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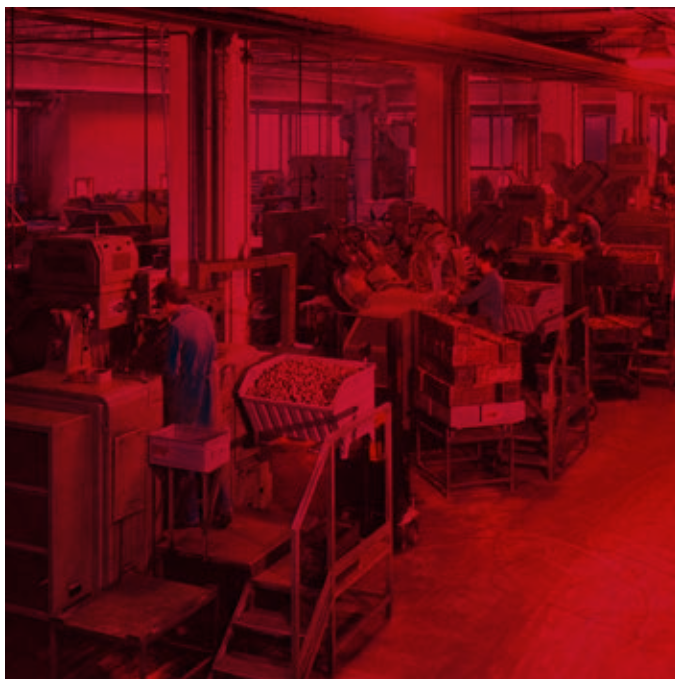
ITAP HISTORY

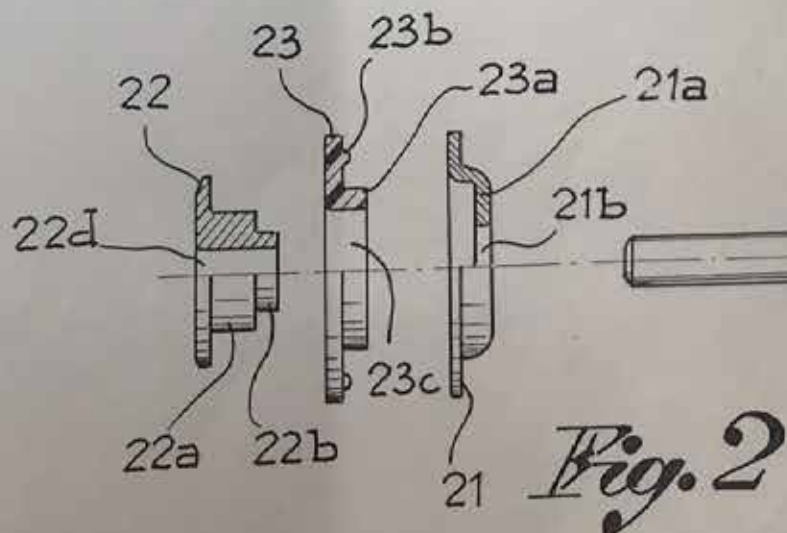
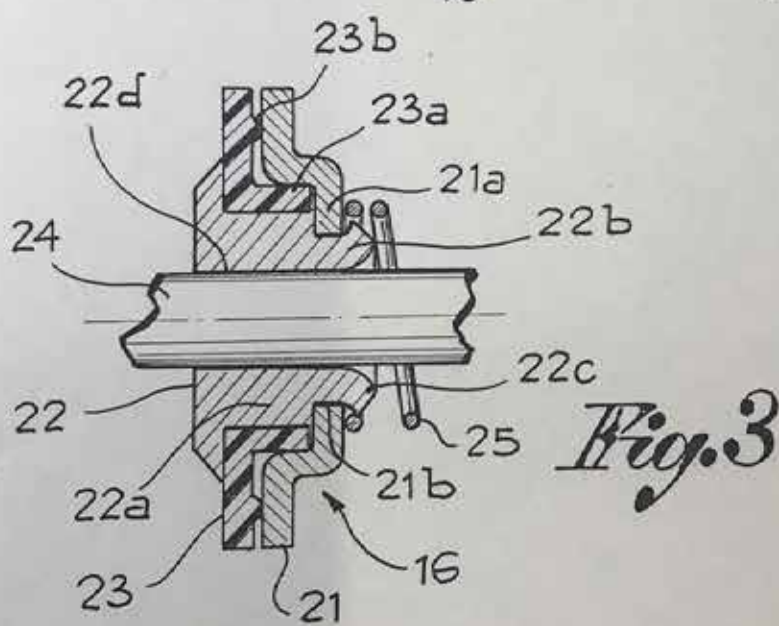
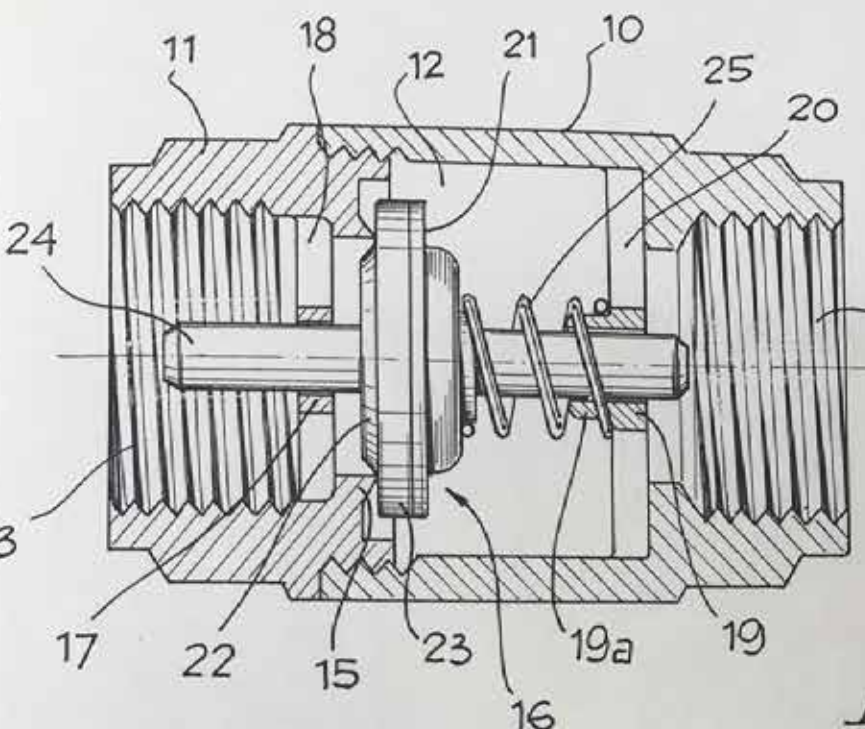
1972-2024

Established in Lumezzane (Brescia) in 1972 by the Patti brothers, Itap is currently one of the leading companies in the production of valves, fittings and distribution manifolds for sanitary and heating systems.

Commitment, growth and vocation have led Itap to be today a solid and internationally recognised reality. A reference point for the plumbing and heating market, always at the service of its customers with products, support, quality and high-level service.

Over 50 years of history, life and passion.





1972

Start of activity in Lumezzane, Brescia, Italy

1987

Europa® patented in all EU countries

1995

Certification under ISO 9001 standard

2000

12.000 m² warehouse in Rodengo Saiano

2004

Introducing the new range of heating products

2009

New 8.000 m² factory in Rodengo Saiano

2013

Introducing the new stainless steel manifold for radiant heating

2015

Automatic assembly line for preassembled manifolds

2016

Second production line for stainless steel bars

2018

Certification under UNI EN ISO 9001:2015

2020

*Third production line for stainless steel bars.
Second automatic assembly line for pre-assembled manifolds*

2022

50th anniversary



PACKING IN BOXES AND CARTONS
HAVE BEEN CHANGED.

PAYMENTS

TO AVOID USELESS EXPENSES, WE
KINDLY ASK YOU TO SEND YOUR
SWIFT TRANSFERS OR L/CS
EXCLUSIVELY ON THE FOLLOWING
ITALIAN BANKS:

UNICREDIT S.p.a.

25125 BRESCIA - ITALY

BIC Swift UNCRITMMORR

Favour ITAP S.p.A. - Lumezzane ITALY

Account 4422673

IBAN IT78 D 02008 05364 000004422673

BNL GRUPPO BNP PARIBAS

25065 LUMEZZANE - BS - ITALY

Swift BNLIITRRXXX

Favour ITAP S.p.A. - Lumezzane

Account 5857

IBAN IT92 W010 0554 6800 0000 0005 857

DELIVERY

WAREHOUSE FOR GOODS LOADINGS:

ITAP S.P.A. WAREHOUSE

VIA INDUSTRIALE 39

ZONA INDUSTRIALE MOIE

25050 RODENGO SAIANO

BRESCIA - ITALY

RETURN OF GOODS

**NO GOODS WILL BE ACCEPTED
WITHOUT PREVIOUS
AUTHORIZATION OF OUR SALES
DEPARTMENT**

Any damage caused by a supposed faulty product of ours must be reported to us, by providing the name of the damaged party and the approximate amount of the damage. Then, pictures related to the damage must be sent to us, together with the supposed faulty product, for technical examination.

Anything which may provide the evidence of the extent of the damage must be available to us until the file will be closed. The above is necessary for opening the file with our insurance.

SALES CONDITIONS

PRICES

CURRENCY

**GOODS
RENDERED**

**MINIMUM
ORDERS'
VALUE
ORDERS BELOW
THE ABOVE
VALUE WILL BE
DELIVERED
EX OUR WORKS**

PAYMENT

DELIVERY

PACKING

VALIDITY

**ORDERS
BELOW
THIS VALUE
ARE ANYWAY
NOT ACCEPTED**

1



CHECH AND FOOT VALVES



Europa® check and foot valves	10-11
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MATERIALS

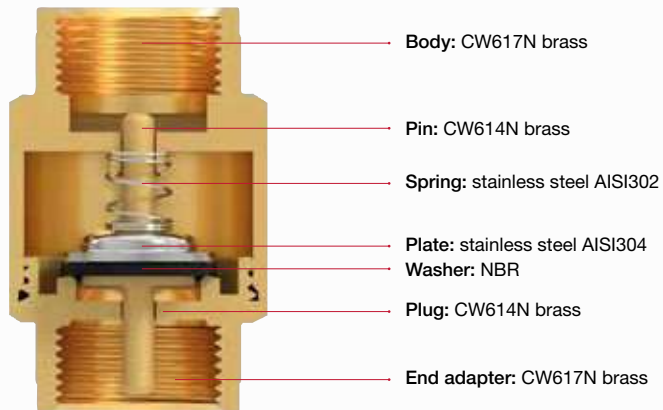
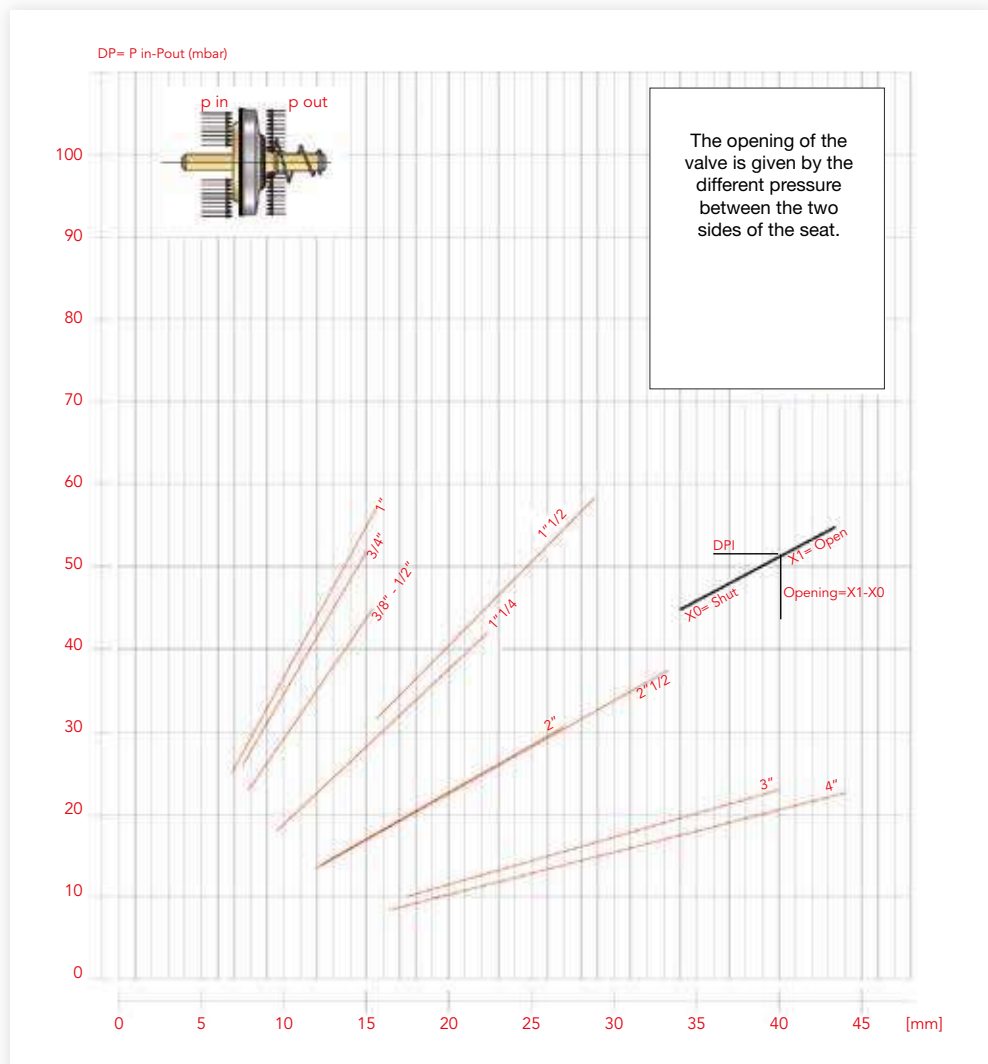


DIAGRAM OF THE MINIMUM PRESSURE NEEDED TO GET THE VALVES OPENING



100



Available also with NPT thread in the sizes from 1/2" to 4".
ACS approved in sizes from 3/8" to 2".

