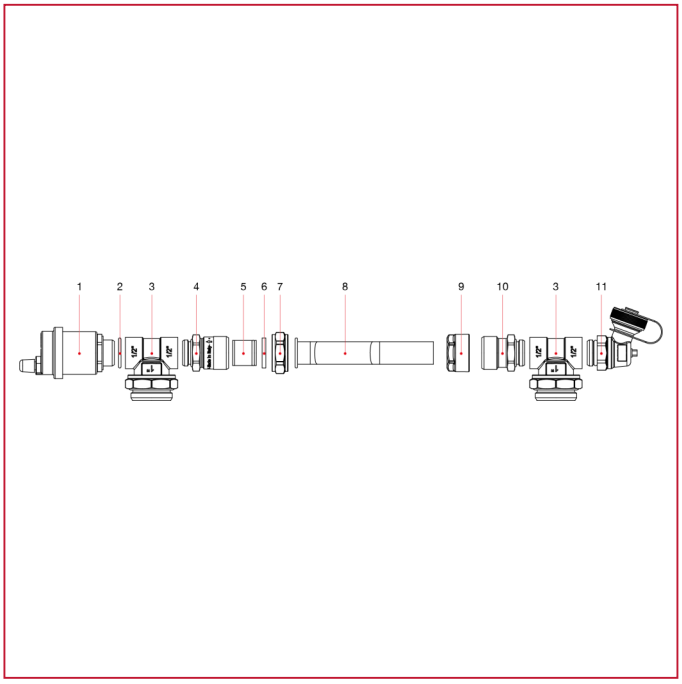
Fixed setting: 0,25 bar.
Maximum working temperature: 80°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
To be installed in metal boxes art. 498 - 498R with manifolds made out of brass bar or stainless steel.

OVERALL DIMENSIONS



	1"
A	200
B	36,5
C	350
Kg/cm2 bar	10
LBS - psi	145

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Automatic air-vent valve	1	Nickel-plated brass CW617N
2	O-ring	1	EPDM
3	Adjustable male end fitting	2	Nickel-plated brass CW617N
4	Fitting	1	Brass CW614N
5	By-pass check valve	1	POM
6	Washer	1	NBR
7	Nut	1	Nickel-plated brass CW617N
8	Pipe for by-pass	1	Copper Cu DHP
9	Compression fitting	1	Nickel-plated brass CW617N
10	Fitting	1	Brass CW614N
11	Adjustable drain valve	1	Nickel-plated brass CW617N + Polymer

DIFFERENTIAL BYPASS INSTRUCTIONS

- 1. Use

The bypass kit consists in a differential valve with fixed settings, and is used to allow constant maintenance of the differential pressure value in the event of progressive closing of the circuits. The variation in capacity and therefore the formation of excess pressure can be caused by the presence of automatic interception devices such as, for instance, the electro-thermal controls art. 891M or the thermostatic control art. 891 for heating units. The 860BY kit can be mounted in metal boxes with manifolds.

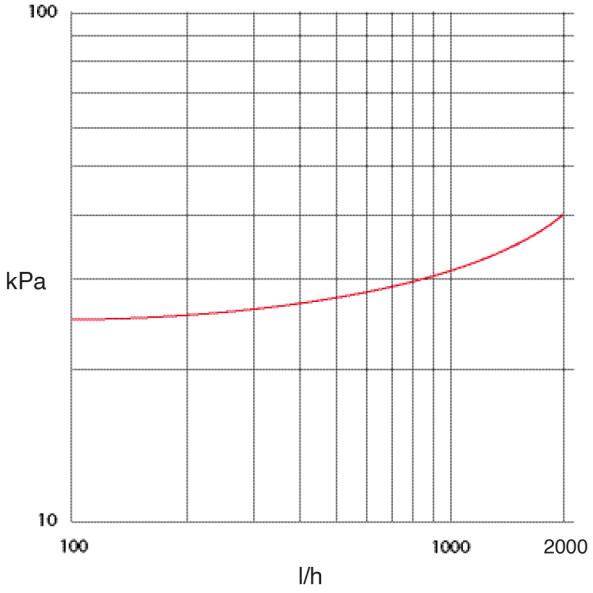
- 2. Technical features

Consisting of:
- 2 adjustable end pieces
- off-centre by-pass pipe
- adjustable drain valve
- air vent valve

Fixed setting: 0,25 bar.
Maximum working temperature: 80°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

- 3. Pressure drops

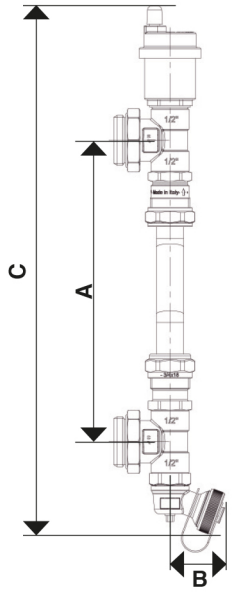
By-pass differential pressure 25KPa (0,25 bar).



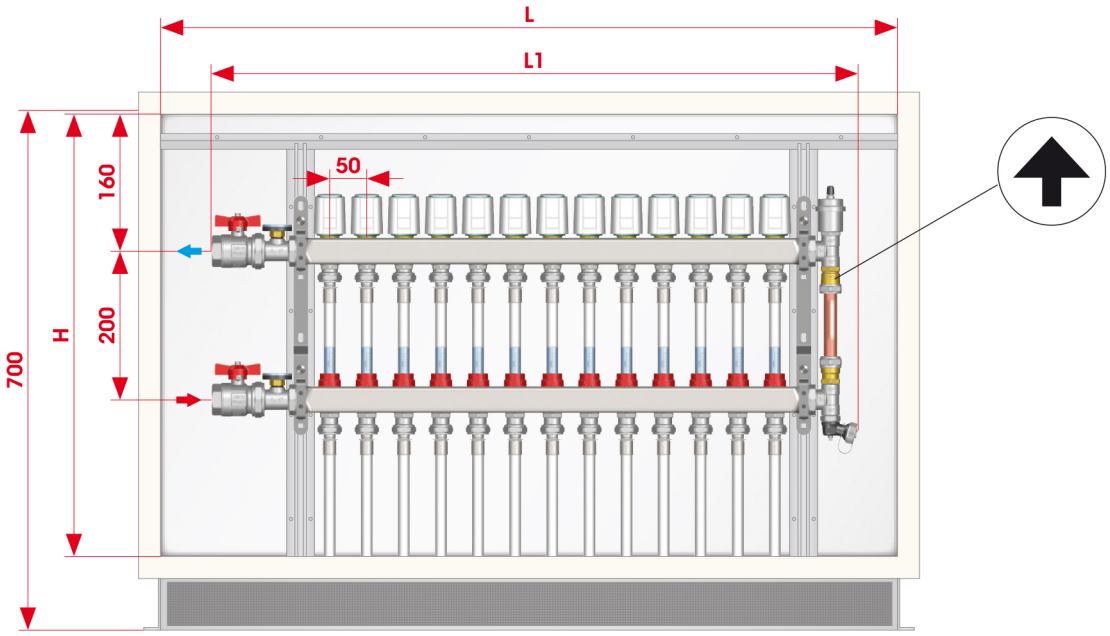
- 4. Overall dimension

ACCESSORIES FOR MANIFOLDS

	1”
A	200
B	36,5
C	350
Kg/cm²bar	10
LBS - psi	145

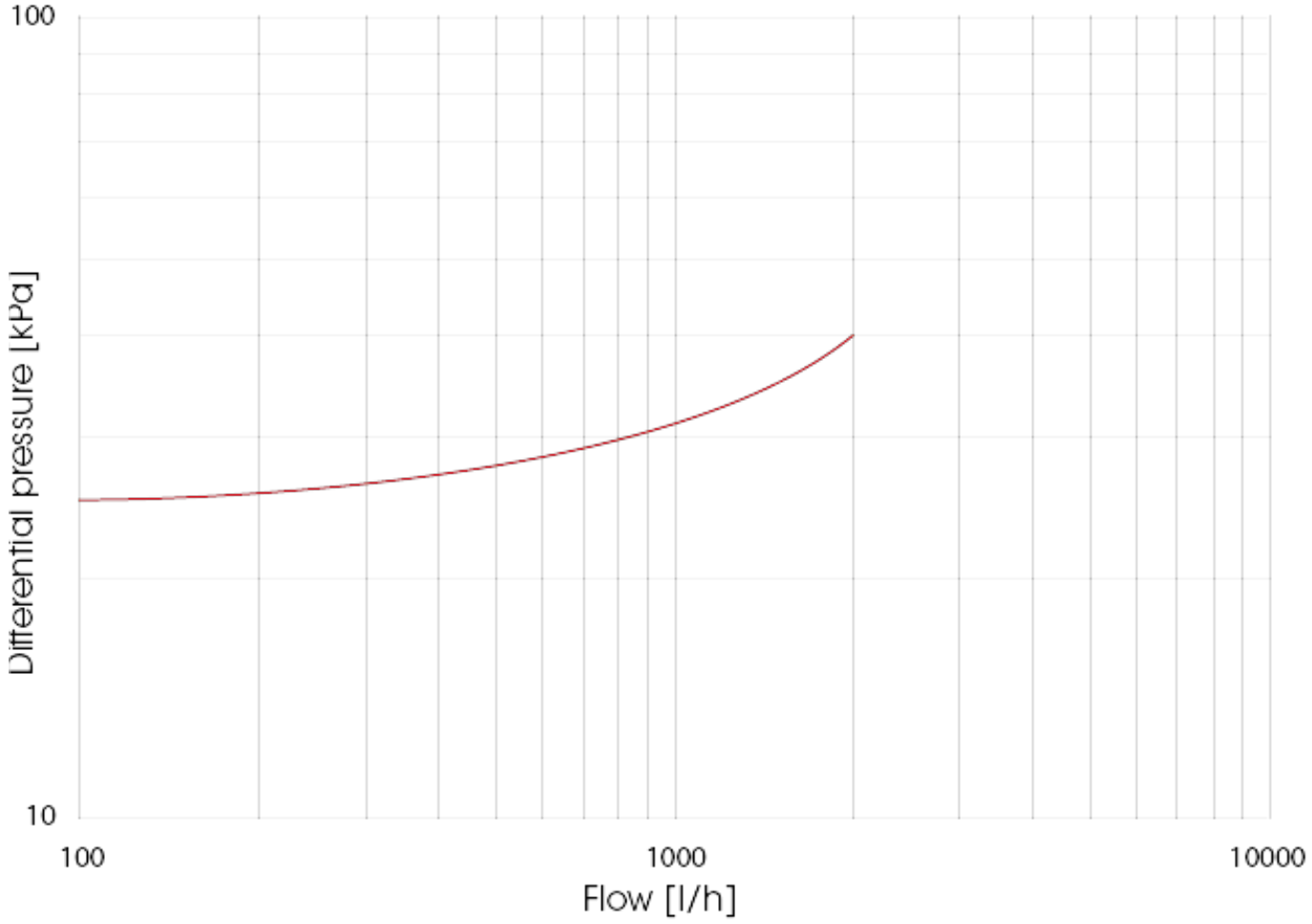


- 5. Instructions for the assembly of the BY-PASS on manifolds in boxes.
Install the differential BY-PASS kit so that the arrow is pointing towards the return manifold.



- 6. Warning
It is important to comply with all the assembly instructions so as not to jeopardize the correct functioning of the by-pass kit and also:
- To make sure that the kit is installed with the arrow directing from the flow manifold towards that of return. On the contrary, this will cause malfunction of the plant.
- Do not mechanically force the threads. As time goes by the extra stress can cause breaks and hydraulic leaks.
- Make sure that all the connections are hydraulically sealed.
- Attention! High temperatures of the thermo-vector fluid can cause serious damage to people and things. Adopt all necessary preventive actions!

LOSS DIAGRAM (With water)



891M Electrothermal actuator

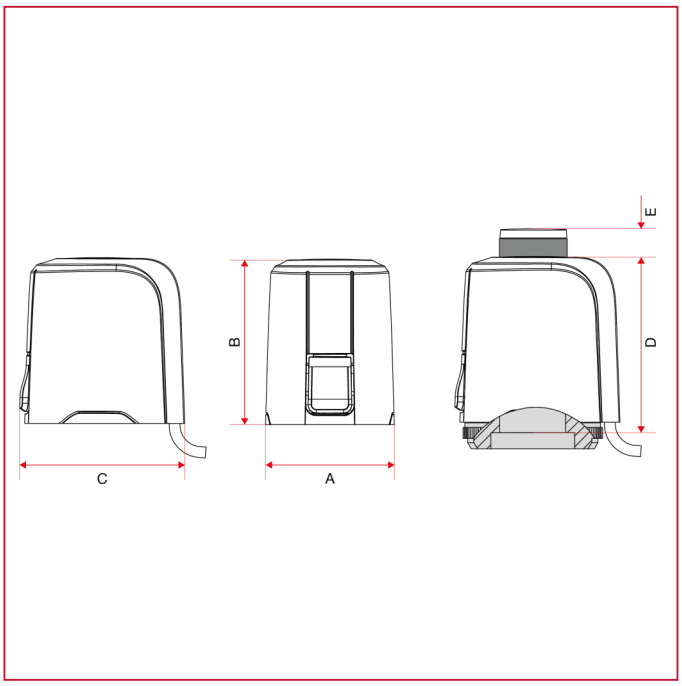
MEASURE	CODE	PACKING
230-2wires	891M2302NC	1/32
230-4wires	891M2304NC	1/26

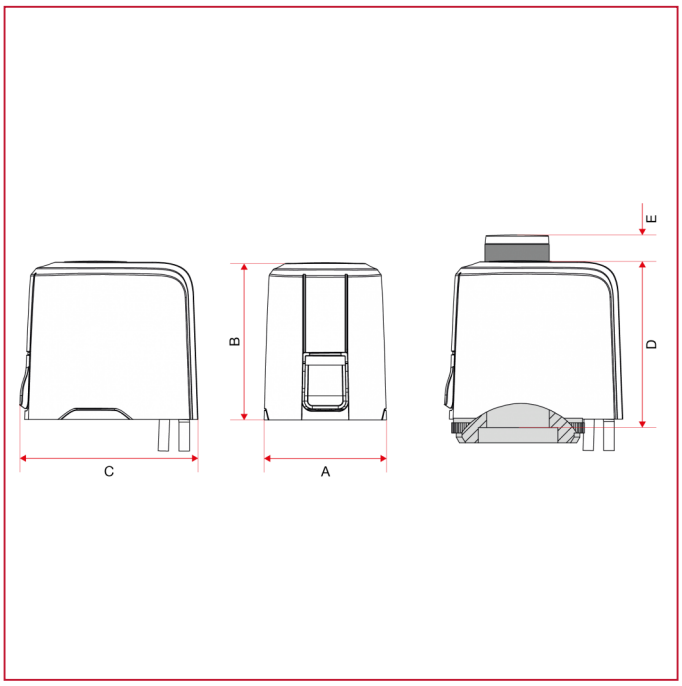
CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Suitable for pre-assembled manifols.
Normally closed, on-off operation.
Power supply voltage: 230V.
Power consumption: 1W.
Minimum and maximum working ambient temperatures: 0°C, 60°C.
Closing force: 100N.
Class of protection: IP54.
Available with 2 cables or 4 cables with an auxiliary microswitch.
Capacity of the auxiliary connection: 375mA (4-wire version).
CE marked.

OVERALL DIMENSIONS



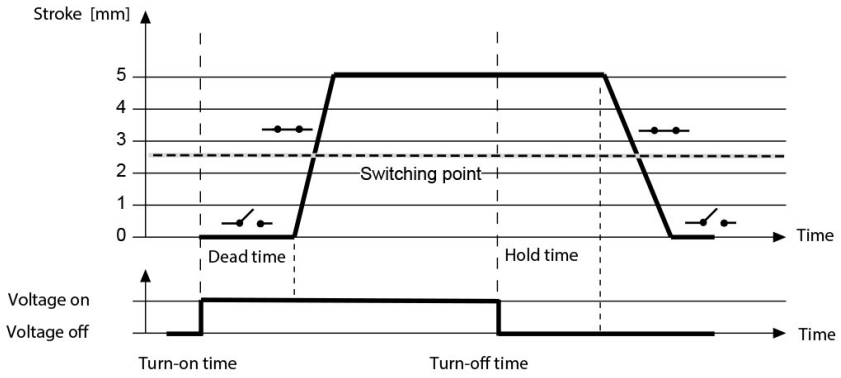


	230-2wires	230-4wires
A	39	39
B	50	50
C	50	57,2
D	53	53
E	+8	+8

INSTRUCTIONS

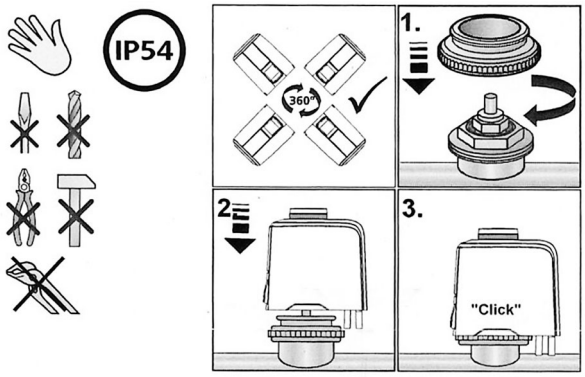
FUNCTION:

The actuator mechanism uses a PTC resistor-heated expansion unit and a compression spring. The expansion unit is heated by applying the operating voltage and moves the integrated plunger. The force generated by this movement is transferred to the plunger, thus opening the valve. The Function display shows whether the valve is open or closed; this can also be felt in the dark. The Function display extracts when the valve opens.



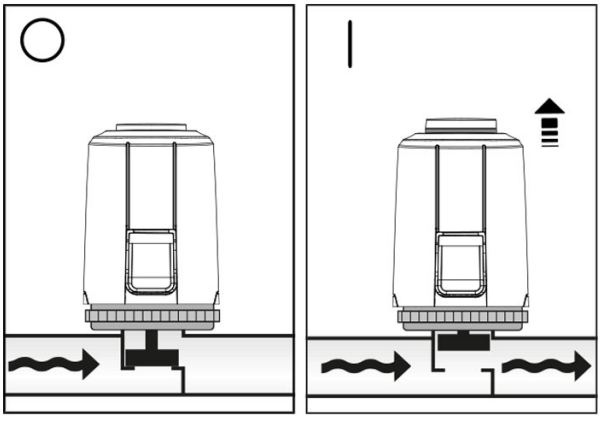
The valve is opened steadily by the plunger motion upon switching on the operating voltage and after expiry of the Dead time. After the operating voltage is cut and after expiry of the Hold time the valve is closed evenly by the closing force of the compression spring. The actuating force of the compression spring is matched to the actuating force of commercially available valves and keeps the NO valves closed when de-energized.

INSTALLATION:



DISPLAY FUNCTION:

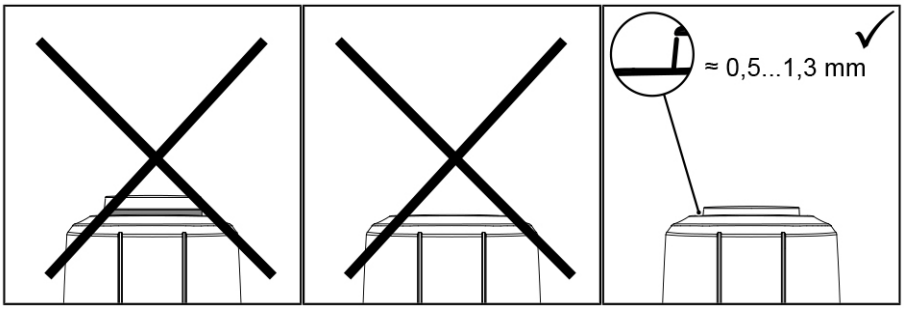
The Function display is directly visible and shows whether the valve is open or closed; this can also be felt in the dark.
Normally closed (NC): The Function display extracts when the valve opens.



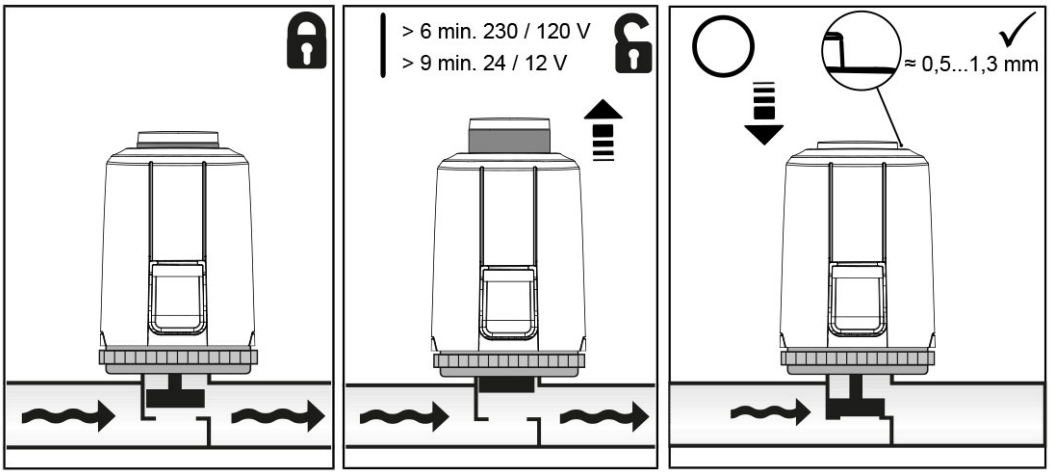
ADAPTATION CHECK:

The adaptation of the actuator on the valve after mounting is displayed via the Function display. To do this, the drive plunger

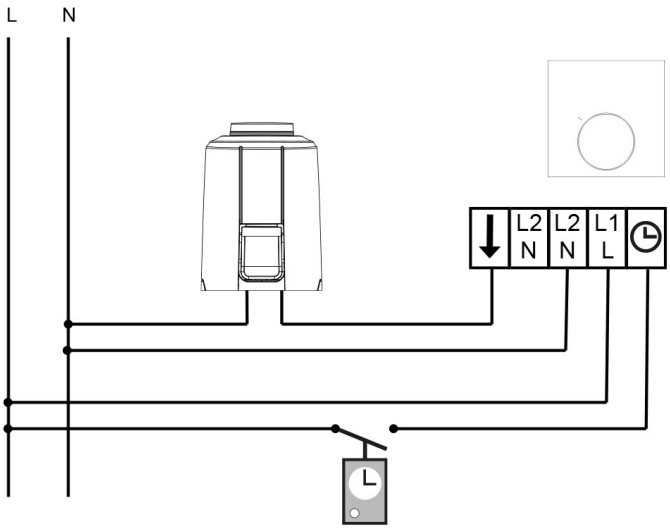
must move down to the closing point of the valve. In case of an actuator with First Open function, First-Open must be unlocked. The adjustment is visible depending on the position of the Function display.



FIRST OPEN FUNCTION:
At purchase, the First Open function allows the actuator to keep the NO valve open without current. The initial position at purchase of the actuator function indicator is approx. 3 mm. This enables heating operation during the construction phase even when the electrical wiring of the room thermoregulation system is not yet complete. During the subsequent commissioning, the application of the operating voltage (> 6 min. at 230 /120 V and > 9 min. at 24 /12 V) automatically unlocks the first opening function and the actuator is fully functional.

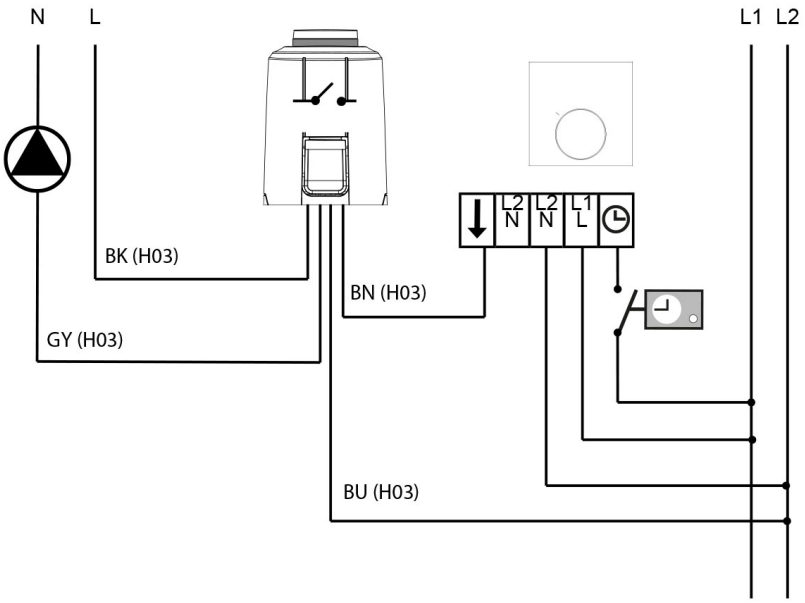


ELECTRICAL CONNECTION:
The following sheathed cables are recommended for the installation of the system: NYM 1.5 mm²
Electrical installation may only be carried out by authorised specialist personnel in accordance with current national regulations.
2-wire actuator:



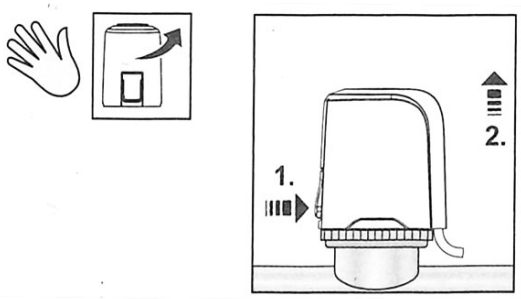
4-wire actuator:

ACCESSORIES FOR MANIFOLDS



Wire colours:
BK: Black
GY: Grey
BN: Brown
BU: Blue

DISASSEMBLY:



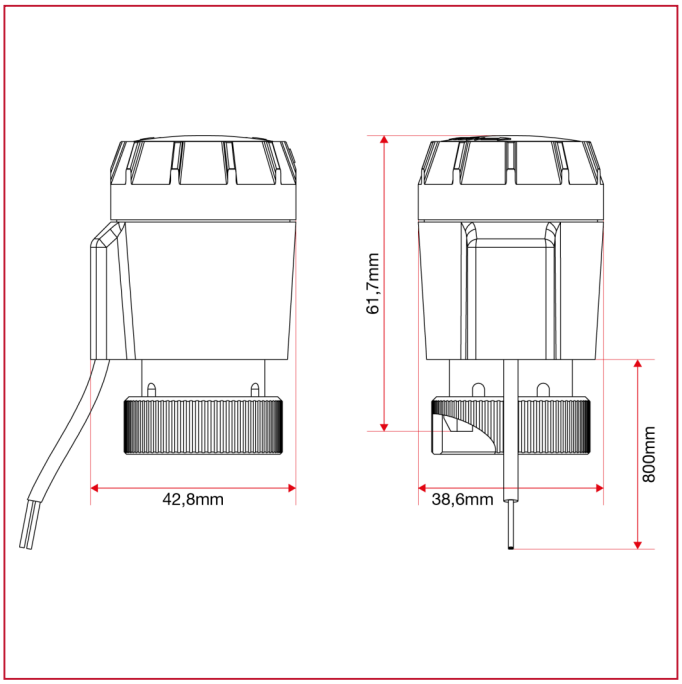
891MR Electrothermal actuator

MEASURE	CODE	PACKING
230-2wires	891M2302NCR	1/56

TECHNICAL SPECIFICATIONS

Suitable for pre-assembled manifols.
Normally closed, on-off operation.
Power supply voltage: 230V.
Power consumption: 1,2W.
Minimum and maximum working ambient temperatures: 0°C, 60°C.
Maximum differential pressure: 1,5 bar.
Class of protection: IP54.
Available with 2 cables only.
CE marked.

OVERALL DIMENSIONS



230-2wires

INSTRUCTIONS

FUNCTION:

The actuator mechanism of the actuator uses a PTC resistor-heated wax element and a compression spring.
The wax element is heated by applying the operating voltage and moves the integrated ram.
The force generated by the movement is transferred on the valve lifter and thus opens and closes the valve.

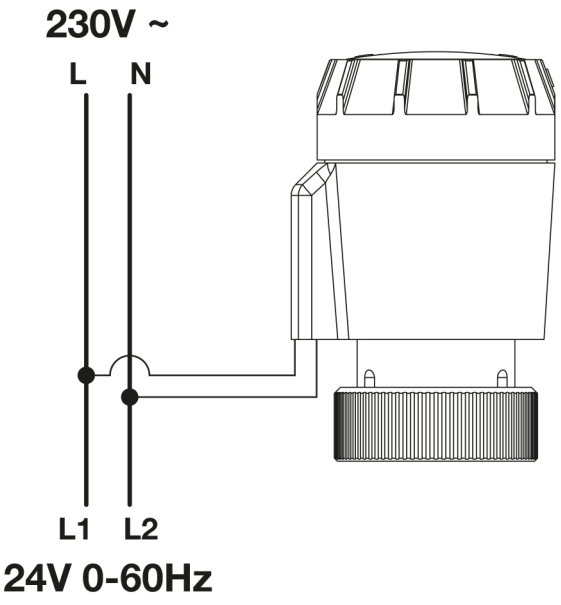
INSTALLATION:

Simply follow these specifications:

1. Remove the plastic handle or cap from our distribution manifold.
2. Turn white plastic cap anti-clockwise and put the actuator on “Man. position”.
3. Screw actuator’s nickel-plated ring on valve’s thread (M30x1,5 mm).
4. Turn white plastic cap clockwise and put the actuator on “Auto. position”.

INSTALLATION POSITION:

ELECTRICAL WIRE CONNECTION:



471FL Flow meter

MEASURE	CODE	PACKING
1/2"	471FL012	18/144

CERTIFICATIONS

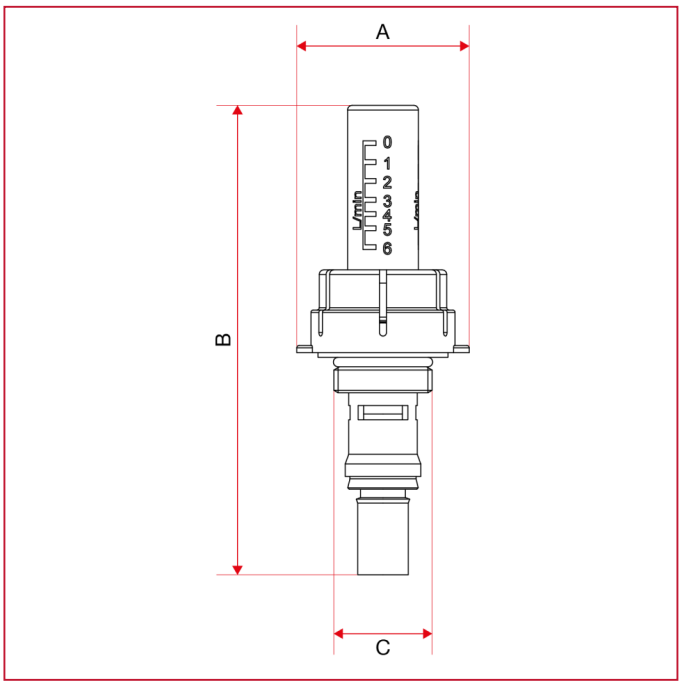
TECHNICAL SPECIFICATIONS

Flow meter to measure the flow of water in a circuit
- including a device to adjust the flow.
- to be installed with flow manifold.

Body in nickel-plated brass.
Scale: 0-5 l/min.
Accurancy of reading: +/- 10%.
Maximum working temperature: 70°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

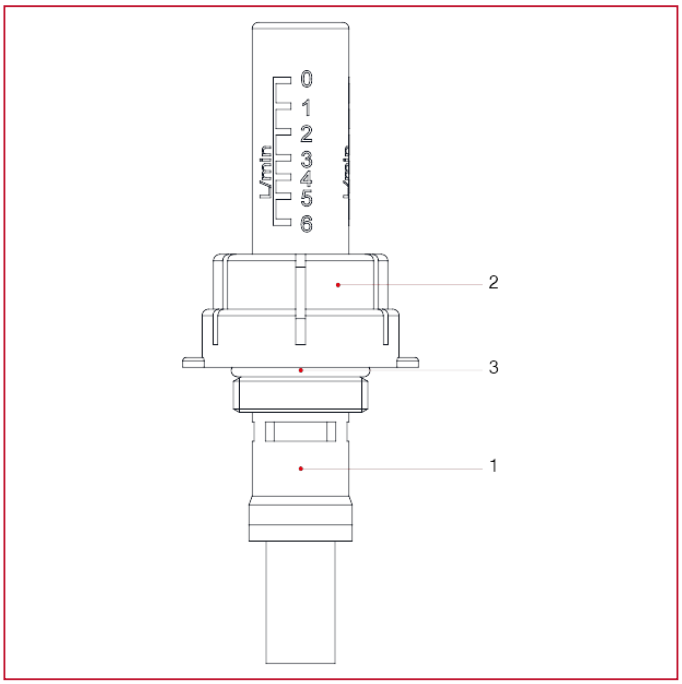
ACCESSORIES FOR MANIFOLDS

OVERALL DIMENSIONS



	1/2"
A	36,5
B	99,3
C	G 1/2”

MATERIALS



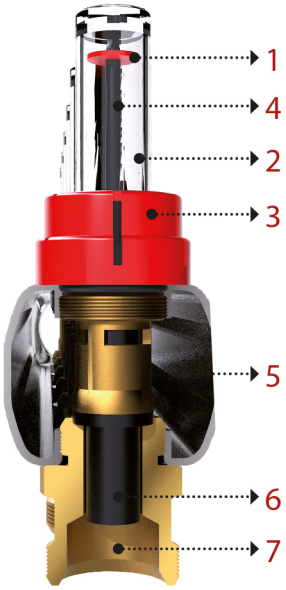
POS.	DESCRIPTION	N.	MATERIAL
1	Fitting	1	Nickel-plated brass CW617N
2	Component	1	Ultramid A3K
3	O-ring	1	EPDM

ACCESSORIES FOR MANIFOLDS

INSTRUCTIONS

Direct regulation, indication and isolation of flows from heating and cooling circuits in manifold flow pipe bars.
The flow meter o f f e r s an easy and accurate method of adjusting the flow rates in heating and cooling circuits.
Thanks to intensive development work and new technologies, the flow meter can be integrated efficiently in the flow pipe bar to ensure reliable indicator values.
Correct balancing of hydraulic circuits ensures optimum energy distribution, resulting in more efficient and economical operation in accordance with the energy saving regulations provided for by legislation.
With the flow meter, any qualified fitter can set the appropriate flow rate on the premises in question, thus avoiding investments in training and expensive measuring devices.

INSTALLATION:
The flow meter is installed in the flow pipe bar of the manifold in a horizontal or vertical position.



1 - Indicator unit
2 - Sight glass with scale
3 - Cover cap
4 - Sliding bar
5 - Flow pipe manifold
6 - Measuring cylinder
7 - Male adapter

ADVANTAGES:
- Precise and quick balancing without diagrams, tables or measuring devices
- Flow rate displayed directly in l/min
- Regulating valve with isolating facility
- Sight glass available as a replacement part
- Removable sight glass (ease of maintenance)
- Can be installed in any position

TECHNICAL DATA:
Range: 0 - 6 l/m
Operating temperatures: Brass flow meter: –10 °C – +70 °C
Maximum working pressure: 6 bar
System test pressure max.: 10 bar (20 °C)

Seals: EPDM

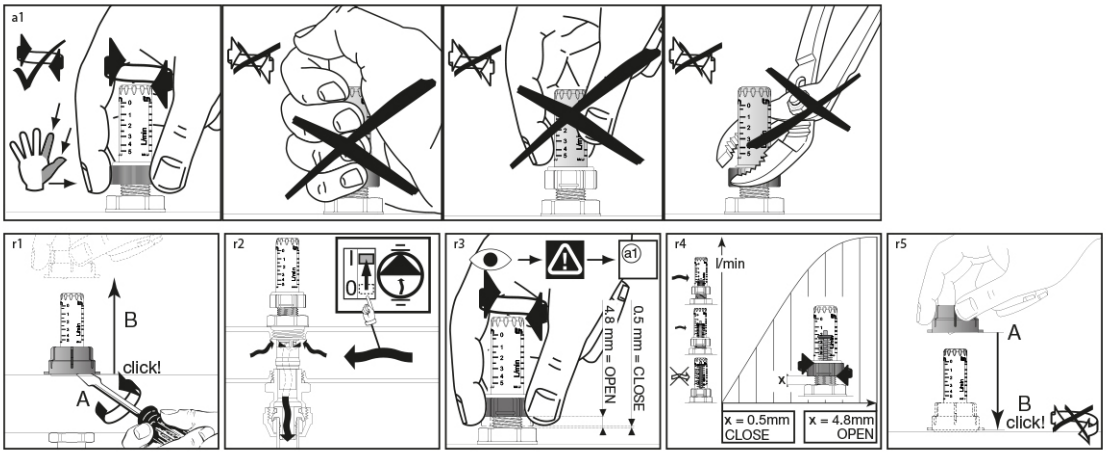
ACCESSORIES FOR MANIFOLDS

Male thread to ISO 228
Measuring accuracy: ±10% of the highest nominal value (the change in viscosity must be taken into account with antifreeze additives)

FLUIDS:
- Heating water (VDI 2035)
- Cold water
- Water and proprietary additives used against corrosion and freezing

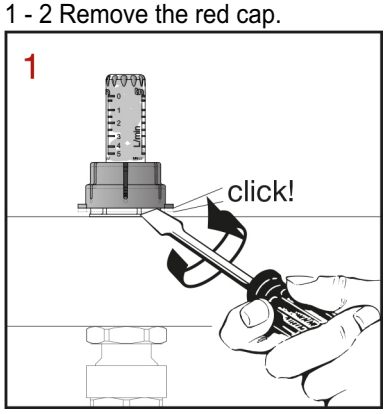
ASSEMBLY:
When assembling the flow meter in the manifold, the starting torque must not exceed 20 Nm (½").

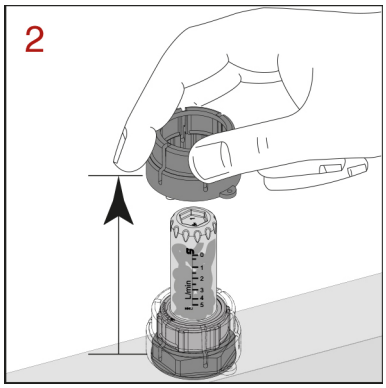
FLOWMETER ADJUSTMENT



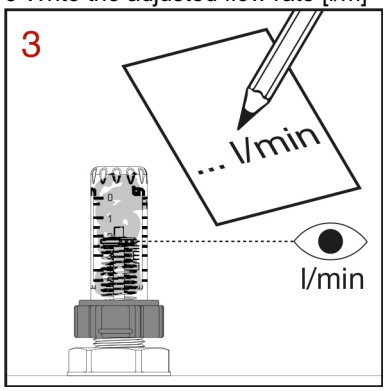
MAINTENANCE:
The sight glass can be removed if necessary for maintenance purposes and replaced. The relevant underfloor heating circuit must be separated in this case from the rest of the system.

HOW TO REPLACE THE SIGHT GLASS:
1 - 2 Remove the red cap.

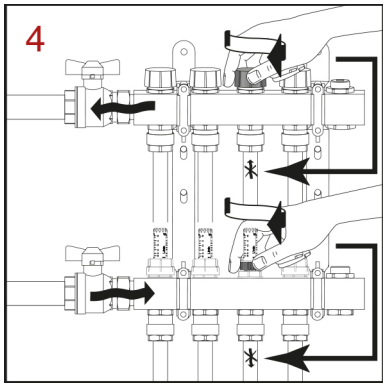




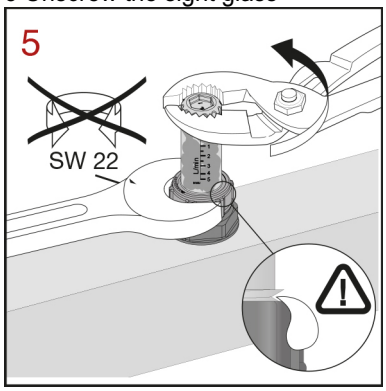
3 Write the adjusted flow rate [l/m]



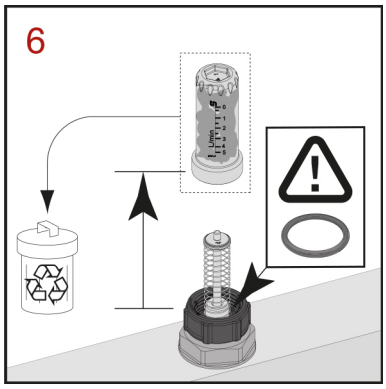
4 Shut-off the flow meter and the convertible valve



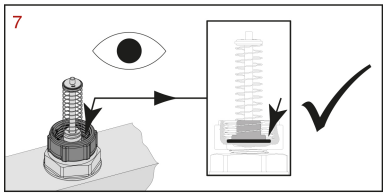
5 Unscrew the sight glass



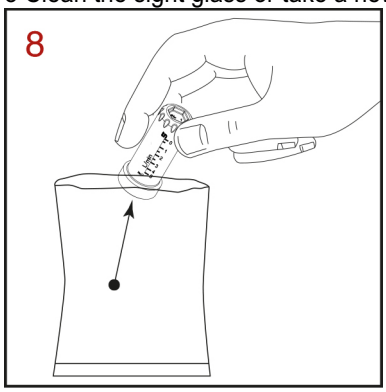
6 Remove the sight glass



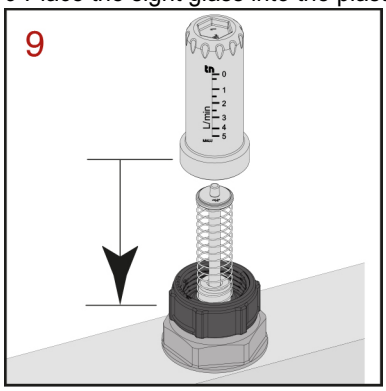
7 Check the washer



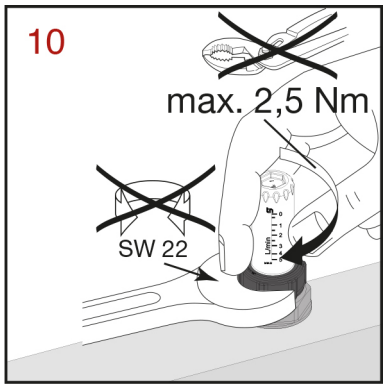
8 Clean the sight glass or take a new one



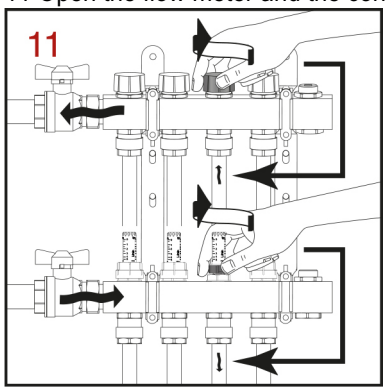
9 Place the sight glass into the plastic spindle



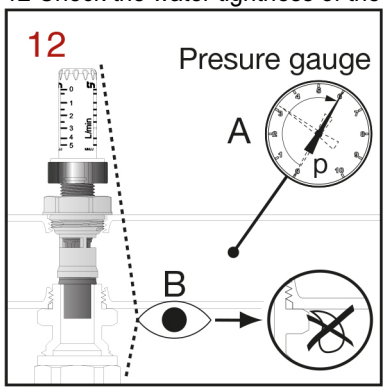
10 Screw the sight glass



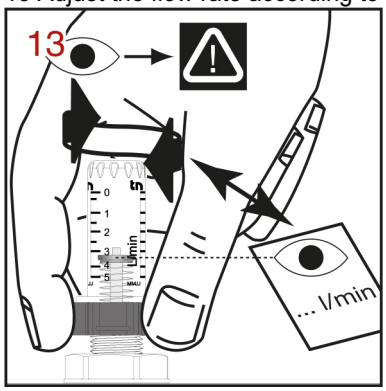
11 Open the flow meter and the convertible valve



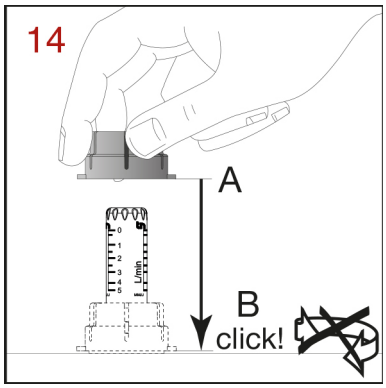
12 Check the water tightness of the flow meter before turning on the heating or cooling system



13 Adjust the flow rate according to the figure as per nr. 3



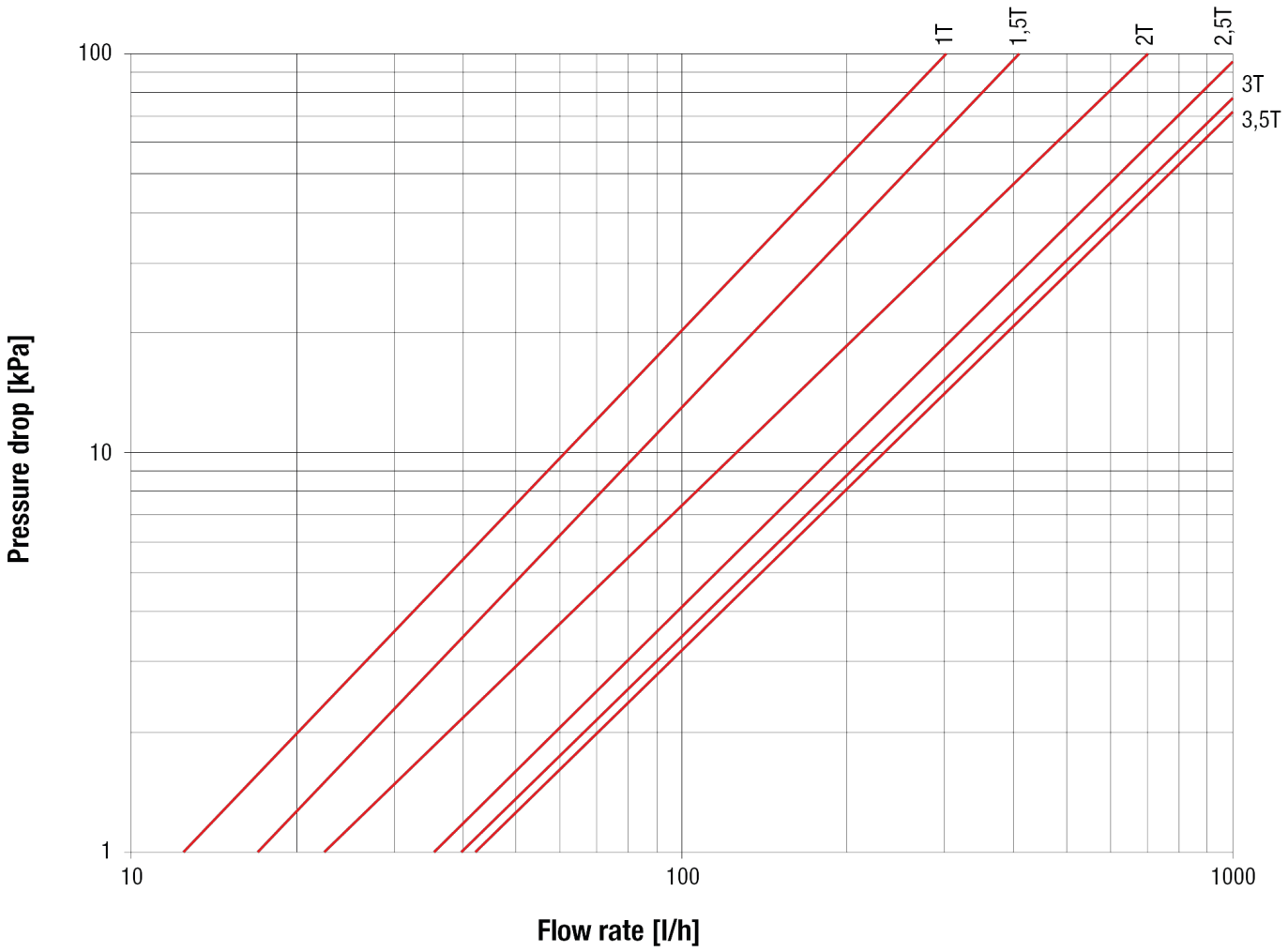
14 Place the cover cap on the plastic spindle



OPERATION:
The flow measurement is based on the displacement principle of a baffle disc, which is inserted in a measuring tube. The position is conveyed to the sight glass on the indicator unit by means of a sliding bar, which fixes the baffle disc to the indicator unit. The scale printed on the sight glass allows the flow rate to be read with ease.
Turning the black spindle changes the opening profile of the valve and allows the desired flow rate to be set.
The flow is isolated by turning the spindle fully.

LOSS DIAGRAM (With water)

	1/2"
KV	1T:0,30;1,5T:0,41;2T:0,71;2,5T:1,04;3T:1,22;3,5T:1,29;



471N Adapter for flow meters - 1” manifolds

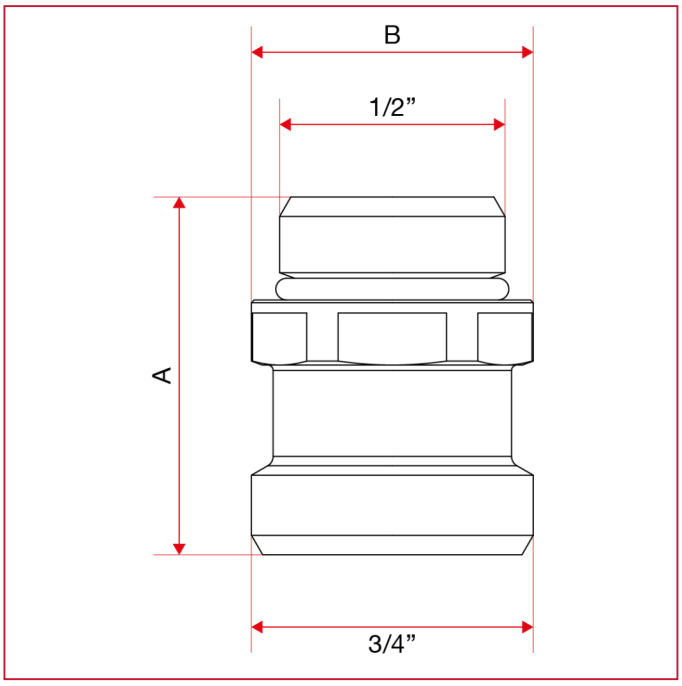
MEASURE	PRESSURE	CODE	PACKING
1/2" - 3/4" EUROKONUS	20bar/290psi	4710012034N	20/340

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Adapter for flow meters, suitable for 1” manifolds.
Available sizes: 1/2”x3/4” eurokonus.
Body in nickel-plated brass.
Maximum working temperature: 100°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

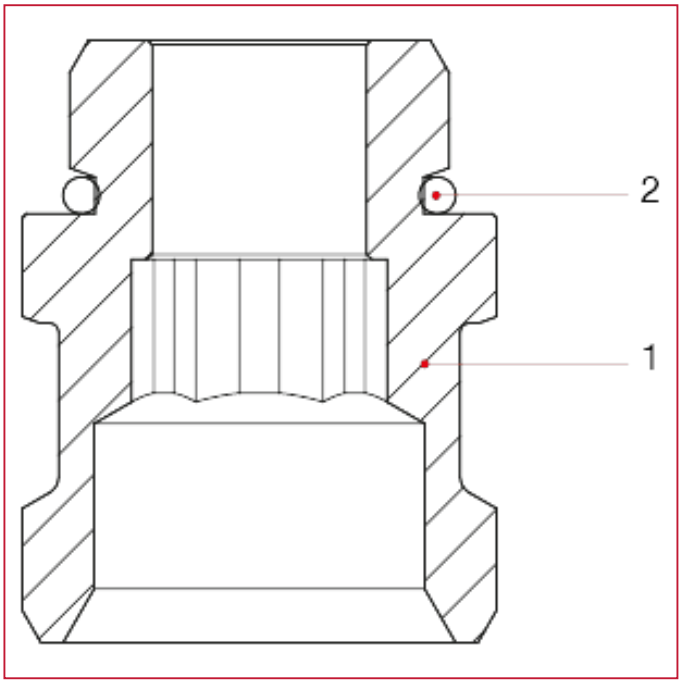
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

	1/2" - 3/4" EUR OKONUS
A	33
B	26
Kg/cm2 bar	20
LBS - psi	290

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Fitting	1	Nickel-plated brass CW614N
2	O-ring	1	EPDM

518N Male/male adapter - 1” manifolds

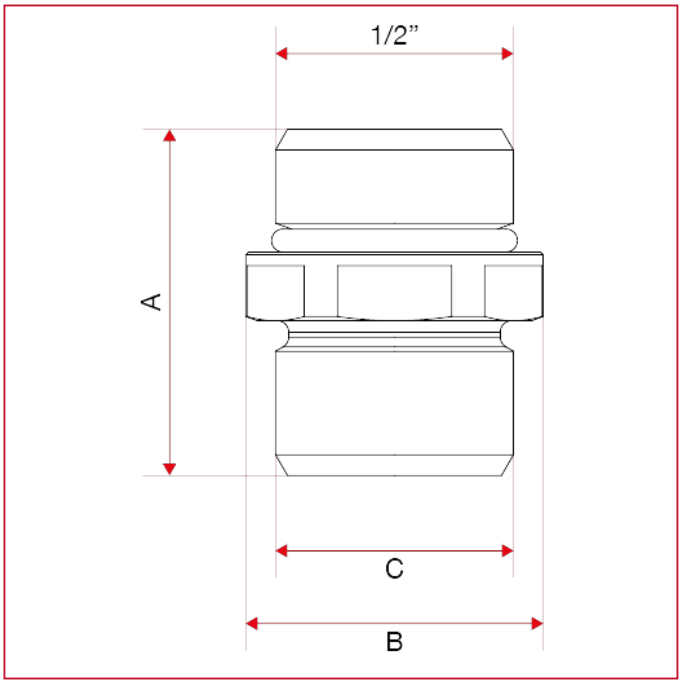
MEASURE	PRESSURE	CODE	PACKING
1/2" - 1/2"	20bar/290psi	5180012012N	30/570
1/2" - 3/4" EUROKONUS	20bar/290psi	5180012034N	20/440

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Available size: 1/2”x1/2”, 1/2”x3/4” eurokonus.
Body in nickel-plated brass.
Maximum working temperature: 100°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Thread G: available in size 1/2” with conical seat and inner diameter mm.16 or in size 3/4” eurokonus.
1/2”x1/2” size is also suitable as adapter for flow meters on 1” manifolds.