**EUROPA® check valve**

Suitable for domestic water services, heating, air-conditioning plants and compressed air systems. They can be installed in any position: vertical, horizontal, oblique.

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	25bar/362.5psi	1000038	10/130
1/2" (DN 15)	25bar/362.5psi	1000012	10/120
3/4" (DN 20)	25bar/362.5psi	1000034	8/88
1" (DN 25)	25bar/362.5psi	1000100	6/54
1"1/4 (DN 32)	18bar/261psi	1000114	4/36
1"1/2 (DN 40)	18bar/261psi	1000112	2/24
2" (DN 50)	18bar/261psi	1000200	2/18
2"1/2 (DN 65)	12bar/174psi	1000212	1/6
3" (DN 80)	12bar/174psi	1000300	1/4
4" (DN 100)	12bar/174psi	1000400	1/2

Body in brass.
Plate in stainless steel.
Washer in NBR.
Spring: stainless steel.
Minimum and maximum working temperatures: -20°C, 100°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

105



Available also with NPT thread in the sizes 2"1/2, 3" and 4".
ACS approved in sizes from 3/8" to 2".

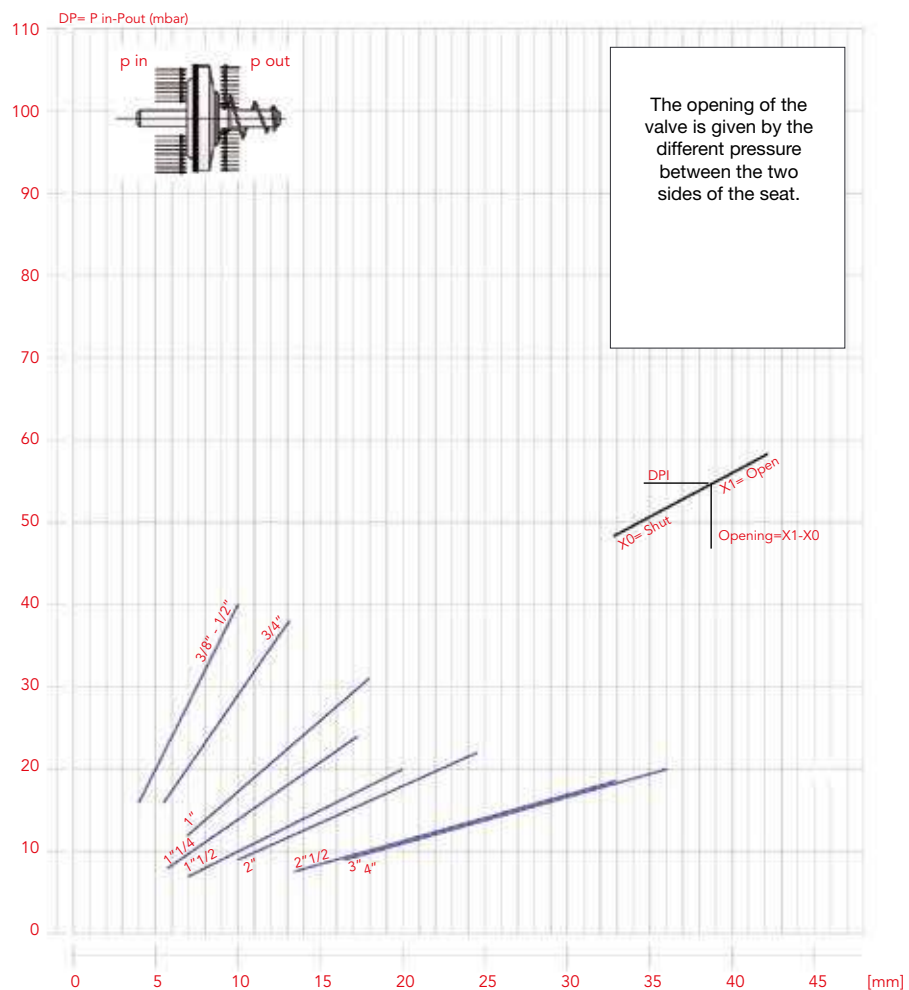
**EUROPA® foot valve**

Suitable for domestic water services, heating, air-conditioning plants and compressed air systems. They can be installed in any position: vertical, horizontal, oblique.

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	25bar/362.5psi	1050038	8/112
1/2" (DN 15)	25bar/362.5psi	1050012	8/112
3/4" (DN 20)	25bar/362.5psi	1050034	6/84
1" (DN 25)	25bar/362.5psi	1050100	4/44
1"1/4 (DN 32)	18bar/261psi	1050114	4/24
1"1/2 (DN 40)	18bar/261psi	1050112	2/14
2" (DN 50)	18bar/261psi	1050200	2/12
2"1/2 (DN 65)	12bar/174psi	1050212	1/6
3" (DN 80)	12bar/174psi	1050300	1/3
4" (DN 100)	12bar/174psi	1050400	1/1

Body in brass.
Plate in stainless steel.
Washer in NBR.
Spring: stainless steel.
Strainer in polymer and stainless steel.
Filtration degree: 3/8" through 2": 1200µm; 2"1/2 through 4": 1700µm.
Minimum and maximum working temperatures: -20°C, 100°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

DIAGRAM OF THE MINIMUM PRESSURE NEEDED TO GET THE VALVES OPENING





1



SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	12bar/174psi	1030038	10/200
1/2" (DN 15)	12bar/174psi	1030012	10/170
3/4" (DN 20)	12bar/174psi	1030034	8/120
1" (DN 25)	12bar/174psi	1030100	8/88
1 1/4" (DN 32)	10bar/145psi	1030114	6/60
1 1/2" (DN 40)	10bar/145psi	1030112	4/28
2" (DN 50)	10bar/145psi	1030200	2/24
2 1/2" (DN 65)	8bar/116psi	1030212	1/16
3" (DN 80)	8bar/116psi	1030300	1/8
4" (DN 100)	8bar/116psi	1030400	1/4

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	12bar/174psi	1080038	8/112
1/2" (DN 15)	12bar/174psi	1080012	10/150
3/4" (DN 20)	12bar/174psi	1080034	8/96
1" (DN 25)	12bar/174psi	1080100	8/64
1 1/4" (DN 32)	10bar/145psi	1080114	6/36
1 1/2" (DN 40)	10bar/145psi	1080112	4/16
2" (DN 50)	10bar/145psi	1080200	2/14
2 1/2" (DN 65)	6bar/87psi	1080212	1/8
3" (DN 80)	6bar/87psi	1080300	1/6
4" (DN 100)	6bar/87psi	1080400	1/3

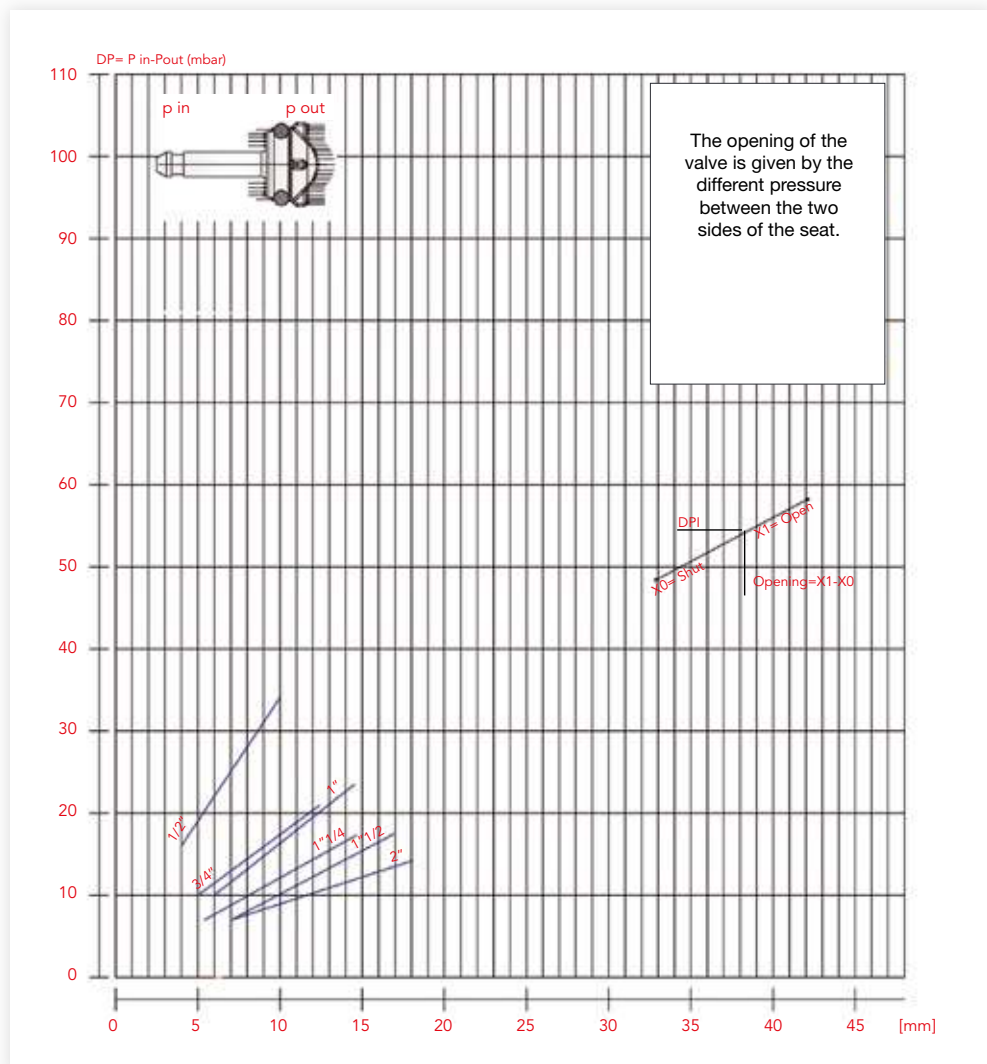
Body in brass.
 Plate in polymer.
 Washer in NBR.
 Spring: stainless steel.
 Strainer in polymer and stainless steel.
 Filtration degree: 3/8" through 2": 1200µm; 2"1/2 through 4": 1700µm.
 Minimum and maximum working temperatures: -20°C, 100°C.
 Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

MATERIALS



- Body: CW617N brass
- Plate: polymer
- O-ring: NBR
- Guide: polymer
- Spring: stainless steel AISI302
- Spring stop: polymer

DIAGRAM OF THE MINIMUM PRESSURE NEEDED TO GET THE VALVES OPENING



101

**BLOCK® check valve**

Suitable for domestic water services, heating, air-conditioning plants and compressed air systems. They can be installed in any position: vertical, horizontal, oblique.