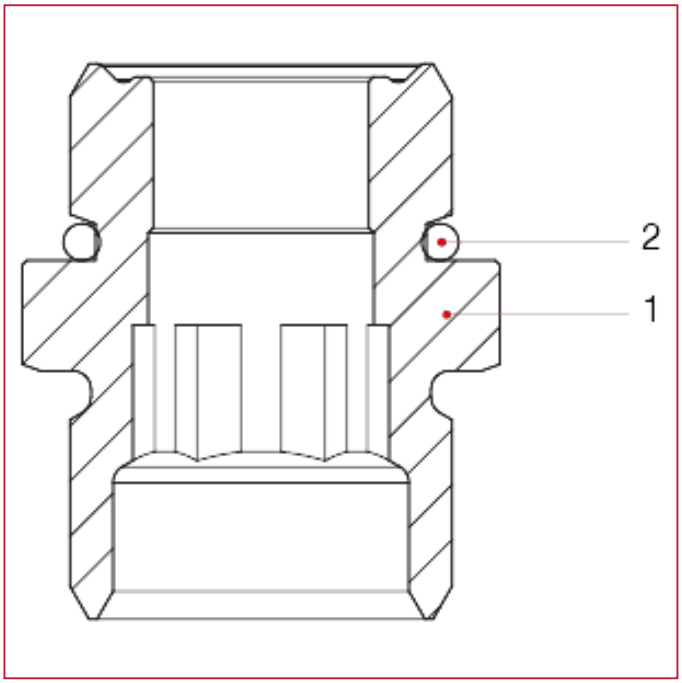
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

	1/2" - 1/2"	1/2" - 3/4" EUR OKONUS
A	30,2	29,2
B	26	26
C	1/2”	3/4”
Kg/cm2 bar	20	20
LBS - psi	290	290

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Fitting	1	Nickel-plated brass CW614N
2	O-ring	1	EPDM

519N Male/male adapter - 1”1/4 manifolds

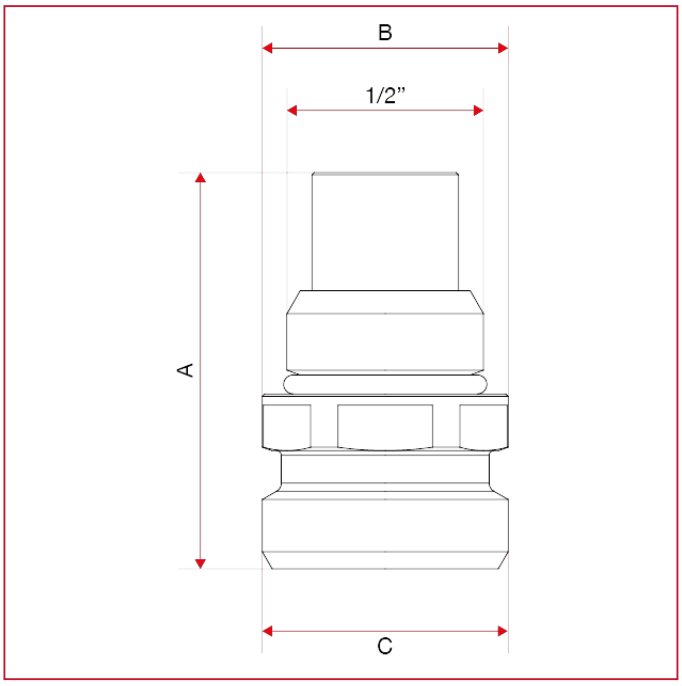
MEASURE	PRESSURE	CODE	PACKING
1/2" - 3/4" EUROKONUS	20bar/290psi	5190012034N	20/360

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Available size:1/2”x3/4” eurokonus.
Body in nickel-plated brass.
Maximum working temperature: 100°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
It is also suitable as adapter for flow meters on 1”1/4 manifolds.

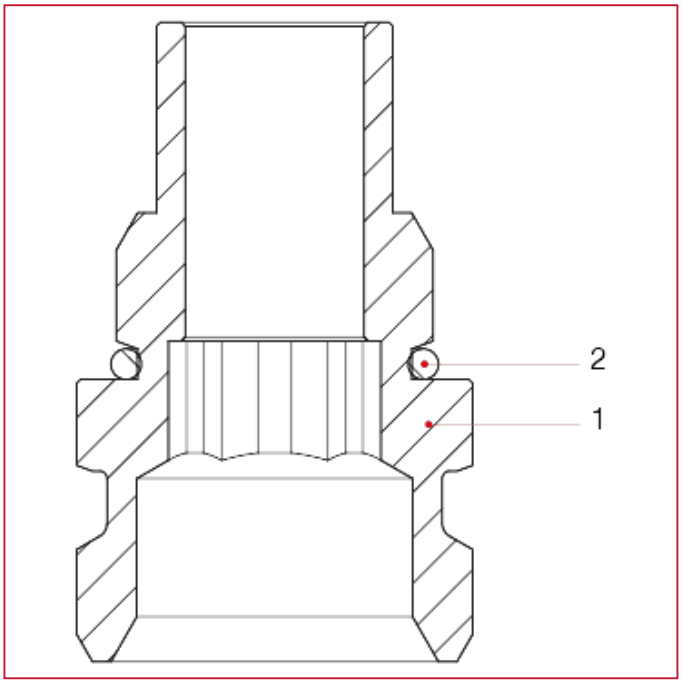
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

	1/2" - 3/4" EUR OKONUS
A	41,9
B	26
C	3/4”
Kg/cm2 bar	20
LBS - psi	290

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Fitting	1	Nickel-plated brass CW614N
2	O-ring	1	EPDM

489AR Nickel-plated adjustable end piece with drain valve and automatic air vent valve

MEASURE	PRESSURE	CODE	PACKING
1"	10bar/145psi	4890100AR	2/44

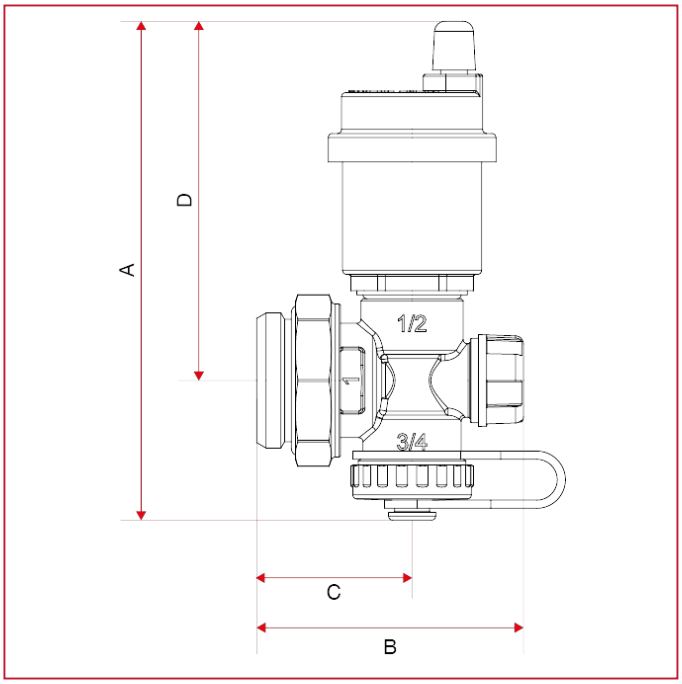
CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Consisting of:
- adjustable male end fitting for manifolds
- automatic air vent valve
- drain valve

Maximum working temperature: 80°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

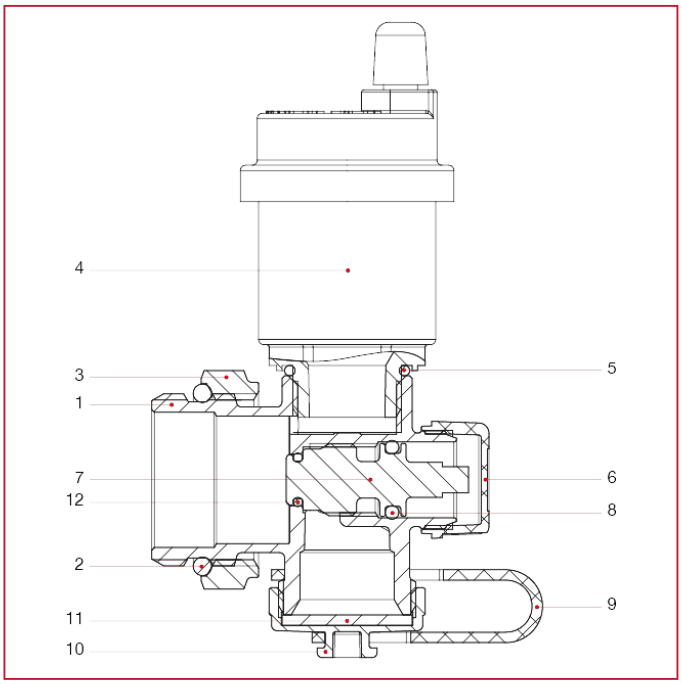
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

	1"
A	122
B	65,2
C	38
D	88
Kg/cm2 bar	10
LBS - psi	145

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Body	1	Nickel-plated brass CW617N
2	O-ring	1	NBR
3	Nut	1	Nickel-plated brass CW617N
4	Automatic air-vent valve compact	1	Nickel-plated brass CW617N
5	O-ring	1	EPDM
6	Cap	1	ABS
7	Bonnet	1	Brass CW614N
8	O-ring	1	EPDM
9	Strap	1	CLEARFLEX
10	Cap	1	Nickel-plated brass CW617N
11	Washer	1	IDROTEN
12	O-ring	1	NBR

489MR Nickel-plated adjustable end piece with drain valve and manual air vent valve

MEASURE	PRESSURE	CODE	PACKING
1"	10bar/145psi	4890100MR	2/52

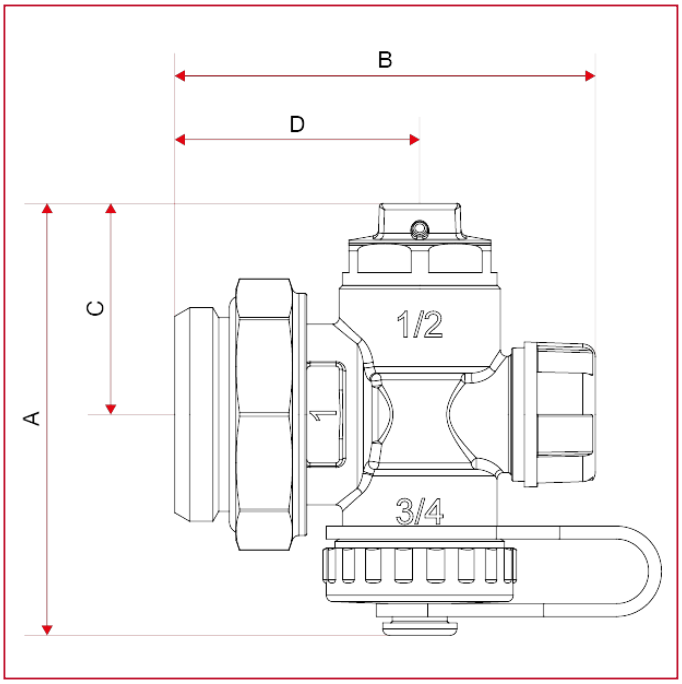
CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Consisting of:
- adjustable male end fitting for manifolds
- manual air vent valve
- drain valve

Maximum working temperature: 80°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

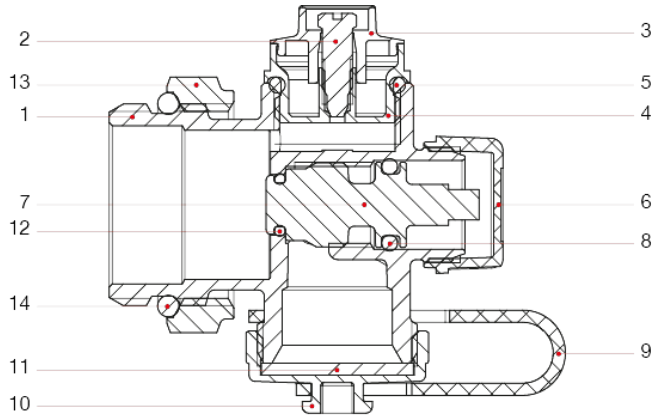
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

	1"
A	66,7
B	65,2
C	32,7
D	38
Kg/cm2 bar	10
LBS - psi	145

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Body	1	Nickel-plated brass CW617N
2	Screw	1	Nickel-plated brass CW614N
3	Cap	1	Nylon
4	Adjustable air vent valve body	1	Nickel-plated brass CW614N
5	O-ring	1	EPDM
6	Cap	1	ABS
7	Bonnet	1	Brass CW614N
8	O-ring	1	EPDM
9	Strap	1	CLEARFLEX
10	Cap	1	Nickel-plated brass CW617N
11	Washer	1	IDROTEN
12	O-ring	1	NBR
13	Nut	1	Nickel-plated brass CW617N
14	O-ring	1	NBR

489A Nickel-plated adjustable end piece with drain valve and automatic air vent valve

MEASURE	PRESSURE	CODE	PACKING
1"	10bar/145psi	4890100A	1/26
1"1/4	10bar/145psi	4890114A	1/26

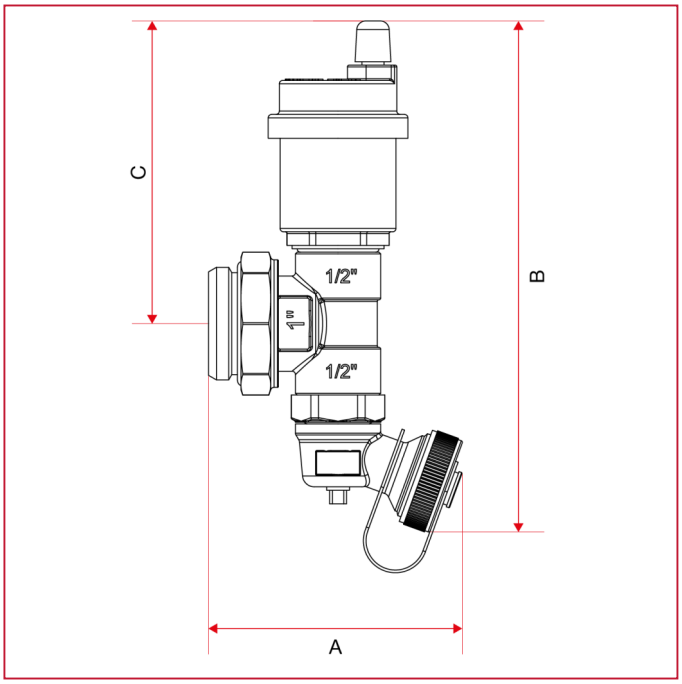
CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Consisting of:
- adjustable male end fitting for manifolds
- automatic air vent valve
- adjustable drain valve

Maximum working temperature: 80°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

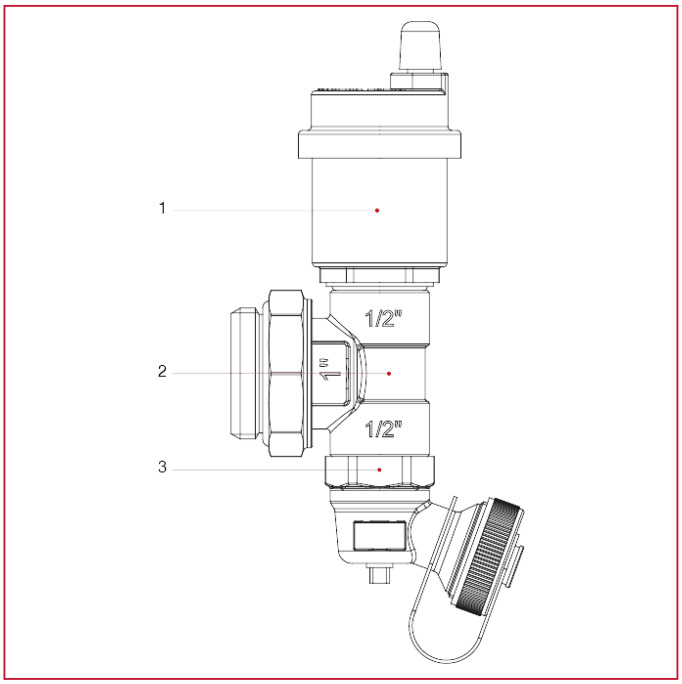
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

	1"	1"1/4
A	76	75
B	150	152
C	89	93
Kg/cm2 bar	10	10
LBS - psi	145	145

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Automatic air-vent valve	1	Nickel-plated brass CW617N
2	Male end fitting	1	Nickel-plated brass CW617N
3	Adjustable drain valve	1	Nickel-plated brass CW617N + Polymer

489M Nickel-plated adjustable end piece with drain valve and manual air vent valve

MEASURE	PRESSURE	CODE	PACKING
1"	10bar/145psi	4890100M	1/26
1"1/4	10bar/145psi	4890114M	1/26

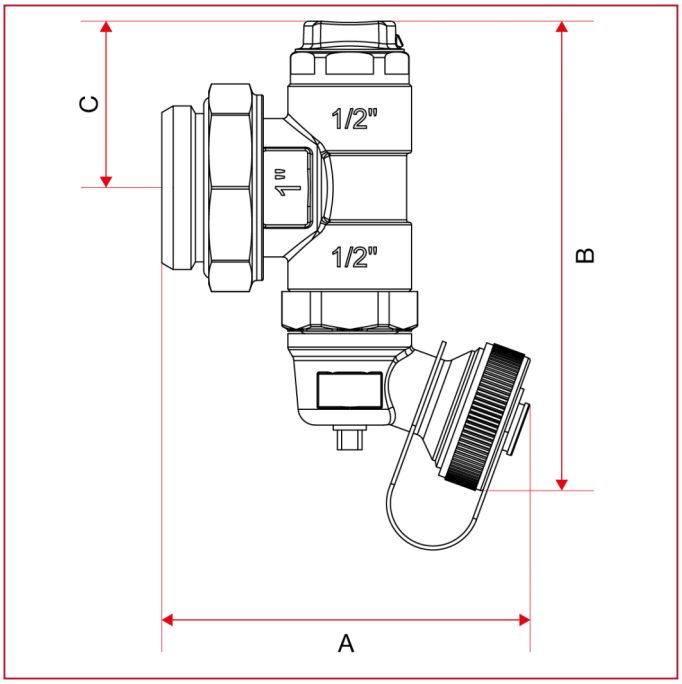
CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Consisting of:
- adjustable male end fitting for manifolds
- manual air vent valve
- adjustable drain valve

Maximum working temperature: 80°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

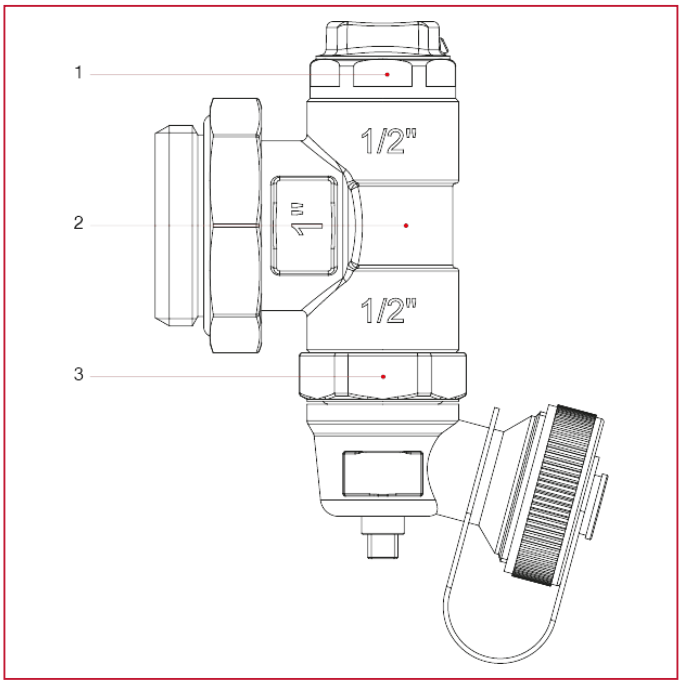
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

	1"	1"1/4
A	76	75
B	95	103
C	33,7	37,7
Kg/cm2 bar	10	10
LBS - psi	145	145

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Adjustable air-vent valve	1	Nickel-plated brass CW614N
2	Male end fitting	1	Nickel-plated brass CW617N
3	Adjustable drain valve	1	Nickel-plated brass CW617N + Polymer

489SO Adjustable drain valve

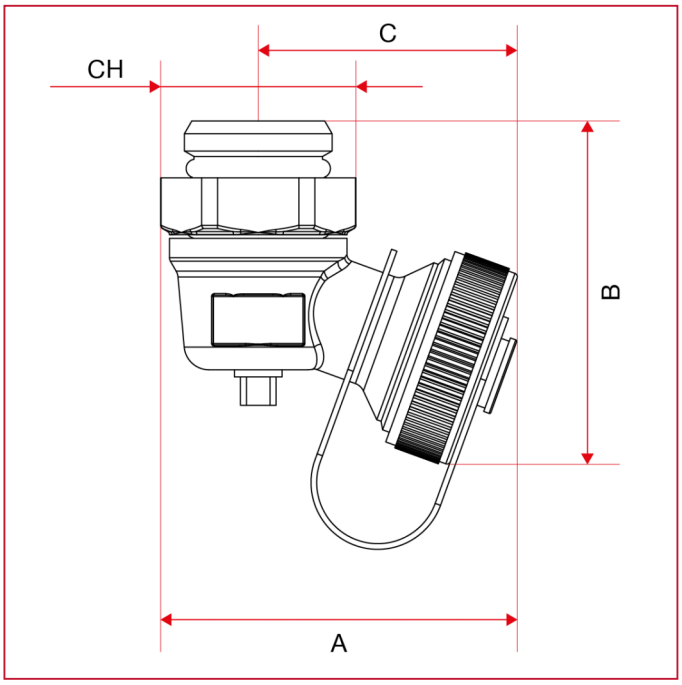
MEASURE	PRESSURE	CODE	PACKING
1/2"	10bar/145psi	4890012SO	35/210

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Body in brass.
Adjustable outflow in polymer.
Maximum working temperature: 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

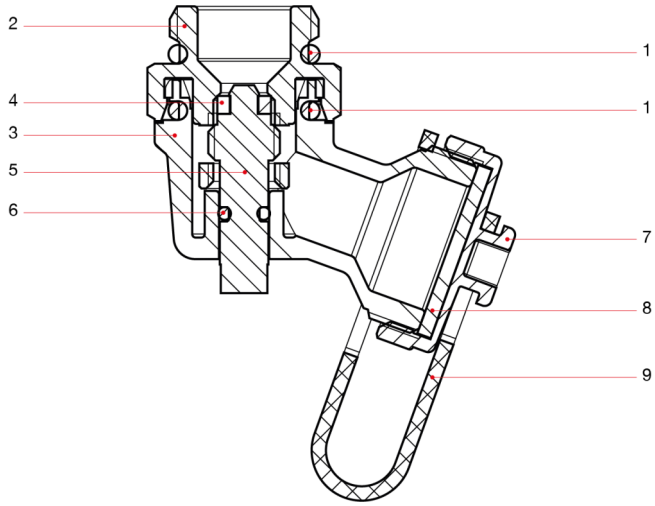
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

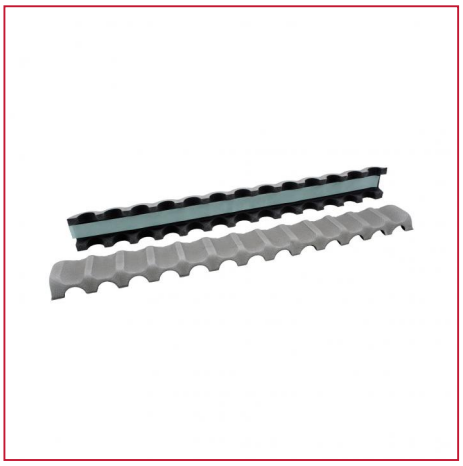
	1/2"
A	51
B	48
C	38
CH	25
Kg/cm2 bar	10
LBS - psi	145

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	O-ring	2	EPDM
2	Body	1	Nickel-plated brass CW614N
3	Adjustable drain	1	Nylon
4	Shutter ring	1	PTFE
5	Shutter	1	Brass CW614N
6	O-ring	1	EPDM
7	Cap	1	Nickel-plated brass CW617N
8	Washer	1	Elastomer
9	Strap	1	Elastomer

COP100 Insulation shells for manifolds

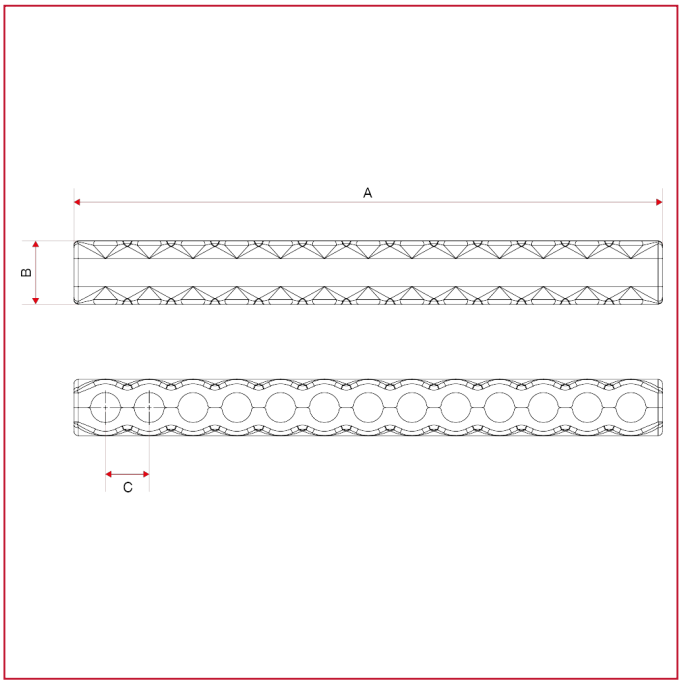


CODE	PACKING
COP100	1/5

TECHNICAL SPECIFICATIONS

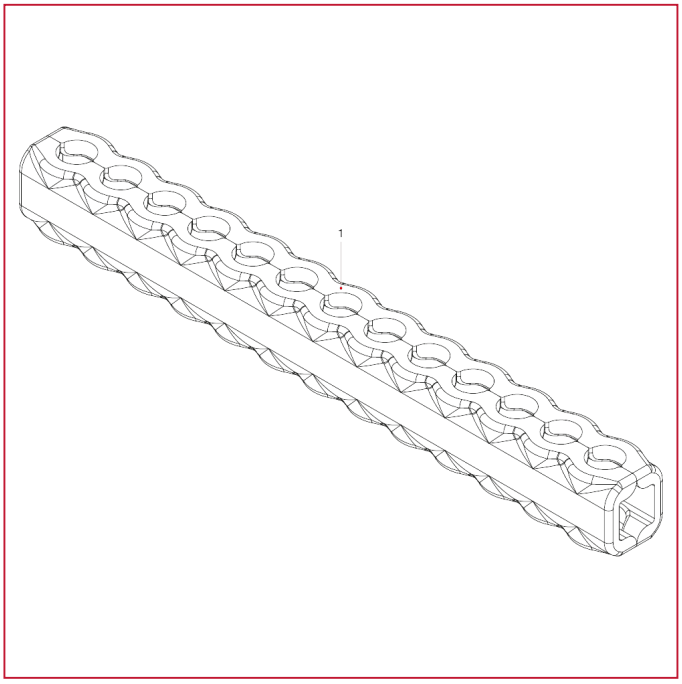
The insulation shells are suitable for our stainless steel manifolds art. 852 and 862.
One pair of shells are suitable to insulate one distribution manifold.
Available in just one size. Insulation shells have to be cut according to manifolds length.

OVERALL DIMENSIONS



A	680
B	75
C	50

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Insulation shell	1	Polymer

098RSK Straight ball valves kit – Compact

BALL VALVES KIT

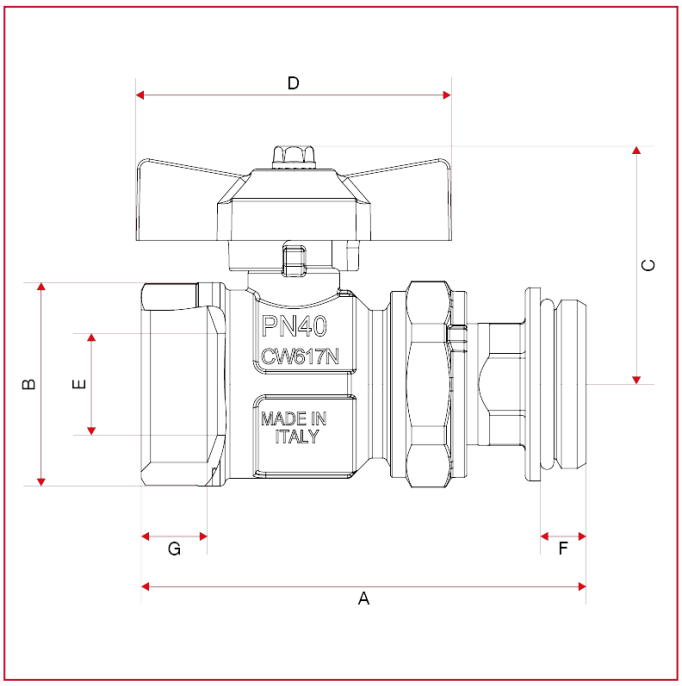
MEASURE	PRESSURE	CODE	PACKING
1"	40bar/580psi	0980100RSK	1/26

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

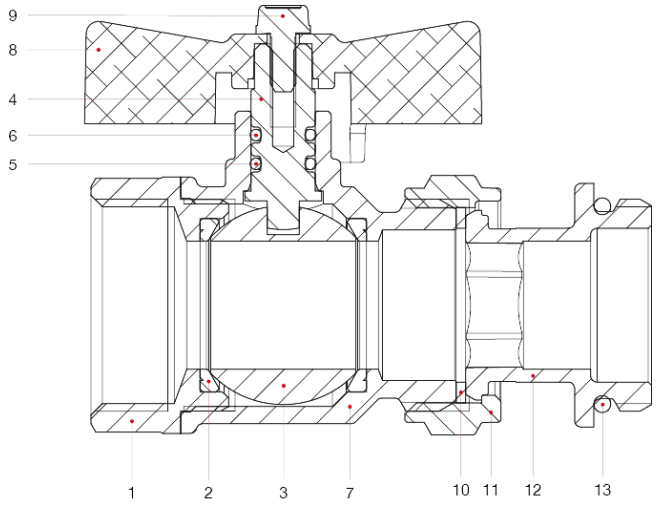
Kit consisting of: 2 ball valves, red and blue T handles.
Available size: 1”.
Male/female threads.
T handle in aluminium.
Body in nickel-plated brass.
Minimum and maximum working temperatures: -20°C, 150°C in absence of steam.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

OVERALL DIMENSIONS



	1"
DN	25
A	87,5
B	40
C	47
D	62
E	20
F	9
G	13
Kg/cm2 bar	40
LBS - psi	580

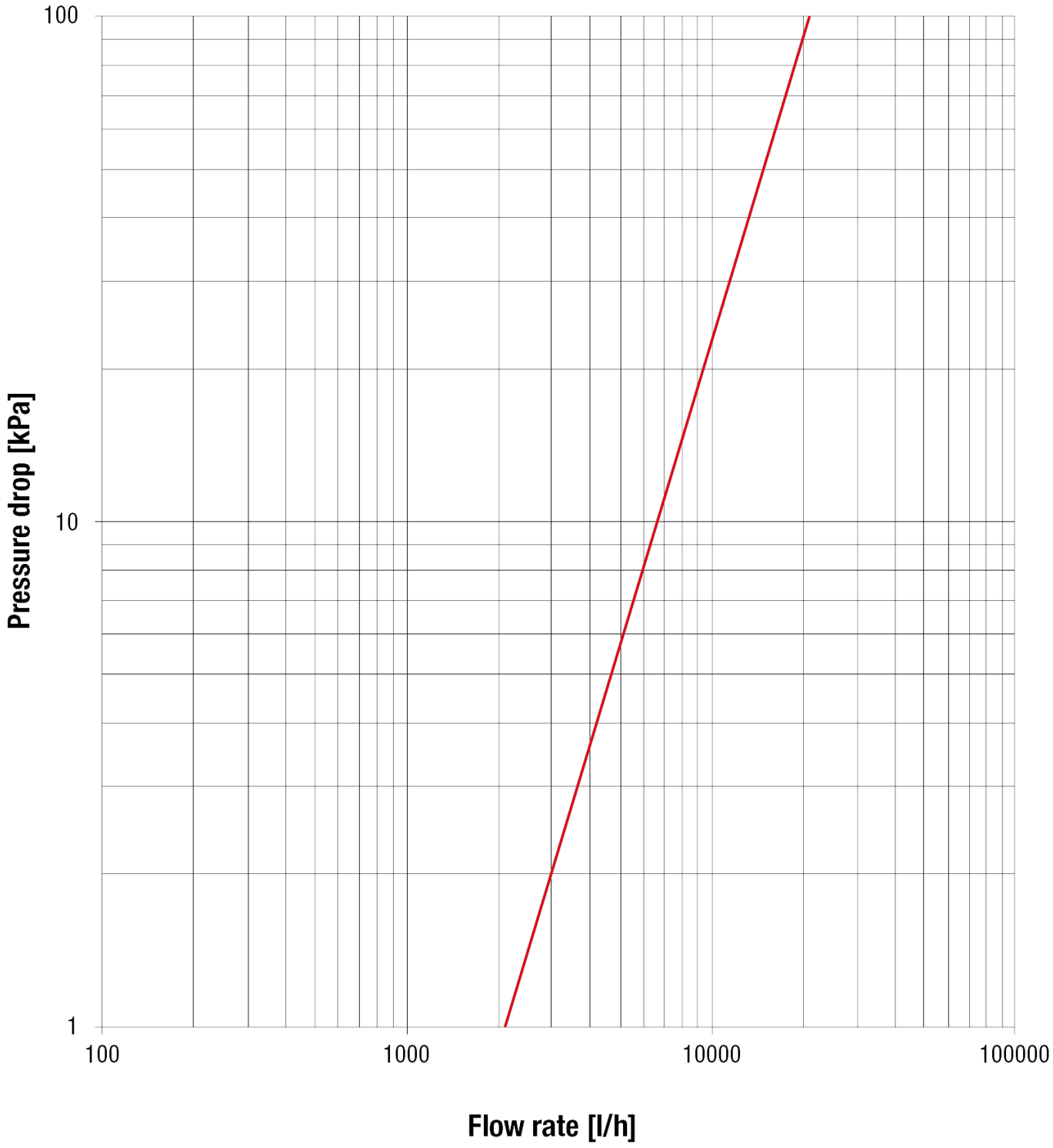
MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Female end adapter	1	Nickel-plated brass CW617N
2	Seat	2	P.T.F.E.
3	Ball	1	Chrome-plated brass CW617N
4	Stem	1	Brass CW614N
5	O-ring	1	NBR
6	O-ring	1	Viton®
7	Body	1	Nickel-plated brass CW617N
8	T handle	1	Aluminium
9	Screw	1	Zinc-plated steel C4C
10	Washer	1	FASIT OMNIA
11	Nut	1	Nickel-plated brass CW617N
12	Union	1	Nickel-plated brass CW617N
13	O-ring	1	EPDM

LOSS DIAGRAM (With water)

	1"
KV	20,7



298RSK Angle ball valves kit – Compact

BALL VALVES KIT

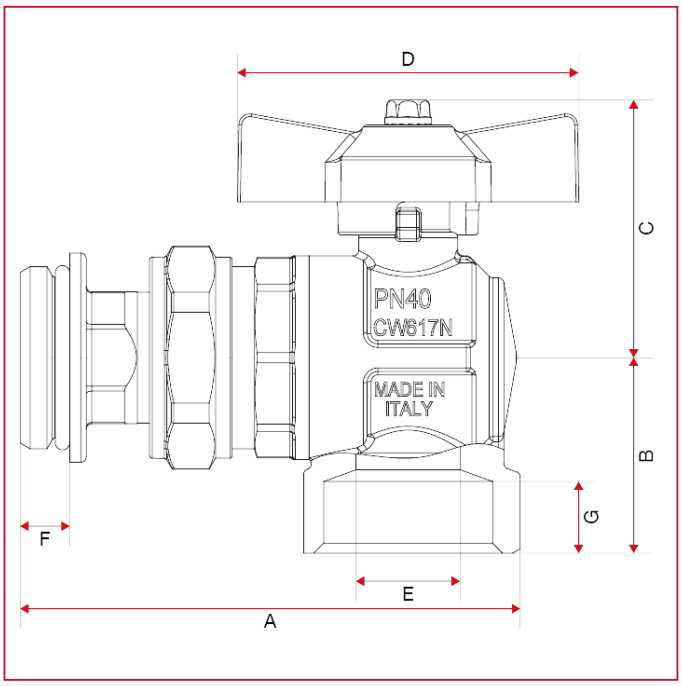
MEASURE	PRESSURE	CODE	PACKING
1"	40bar/580psi	2980100RSK	1/22

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

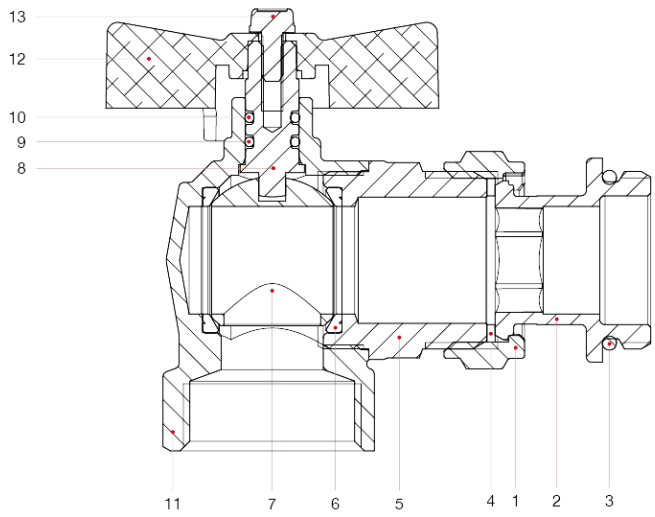
Kit consisting of: 2 ball valves, red and blue T handles.
Available size: 1”.
Male/female threads.
T handle in aluminium.
Body in nickel-plated brass.
Minimum and maximum working temperatures: -20°C, 150°C in absence of steam.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

OVERALL DIMENSIONS



	1"
DN	25
A	91
B	35,5
C	47
D	62
E	19
F	9
G	13
Kg/cm2 bar	40
LBS - psi	580

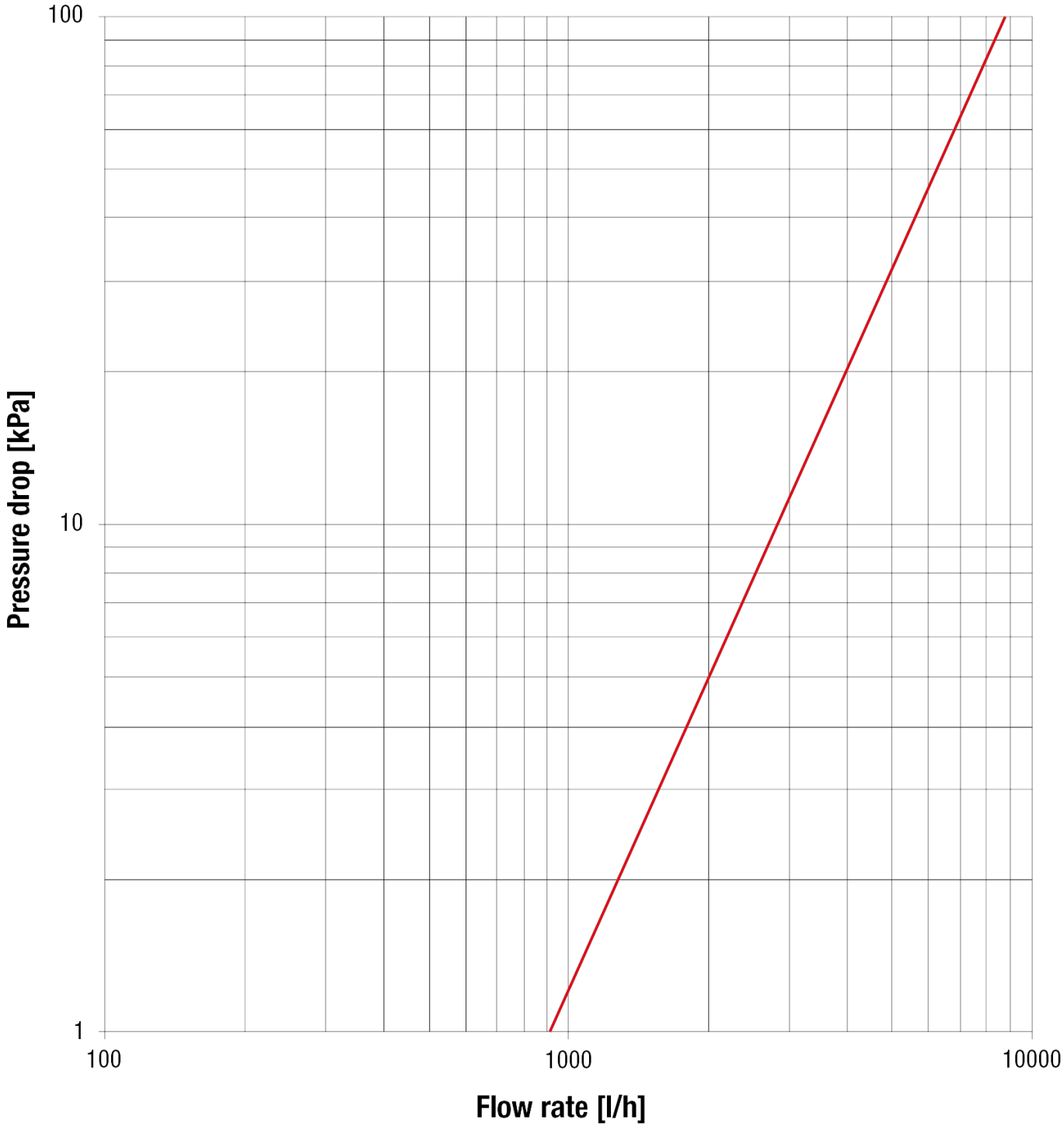
MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Nut	1	Nickel-plated brass CW617N
2	Union	1	Nickel-plated brass CW617N
3	O-ring	1	EPDM
4	Washer	1	FASIT OMNIA
5	End adapter	1	Nickel-plated brass CW617N
6	Seat	2	P.T.F.E.
7	Ball	1	Chrome-plated brass CW617N
8	Stem	1	Brass CW614N
9	O-ring	1	NBR
10	Washer	1	VITON®
11	Body	1	Nickel-plated brass CW617N
12	T handle	1	Aluminium
13	Screw	1	Zinc-plated steel C4C

LOSS DIAGRAM (With water)

	1"
KV	8,76



487K01R Straight ball valves kit and thermometer – Compact

BALL VALVES KIT

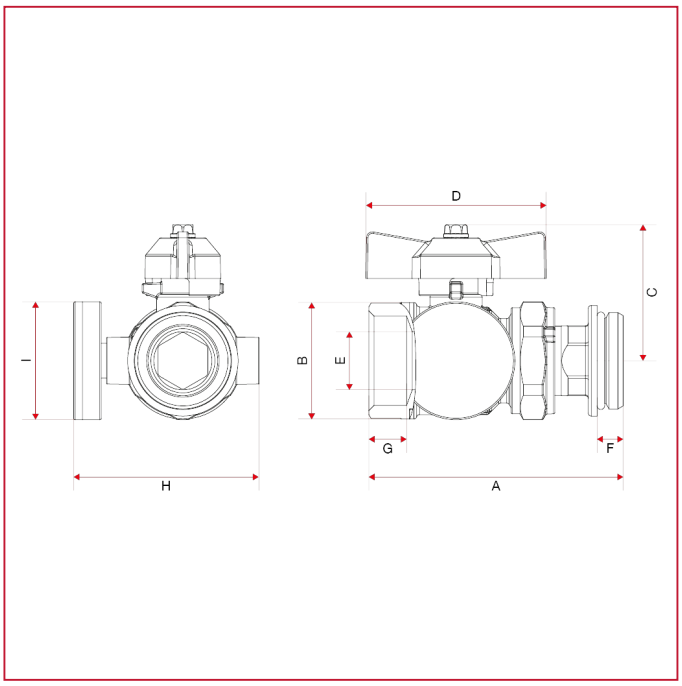
MEASURE	PRESSURE	CODE	PACKING
1"	40bar/580psi	4870100K01R	1/22

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

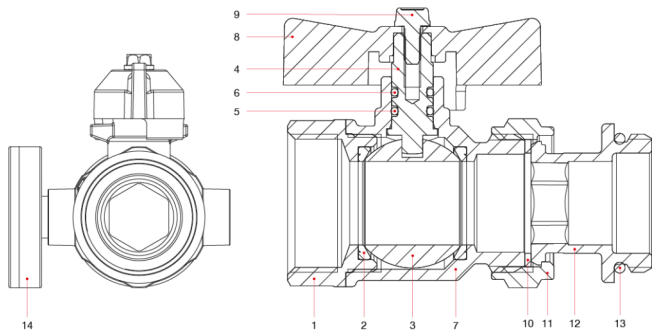
Kit consisting of: 2 ball valves, red and blue T handles.
Available size: 1”.
Male/female threads.
T handle in aluminium.
Body in nickel-plated brass.
Minimum and maximum working temperatures: -20°C, 150°C in absence of steam.
Thermometer: scale 0°C, 80°C – diameter mm. 40
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

OVERALL DIMENSIONS



	1"
DN	25
A	87,5
B	40
C	47
D	62
E	20
F	9
G	13
H	64
I	40,5
Kg/cm2 bar	40
LBS - psi	580

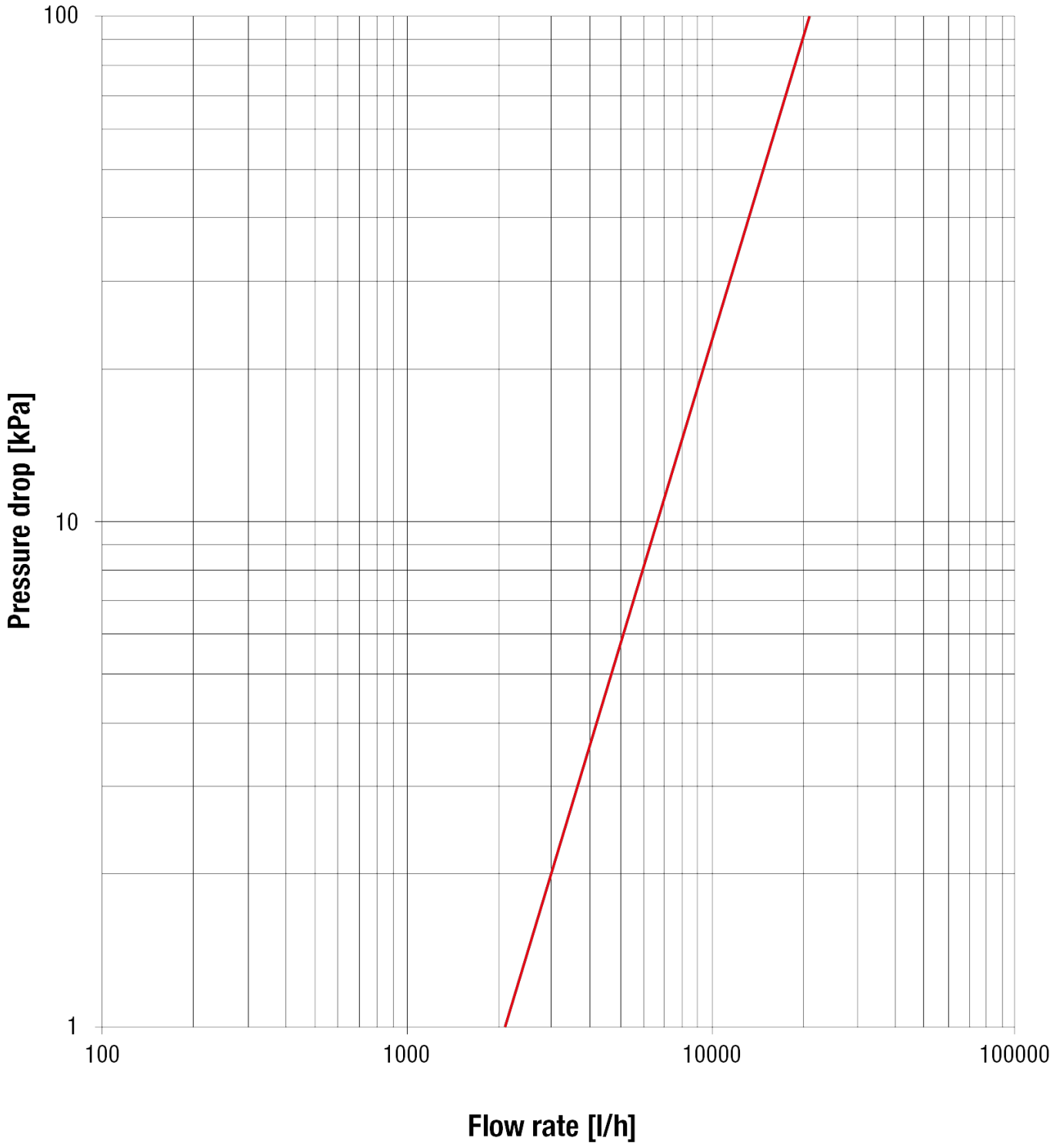
MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	End adapter	1	Nickel-plated brass CW617N
2	Seat	2	P.T.F.E.
3	Ball	1	Chrome-plated brass CW617N
4	Stem	1	Brass CW614N
5	O-ring	1	NBR
6	O-ring	1	Viton®
7	Body	1	Nickel-plated brass CW617N
8	T handle	1	Aluminium
9	Screw	1	Zinc-plated steel C4C
10	Washer	1	FASIT OMNIA
11	Nut	1	Nickel-plated brass CW617N
12	Union	1	Nickel-plated brass CW617N
13	O-ring	1	EPDM
14	Thermometer	1	Polymer

LOSS DIAGRAM (With water)

	1"
KV	20,7



487K02R Angle ball valves kit and thermometer – Compact

BALL VALVES KIT

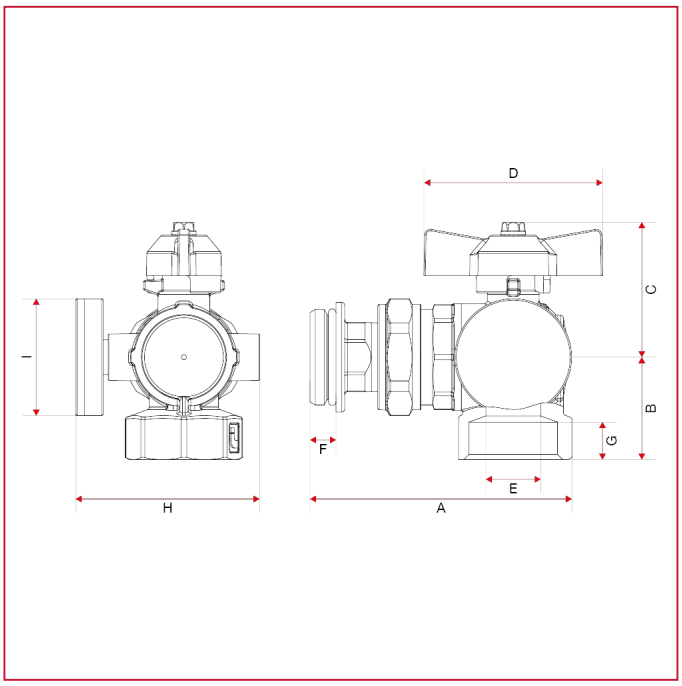
MEASURE	PRESSURE	CODE	PACKING
1"	10bar/145psi	4870100K02R	1/12

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

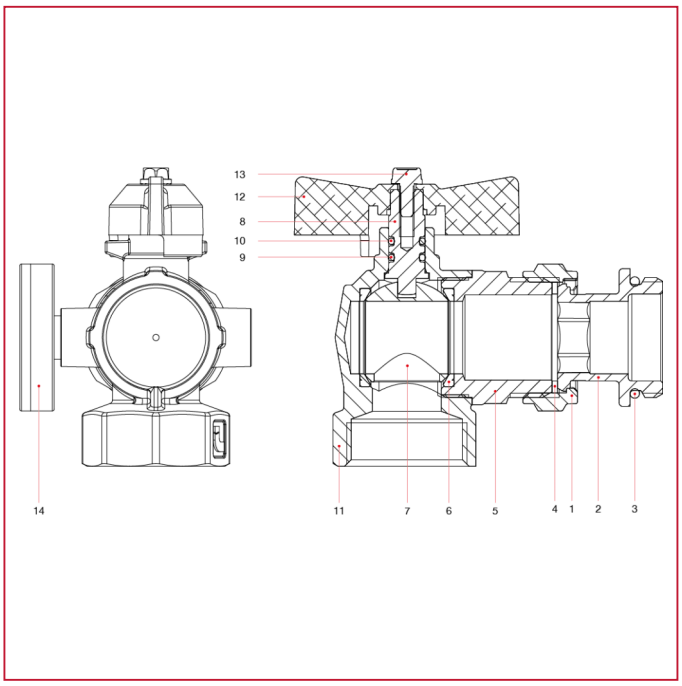
Kit consisting of: 2 ball valves, red and blue T handles.
Available size: 1”.
Male/female threads.
T handle in aluminium.
Body in nickel-plated brass.
Minimum and maximum working temperatures: -20°C, 150°C in absence of steam.
Thermometer: scale 0°C, 80°C – diameter mm. 40
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

OVERALL DIMENSIONS



	1"
DN	25
A	91
B	35,5
C	47
D	62
E	19
F	9
G	13
H	64
I	40,5
Kg/cm2 bar	40
LBS - psi	580