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	12bar/174psi	1010012	14/322
3/4" (DN 20)	12bar/174psi	1010034	12/204
1" (DN 25)	12bar/174psi	1010100	10/140
1"1/4 (DN 32)	10bar/145psi	1010114	8/88
1"1/2 (DN 40)	10bar/145psi	1010112	6/60
2" (DN 50)	10bar/145psi	1010200	4/28

PATENTED
 Body in brass.
 Plate in polymer.
 O-ring in NBR.
 Spring: stainless steel.
 Minimum and maximum working temperatures: -20°C, 100°C.
 Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

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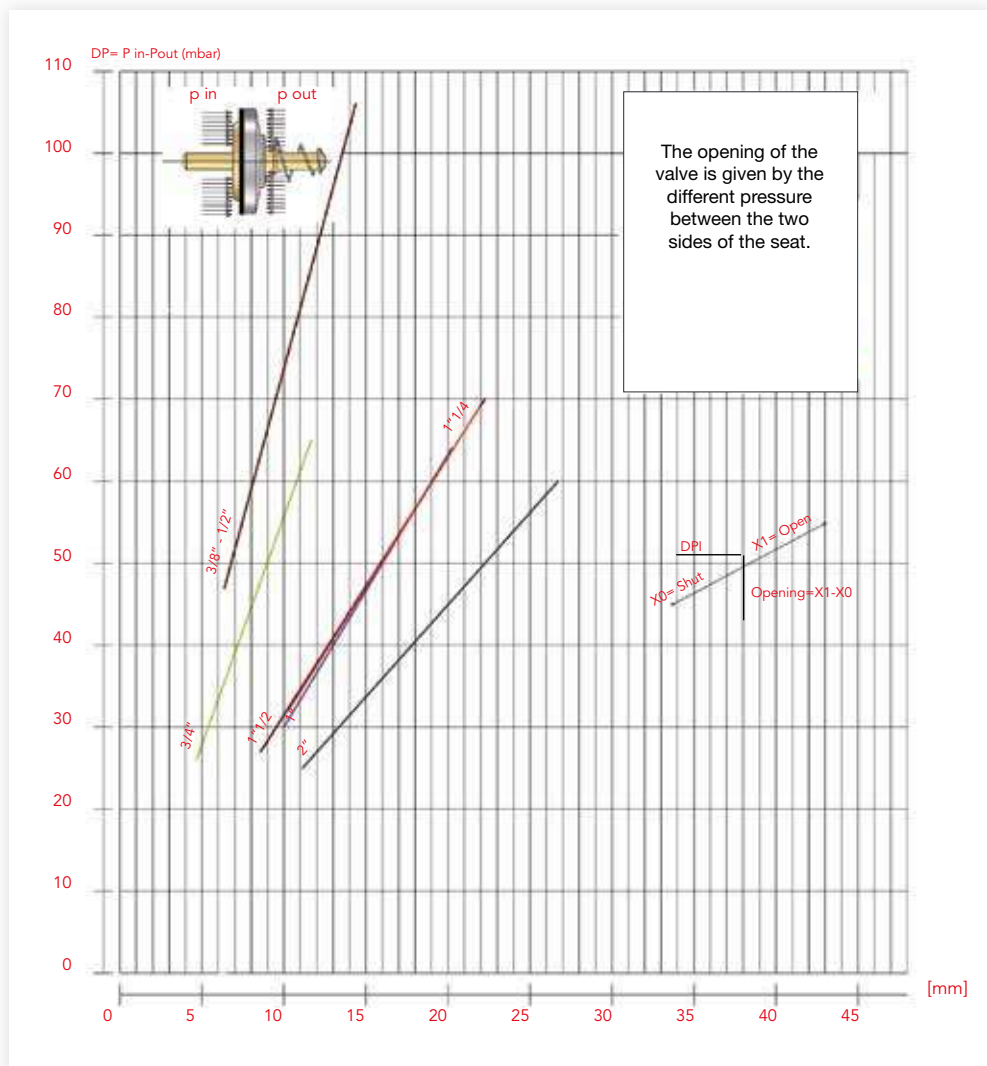
**BLOCK® foot valve**

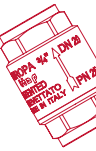
Suitable for domestic water services, heating, air-conditioning plants and compressed air systems. They can be installed in any position: vertical, horizontal, oblique.

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	12bar/174psi	1060012	14/224
3/4" (DN 20)	12bar/174psi	1060034	12/132
1" (DN 25)	12bar/174psi	1060100	10/90
1"1/4 (DN 32)	10bar/145psi	1060114	8/48
1"1/2 (DN 40)	10bar/145psi	1060112	6/30
2" (DN 50)	10bar/145psi	1060200	2/18

PATENTED
 Body in brass.
 Plate in polymer.
 O-ring in NBR.
 Spring: stainless steel.
 Strainer in polymer.
 Minimum and maximum working temperatures: -20°C, 100°C.
 Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

DIAGRAM OF THE MINIMUM PRESSURE NEEDED TO GET THE VALVES OPENING





104

**ROMA® check valve**

Suitable for domestic water services, heating, air-conditioning plants and compressed air systems.
They can be installed in any position: vertical, horizontal, oblique.
Suitable for use with gasoline and fuels in general.

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	25bar/362.5psi	1040038	10/100
1/2" (DN 15)	25bar/362.5psi	1040012	10/100
3/4" (DN 20)	25bar/362.5psi	1040034	8/72
1" (DN 25)	25bar/362.5psi	1040100	6/48
1"1/4 (DN 32)	18bar/261psi	1040114	4/32
1"1/2 (DN 40)	18bar/261psi	1040112	4/24
2" (DN 50)	18bar/261psi	1040200	2/16

Body in brass.
Plate in stainless steel.
Washer in Viton®.
Spring: stainless steel.
Outlet plugs in brass, thread 1/4".
Minimum working temperature: -20°C.
Maximum working temperature: 100°C with water ;150°C with fluid hydrocarbons or compressed air.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

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Available also with NPT thread in the sizes 2"1/2, 3" and 4".

**Strainer for Europa®, York®, Block®, Roma® check valve**

SIZE	CODE	PACKING
3/8" (DN 10)	1020038	30/360
1/2" (DN 15)	1020012	30/360
3/4" (DN 20)	1020034	20/160
1" (DN 25)	1020100	20/100
1"1/4 (DN 32)	1020114	10/60
1"1/2 (DN 40)	1020112	10/50
2" (DN 50)	1020200	4/24
2"1/2 (DN 65)	1020212	1/18
3" (DN 80)	1020300	1/12
4" (DN 100)	1020400	1/6

Filtration degree: 3/8" through 2": 1200µm; 2"1/2 through 4": 1700µm.
Strainer in stainless steel.
Threaded end in polymer.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

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**Strainer for Europa®, York®, Block®, Roma® check valve**

SIZE	CODE	PACKING
3/8" (DN 10)	1070038	50/550
1/2" (DN 15)	1070012	40/480
3/4" (DN 20)	1070034	35/245
1" (DN 25)	1070100	30/150
1"1/4 (DN 32)	1070114	20/100
1"1/2 (DN 40)	1070112	15/45
2" (DN 50)	1070200	8/40

Strainer in polymer.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

End adapter: CW617N brass

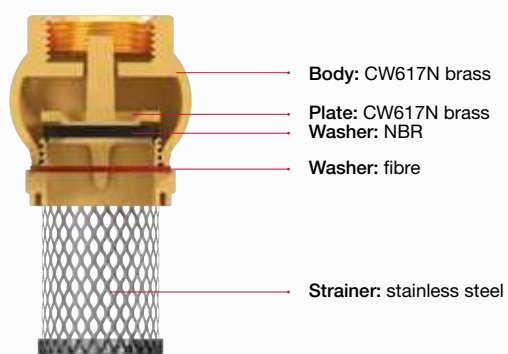


DP= P in-Pout (mbar)

The opening of the valve is given by the different pressure between the two sides of the seat.

Valve Size	Opening (mm) at DP = 0 mbar	Opening (mm) at DP = 1 mbar	Opening (mm) at DP = 2 mbar	Opening (mm) at DP = 3 mbar	Opening (mm) at DP = 4 mbar	Opening (mm) at DP = 5 mbar
4"	0	~15	~25	~35	~45	~55
3"	0	~12	~20	~28	~35	~42
2" 1/2	0	~10	~18	~25	~32	~38
2"	0	~8	~15	~22	~28	~34
1" 3/4	0	~6	~12	~18	~24	~30
1" 1/2	0	~5	~10	~15	~20	~25
3/4" - 1"	0	~4	~8	~12	~16	~20
3/8" - 1/2"	0	~3	~6	~9	~12	~15

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SWING CHECK VALVE

METAL SEAT

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	16bar/232psi	1300038M	16/144
1/2" (DN 15)	16bar/232psi	1300012M	16/144
3/4" (DN 20)	16bar/232psi	1300034M	10/90
1" (DN 25)	12bar/174psi	1300100M	6/54
1 1/4" (DN 32)	10bar/145psi	1300114M	4/32
1 1/2" (DN 40)	10bar/145psi	1300112M	3/24
2" (DN 50)	10bar/145psi	1300200M	2/16
2 1/2" (DN 65)	8bar/116psi	1300212M	1/12
3" (DN 80)	8bar/116psi	1300300M	1/6
4" (DN 100)	8bar/116psi	1300400M	1/3

NBR SEAT

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	16bar/232psi	1300038G	16/144
1/2" (DN 15)	16bar/232psi	1300012G	16/144
3/4" (DN 20)	16bar/232psi	1300034G	10/90
1" (DN 25)	12bar/174psi	1300100G	6/54
1 1/4" (DN 32)	10bar/145psi	1300114G	4/32
1 1/2" (DN 40)	10bar/145psi	1300112G	3/24
2" (DN 50)	10bar/145psi	1300200G	2/16

Available 3/8" through 2" with NBR seat, 3/8" through 4" with metal seat.
Available also with NPT thread in the sizes 2 1/2", 3" and 4".



Body in brass.
O-ring for upper plug in NBR.
O-ring of the side plug in NBR.
Plate in brass.
Minimum and maximum working temperatures: 0°C, 90°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

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Foot valve

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	10bar/145psi	1400012	6/132
3/4" (DN 20)	10bar/145psi	1400034	12/96
1" (DN 25)	10bar/145psi	1400100	4/36
1 1/4" (DN 32)	8bar/116psi	1400114	4/32
1 1/2" (DN 40)	8bar/116psi	1400112	3/27
2" (DN 50)	8bar/116psi	1400200	2/12
2 1/2" (DN 65)	6bar/87psi	1400212	1/12
3" (DN 80)	6bar/87psi	1400300	1/8
4" (DN 100)	6bar/87psi	1400400	1/5

Available also with NPT thread in the sizes 2 1/2", 3" and 4".



Body in brass.
Strainer in stainless steel.
Strainer washer in fibre.
Plate in brass.
Washer in NBR.
Filtration degree: 2400µm.
Minimum and maximum working temperatures: 0°C, 90°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).



BALL VALVES, GATE VALVES,
BIBCOCKS, GAS SAFETY
DEVICES



Green DVGW ecological ball valves	22-23
Ideal DVGW ecological ball valves	24-25
Madrid full flow ball valves	26-27
Paris full flow ball valves	28-29
Ideal full flow ball valves	30-33
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Berlin gas ball valves	53-54
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2



MATERIALS

Screw: zincplated steel Fe CB4

Flat lever handle:
zincplated lined steel Fe P04

T handle: aluminium

O-ring: NBR

End adapter: nickel-plated brass CW617N

Ball: chrome-plated brass CW617N

O-ring: Viton®

Stem: CW614N brass

Seat: P.T.F.E.

Body: nickel-plated brass CW617N

Ball bore chart
unit in mm

	ITAP	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
GREEN DVGW	376	10	10	15	20	25	32	40	50	-	-	-
	377	8	10	15	20	25	32	39	50	-	-	-
	378	10	10	15	20	25	-	-	-	-	-	-
	379	8	10	15	20	25	-	-	-	-	-	-

376



Locking device p. 41



Green DVGW ball valve, full flow

Ecological ball valves in compliance with the new European regulation for drinkable water. Approved in accordance with standard EN 13828 and Code of Practice DVGW W 570 for the distribution of water intended for human consumption. Equipped with a ball designed to avoid the stagnation of water and eventual proliferation of bacteria inside the valve.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	376B014	12/144
3/8" (DN 10)	50bar/725psi	376B038	12/144
1/2" (DN 15)	50bar/725psi	376B012	10/90
3/4" (DN 20)	40bar/580psi	376B034	8/64
1" (DN 25)	40bar/580psi	376B100	6/48
1"1/4 (DN 32)	30bar/435psi	376B114	2/18
1"1/2 (DN 40)	30bar/435psi	376B112	2/10
2" (DN 50)	25bar/362.5psi	376B200	2/10

DRINKABLE WATER. ANTILEGIONNAIRE'S DISEASE.

Female/female threads.

Flat lever handle in lined steel.

Body in nickel-plated brass.

Minimum and maximum working temperatures: -20°C, 150°C in absence of steam.

Female threads: ISO 7/1 Rp parallel (equivalent to DIN EN 10226-1 and BS EN 10226-1).

377



Locking device p. 41



Green DVGW ball valve, full flow

Ecological ball valves in compliance with the new European regulation for drinkable water. Approved in accordance with standard EN 13828 and Code of Practice DVGW W 570 for the distribution of water intended for human consumption. Equipped with a ball designed to avoid the stagnation of water and eventual proliferation of bacteria inside the valve.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	377B014	12/144
3/8" (DN 10)	50bar/725psi	377B038	12/144
1/2" (DN 15)	50bar/725psi	377B012	10/80
3/4" (DN 20)	40bar/580psi	377B034	8/48
1" (DN 25)	40bar/580psi	377B100	6/48
1 1/4" (DN 32)	30bar/435psi	377B114	2/16
1 1/2" (DN 40)	30bar/435psi	377B112	2/10
2" (DN 50)	25bar/362.5psi	377B200	2/6

DRINKABLE WATER. ANTILEGIONNAIRE'S DISEASE.

Male/female threads.
Flat lever handle in lined steel.
Body in nickel-plated brass.
Minimum and maximum working temperatures: -20°C, 150°C in absence of steam.
Female threads: ISO 7/1 Rp parallel (equivalent to DIN EN 10226-1 and BS EN 10226-1).
Male threads ISO 7/1 R taper (equivalent to DIN EN 10226-1 and BS EN 10226-1).

378



Green DVGW ball valve, full flow

Ecological ball valves in compliance with the new European regulation for drinkable water. Approved in accordance with standard EN 13828 and Code of Practice DVGW W 570 for the distribution of water intended for human consumption. Equipped with a ball designed to avoid the stagnation of water and eventual proliferation of bacteria inside the valve.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	378B014	15/180
3/8" (DN 10)	50bar/725psi	378B038	15/180
1/2" (DN 15)	50bar/725psi	378B012	10/120
3/4" (DN 20)	40bar/580psi	378B034	8/80
1" (DN 25)	40bar/580psi	378B100	6/48

DRINKABLE WATER. ANTILEGIONNAIRE'S DISEASE.

Female/female threads.
T handle in aluminium.
Body in nickel-plated brass.
Minimum and maximum working temperatures: -20°C, 150°C in absence of steam.
Female threads: ISO 7/1 Rp parallel (equivalent to DIN EN 10226-1 and BS EN 10226-1).

379



Green DVGW ball valve, full flow

Ecological ball valves in compliance with the new European regulation for drinkable water. Approved in accordance with standard EN 13828 and Code of Practice DVGW W 570 for the distribution of water intended for human consumption. Equipped with a ball designed to avoid the stagnation of water and eventual proliferation of bacteria inside the valve.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	379B014	15/180
3/8" (DN 10)	50bar/725psi	379B038	15/180
1/2" (DN 15)	50bar/725psi	379B012	10/120
3/4" (DN 20)	40bar/580psi	379B034	8/72
1" (DN 25)	40bar/580psi	379B100	6/48

DRINKABLE WATER. ANTILEGIONNAIRE'S DISEASE.

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.
Female threads: ISO 7/1 Rp parallel (equivalent to DIN EN 10226-1 and BS EN 10226-1).
Male threads ISO 7/1 R taper (equivalent to DIN EN 10226-1 and BS EN 10226-1).

MATERIALS

Screw: zincplated steel Fe CB4

Flat lever handle:
zincplated lined steel Fe P04

T handle: aluminium

O-ring: NBR

End adapter: nickel-plated brass CW617N

Ball: chrome-plated brass CW617N

O-ring: Viton®

Stem: CW614N brass

Seat: P.T.F.E.

Body: nickel-plated brass CW617N

Ball bore chart
unit in mm

	ITAP	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
IDEAL DVGW	290P	10	10	15	20	25	32	40	50	-	-	-
	291P	8	10	15	20	25	32	39	50			
	292P	10	10	15	20	25	-	-	-	-	-	-
	293P	8	10	15	20	25	-	-	-	-	-	-

290P



Locking device p. 41



Ideal DVGW ball valve, full flow

Ecological ball valves in compliance with the new European regulation for drinkable water. Approved in accordance with standard EN 13828 and Code of Practice DVGW W 570 for the distribution of water intended for human consumption. Equipped with a ball designed to avoid the stagnation of water and eventual proliferation of bacteria inside the valve.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	2900014P	12/144
3/8" (DN 10)	50bar/725psi	2900038P	12/144
1/2" (DN 15)	50bar/725psi	2900012P	12/108
3/4" (DN 20)	40bar/580psi	2900034P	8/56
1" (DN 25)	40bar/580psi	2900100P	6/42
1"1/4 (DN 32)	30bar/435psi	2900114P	4/24
1"1/2 (DN 40)	30bar/435psi	2900112P	2/12
2" (DN 50)	25bar/362,5psi	2900200P	2/6

DRINKABLE WATER. ANTILEGIONNAIRE'S DISEASE.

Female/female threads.

Flat lever handle in lined steel.

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).

291P



Locking device p. 41



Ideal DVGW ball valve, full flow

Ecological ball valves in compliance with the new European regulation for drinkable water. Approved in accordance with standard EN 13828 and Code of Practice DVGW W 570 for the distribution of water intended for human consumption. Equipped with a ball designed to avoid the stagnation of water and eventual proliferation of bacteria inside the valve.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	2910014P	12/144
3/8" (DN 10)	50bar/725psi	2910038P	12/144
1/2" (DN 15)	50bar/725psi	2910012P	12/84
3/4" (DN 20)	40bar/580psi	2910034P	8/48
1" (DN 25)	40bar/580psi	2910100P	6/36
1 1/4" (DN 32)	30bar/435psi	2910114P	4/24
1 1/2" (DN 40)	30bar/435psi	2910112P	2/12
2" (DN 50)	25bar/362,5psi	2910200P	2/6

DRINKABLE WATER. ANTILEGIONNAIRE'S DISEASE.

Male/female threads.
Flat lever handle in lined steel.
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).

292P



Ideal DVGW ball valve, full flow

Ecological ball valves in compliance with the new European regulation for drinkable water. Approved in accordance with standard EN 13828 and Code of Practice DVGW W 570 for the distribution of water intended for human consumption. Equipped with a ball designed to avoid the stagnation of water and eventual proliferation of bacteria inside the valve.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	2920014P	15/210
3/8" (DN 10)	50bar/725psi	2920038P	15/210
1/2" (DN 15)	50bar/725psi	2920012P	12/144
3/4" (DN 20)	40bar/580psi	2920034P	8/96
1" (DN 25)	40bar/580psi	2920100P	8/56

DRINKABLE WATER. ANTILEGIONNAIRE'S DISEASE.

Female/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).

293P



Ideal DVGW ball valve, full flow

Ecological ball valves in compliance with the new European regulation for drinkable water. Approved in accordance with standard EN 13828 and Code of Practice DVGW W 570 for the distribution of water intended for human consumption. Equipped with a ball designed to avoid the stagnation of water and eventual proliferation of bacteria inside the valve.

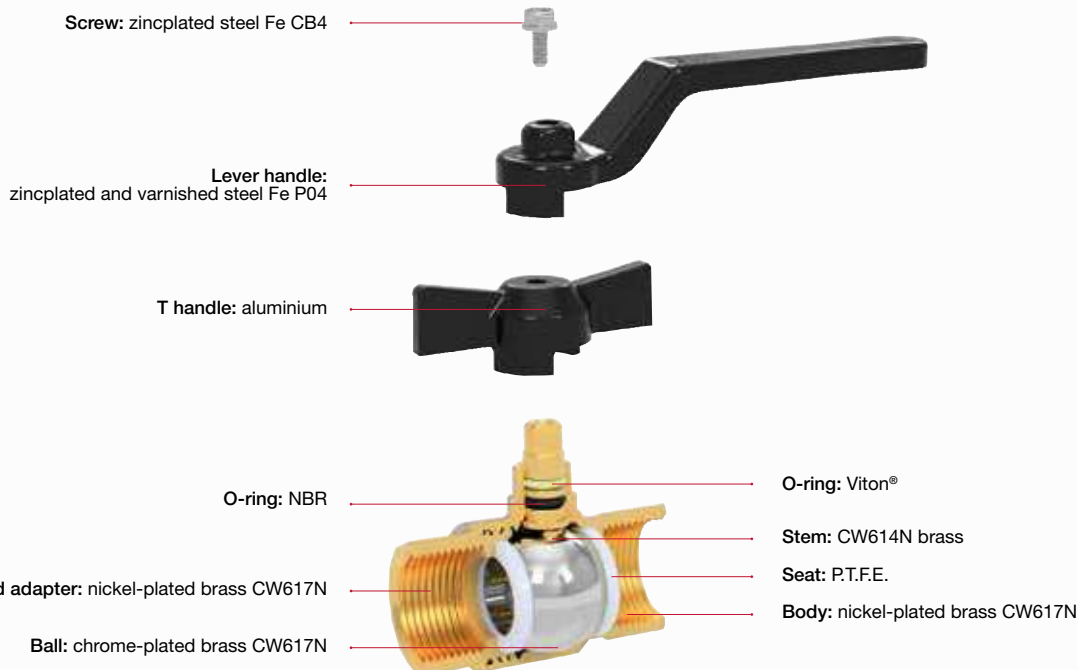
SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	2930014P	15/180
3/8" (DN 10)	50bar/725psi	2930038P	15/180
1/2" (DN 15)	50bar/725psi	2930012P	12/132
3/4" (DN 20)	40bar/580psi	2930034P	8/88
1" (DN 25)	40bar/580psi	2930100P	8/56

DRINKABLE WATER. ANTILEGIONNAIRE'S DISEASE.

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).



MATERIALS



Ball bore chart
unit in mm

	ITAP	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
MADRID	076	10	10	15	20	25	32	40	50	65	80	100
	077	8	10	15	20	25	32	39	50	63	74	97
	078	10	10	15	20	25	-	-	-	-	-	-
	079	8	10	15	20	25	-	-	-	-	-	-

076



Madrid ball valve, full flow

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	076B014	12/144
3/8" (DN 10)	50bar/725psi	076B038	12/144
1/2" (DN 15)	50bar/725psi	076B012	10/90
3/4" (DN 20)	40bar/580psi	076B034	8/64
1" (DN 25)	40bar/580psi	076B100	6/42
1"1/4 (DN 32)	30bar/435psi	076B114	3/24
1"1/2 (DN 40)	30bar/435psi	076B112	2/10
2" (DN 50)	25bar/362.5psi	076B200	2/10
2"1/2 (DN 65)	18bar/261psi	1200212N	1/5
3" (DN 80)	16bar/232psi	1200300N	1/3
4" (DN 100)	14bar/203psi	1200400N	1/2

Female/female threads.

Lever handle in steel (aluminium in the sizes 2"1/2, 3" and 4").

Body in nickel-plated brass.

Minimum and maximum working temperatures: -20°C, 150°C in absence of steam.

Female threads:

- ISO 7/1 Rp parallel (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/4" through 2".

- ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228) sizes 2"1/2, 3" and 4"



077

**Madrid ball valve, full flow**

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	077B014	12/144
3/8" (DN 10)	50bar/725psi	077B038	12/144
1/2" (DN 15)	50bar/725psi	077B012	10/90
3/4" (DN 20)	40bar/580psi	077B034	8/64
1" (DN 25)	40bar/580psi	077B100	6/48
1 1/4" (DN 32)	30bar/435psi	077B114	2/16
1 1/2" (DN 40)	30bar/435psi	077B112	2/10
2" (DN 50)	25bar/362.5psi	077B200	2/6
2 1/2" (DN 65)	18bar/261psi	1210212N	1/5
3" (DN 80)	16bar/232psi	1210300N	1/3
4" (DN 100)	14bar/203psi	1210400N	1/2

Male/female threads.

Lever handle in steel (aluminium in the sizes 2 1/2", 3" and 4").

Body in nickel-plated brass.

Minimum and maximum working temperatures: -20°C, 150°C in absence of steam.

Female threads:

- ISO 7/1 Rp parallel (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/4" through 2".

- ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228) sizes 2 1/2", 3" and 4"

Male threads:

- ISO 7/1 R taper (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/4" through 2".

- ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228) sizes 2 1/2", 3" and 4"

078

**Madrid ball valve, full flow**

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	078B014	15/180
3/8" (DN 10)	50bar/725psi	078B038	15/180
1/2" (DN 15)	50bar/725psi	078B012	10/120
3/4" (DN 20)	40bar/580psi	078B034	8/80
1" (DN 25)	40bar/580psi	078B100	6/48

Female/female threads.

T handle in aluminium.

Body in nickel-plated brass.

Minimum and maximum working temperatures: -20°C, 150°C in absence of steam.

Female threads:

- ISO 7/1 Rp parallel (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/4" through 1".

079

**Madrid ball valve, full flow**

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	079B014	15/180
3/8" (DN 10)	50bar/725psi	079B038	15/180
1/2" (DN 15)	50bar/725psi	079B012	10/120
3/4" (DN 20)	40bar/580psi	079B034	8/72
1" (DN 25)	40bar/580psi	079B100	6/48

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.