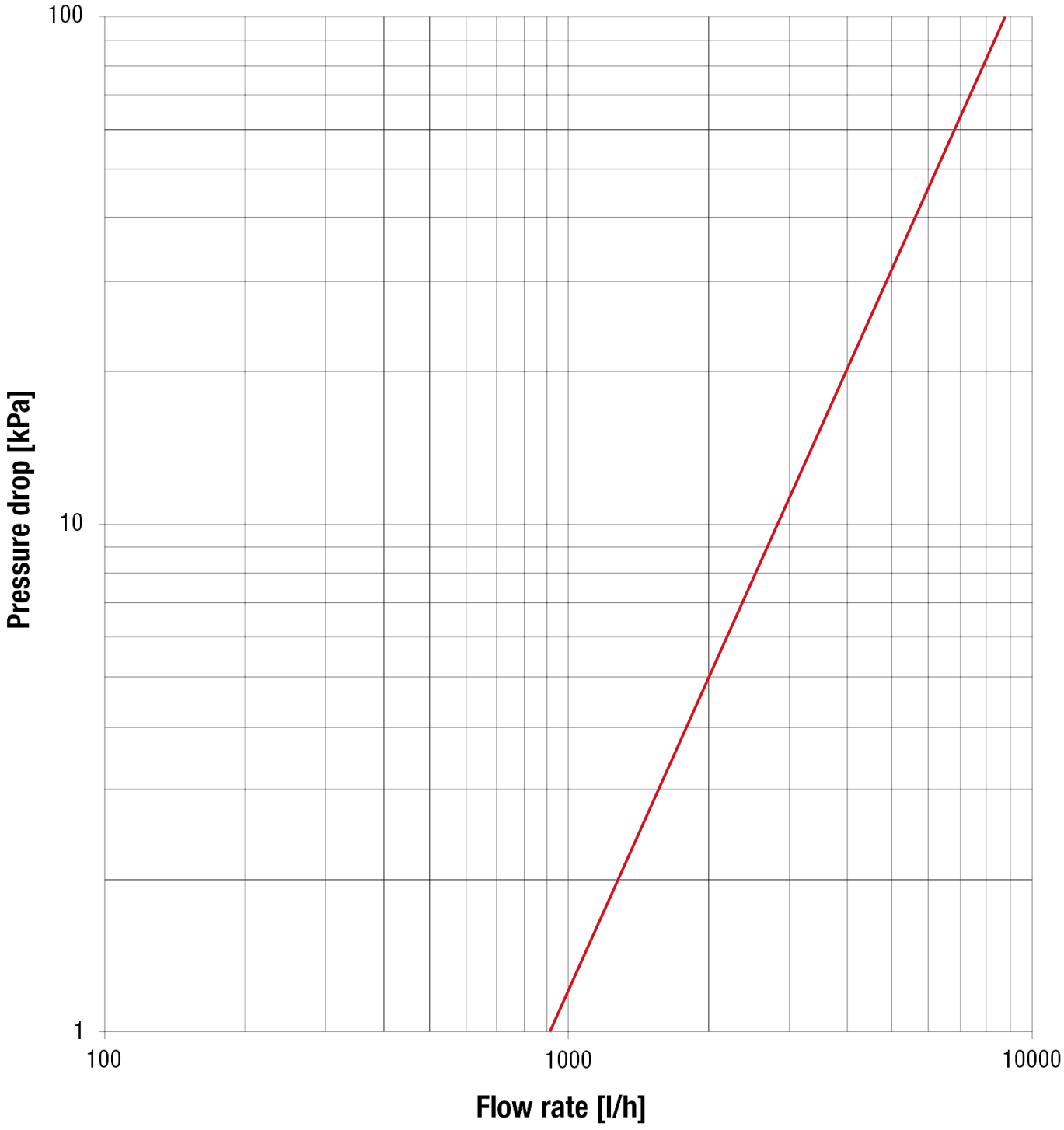
MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Nut	1	Nickel-plated brass CW617N
2	Union	1	Nickel-plated brass CW617N
3	O-ring	1	EPDM
4	Washer	1	FASIT OMNIA
5	End adapter	1	Nickel-plated brass CW617N
6	Seat	1	P.T.F.E.
7	Ball	1	Chrome-plated brass CW617N
8	Stem	1	Brass CW614N
9	O-ring	1	NBR
10	O-ring	1	VITON ®
11	Body	1	Nickel-plated brass CW617N
12	T handle	1	Aluminium
13	Screw	1	Zinc-plated steel C4C
14	Thermometer	1	Polymer

LOSS DIAGRAM (With water)

	1"
KV	8,76



098SK Straight ball valves kit

BALL VALVES KIT

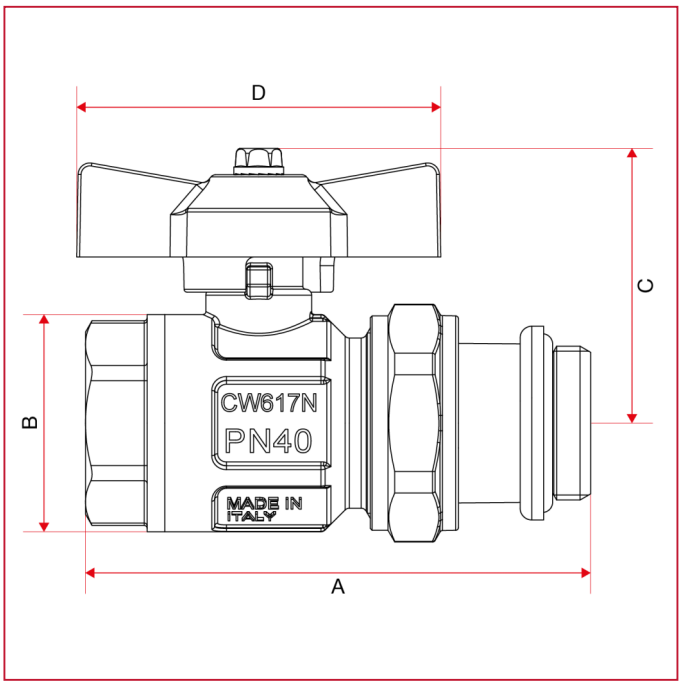
MEASURE	PRESSURE	CODE	PACKING
3/4"X1"	40bar/580psi	0980034100SK	1/26
1"	40bar/580psi	0980100SK	1/22

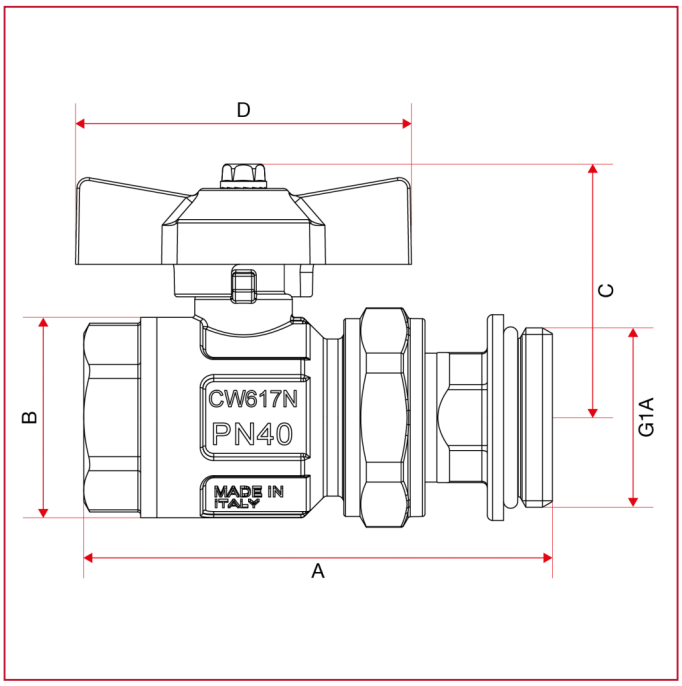
CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Kit consisting of: 2 ball valves art. 098S and 098SB, red and blue T handles.
Available size: 1”.
Male/female threads.
T handle in aluminium.
Body in nickel-plated brass.
Minimum and maximum working temperatures: -20°C, 150°C in absence of steam.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Code 0980034100SK: 3/4”FX1”M

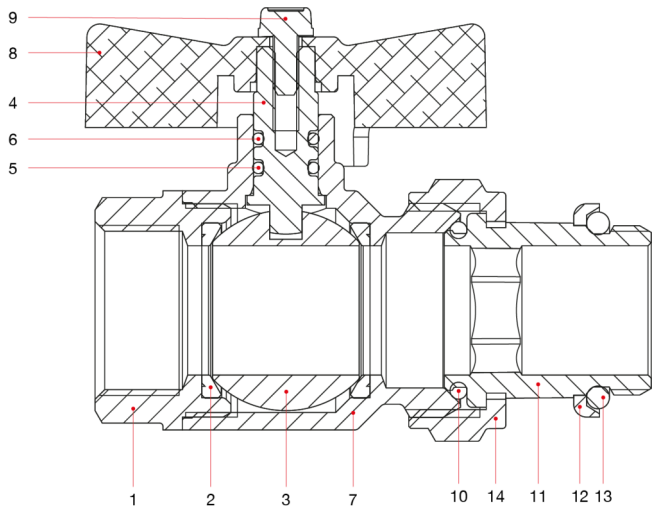
OVERALL DIMENSIONS





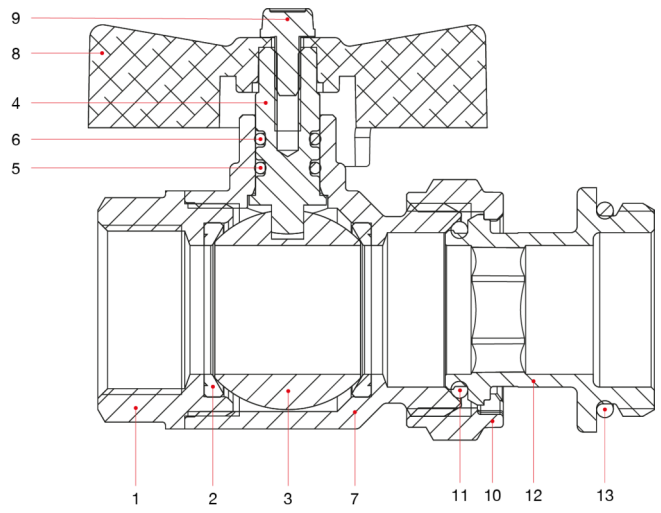
	3/4"X1"	1"
DN	20	25
A	86,5	98
B	37	45,5
C	47	50,8
D	62	62
Kg/cm2 bar	40	40
LBS - psi	580	580

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Female end adapter	1	Nickel-plated brass CW617N
2	Seat	2	P.T.F.E.
3	Ball	1	Chrome-plated brass CW617N
4	Stem	1	Brass CW614N
5	O-ring	1	NBR
6	O-ring	1	Viton®
7	Body	1	Nickel-plated brass CW617N
8	T handle	1	Varnished aluminium
9	Screw	1	Zinc-plated steel C4C
10	O-ring	1	NBR
11	Union	1	Nickel-plated brass CW617N
12	Ring	1	Steel
13	O-ring	1	NBR
14	Nut	1	Nickel-plated brass CW617N

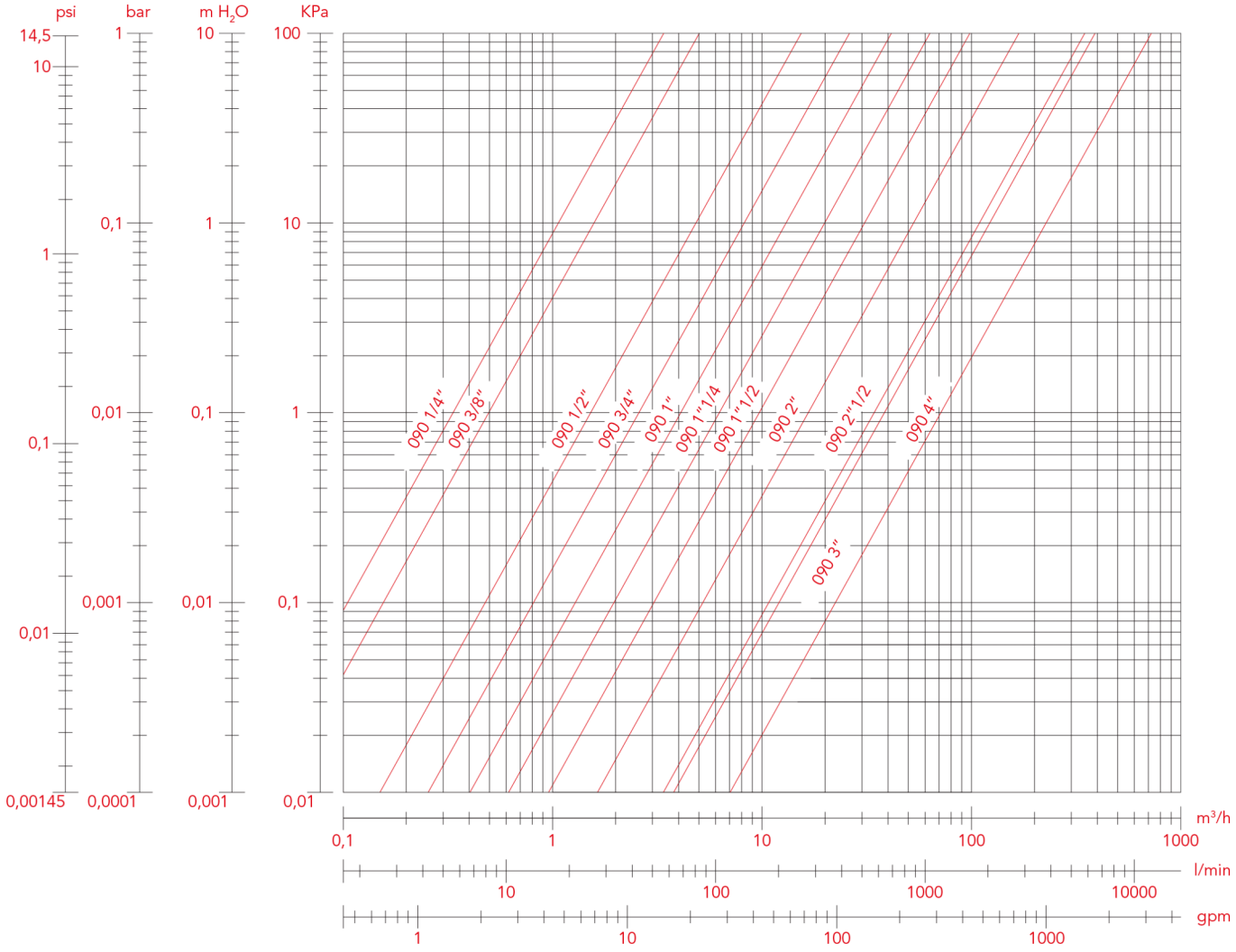
MATERIALS 3/4"x1"



POS.	DESCRIPTION	N.	MATERIAL
1	Female end adapter	1	Nickel-plated brass CW617N
2	Seat	2	P.T.F.E.
3	Ball	1	Chrome-plated brass CW617N
4	Stem	1	Brass CW614N
5	O-ring	1	NBR
6	O-ring	1	Viton®
7	Body	1	Nickel-plated brass CW617N
8	T handle	1	Varnished aluminium
9	Screw	1	Zinc-plated steel C4C
10	Nut	1	Nickel-plated brass CW617N
11	O-ring	1	NBR
12	Union	1	Nickel-plated brass CW617N
13	O-ring	1	EPDM

LOSS DIAGRAM (With water)

	3/4"X1"	1"
KV	26,26	41,44



298SK Angle ball valves kit

BALL VALVES KIT

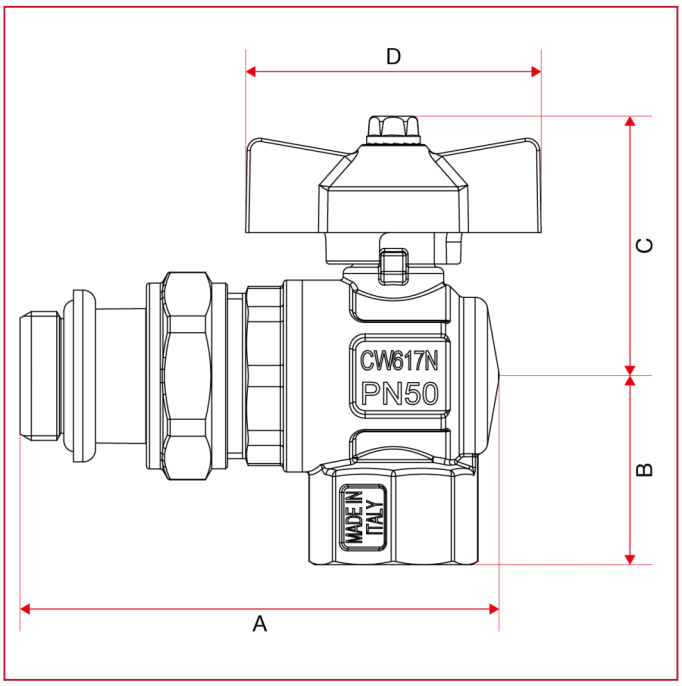
MEASURE	PRESSURE	CODE	PACKING
1"	40bar/580psi	2980100SK	1/12

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

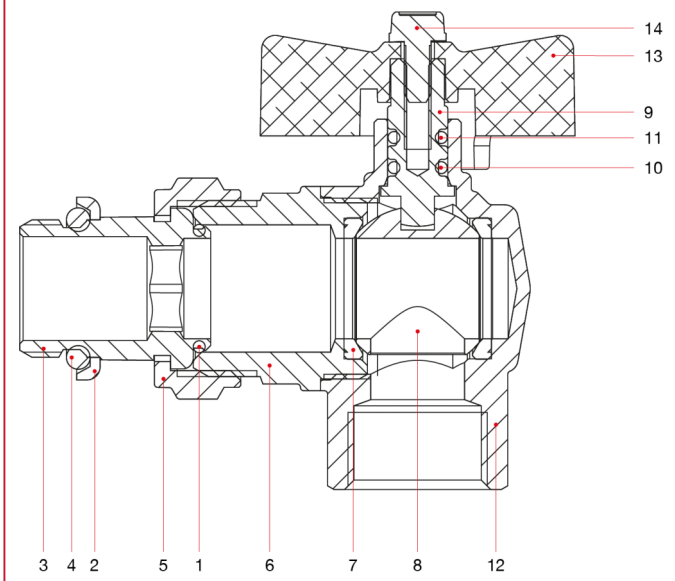
Kit consisting of: 2 ball valves art. 298S and 298SB, red and blue T handles.
Available size: 1”.
Male/female threads.
T handle in aluminium.
Body in nickel-plated brass.
Minimum and maximum working temperatures: -20°C, 150°C in absence of steam.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

OVERALL DIMENSIONS



	1"
DN	25
A	105,5
B	39,75
C	51
D	62
Kg/cm2 bar	40
LBS - psi	580

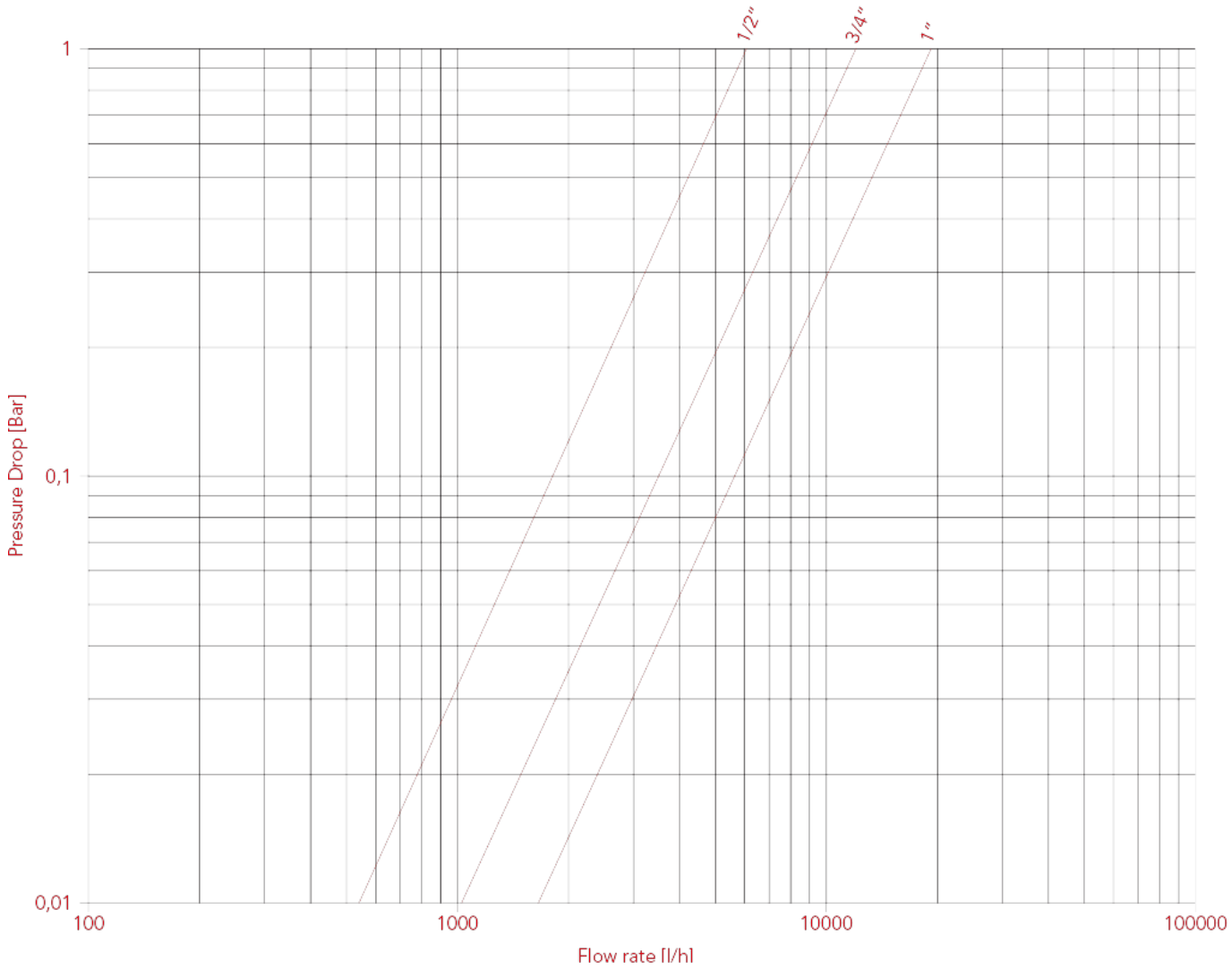
MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	O-ring	1	NBR
2	Ring	1	Steel
3	Union	1	Nickel-plated brass CW617N
4	O-ring	1	NBR
5	Nut	1	Nickel-plated brass CW617N
6	End adapter	1	Nickel-plated brass CW617N
7	Seat	2	P.T.F.E.
8	Ball	1	Chrome-plated brass CW617N
9	Stem	1	Brass CW614N
10	O-ring	1	NBR
11	O-ring	1	Viton®
12	Body	1	Nickel-plated brass CW617N
13	T handle	1	Varnished aluminium
14	Screw	1	Zinc-plated steel C4C

LOSS DIAGRAM (With water)

	1"
KV	19,2



487K01 Straight ball valves and thermometer union kit

BALL VALVES KIT

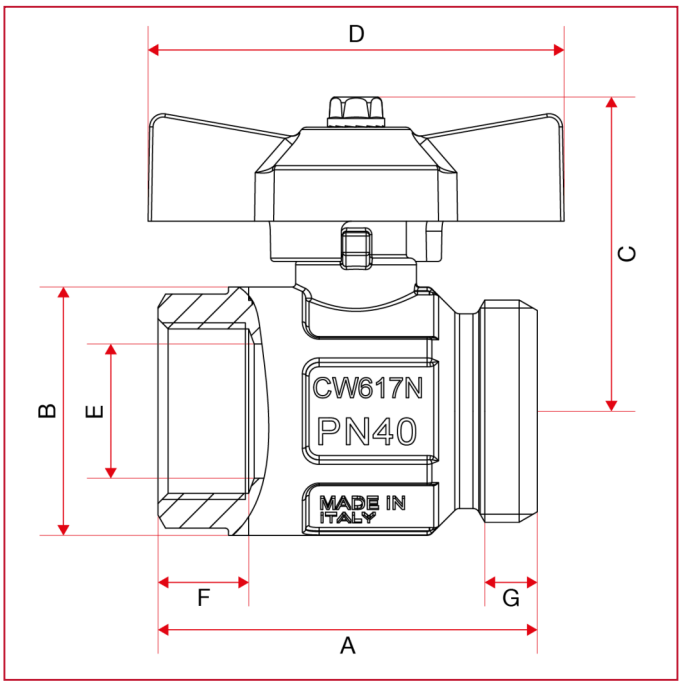
MEASURE	PRESSURE	CODE	PACKING
1"	10bar/145psi	4870100K01	1/22

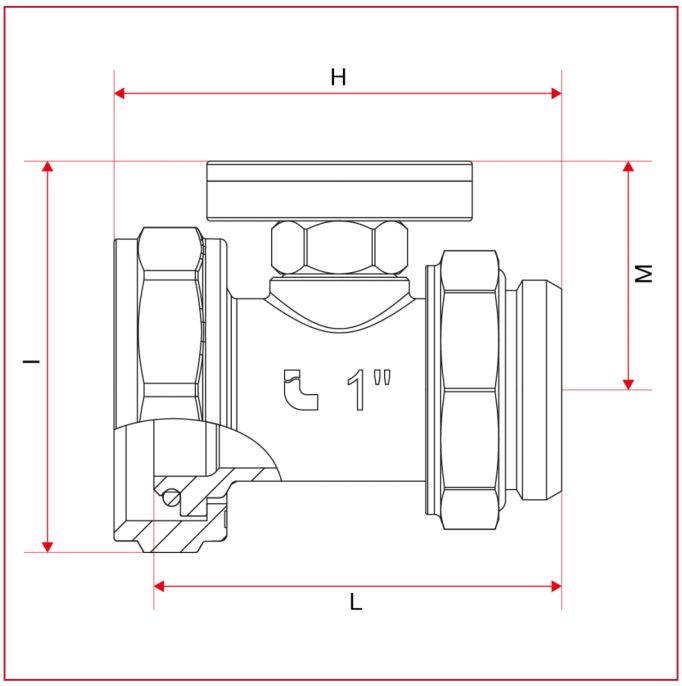
CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Kit consisting of: 2 ball valves art. 098SDC and 098SDCB, red and blue T handles and 2 thermometer unions complete with thermometers art. 492BC.
Available size: 1”.
Valves specifications:
Male/female threads.
T handle in aluminium.
Body in nickel-plated brass.
Minimum and maximum working temperatures: -20°C, 150°C in absence of steam.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Male thread with conical seat.
Thermometer unions specifications:
Body in nickel-plated brass.
O-ring in NBR.
Thermometer range: 0°C, 80°C.
Diameter: mm.40.
Maximum working temperature: 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

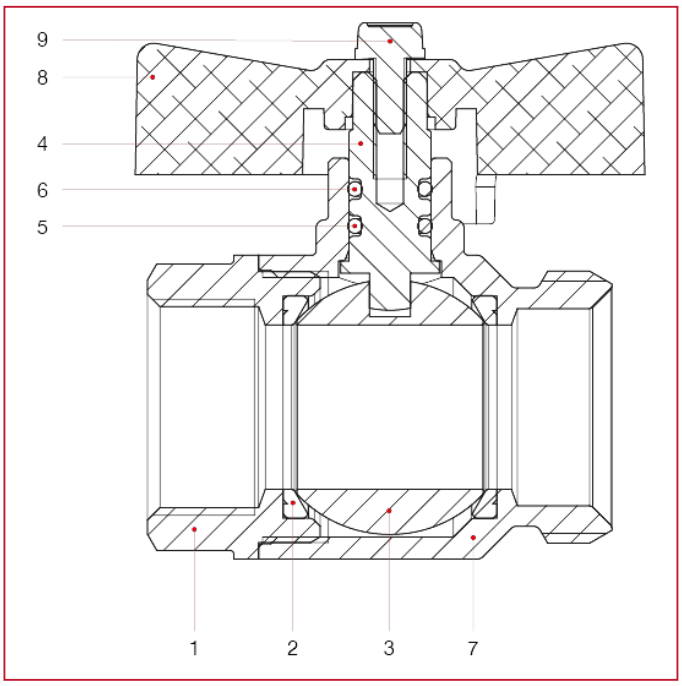
OVERALL DIMENSIONS





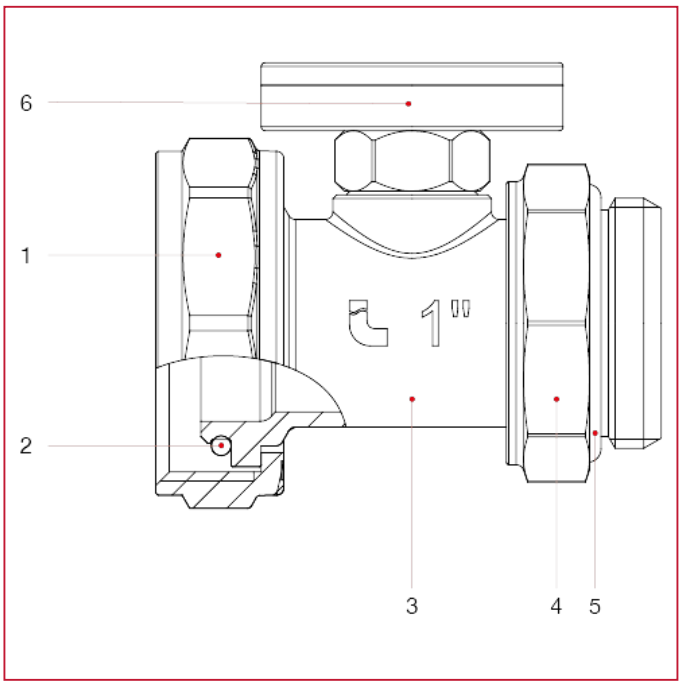
	1"
DN	25
A	64,75
B	45,5
C	50,8
D	62
E	25
F	15
G	10,5
H	67,5
I	49
L	61,5
M	34,5
Kg/cm2 bar	40
LBS - psi	580

MATERIALS art.098SDC size 1"



POS.	DESCRIPTION	N.	MATERIAL
1	Female end adapter	1	Nickel-plated brass CW617N
2	Seat	2	P.T.F.E.
3	Ball	1	Chrome-plated brass CW617N
4	Body	1	Nickel-plated brass CW617N
5	Stem	1	Brass CW614N
6	O-ring	1	NBR
7	O-ring	1	Viton®
8	T handle	1	Varnished aluminium
9	Screw	1	Zinc-plated steel C4C

MATERIALS art.492BC size 1"



POS.	DESCRIPTION	N.	MATERIAL
1	Nut	1	Nickel-plated brass CW617N
2	O-ring	1	NBR
3	Thermometer fitting	1	Nickel-plated brass CW617N
4	Nut	1	Nickel-plated brass CW614N
5	O-ring	1	NBR
6	Thermometer	1	Brass CW614N

487K02 Angle ball valves and thermometer union kit

BALL VALVES KIT

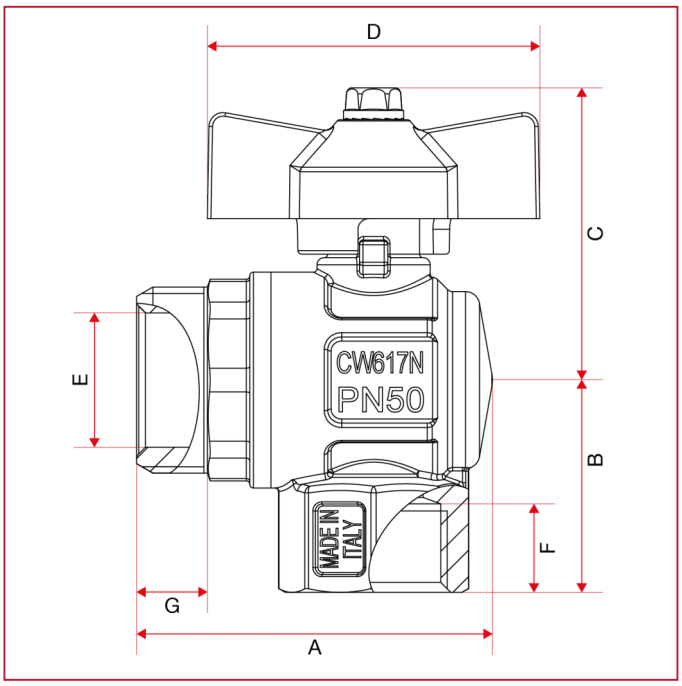
MEASURE	PRESSURE	CODE	PACKING
1"	10bar/145psi	4870100K02	1/12

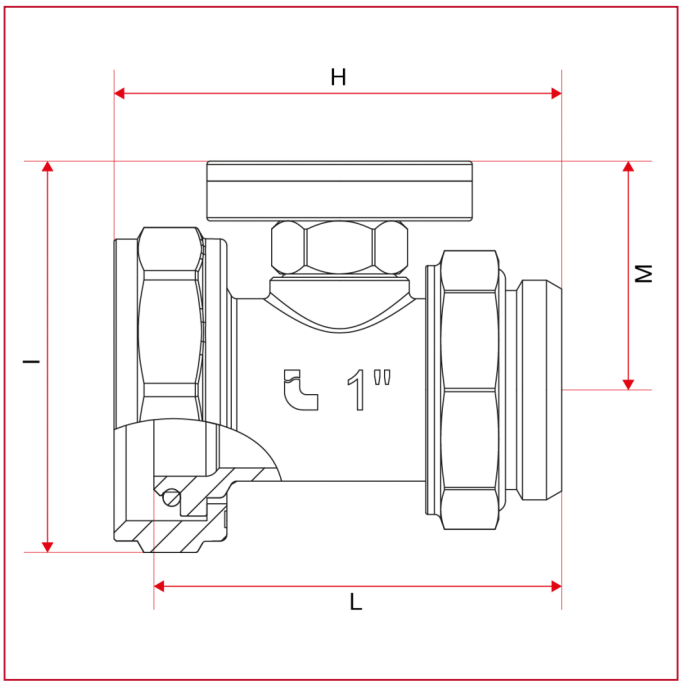
CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Kit consisting of: 2 ball valves art. 298SDC and 298SDCB, red and blue T handles and 2 thermometer unions complete with thermometers art. 492BC.
Available size: 1”.
Valves specifications:
Male/female threads.
T handle in aluminium.
Body in nickel-plated brass.
Minimum and maximum working temperatures: -20°C, 150°C in absence of steam.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Male thread with conical seat.
Thermometer unions specifications:
Body in nickel-plated brass.
O-ring in NBR.
Thermometer range: 0°C, 80°C.
Diameter: mm.40.
Maximum working temperature: 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

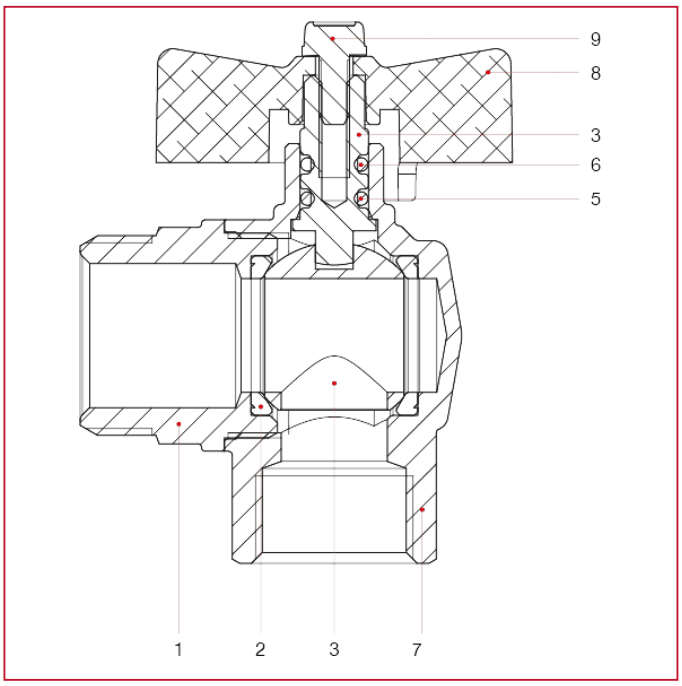
OVERALL DIMENSIONS





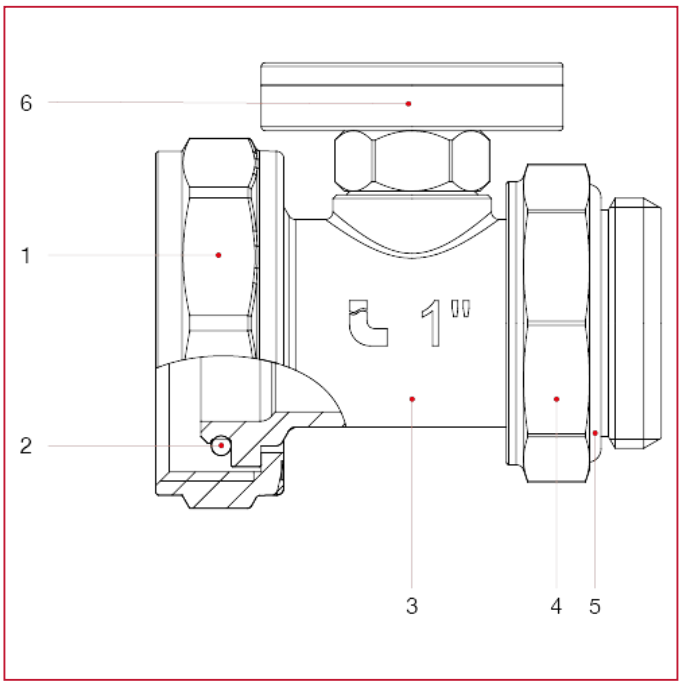
	1"
DN	25
A	47
B	39,75
C	51
D	62
E	23
F	15
G	14
H	67,5
I	49
L	61,5
M	34,5
Kg/cm2 bar	10
LBS - psi	145

MATERIALS art.298SDC size 1"



POS.	DESCRIPTION	N.	MATERIAL
1	Male end adapter	1	Nickel-plated brass CW617N
2	Seat	2	P.T.F.E.
3	Ball	1	Chrome-plated brass CW617N
4	Stem	1	Brass CW614N
5	O-ring	1	NBR
6	O-ring	1	Viton®
7	Body	1	Nickel-plated brass CW617N
8	T handle	1	Varnished aluminium
9	Screw	1	Zinc-plated steel C4C

MATERIALS art.492BC size 1"



POS.	DESCRIPTION	N.	MATERIAL
1	Nut	1	Nickel-plated brass CW617N
2	O-ring	1	NBR
3	Thermometer fitting	1	Nickel-plated brass CW617N
4	Nut	1	Nickel-plated brass CW614N
5	O-ring	1	NBR
6	Thermometer	1	Brass CW614N

492N Surface thermometer

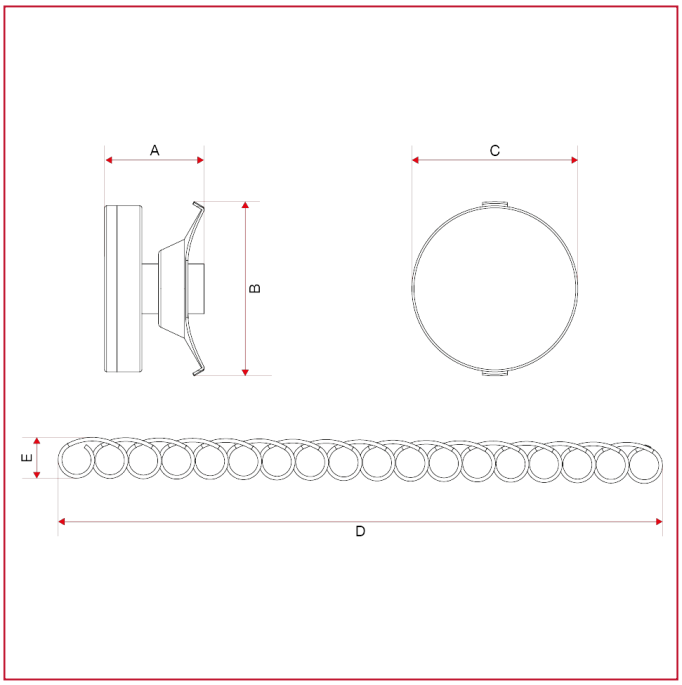
CODE	PACKING
492N	12/264

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Available diameter: mm. 40
Scale: 0°C - 80°C
Suitable for stainless steel and brass bar distribution manifolds.

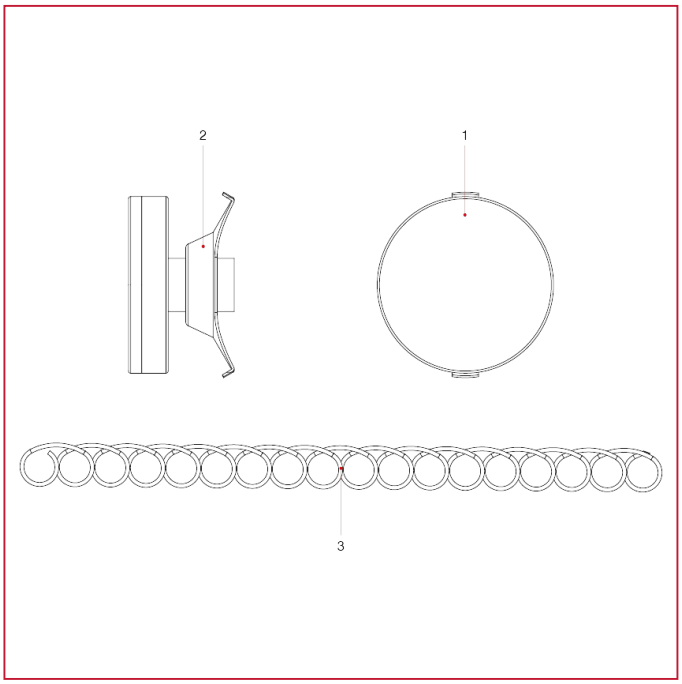
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

A	19,5
B	42
C	40,5
D	125
E	10,5

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Thermometer	1	ABS
2	Bracket	1	Stainless steel AISI 304
3	Spring	1	Stainless steel AISI 302

490 Male end fitting for manifolds

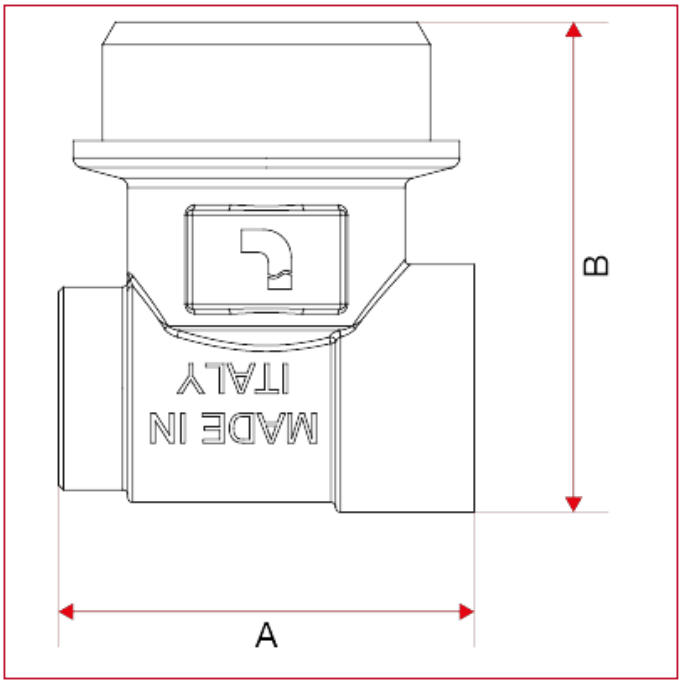
MEASURE	PRESSURE	CODE	PACKING
3/4"	10bar/145psi	4900034	14/168
1"	10bar/145psi	4900100	12/144
1"1/4	10bar/145psi	4900114	8/96

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Available sizes: 3/4”, 1”, 1”1/4 (main connection).
Size of the first outlet: 1/2”.
Size of the second outlet: 3/8”.
Body in nickel-plated brass.
Maximum working temperature: 110°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

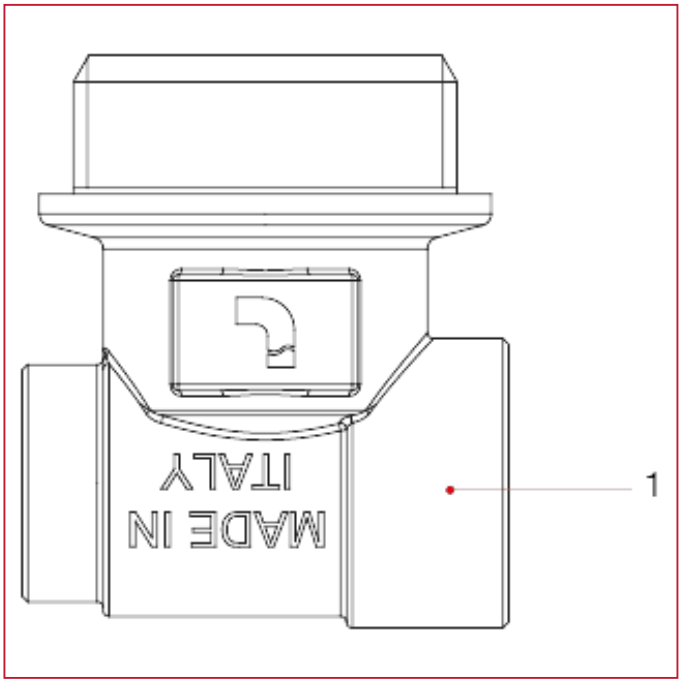
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

	3/4"	1"	1"1/4
A	42	42	50
B	47,5	49,5	50
Kg/cm2 bar	10	10	10
LBS - psi	145	145	145

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Body	1	Nickel-plated brass CW617N

490S Adjustable male end fitting for manifolds

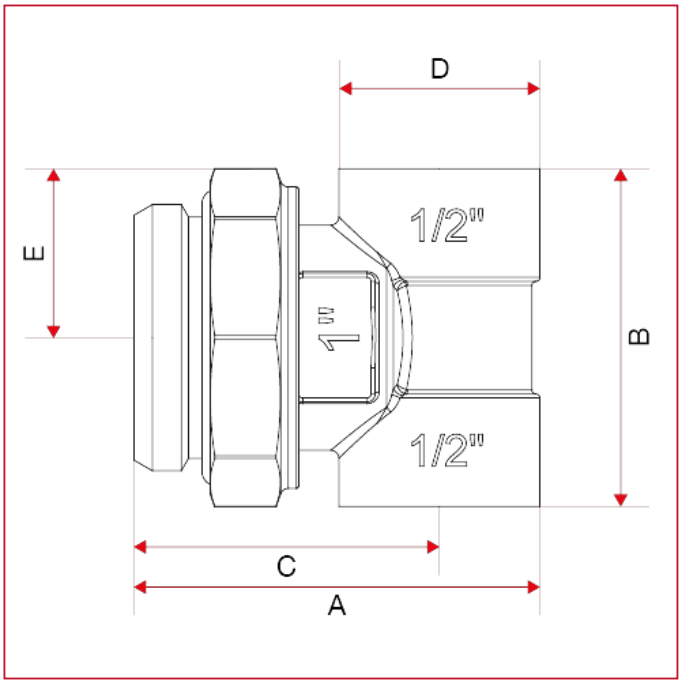
MEASURE	PRESSURE	CODE	PACKING
1"	10bar/145psi	4900100S	12/144
1"1/4	10bar/145psi	4900114S	8/96

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Available sizes: 1”, 1”1/4 (main connection).
Size of the outlets: 1/2”.
Body in nickel-plated brass.
O-ring in NBR.
Maximum working temperature: 110°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

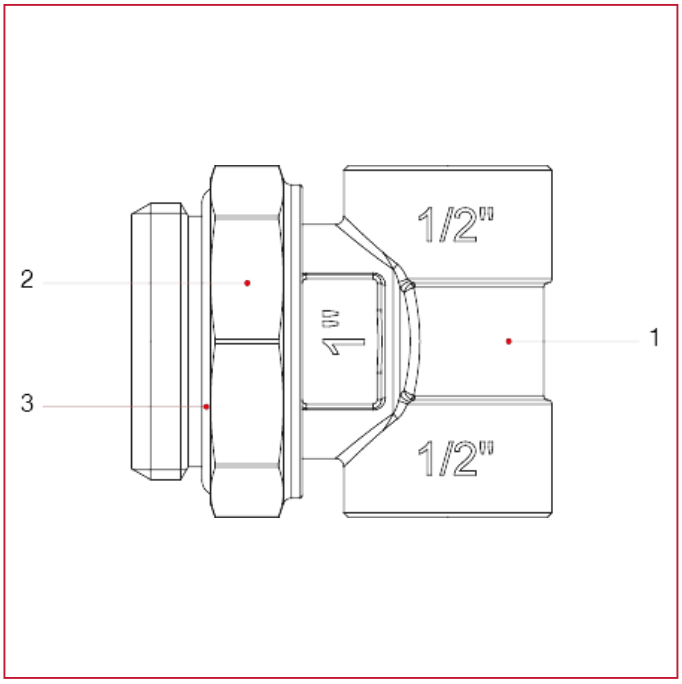
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

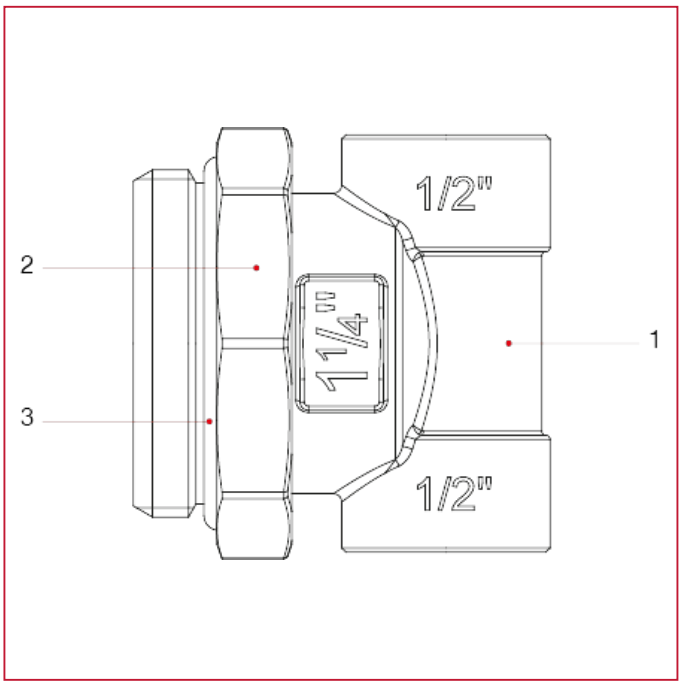
	1"	1"1/4
A	50,5	50
B	42	50
C	38	37,5
D	25	25
E	21	25
Kg/cm2 bar	10	10
LBS - psi	145	145

MATERIALS size 1"



POS.	DESCRIPTION	N.	MATERIAL
1	Body	1	Nickel-plated brass CW617N
2	Nut	1	Nickel-plated brass CW617N
3	O-ring	1	NBR

MATERIALS size 1"1/4



POS.	DESCRIPTION	N.	MATERIAL
1	Body	1	Nickel-plated brass CW617N
2	Nut	1	Nickel-plated brass CW617N
3	O-ring	1	NBR

491 Female end fitting for manifolds

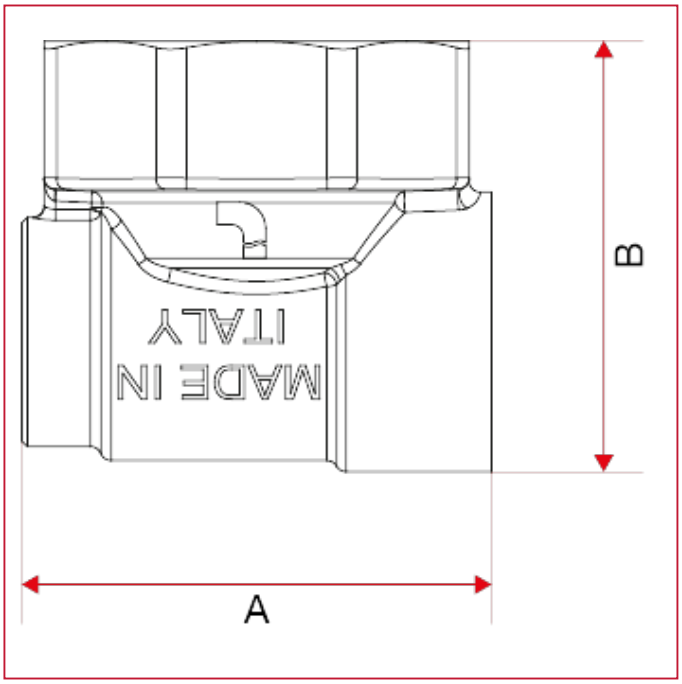
MEASURE	PRESSURE	CODE	PACKING
3/4"	10bar/145psi	4910034	14/196
1"	10bar/145psi	4910100	12/156

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Available sizes: 3/4”, 1” (main connection).
Size of the first outlet: 1/2”.
Size of the second outlet: 3/8”.
Body in nickel-plated brass.
Maximum working temperature: 110°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

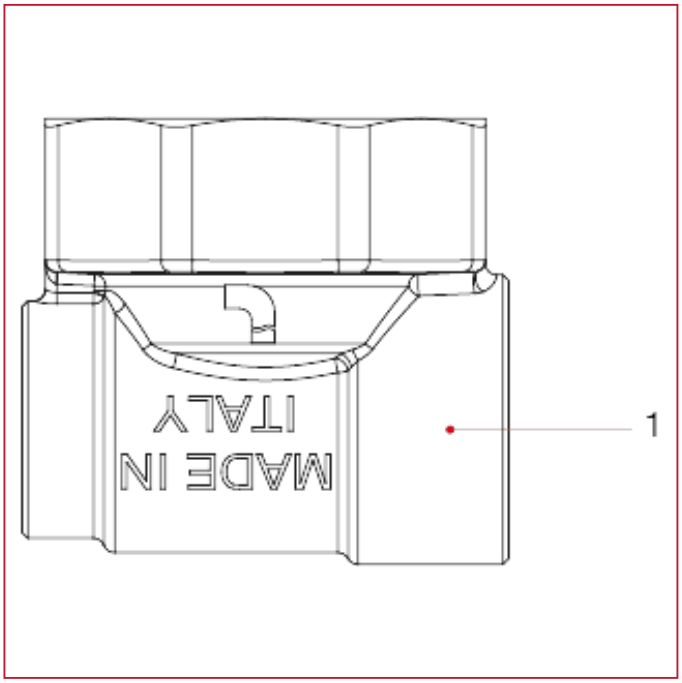
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

	3/4"	1"
A	42	42
B	37,5	38,5
Kg/cm2 bar	10	10
LBS - psi	145	145

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Body	1	Nickel-plated brass CW617N

492 Thermometer fitting

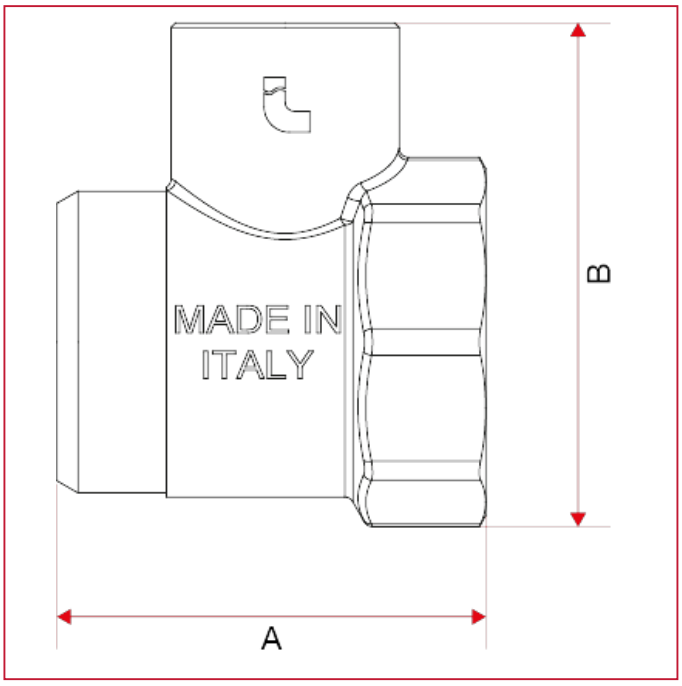
MEASURE	PRESSURE	CODE	PACKING
1"	10bar/145psi	4920100	6/84

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Available size: 1”.
Size of the thermometer thread: 1/2”.
Body in nickel-plated brass.
Maximum working temperature: 110°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

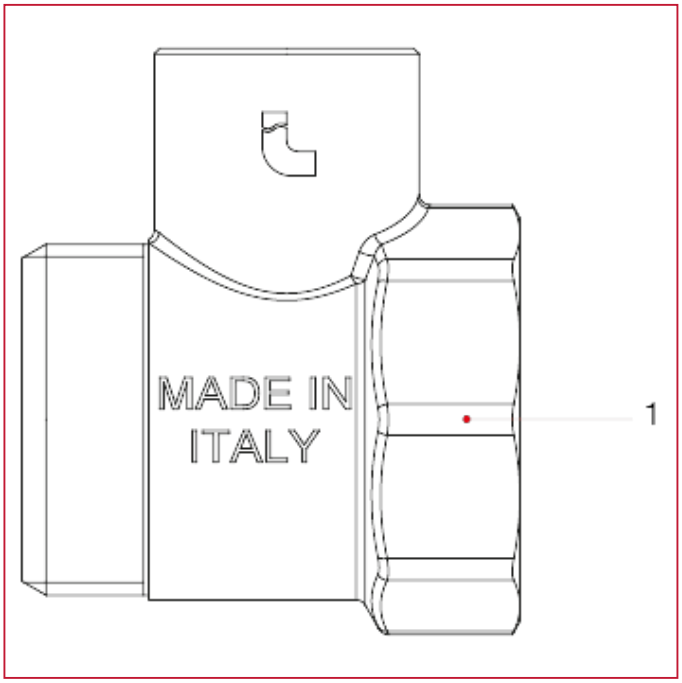
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

	1"
A	47
B	55,5
Kg/cm2 bar	10
LBS - psi	145

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Body	1	Nickel-plated brass CW617N

492B Thermometer union

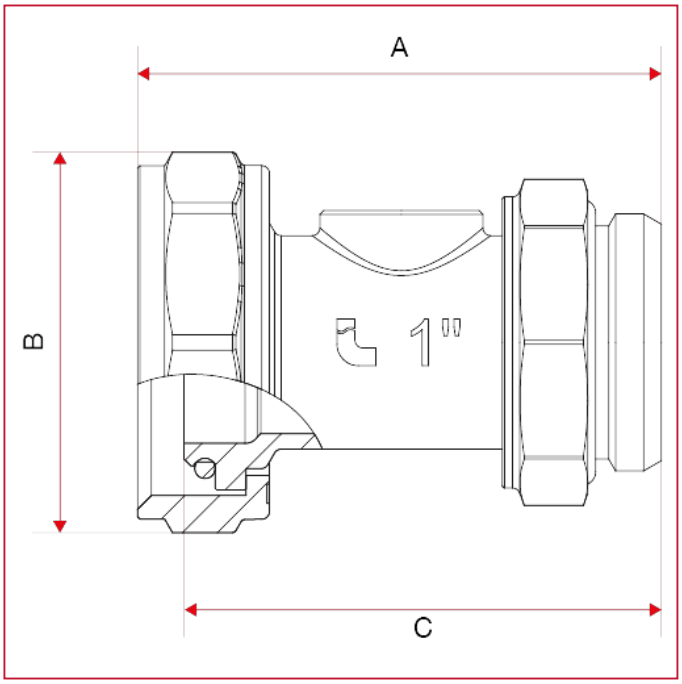
MEASURE	PRESSURE	CODE	PACKING
1"	10bar/145psi	4920100B	8/96
1"1/4	10bar/145psi	4920114B	4/48

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Available sizes: 1”M x 1”1/4F, 1”1/4M x 1”1/2F.
Size of the thermometer thread: 3/8”.
Body in nickel-plated brass. O-ring in NBR.
Maximum working temperature: 110°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Suitable for ball valve art. 098SDC and 298SDC.