Female threads:

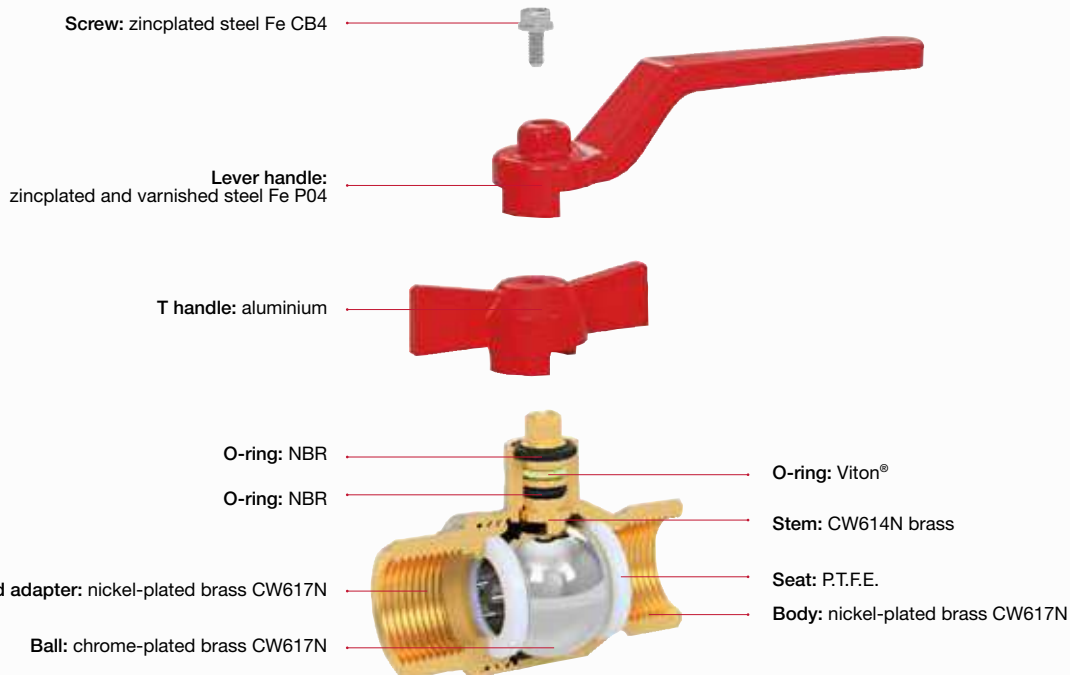
- ISO 7/1 Rp parallel (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/4" through 1".

Male threads:

- ISO 7/1 R taper (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/4" through 1".

PARIS

MATERIALS



Ball bore chart
unit in mm

	ITAP	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
PARIS	080	-	-	15	20	25	32	40	50	65	80	100
	081	-	-	15	20	25	32	38	49	63	74	97
	082	-	-	15	20	25	-	-	-	-	-	-
	083	-	-	15	20	25	-	-	-	-	-	-

080

Paris ball valve, full flow



Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	50bar/725psi	080B012	8/72
3/4" (DN 20)	40bar/580psi	080B034	6/48
1" (DN 25)	40bar/580psi	080B100	4/36
1"1/4 (DN 32)	30bar/435psi	080B114	2/16
1"1/2 (DN 40)	30bar/435psi	080B112	2/10
2" (DN 50)	25bar/362.5psi	080B200	2/6
2"1/2 (DN 65)	18bar/261psi	1200212	1/5
3" (DN 80)	16bar/232psi	1200300	1/3
4" (DN 100)	14bar/203psi	1200400	1/2

Female/female threads.

Lever handle in steel (aluminium in the sizes 2"1/2, 3" and 4").

Body in nickel-plated brass.

Minimum and maximum working temperatures: -20°C, 150°C in absence of steam.

Female threads:

- ISO 7/1 Rp parallel (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/2" through 2".

- ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228) sizes 2"1/2, 3" and 4"



081

**Paris ball valve, full flow**

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	50bar/725psi	081B012	8/72
3/4" (DN 20)	40bar/580psi	081B034	6/48
1" (DN 25)	40bar/580psi	081B100	4/32
1"1/4 (DN 32)	30bar/435psi	081B114	2/16
1"1/2 (DN 40)	30bar/435psi	081B112	2/10
2" (DN 50)	25bar/362.5psi	081B200	2/6
2"1/2 (DN 65)	18bar/261psi	1210212	1/5
3" (DN 80)	16bar/232psi	1210300	1/3
4" (DN 100)	14bar/203psi	1210400	1/2

Male/female threads.

Lever handle in steel (aluminium in the sizes 2"1/2, 3" and 4").

Body in nickel-plated brass.

Minimum and maximum working temperatures: -20°C, 150°C in absence of steam.

Female threads:

- ISO 7/1 Rp parallel (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/2" through 2".

- ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228) sizes 2"1/2, 3" and 4"

Male threads:

- ISO 7/1 R taper (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/2" through 2".

- ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228) sizes 2"1/2, 3" and 4"

082

**Paris ball valve, full flow**

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	50bar/725psi	082B012	8/96
3/4" (DN 20)	40bar/580psi	082B034	6/54
1" (DN 25)	40bar/580psi	082B100	4/36

Female/female threads.

T handle in aluminium.

Body in nickel-plated brass.

Minimum and maximum working temperatures: -20°C, 150°C in absence of steam.

Female threads:

- ISO 7/1 Rp parallel (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/2" through 1".

083

**Paris ball valve, full flow**

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	50bar/725psi	083B012	10/90
3/4" (DN 20)	40bar/580psi	083B034	6/54
1" (DN 25)	40bar/580psi	083B100	4/32

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.

Female threads:

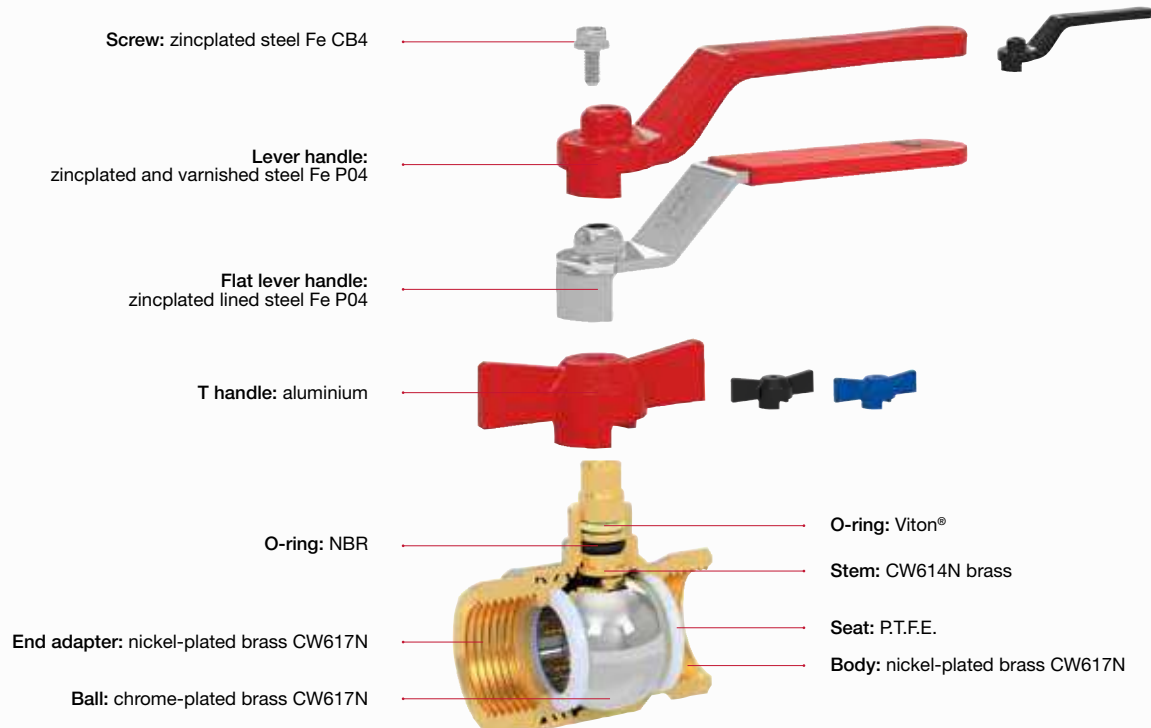
- ISO 7/1 Rp parallel (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/2" through 1".

Male threads:

- ISO 7/1 R taper (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/2" through 1".

IDEAL

MATERIALS



Ball bore chart
unit in mm

	ITAP	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
IDEAL	090	10	10	15	20	25	32	40	50	65	80	100
	091	8	10	15	20	25	32	39	50	-	-	-
	092	10	10	15	20	25	32	-	-	-	-	-
	093	8	10	15	20	25	32	-	-	-	-	-
	098	-	-	15	20	25	32	39	50	-	-	-
	298	-	-	14	18	23	-	-	-	-	-	-

090



Available also with NPT thread in the sizes 1/4" through 2".
KC approved in sizes from 1" to 4".



Ideal ball valve, full flow

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	0900014/N	12/168
3/8" (DN 10)	50bar/725psi	0900038/N	12/168
1/2" (DN 15)	50bar/725psi	0900012/N	12/108
3/4" (DN 20)	40bar/580psi	0900034/N	8/64
1" (DN 25)	40bar/580psi	0900100/N	6/48
1 1/4" (DN 32)	30bar/435psi	0900114/N	4/32
1 1/2" (DN 40)	30bar/435psi	0900112/N	2/16
2" (DN 50)	25bar/362.5psi	0900200/N	2/10
2 1/2" (DN 65)	18bar/261psi	0900212/N	1/7
3" (DN 80)	16bar/232psi	0900300/N	1/4
4" (DN 100)	14bar/203psi	0900400/N	1/2

Female/female threads.

Lever handle in steel (aluminium in the sizes 2 1/2", 3" and 4").

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).

Mention "N" in the code only to order the valve with black handle.

091

**Ideal ball valve, full flow**

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	0910014/N	12/144
3/8" (DN 10)	50bar/725psi	0910038/N	12/144
1/2" (DN 15)	50bar/725psi	0910012/N	12/108
3/4" (DN 20)	40bar/580psi	0910034/N	8/64
1" (DN 25)	40bar/580psi	0910100/N	6/48
1"1/4 (DN 32)	30bar/435psi	0910114/N	3/24
1"1/2 (DN 40)	30bar/435psi	0910112/N	2/16
2" (DN 50)	25bar/362.5psi	0910200/N	2/10

Male/female threads.
Lever handle in steel.
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).
Mention "N" in the code only to order the valve with black handle.

092



Available also with NPT thread in the sizes 1/4" through 1".
KC approved in sizes from 1" to 1"1/4.

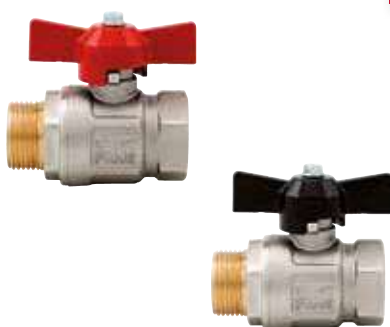
**Ideal ball valve, full flow**

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	0920014/N	15/210
3/8" (DN 10)	50bar/725psi	0920038/N	15/210
1/2" (DN 15)	50bar/725psi	0920012/N	12/144
3/4" (DN 20)	40bar/580psi	0920034/N	8/96
1" (DN 25)	40bar/580psi	0920100/N	6/54
1"1/4 (DN 32)	30bar/435psi	0920114/N	4/32

Female/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).
Mention "N" in the code only to order the valve with black handle.

093

**Ideal ball valve, full flow**

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	0930014/N	15/180
3/8" (DN 10)	50bar/725psi	0930038/N	15/180
1/2" (DN 15)	50bar/725psi	0930012/N	12/132
3/4" (DN 20)	40bar/580psi	0930034/N	8/88
1" (DN 25)	40bar/580psi	0930100/N	6/48
1"1/4 (DN 32)	30bar/435psi	0930114/N	4/32

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).
Mention "N" in the code only to order the valve with black handle.



290



Locking device p. 41



Ideal ball valve, full flow

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	2160014	12/144
3/8" (DN 10)	50bar/725psi	2160038	12/144
1/2" (DN 15)	50bar/725psi	2900012	12/108
3/4" (DN 20)	40bar/580psi	2900034	8/64
1" (DN 25)	40bar/580psi	2900100	6/48
1"1/4 (DN 32)	30bar/435psi	2900114	4/32
1"1/2 (DN 40)	30bar/435psi	2900112	2/16
2" (DN 50)	25bar/362.5psi	2900200	2/10

Female/female threads.
Flat lever handle in lined steel.
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).

098



Ideal ball valve, full flow for manifolds

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	50bar/725psi	0980012/N	8/112
3/4" (DN 20)	40bar/580psi	0980034/N	6/54
1" (DN 25)	40bar/580psi	0980100/N	5/40
1"1/4 (DN 32)	30bar/435psi	0980114/N	3/27
1"1/2 (DN 40)	30bar/435psi	0980112/N	2/12
2" (DN 50)	25bar/362.5psi	0980200/N	2/10

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).
1"1/2 and 2" size with flat seat and lever handle in steel.
Mention "N" in the code only to order the valve with black handle.

098S



Ideal ball valve with o-ring, full flow for manifolds

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	50bar/725psi	0980012S/SB	8/112
3/4" (DN 20)	40bar/580psi	0980034S/SB	6/66
3/4"X1" (DN 20)	40bar/580psi	0980034100S/SB	6/66
1" (DN 25)	40bar/580psi	0980100S/SB	5/45
1"1/4 (DN 32)	30bar/435psi	0980114S/SB	3/27

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).
3/4" and 1" available also with blue handle.
Mention "SB" in the code only to order the valve with blue handle.
Code 0980034100S: 3/4" Fx1" M

098SDC



Ideal ball valve without union, full flow for manifolds

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	50bar/725psi	0980012SDC/B	8/112
3/4" (DN 20)	40bar/580psi	0980034SDC/B	8/96
1" (DN 25)	40bar/580psi	0980100SDC/B	7/63
1"1/4 (DN 32)	30bar/435psi	0980114SDC/B	4/36

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).
Male thread with conical seat.
Available sizes: 1/2" F X 3/4" M, 3/4" F X 1" M, 1" F X 1"1/4 M, 1"1/4 F X 1"1/2 M.
Mention "B" in the code only to order the valve with blue handle.