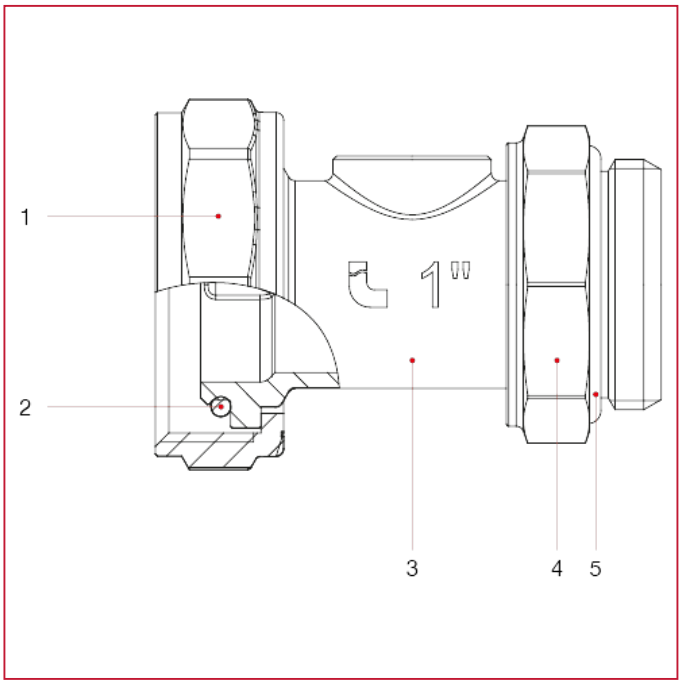
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

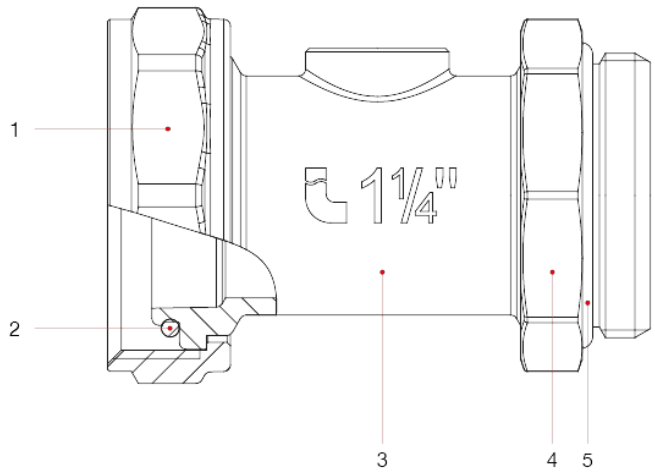
	1"	1"1/4
A	67,5	79,5
B	49	55
C	61,5	73
Kg/cm2 bar	10	10
LBS - psi	145	145

MATERIALS size 1"



POS.	DESCRIPTION	N.	MATERIAL
1	Nut	1	Nickel-plated brass CW617N
2	O-ring	1	NBR
3	Thermometer fitting	1	Nickel-plated brass CW617N
4	Nut	1	Nickel-plated brass CW617N
5	O-ring	1	NBR

MATERIALS size 1"1/4



POS.	DESCRIPTION	N.	MATERIAL
1	Nut	1	Nickel-plated brass CW617N
2	O-ring	1	NBR
3	Thermometer fitting	1	Nickel-plated brass CW617N
4	Nut	1	Nickel-plated brass CW617N
5	O-ring	1	NBR

492C Thermometer union complete with thermometer

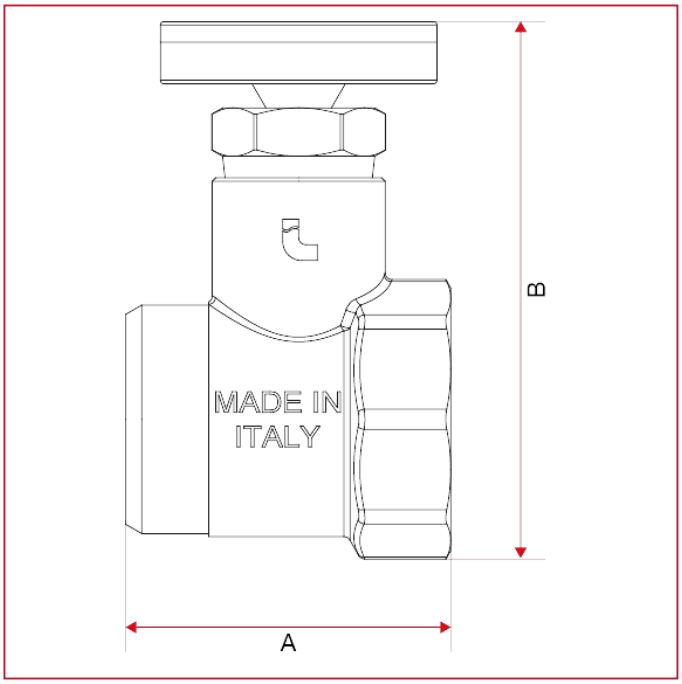
MEASURE	PRESSURE	CODE	PACKING
1"	10bar/145psi	4920100C	4/104

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Available size: 1”.
Body in nickel-plated brass.
Thermometer scale: 0°C-120°C, diameter mm.40.
Thermometer complying with INAIL regulations (ex ISPESL).
Maximum working temperature: 110°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

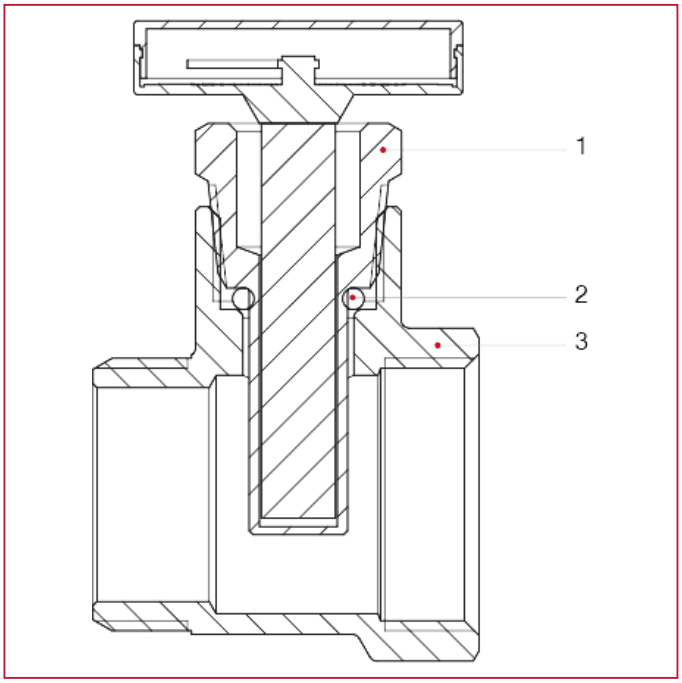
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

	1"
A	47
B	78
Kg/cm2 bar	10
LBS - psi	145

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Thermometer	1	Brass CW614N
2	O-ring	1	NBR
3	Body	1	Nickel-plated brass CW617N

492BC Thermometer union complete with thermometer

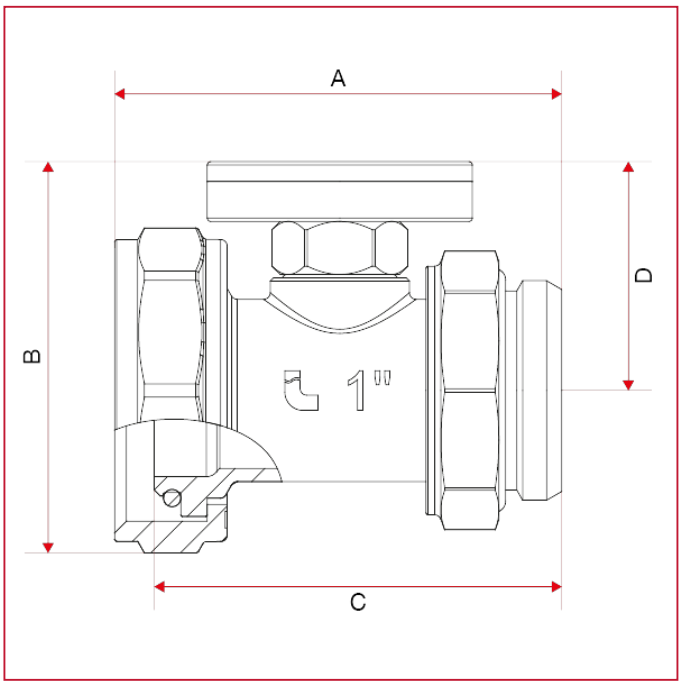
MEASURE	PRESSURE	CODE	PACKING
1" (DN 25)	10bar/145psi	4920100BC	4/56
1"1/4 (DN 32)	10bar/145psi	4920114BC	4/48

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

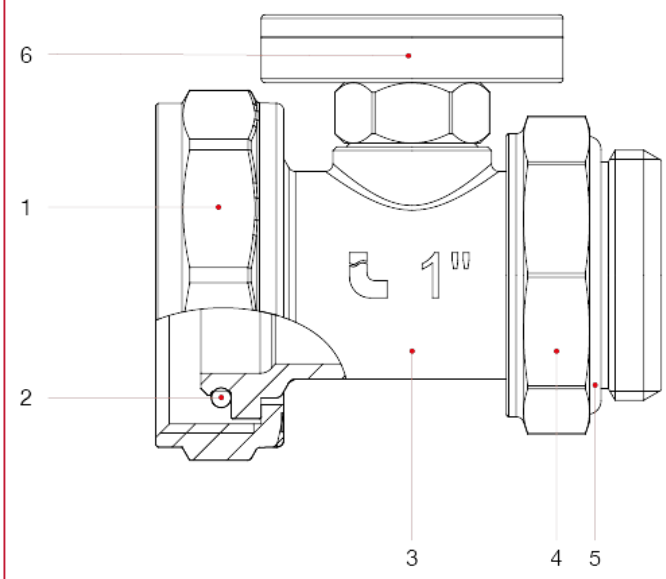
Available sizes: 1”Mx1”1/4F - 1”1/4Mx1”1/2F.
Body in nickel-plated brass.
O-ring in NBR.
Thermometer scale: 0°C-80°C.
Diameter: mm.40.
Maximum working temperature: 80°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Suitable for ball valve art. 098SDC and 298SDC.

OVERALL DIMENSIONS



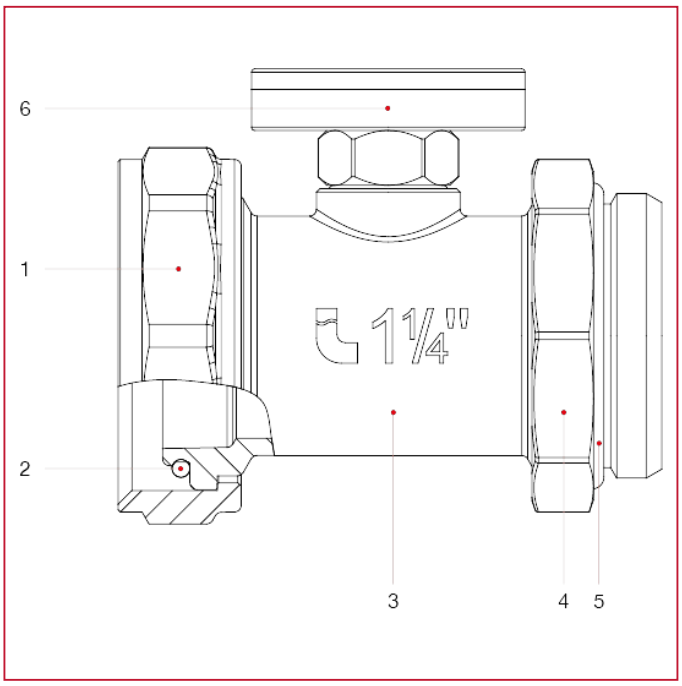
	1"	1"1/4
A	67,5	79,5
B	49	55
C	61,5	73
D	34,5	39
Kg/cm2 bar	10	10
LBS - psi	145	145

MATERIALS size 1"



POS.	DESCRIPTION	N.	MATERIAL
1	Nut	1	Nickel-plated brass CW617N
2	O-ring	1	NBR
3	Thermometer fitting	1	Nickel-plated brass CW617N
4	Nut	1	Nickel-plated brass CW617N
5	O-ring	1	NBR
6	Thermometer	1	Brass CW614N

MATERIALS size 1"1/4



POS.	DESCRIPTION	N.	MATERIAL
1	Nut	1	Nickel-plated brass CW617N
2	O-ring	1	NBR
3	Thermometer fitting	1	Nickel-plated brass CW617N
4	Nut	1	Nickel-plated brass CW617N
5	O-ring	1	NBR
6	Thermometer	1	Brass CW614N

494 Male end cap with o-ring

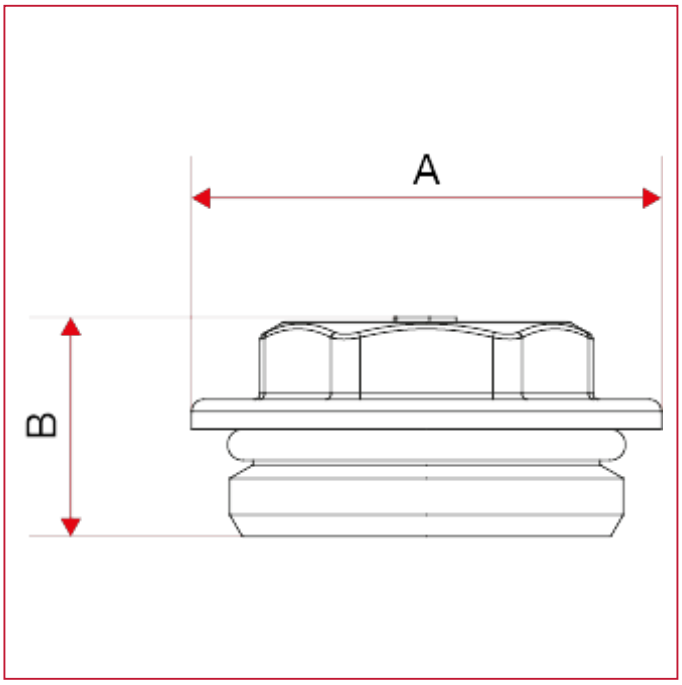
MEASURE	PRESSURE	CODE	PACKING
3/8"	10bar/145psi	4940038	50/1000
1/2"	10bar/145psi	4940012	40/760
3/4"	10bar/145psi	4940034	26/598
1"	10bar/145psi	4940100	16/352
1"1/4	10bar/145psi	4940114	12/240

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Body in nickel-plated brass.
O-ring in EPDM.
Maximum working temperature: 110°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

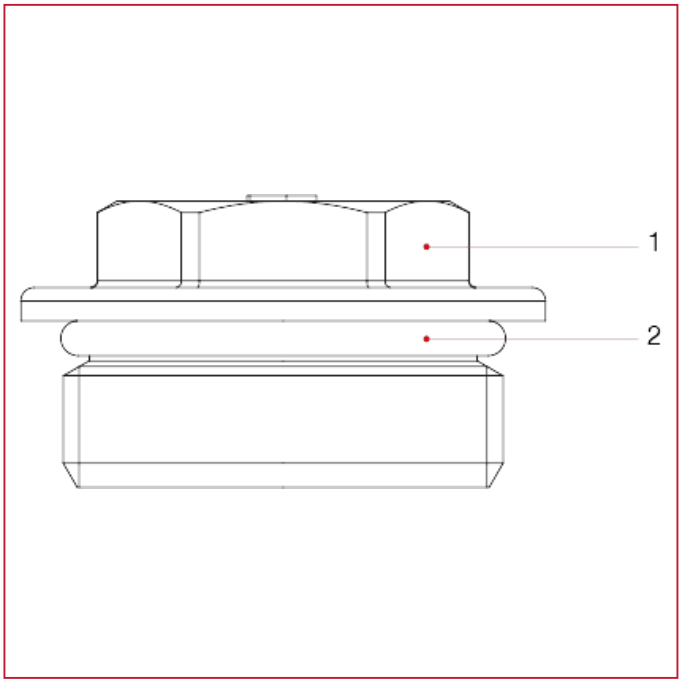
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

	3/8"	1/2"	3/4"	1"	1"1/4
A	24	26	33	39,5	48
B	13	14,5	17	18	22,5
Kg/cm2 bar	10	10	10	10	10
LBS - psi	145	145	145	145	145

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Cap	1	Nickel-plated brass CW617N
2	O-ring	1	EPDM

495 Male end fitting with o-ring

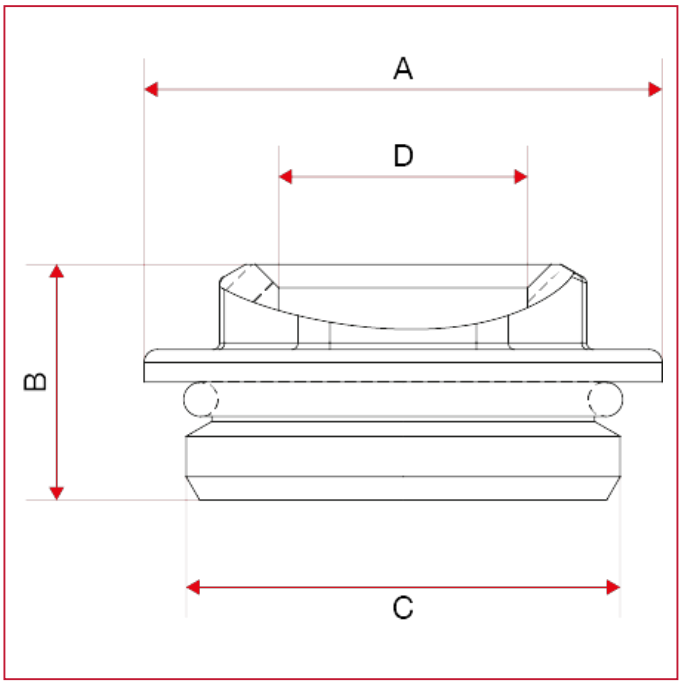
MEASURE	PRESSURE	CODE	PACKING
3/4"X3/8"	10bar/145psi	4950034038	26/598
3/4"X1/2"	10bar/145psi	4950034012	26/676
1"X3/8"	10bar/145psi	4950100038	16/352
1"X1/2"	10bar/145psi	4950100012	16/352
1"1/4X1/2"	10bar/145psi	4950114012	12/264

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Available sizes: 3/4”x3/8”, 3/4”x1/2”, 1”x3/8”, 1”x1/2”, 1”1/4x1/2”.
Body in nickel-plated brass.
O-ring in EPDM.
Maximum working temperature: 110°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

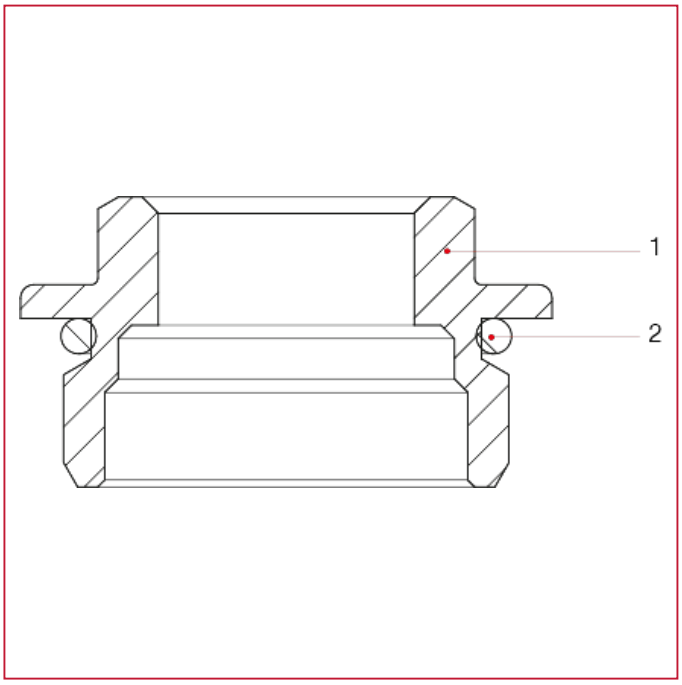
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

	3/4"X3/8"	3/4"X1/2"	1"X3/8"	1"X1/2"	1"1/4X1/2"
A	33	33	39,5	39,5	48
B	17	17	18	18	22,5
C	3/4”	3/4”	1”	1”	1”1/4
D	3/8”	1/2”	3/8”	1/2”	1/2”
Kg/cm2 bar	10	10	10	10	10
LBS - psi	145	145	145	145	145

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Cap	1	Nickel-plated brass CW617N
2	O-ring	1	EPDM

496 Female end cap with washer

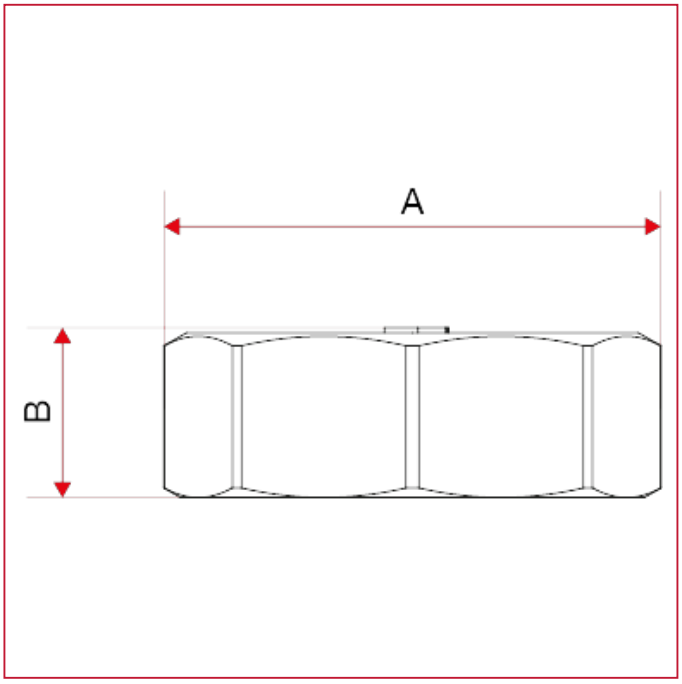
MEASURE	PRESSURE	CODE	PACKING
1/2"	10bar/145psi	4960012	40/1040
3/4"	10bar/145psi	4960034	26/624
1"	10bar/145psi	4960100	20/280

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Body in nickel-plated brass.
Washer in NBR.
Maximum working temperature: 110°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

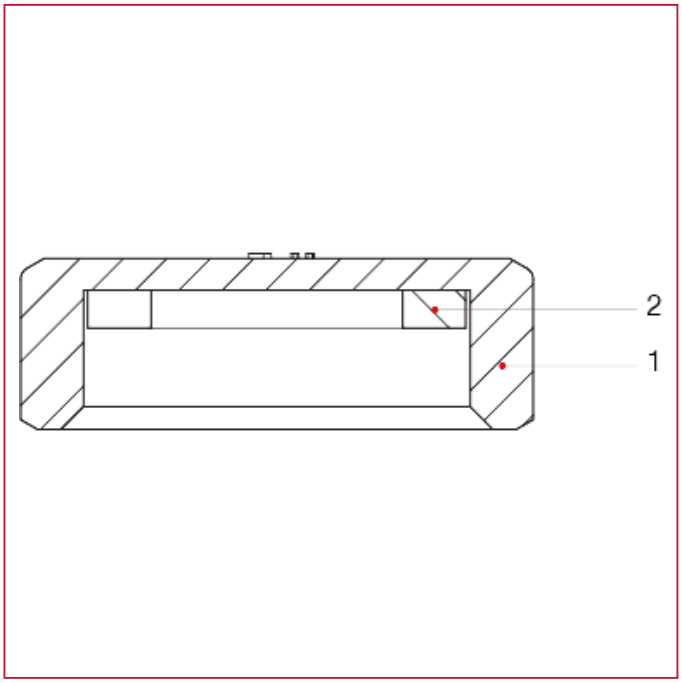
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

	1/2"	3/4"	1"
A	28	33,3	40,7
B	12,5	12,5	13,5
Kg/cm2 bar	10	10	10
LBS - psi	145	145	145

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Cap	1	Nickel-plated brass CW617N
2	Washer	1	NBR

482 Pressure gauge, bottom connection, 0-10 bar

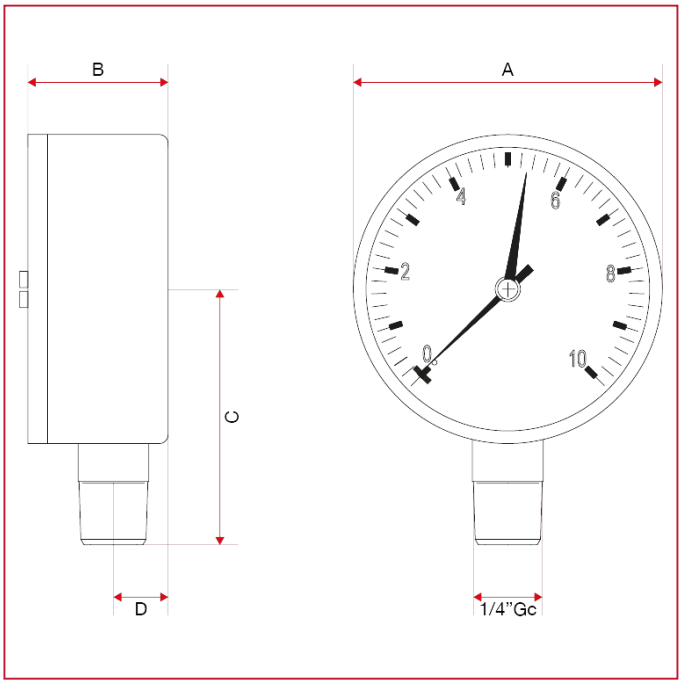
MEASURE	PRESSURE	CODE	PACKING
1/4"	10bar/145psi	482B014	4/88

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Complying with INAIL regulation (ex ISPESL).
Diameter mm.63.
Size of the connection: 1/4".
Scale: 0-10 bar.
Taper thread ISO 7/1 R (equivalent to DIN EN 10226-1 and BS EN 10226-1).