298

**Ideal angle ball valve, full flow for manifolds**

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	50bar/725psi	2980012	6/72
3/4" (DN 20)	40bar/580psi	2980034	6/48
1" (DN 25)	40bar/580psi	2980100	4/32

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).

298S

**Ideal angle ball valve with o-ring, full flow for manifolds**

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	50bar/725psi	2980012S	6/72
3/4" (DN 20)	40bar/580psi	2980034S/SB	6/48
1" (DN 25)	40bar/580psi	2980100S/SB	4/32

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).
3/4" and 1" available also with blue handle.
Mention "SB" in the code only to order the valve with blue handle.

298SDC

**Ideal angle ball valve without union, full flow for manifolds**

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	50bar/725psi	2980012SDC/B	6/84
3/4" (DN 20)	40bar/580psi	2980034SDC/B	6/54
1" (DN 25)	40bar/580psi	2980100SDC/B	4/36

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).
Male thread with conical seat.
Available sizes: 1/2"F x 3/4"M - 3/4"F x 1"M - 1"F x 1"1/4M
Mention "B" in the code only to order the valve with blue handle.

492BC

**Thermometer union complete with thermometer**

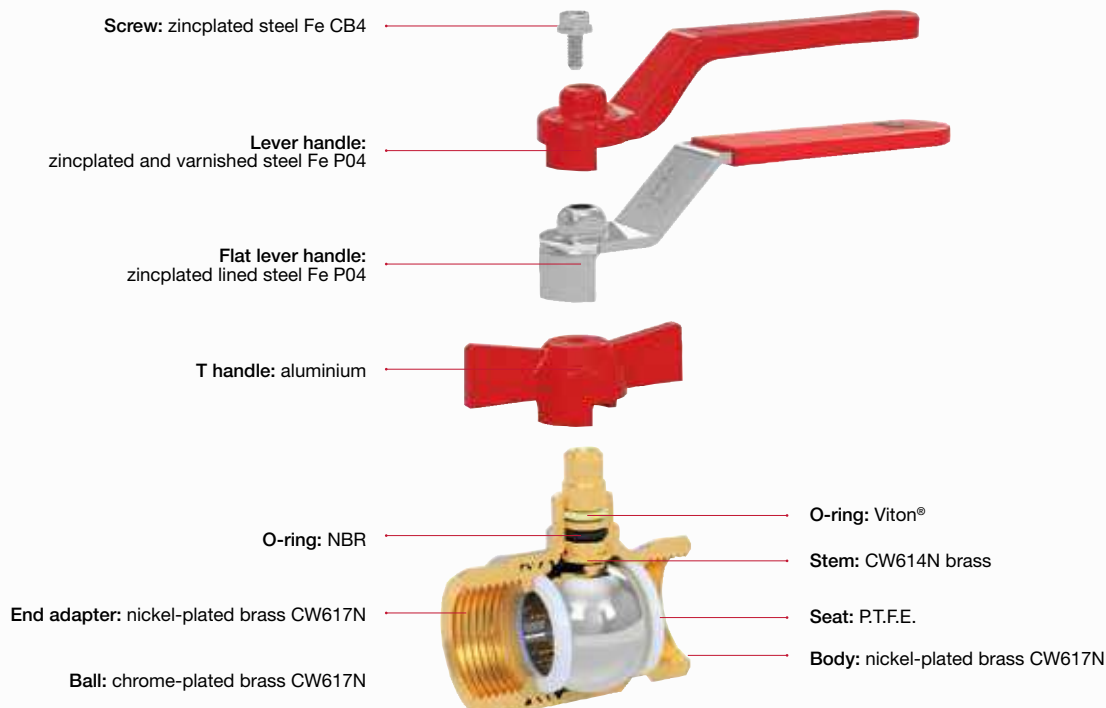
SIZE	PRESSURE	CODE	PACKING
1" (DN 25)	10bar/145psi	4920100BC	4/56
1"1/4 (DN 32)	10bar/145psi	4920114BC	4/48

Suitable for ball valves art. 098SDC and 298SDC.
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).



2

MATERIALS



Ball bore chart
unit in mm

	ITAP	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
VIENNA	116	10	10	14	18,5	23,5	30	37	47	58	70	90
	117	8	10	14	18,5	23,5	30	37	47	-	-	-
	118	10	10	14	18,5	23,5	-	-	-	-	-	-
	119	8	10	14	18,5	23,5	-	-	-	-	-	-
	216	10	10	14	18,5	23,5	30	37	47	-	-	-
	217	8	10	14	18,5	23,5	30	37	47	-	-	-

116



Available also with NPT thread in the sizes 2"1/2, 3" and 4".



Vienna ball valve, standard flow

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	0900014/N	12/168
3/8" (DN 10)	50bar/725psi	0900038/N	12/168
1/2" (DN 15)	30bar/435psi	1160012/N	15/135
3/4" (DN 20)	30bar/435psi	1160034/N	8/72
1" (DN 25)	30bar/435psi	1160100/N	8/48
1"1/4 (DN 32)	25bar/362.5psi	1160114/N	4/32
1"1/2 (DN 40)	25bar/362.5psi	1160112/N	3/18
2" (DN 50)	25bar/362.5psi	1160200/N	2/10
2"1/2 (DN 65)	18bar/261psi	1160212/N	1/9
3" (DN 80)	14bar/203psi	1160300/N	1/5
4" (DN 100)	12bar/174psi	1160400/N	1/3

Female/female threads.

Lever handle in steel (aluminium for sizes 2"1/2 - 3" - 4").

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).

Mention "N" in the code only to order the valve with black handle.

117

**Vienna ball valve, standard flow**

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	0910014/N	12/144
3/8" (DN 10)	50bar/725psi	0910038/N	12/144
1/2" (DN 15)	30bar/435psi	1170012/N	15/120
3/4" (DN 20)	30bar/435psi	1170034/N	8/64
1" (DN 25)	30bar/435psi	1170100/N	6/48
1"1/4 (DN 32)	25bar/362.5psi	1170114/N	4/32
1"1/2 (DN 40)	25bar/362.5psi	1170112/N	2/16
2" (DN 50)	25bar/362.5psi	1170200/N	2/10

Male/female threads.

Lever handle in steel.

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).

Mention "N" in the code only to order the valve with black handle.

118

**Vienna ball valve, standard flow**

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	0920014/N	15/210
3/8" (DN 10)	50bar/725psi	0920038/N	15/210
1/2" (DN 15)	30bar/435psi	1180012/N	15/180
3/4" (DN 20)	30bar/435psi	1180034/N	8/96
1" (DN 25)	30bar/435psi	1180100/N	8/72

Female/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).

Mention "N" in the code only to order the valve with black handle.

119

**Vienna ball valve, standard flow**

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	0930014/N	15/180
3/8" (DN 10)	50bar/725psi	0930038/N	15/180
1/2" (DN 15)	30bar/435psi	1190012/N	15/135
3/4" (DN 20)	30bar/435psi	1190034/N	8/96
1" (DN 25)	30bar/435psi	1190100/N	6/54

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).

Mention "N" in the code only to order the valve with black handle.



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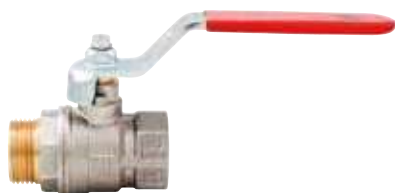
Vienna ball valve, standard flow

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	2160014	12/144
3/8" (DN 10)	50bar/725psi	2160038	12/144
1/2" (DN 15)	30bar/435psi	2160012	15/120
3/4" (DN 20)	30bar/435psi	2160034	8/64
1" (DN 25)	30bar/435psi	2160100	6/48
1"1/4 (DN 32)	25bar/362.5psi	2160114	4/32
1"1/2 (DN 40)	25bar/362.5psi	2160112	2/18
2" (DN 50)	25bar/362.5psi	2160200	2/10

Female/female threads.
Flat lever handle in lined steel.
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).

217



Locking device p. 41



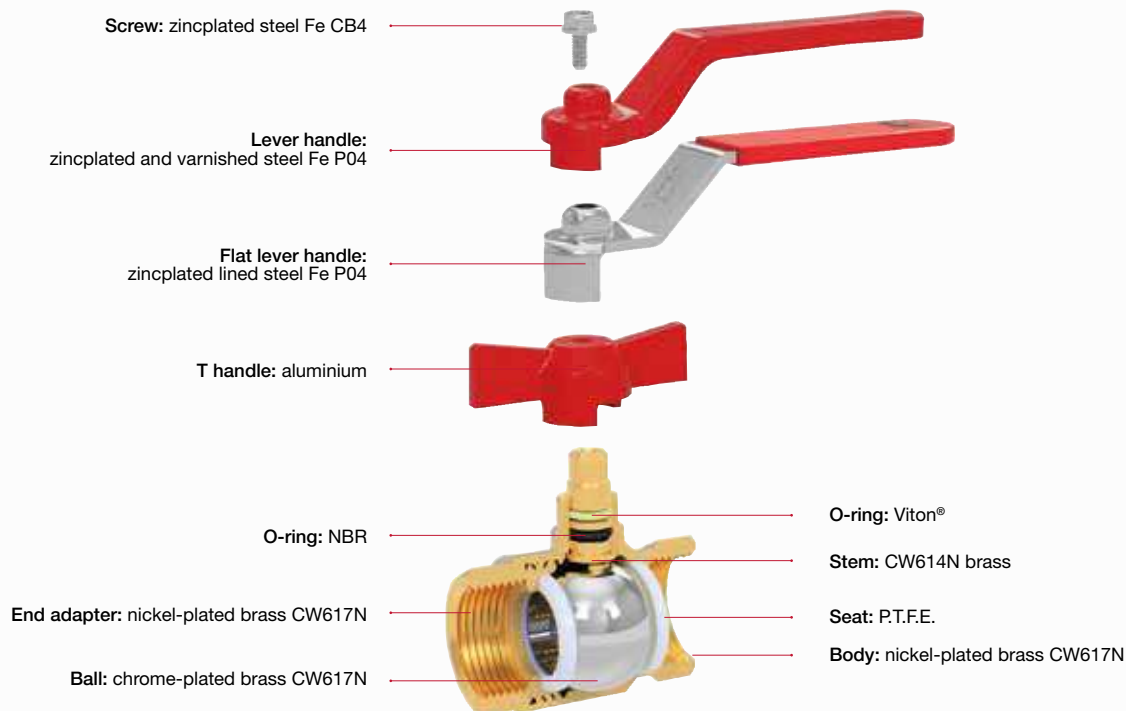
Vienna ball valve, standard flow

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	2170014	12/144
3/8" (DN 10)	50bar/725psi	2170038	12/144
1/2" (DN 15)	30bar/435psi	2170012	15/120
3/4" (DN 20)	30bar/435psi	2170034	8/64
1" (DN 25)	30bar/435psi	2170100	6/48
1"1/4 (DN 32)	25bar/362.5psi	2170114	4/32
1"1/2 (DN 40)	25bar/362.5psi	2170112	2/16
2" (DN 50)	25bar/362.5psi	2170200	2/10

Male/female threads.
Flat lever handle in lined steel.
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).

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Ball bore chart
unit in mm

	ITAP	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
ORIENT	111	10	10	12	15	20	25	32	40
	112	8	10	12	15	20	-	-	-
	113	10	10	12	15	20	-	-	-
	114	8	10	12	15	20	-	-	-
	211	-	-	12	15	20	25	32	40

111



Orient ball valve, reduced flow

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	0900014	12/168
3/8" (DN 10)	50bar/725psi	0900038	12/168
1/2" (DN 15)	50bar/725psi	1110012	12/144
3/4" (DN 20)	40bar/580psi	1110034	10/90
1" (DN 25)	40bar/580psi	1110100	8/64
1"1/4 (DN 32)	30bar/435psi	1110114	4/48
1"1/2 (DN 40)	30bar/435psi	1110112	3/24
2" (DN 50)	25bar/362.5psi	1110200	2/16

Female/female threads.

Lever handle in steel.

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).



112



Orient ball valve, reduced flow

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	0910014	12/144
3/8" (DN 10)	50bar/725psi	0910038	12/144
1/2" (DN 15)	50bar/725psi	1120012	10/120
3/4" (DN 20)	40bar/580psi	1120034	8/72
1" (DN 25)	40bar/580psi	1120100	4/48

Male/female threads.
Lever handle in steel.
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).

113



Orient ball valve, reduced flow

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	0920014	15/210
3/8" (DN 10)	50bar/725psi	0920038	15/210
1/2" (DN 15)	50bar/725psi	1130012	12/144
3/4" (DN 20)	40bar/580psi	1130034	8/112
1" (DN 25)	40bar/580psi	1130100	6/72

Female/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).