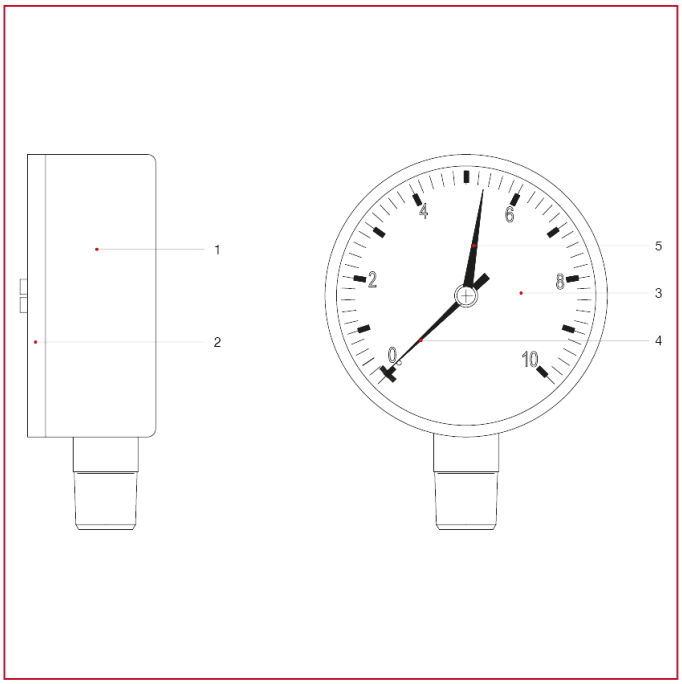
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

	1/4"
A	62
B	28,3
C	50
D	11
Kg/cm2 bar	10
LBS - psi	145

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Body	1	ABS
2	See-through cap	1	Altuglas®
3	Quadrant	1	Plastic
4	Indicator	1	ABS
5	Adjustable indicator	1	ABS

482R Pressure gauge, bottom connection, 0-6 bar

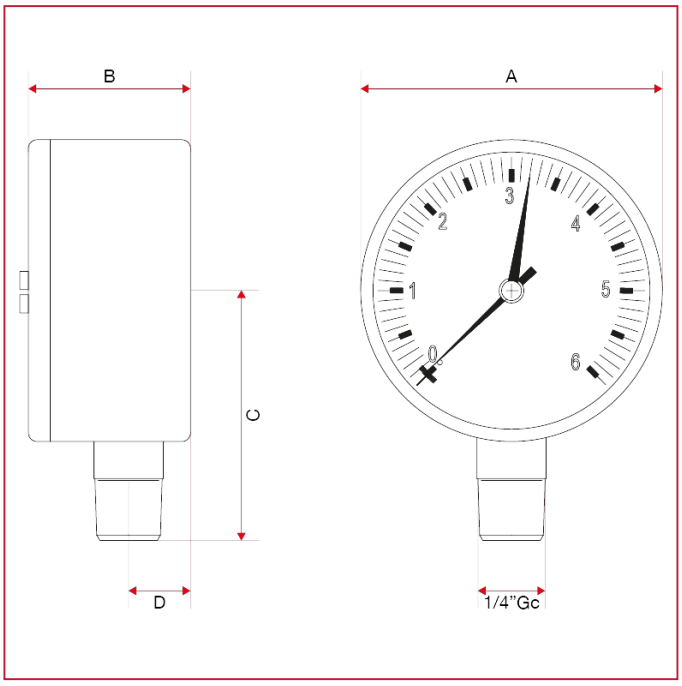
MEASURE	PRESSURE	CODE	PACKING
1/4"	6bar/87psi	482B014R	4/88

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Complying with INAIL regulation (ex ISPESL).
Diameter mm.50.
Size of the connection: 1/4".
Scale: 0-6 bar.
Taper thread ISO 7/1 R (equivalent to DIN EN 10226-1 and BS EN 10226-1).

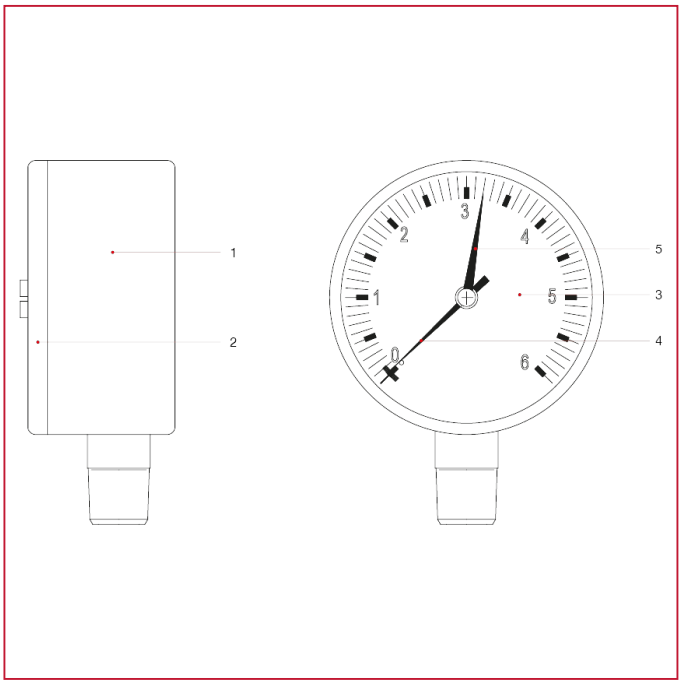
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

	1/4"
A	52
B	27,7
C	44,4
D	10,7
Kg/cm2 bar	6
LBS - psi	87

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Body	1	ABS
2	See-through cap	1	Altuglas®
3	Quadrant	1	Plastic
4	Indicator	1	Nylon
5	Adjustable indicator	1	ABS

483 Pressure gauge, back connection, 0-10 bar

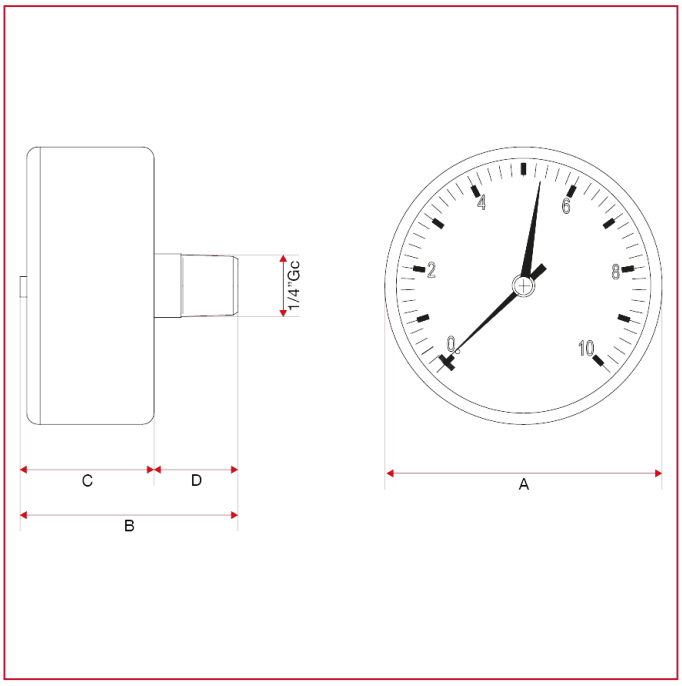
MEASURE	PRESSURE	CODE	PACKING
1/4"	10bar/145psi	483B014	4/88

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Complying with INAIL regulation (ex ISPESL).
Diameter mm.63.
Size of the connection: 1/4".
Scale: 0-10 bar.
Taper thread ISO 7/1 R (equivalent to DIN EN 10226-1 and BS EN 10226-1).

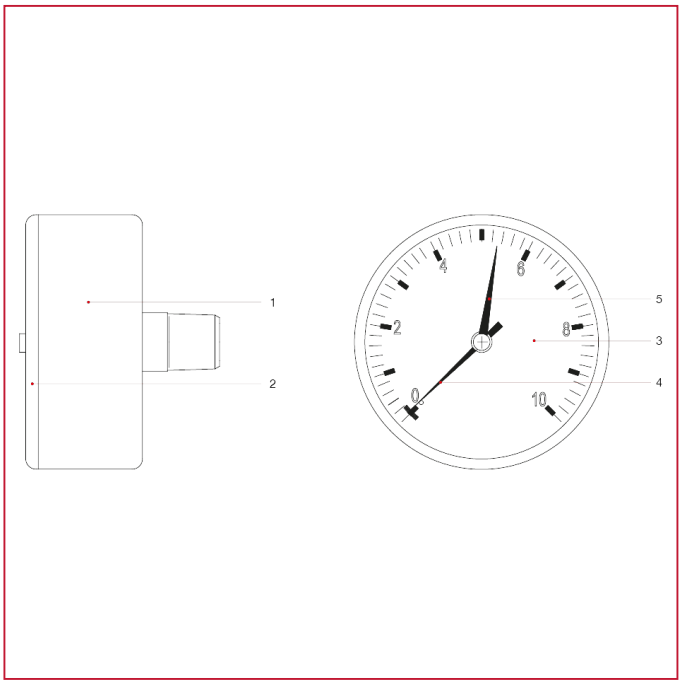
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

	1/4"
A	62
B	43,5
C	27,5
D	16
Kg/cm2 bar	10
LBS - psi	145

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Body	1	ABS
2	See-through cap	1	Polystyrene crystal
3	Quadrant	1	Plastic
4	Indicator	1	Nylon
5	Adjustable indicator	1	ABS

483R Pressure gauge, back connection, 0-6 bar

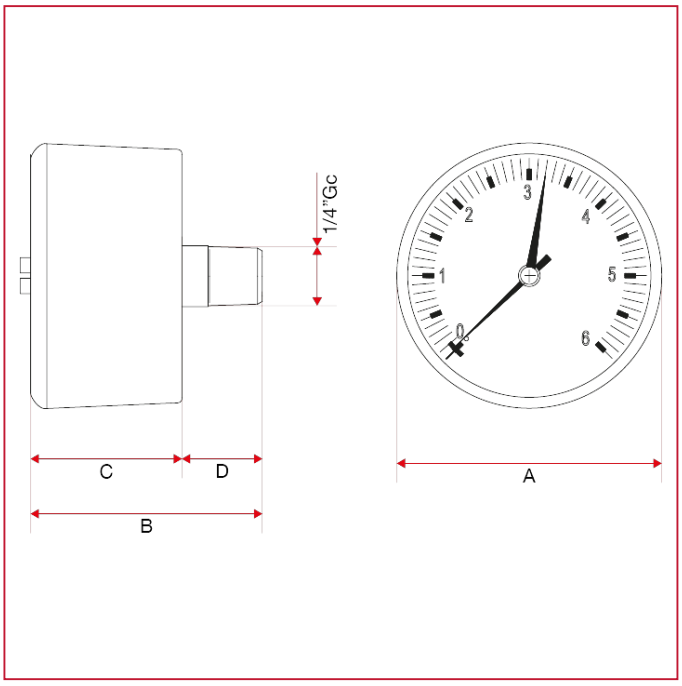
MEASURE	PRESSURE	CODE	PACKING
1/4"	6bar/87psi	483B014R	4/88

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Complying with INAIL regulation (ex ISPESL).
Diameter mm.50.
Size of the connection: 1/4".
Scale: 0-6 bar.
Taper thread ISO 7/1 R (equivalent to DIN EN 10226-1 and BS EN 10226-1).

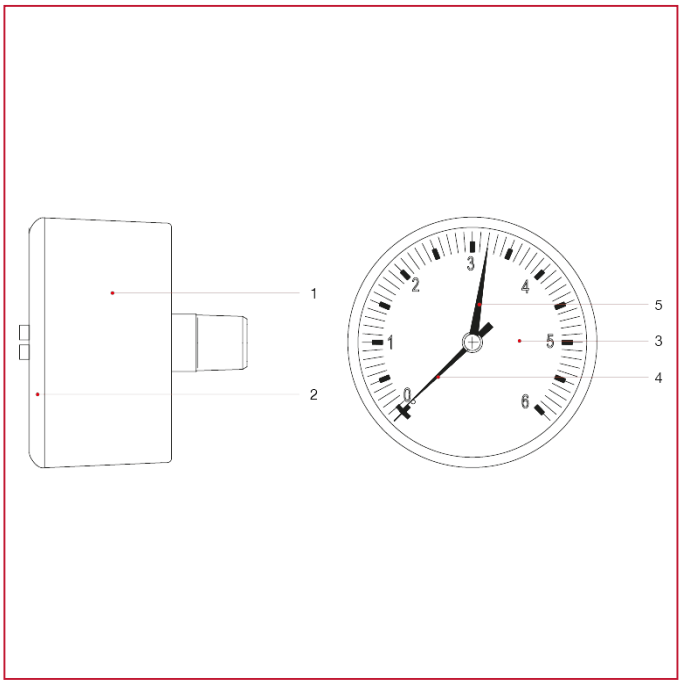
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

	1/4"
A	50,3
B	44,8
C	28,8
D	16
Kg/cm2 bar	6
LBS - psi	87

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Body	1	ABS
2	See-through cap	1	Polystyrene crystal
3	Quadrant	1	Plastic
4	Indicator	1	Nylon
5	Adjustable indicator	1	ABS

484 Thermometer and pressure gauge, bottom connection

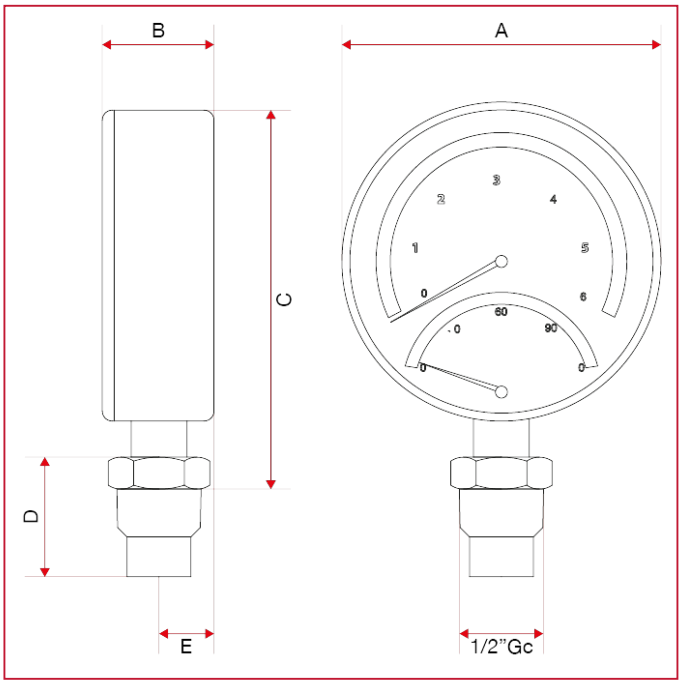
MEASURE	PRESSURE	CODE	PACKING
1/2"	6bar/87psi	484B012	2/44

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Diameter mm.80.
Size of the connection: 1/2".
Scale: 0°C-120°C, 0-6 bar.
Taper thread ISO 7/1 R (equivalent to DIN EN 10226-1 and BS EN 10226-1).

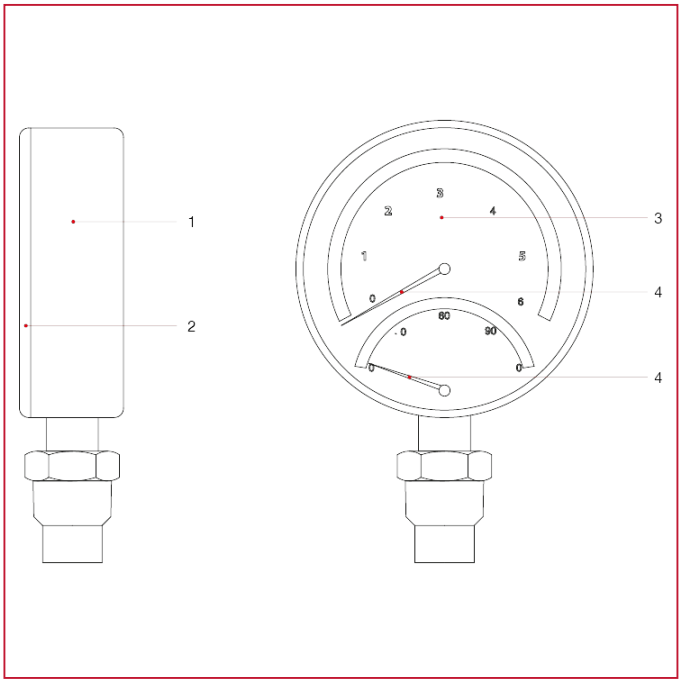
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

	1/2"
A	80
B	28,3
C	93,6
D	30
E	14,25
Kg/cm2 bar	6
LBS - psi	87

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Body	1	ABS
2	See-through cap	1	Altuglas®
3	Quadrant	1	Aluminium
4	Indicator	1	Nylon
5	Indicator	1	Nylon

485 Thermometer and pressure gauge, back connection

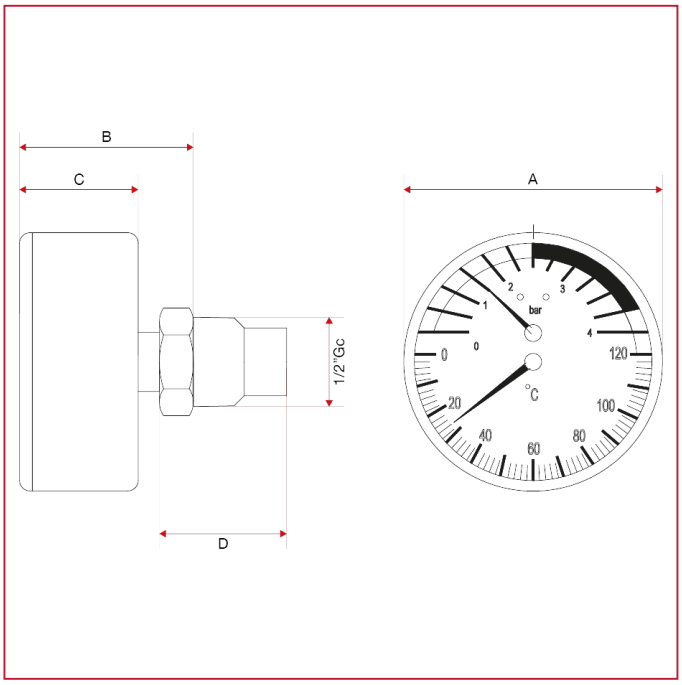
MEASURE	PRESSURE	CODE	PACKING
1/2"	4bar/58psi	485B012	2/44

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Diameter mm.63.
Size of the connection: 1/2".
Scale: 0°C-120°C, 0-4 bar.
Taper thread ISO 7/1 R (equivalent to DIN EN 10226-1 and BS EN 10226-1).

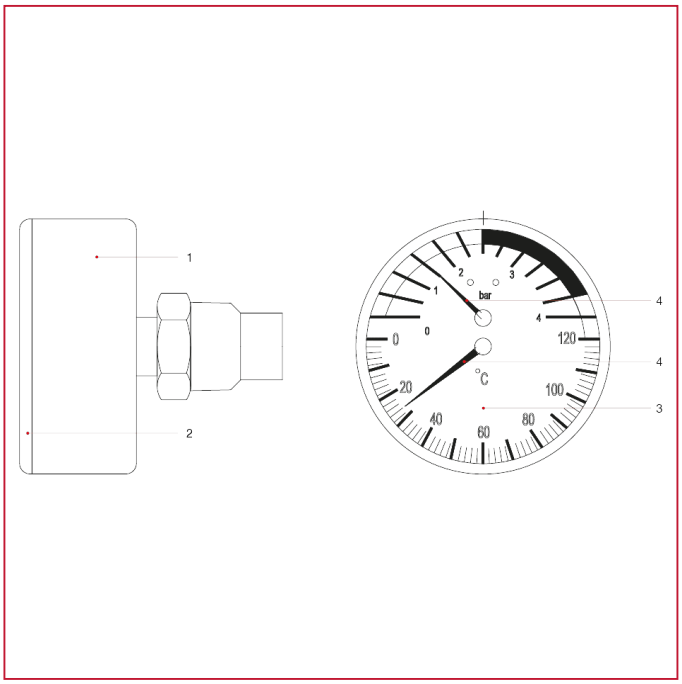
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

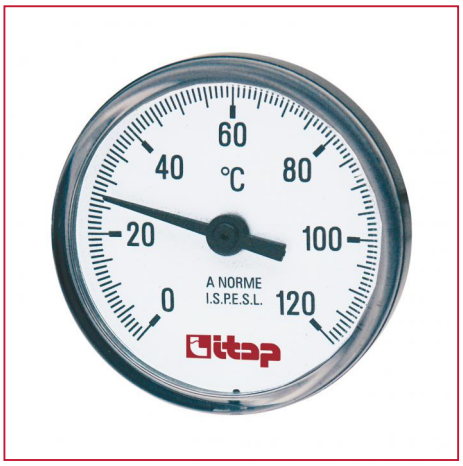
	1/2"
A	62
B	45
C	29,6
D	30
Kg/cm2 bar	4
LBS - psi	58

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Body	1	ABS
2	See-through cap	1	Altuglas®
3	Quadrant	1	Aluminium
4	Indicator	1	Nylon
5	Indicator	1	Nylon

493 Thermometer, back connection



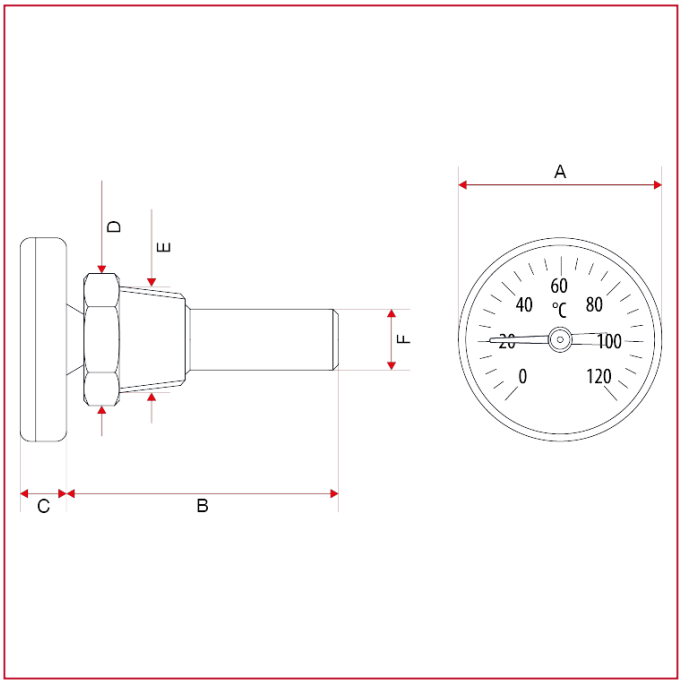
MEASURE	PRESSURE	CODE	PACKING
3/8"X40	10bar/145psi	493B03840P	10/220
1/2"X40	10bar/145psi	493B01240P	8/176
1/2"X63	10bar/145psi	493B01263P	4/88
1/2"X80	10bar/145psi	493B01280P	2/24

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Complying with INAIL regulation (ex ISPESL).
Available diameters: mm.40, mm.63, mm.80.
Size of the connections: 3/8", 1/2".
Pin length: mm. 50 (with □40 - 63) - mm.100 (with □80).
Scale: 0°C- 80°C (3/8") , 0°C-120°C (1/2").
Taper thread ISO 7/1 R (equivalent to DIN EN 10226-1 and BS EN 10226-1).

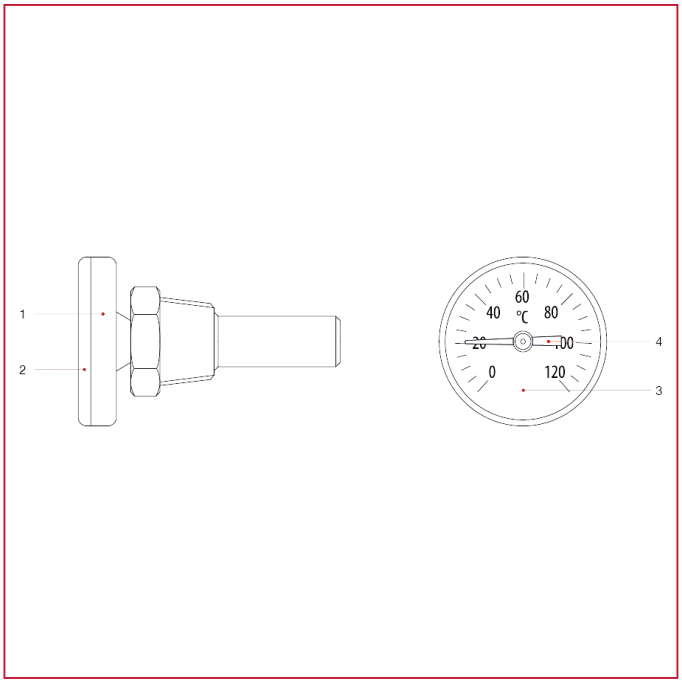
OVERALL DIMENSIONS



ACCESSORIES FOR MANIFOLDS

	3/8"X40	1/2"X40	1/2"X63	1/2"X80
A	39,8	40	62	80,8
B	33	53,5	50	106
C	9	9	12,7	11,6
D	Ch,Ex,18	Ch,Ex,22	Ch,Ex,22	Ch,Ex,22
E	3/8"	1/2"	1/2"	1/2"
F	11,6	12	12	11
Kg/cm2 bar	10	10	10	10
LBS - psi	145	145	145	145

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Body	1	ABS
2	See-through cap	1	Altuglas®
3	Quadrant	1	Aluminium
4	Indicator	1	Nylon

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