114



Orient ball valve, reduced flow

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	50bar/725psi	0930014	15/180
3/8" (DN 10)	50bar/725psi	0930038	15/180
1/2" (DN 15)	50bar/725psi	1140012	12/144
3/4" (DN 20)	40bar/580psi	1140034	8/96
1" (DN 25)	40bar/580psi	1140100	5/60

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).

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Locking device p. 41



Orient ball valve, reduced flow

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	50bar/725psi	2110012	12/108
3/4" (DN 20)	40bar/580psi	2110034	10/90
1" (DN 25)	40bar/580psi	2110100	8/48
1"1/4 (DN 32)	30bar/435psi	2110114	4/44
1"1/2 (DN 40)	30bar/435psi	2110112	3/24
2" (DN 50)	25bar/362.5psi	2110200	2/12

Female/female threads.
Flat lever handle in lined steel.
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).

113DF***Orient ball valve with female swivel, reduced flow***

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
3/4" x 1"	40bar/580psi	1130034100/N/B	6/72
1" x 1"	40bar/580psi	1130100100/N/B	6/72

Female/female threads.

T handle in aluminium.

Nickel-plated brass body and swivel.

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).

Mention "N" in the code only to order the valve with black handle.

Mention "B" in the code only to order the valve with blue handle.

**2**

086



Lever handle for ball valves and bibcocks

SIZE	CODE	PACKING
1	0860001/N/B	20/400
2	0860002/N/B	20/400
3	0860003/N/B	20/300
4	0860004/N/B	10/100
5	0860005/N/B	10/100
6	0860006/N	1/75
7	0860007/N	1/35

Mention "N" in the code only to order the black handle.
Mention "B" in the code only to order the blue handle.

Size of the handle corresponding to each valve.

Art.	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
111/112	1	1	1	2	3	3	4	4	-	-	-
076/077	1	1	2	3	3	4	5	5	-	-	-
090/091	1	1	1	3	3	4	4	5	6	7	7
290P/291P	1	1	1	3	3	4	4	5	-	-	-
116/117	1	1	1	3	3	4	4	5	6	7	7
080/081	-	-	2	3	3	4	5	5	7	7	7
131/132	-	1	1	2	2	-	-	-	-	-	-
166	-	-	1	1	-	-	-	-	-	-	-
174	-	-	1	1	-	-	-	-	-	-	-
178	-	-	1	1	-	-	-	-	-	-	-
115	-	-	1	3	3	4	4	5	-	-	-
098	-	-	1	3	3	4	4	5	-	-	-
298	-	-	1	3	3	-	-	-	-	-	-
376/377	1	1	2	3	3	4	5	5	-	-	-
120/121	-	-	-	-	-	-	-	-	7	7	7



084



Flat lever handle for ball valves and bibcock

SIZE	CODE	PACKING
1	0840001/V	20/400
2	0840002/V	20/400
3	0840003/V	20/300
4	0840004/V	10/100
5	0840005/V	10/100

Mention "V" in the code only to order the green handle.

Size of the handle corresponding to each valve.

Art.	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
111/112/211	1	1	1	2	3	3	4	4
090/091/290	1	1	1	3	3	4	4	5
290P/291P	1	1	1	3	3	4	4	5
116/117	1	1	1	3	3	4	4	5
216/217	1	1	1	3	3	4	4	5
080/081	-	-	2	3	3	4	5	5
131	-	-	1	-	-	-	-	-
133	-	-	1	2	2	-	-	-
167	-	-	1	1	-	-	-	-
174	-	-	1	1	-	-	-	-
178	-	-	1	1	-	-	-	-
076/077	1	1	2	3	3	4	5	5
376/377	1	1	2	3	3	4	5	5
115	-	-	1	3	3	4	4	5
098	-	-	1	3	3	4	4	5
298	-	-	1	3	3	-	-	-



089B**Stainless steel flat lever handle for ball valves**

SIZE	CODE	PACKING
1	0890001B	20/400
2	0890002B	20/400
3	0890003B	20/400
4	0890004B	10/100
5	0890005B	10/100

Flat lever handle in stainless steel AISI 304.

Size of the handle corresponding to each valve.

Art.	1/4"	3/8"	1/2"	3/4"	1"	1"1/4"	1"1/2"	2"
111/112/211	1	1	1	2	3	3	4	4
090/091/290	1	1	1	3	3	4	4	5
290P/291P	1	1	1	3	3	4	4	5
116/117	1	1	1	3	3	4	4	5
216/217	1	1	1	3	3	4	4	5
080/081	-	-	2	3	3	4	5	5
131	-	-	1	-	-	-	-	-
133	-	1	1	2	2	-	-	-
167	-	-	1	1	-	-	-	-
174	-	-	1	1	-	-	-	-
178	-	-	1	1	-	-	-	-
076/077	1	1	2	3	3	4	5	5
376/377	1	1	2	3	3	4	5	5
115	-	-	1	3	3	4	4	5
098	-	-	1	3	3	4	4	5
298	-	-	1	3	3	-	-	-

084LK**Locking device for lockable flat lever handle**

This device has to be used on valves and biblocks with flat lever handle. Handle size corresponding to each valve as per table art. 084, 084G and 089B with grey background.

SIZE	CODE	PACKING
1	084LK01	10/400
2	084LK02	10/400
3	084LK03	10/400

Zincplated K5 zamak.
The device is supplied without padlock.
Suitable padlock with long shackle: 6mm / 1/4.

084PP**Pin for locking device**

CODE	PACKING
084PP03	1/0



084PP - Pin for locking device.
Usable on water or gas valves.

INSTALLATION OF THE LOCKING DEVICE FOR LOCKABLE FLAT LEVER HANDLE

When the valve is not equipped with a flat lever handle, it is possible to replace the standard handle as shown in this catalogue, in order to have a lockable valve.

1. Remove the handle from the valve, when you want to have a lockable valve.



2. Replace the handle with the corresponding flat lever handle, in order to have a lockable valve.



3. Place and lock the locking device either on the open or on the shut-off valve.



087



T handle for ball valves and bibcocks

SIZE	CODE	PACKING
1	0870001/N/V/B	20/500
2	0870002/N/V/B	20/500
3	0870003/N/V/B	20/500
4	0870004/N/B	10/250

Mention "N" in the code only to order the black handle.
Mention "B" in the code only to order the blue handle.
Mention "V" in the code only to order the green handle.

Size of the handle corresponding to each valve.

Art.	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"
113/114	1	1	1	2	2	-	-
092/093	1	1	1	3	3	4	-
292P/293P	1	1	1	3	3	4	-
118/119	1	1	1	2	3	-	-
082/083	-	-	2	3	3	-	-
131	-	-	1	-	-	-	-
134	-	1	1	2	3	-	-
168	-	-	1	1	-	-	-
176	-	-	1	1	-	-	-
180	-	-	1	1	-	-	-
078/079	1	1	2	3	3	-	-
378/379	1	1	2	3	3	-	-
098	-	-	1	3	3	4	-
298	-	-	1	3	3	-	-
115	-	-	1	2	3	4	4

088



Extended handle for lined piping

SIZE	CODE	PACKING
1	0880001	10/120
2	0880002	10/120
3	0880003	10/120
4	0880004	10/80
5	0880005	10/50
6	0880006	1/30
7	0880007	1/18

The extended handle in aluminium can be used with the valves indicated in the chart.

Size of the handle corresponding to each valve.

Art.	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
111/112	1	1	1	2	3	3	4	4	6	7	7
090/091	1	1	1	3	3	4	4	5	6	7	7
116/117	1	1	1	3	3	4	4	5	-	-	-
080/081	-	-	2	3	3	4	5	5	-	-	-
076/077	1	1	2	3	3	4	5	5	-	-	-
115	-	-	1	3	3	4	4	5	-	-	-
131/132	-	1	1	2	2	-	-	-	-	-	-
166	-	-	1	1	-	-	-	-	-	-	-
174	-	-	1	1	-	-	-	-	-	-	-
178	-	-	1	1	-	-	-	-	-	-	-
098	-	-	1	3	3	4	4	5	-	-	-
298	-	-	1	3	3	-	-	-	-	-	-
120/121	-	-	-	-	-	-	-	-	7	7	7

125



MINI ball valves

SIZE	PRESSURE	CODE	PACKING
1/8" (DN 6)	10bar/145psi	1250018/N	20/240
1/4" (DN 8)	10bar/145psi	1250014/N	20/240
3/8" (DN 10)	10bar/145psi	1250038/N	20/280
1/2" (DN 15)	10bar/145psi	1250012/N	20/200
3/4" (DN 20)	10bar/145psi	1250034/N	15/135

Female/female threads.

Body in chrome-plated brass.

Lever handle in polymer.

Minimum and maximum temperature: 0°C; 70°C (maximum operating temperature);

90°C (maximum peak temperature).

Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

Mention "N" in the code only to order the black handle.

126

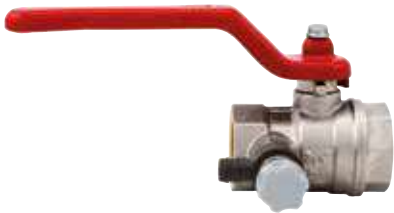


MINI ball valves

SIZE	PRESSURE	CODE	PACKING
1/8" (DN 6)	10bar/145psi	1260018/N	20/280
1/4" (DN 8)	10bar/145psi	1260014/N	20/280
3/8" (DN 10)	10bar/145psi	1260038/N	20/280
1/2" (DN 15)	10bar/145psi	1260012/N	20/220
3/4" (DN 20)	10bar/145psi	1260034/N	15/135

Male/female threads.
Body in chrome-plated brass.
Lever handle in polymer.
Minimum and maximum temperature: 0°C; 70°C (maximum operating temperature);
90°C (maximum peak temperature).
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Mention "N" in the code only to order the black handle.

115



Standard flow ball valve with revolving drain cock

Suitable for domestic water services, heating, air-conditioning plants and compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	25bar/362.5psi	1150012	14/84
3/4" (DN 20)	25bar/362.5psi	1150034	8/64
1" (DN 25)	25bar/362.5psi	1150100	4/36
1"1/4 (DN 32)	20bar/290psi	1150114	4/32
1"1/2 (DN 40)	20bar/290psi	1150112	2/18
2" (DN 50)	20bar/290psi	1150200	2/10

Female/female threads.
Lever handle in steel.
Body in nickel-plated brass.
Minimum and maximum working temperatures: -20°C, 110°C in absence of steam.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

099



Available with T handle in aluminium in the sizes
1/2" through 1".
Mention "F" in the code to order the T handle.



Full flow ball valve, male/male thread

Suitable for domestic water services, heating and air-conditioning plants.

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	40bar/580psi	0990012	10/90
3/4" (DN 20)	40bar/580psi	0990034	10/80
1" (DN 25)	40bar/580psi	0990100	6/48
1"1/4 (DN 32)	30bar/435psi	0990114	4/32
1"1/2 (DN 40)	30bar/435psi	0990112	2/16
2" (DN 50)	30bar/435psi	0990200	2/10

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	40bar/580psi	0990012F	15/135
3/4" (DN 20)	40bar/580psi	0990034F	10/90
1" (DN 25)	40bar/580psi	0990100F	5/45

Male/male threads.
Lever handle in aluminium or T handle in aluminium.
Body in nickel-plated brass.
Minimum and maximum working temperatures: -10°C, 95°C in absence of steam.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

128



Available with T or L ball. (Please, specify in the order).



3-way ball valve

Suitable for domestic water services, heating, air-conditioning plants and compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	55bar/797.5psi	1280014L/T	4/24
3/8" (DN 10)	55bar/797.5psi	1280038L/T	4/24
1/2" (DN 15)	50bar/725psi	1280012L/T	4/24
3/4" (DN 20)	50bar/725psi	1280034L/T	2/12
1" (DN 25)	45bar/652.5psi	1280100L/T	2/12
1"1/4 (DN 32)	35bar/507.5psi	1280114L/T	2/12
1"1/2 (DN 40)	35bar/507.5psi	1280112L/T	2/4
2" (DN 50)	35bar/507.5psi	1280200L/T	2/2

Female/female/female threads.

Lever handle in aluminium.

Body in nickel-plated brass.

Minimum and maximum working temperatures: -10°C, 120°C in absence of steam.

Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

156



Available also with NPT thread in the sizes 2"1/2, 3" and 4".



Brass gate valve PN16

Suitable for domestic water services, heating, air-conditioning plants and compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	16bar/232psi	1560012	12/96
3/4" (DN 20)	16bar/232psi	1560034	8/64
1" (DN 25)	16bar/232psi	1560100	5/40
1"1/4 (DN 32)	16bar/232psi	1560114	4/24
1"1/2 (DN 40)	16bar/232psi	1560112	2/16
2" (DN 50)	16bar/232psi	1560200	2/12
2"1/2 (DN 65)	16bar/232psi	1560212	1/8
3" (DN 80)	16bar/232psi	1560300	1/8
4" (DN 100)	16bar/232psi	1560400	1/4

Female/female threads.

Handwheel in aluminium.

Body in brass.

Minimum and maximum working temperatures: 0°C, 150°C in absence of steam.

Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

VOLA



Handwheel for gate valve art. 156

SIZE	CODE	PACKING	GATE VALVE
050	VOLA050	1/150	1/2"
060	VOLA060	1/150	3/4"
060	VOLA060	1/150	1"
070	VOLA070	1/150	1"1/4
070	VOLA070	1/150	1"1/2
080	VOLA080	1/150	2"
100	VOLA100	1/100	2"1/2
100	VOLA100	1/100	3"
120	VOLA120	1/100	4"

Handwheel made of epoxy painted aluminium.

131

**SPIN hose bibcock with mobile connection**

Patented - Heavy model.
High resistance against freeze.

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	15bar/217.5psi	1310012	10/50



360° turn. It avoids the garden hose flattening.



High resistance against freeze

Body in nickel-plated brass.
Hose connection in nylon.
Lever handle in aluminium.
Minimum and maximum working temperatures: -20°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

132

**Ball hose bibcock**

Available sizes: 3/8"x3/4", 1/2"x3/4", 3/4"x1", 1"x1"1/4

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	15bar/217.5psi	1320038/N	10/60
1/2" (DN 15)	15bar/217.5psi	1320012/N	10/60
3/4" (DN 20)	15bar/217.5psi	1320034/N	6/48
1" (DN 25)	12bar/174psi	1320100/N	4/24

Body in nickel-plated brass.
Hose connection in metal.
Lever handle in steel.
Minimum and maximum working temperatures: -20°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Mention "N" in the code only to order the bibcock with black handle.

133



Locking device p. 41

**Ball hose bibcock**

Available sizes: 1/2"x3/4", 3/4"x1", 1"x1"1/4

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	15bar/217.5psi	1330012	10/60
3/4" (DN 20)	15bar/217.5psi	1330034	6/48
1" (DN 25)	12bar/174psi	1330100	4/24

Body in nickel-plated brass.
Hose connection in metal.
Flat lever handle in lined steel.
Minimum and maximum working temperatures: -20°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

134

**Ball hose bibcock**

Available sizes: 3/8"x3/4", 1/2"x3/4", 3/4"x1", 1"x1"1/4

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	15bar/217.5psi	1340038	10/80
1/2" (DN 15)	15bar/217.5psi	1340012	10/80
3/4" (DN 20)	15bar/217.5psi	1340034	6/48
1" (DN 25)	12bar/174psi	1340100	4/24

Body in nickel-plated brass.
Hose connection in metal.
T handle in aluminium.
Minimum and maximum working temperatures: -20°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).



2

166



GAR ball hose bibcock

Available sizes: 1/2"x3/4", 3/4"x1"

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	15bar/217.5psi	1660012/N	15/75
3/4" (DN 20)	15bar/217.5psi	1660034/N	10/50

Body in nickel-plated brass.
Hose connection in metal.
Lever handle in steel.
Minimum and maximum working temperatures: -20°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Mention "N" in the code only to order the bibcock with black handle.

167



Locking device p. 41



GAR ball hose bibcock

Available sizes: 1/2"x3/4", 3/4"x1"

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	15bar/217.5psi	1670012	10/60
3/4" (DN 20)	15bar/217.5psi	1670034	10/50

Body in nickel-plated brass.
Hose connection in metal.
Flat lever handle in lined steel.
Minimum and maximum working temperatures: -20°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

168



GAR ball hose bibcock

Available sizes: 1/2"x3/4", 3/4"x1"

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	15bar/217.5psi	1680012	15/75
3/4" (DN 20)	15bar/217.5psi	1680034	10/50

Body in nickel-plated brass.
Hose connection in metal.
T handle in aluminium.
Minimum and maximum working temperatures: -20°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

174



GAR ball hose bibcock

Available sizes: 1/2"x3/4", 3/4"x1"

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	15bar/217.5psi	1740012	15/75
3/4" (DN 20)	15bar/217.5psi	1740034	10/50

Body in nickel-plated brass.
Hose connection in nylon.
Lever handle in steel.
Minimum and maximum working temperatures: -20°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

176

**GAR ball hose bibcock**

Available sizes: 1/2"x3/4", 3/4"x1"

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	15bar/217.5psi	1760012	15/75
3/4" (DN 20)	15bar/217.5psi	1760034	10/50

Body in nickel-plated brass.
Hose connection in nylon.
T handle in aluminium.
Minimum and maximum working temperatures: -20°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

178



Available also with NPT thread in the size 1/2".

**GAR ball hose bibcock**

Available sizes: 1/2"x3/4", 3/4"x3/4"

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	15bar/217.5psi	1780012	14/84
3/4" (DN 20)	15bar/217.5psi	1780034	12/72

Body in nickel-plated brass.
Lever handle in steel.
Minimum and maximum working temperatures: -20°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

180



Available also with NPT thread in the size 1/2".

**GAR ball hose bibcock**

Available sizes: 1/2"x3/4"

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	15bar/217.5psi	1800012	15/120

Body in nickel-plated brass.
T handle in aluminium.
Minimum and maximum working temperatures: -20°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

144

**Ball hose bibcock with lockpad eye**

Available sizes: 1/2"x3/4", 3/4"x3/4"

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	15bar/217.5psi	1440012	8/48
3/4" (DN 20)	15bar/217.5psi	1440034	8/48

Body in nickel-plated brass.
Hose connection in brass.
Lever handle in steel.
Minimum and maximum working temperatures: 0°C, 80°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).



2

191



Garden hose bibcock with brass connection

Available sizes: 1/2"x3/4", 3/4"x1", 1"x1"1/4

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	15bar/217.5psi	1910012	12/60
3/4" (DN 20)	15bar/217.5psi	1910034	10/50
1" (DN 25)	12bar/174psi	1910100	5/25

Body in brass.
Hose connection in brass.
T handle in aluminium.
Minimum and maximum working temperatures: 0°C, 80°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

139

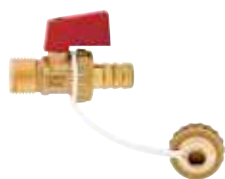


Drain ball valve with brass hose connection

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	12bar/174psi	1390038	20/180
1/2" (DN 15)	12bar/174psi	1390012	20/180
3/4" (DN 20)	12bar/174psi	1390034	10/90

Body in brass.
Hose connection in brass.
Minimum and maximum working temperatures:
-15°C, 110°C with air; 0°C, 90°C with water.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

139R



Drain ball valve with brass hose connection and nylon handle

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	10bar/145psi	1390038R	20/140
1/2" (DN 15)	10bar/145psi	1390012R	20/160
3/4" (DN 20)	10bar/145psi	1390034R	15/105

Body in brass.
Hose connection in brass.
Minimum and maximum working temperatures: -10°C, 90°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

280



Hose connection in metal

SIZE	CODE	PACKING
3/4" (DN 20)	2800034	90/720
1" (DN 25)	2800100	50/400
1"1/4 (DN 32)	2800114	20/160

Hose connection in metal.
Min. and max. working temperatures: -20°C, 80°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

282



Nylon hose connection

SIZE	CODE	PACKING
3/4" (DN 20)	2820034	100/500
1" (DN 25)	2820100	50/250

Hose connection in nylon.
Min. and max. working temperatures: -20°C, 80°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

2820



Mobile hose connection in nylon

SIZE	CODE	PACKING
3/4" (DN 20)	28200340	50/400

Minimum and maximum working temperatures: -20°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

350L

**Supply bibcock**

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	8bar/116psi	3500012L	10/60

Body in polished brass.
T handle in brass.
Minimum and maximum working temperatures: 0°C, 80°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

355L

**Hose bibcock**

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	8bar/116psi	3550012L	10/60
3/4" (DN 20)	8bar/116psi	3550034L	5/30

Body in polished brass.
Hose connection in brass.
T handle in brass.
Minimum and maximum working temperatures: 0°C, 80°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

355S

**Hose bibcock**

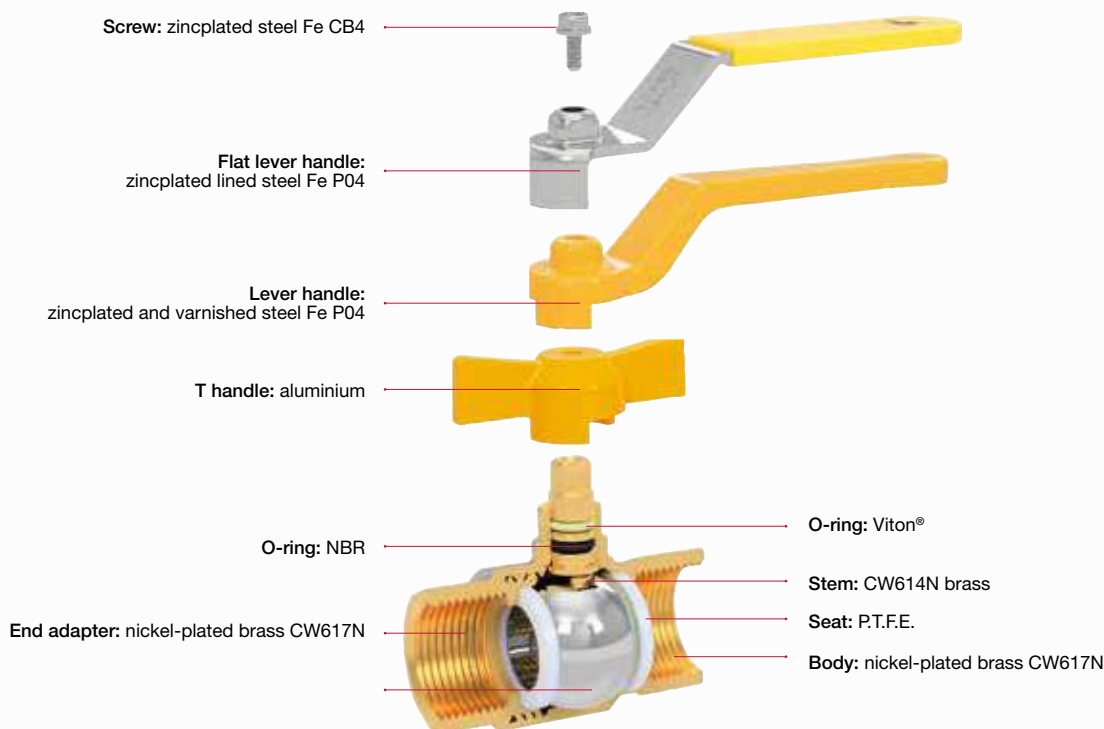
SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	8bar/116psi	3550012S	10/60
3/4" (DN 20)	8bar/116psi	3550034S	5/30

Body in sandblasted/chromed brass.
Hose connection in chromed brass.
T handle in chromed brass.
Minimum and maximum working temperatures: 0°C, 80°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).



LONDON

MATERIALS



Ball bore chart
unit in mm

	ITAP	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
LONDON	066	10	10	15	20	25	32	40	50	65	80	100
	067	8	10	15	20	25	32	39	50	63	74	97
	068	10	10	15	20	25	-	-	-	-	-	-
	069	8	10	15	20	25	-	-	-	-	-	-
	266	10	10	15	20	25	32	40	50	-	-	-
	267	8	10	15	20	25	32	39	50	-	-	-

066

London ball valve, full flow



SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	5bar/72.5psi	066B014	12/144
3/8" (DN 10)	5bar/72.5psi	066B038	12/144
1/2" (DN 15)	5bar/72.5psi	066B012	10/90
3/4" (DN 20)	5bar/72.5psi	066B034	8/64
1" (DN 25)	5bar/72.5psi	066B100	6/48
1"1/4 (DN 32)	5bar/72.5psi	066B114	3/24
1"1/2 (DN 40)	5bar/72.5psi	066B112	2/10
2" (DN 50)	5bar/72.5psi	066B200	2/10
2"1/2 (DN 65)	18bar/261psi	1200212G	1/5
3" (DN 80)	16bar/232psi	1200300G	1/3
4" (DN 100)	14bar/203psi	1200400G	1/2

EN331 APPROVED (up to 2").

Female/female threads.

Body in nickel-plated brass.

Lever handle in steel (aluminium in the sizes 2"1/2, 3" and 4").

Minimum and maximum working temperatures: -20°C, 60°C.

Female threads:

- ISO 7/1 Rp parallel (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/4" through 2".
- ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228) sizes 2"1/2, 3" and 4".



067

**London ball valve, full flow**

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	5bar/72.5psi	067B014	12/144
3/8" (DN 10)	5bar/72.5psi	067B038	12/144
1/2" (DN 15)	5bar/72.5psi	067B012	10/90
3/4" (DN 20)	5bar/72.5psi	067B034	8/64
1" (DN 25)	5bar/72.5psi	067B100	6/48
1 1/4" (DN 32)	5bar/72.5psi	067B114	2/16
1 1/2" (DN 40)	5bar/72.5psi	067B112	2/10
2" (DN 50)	5bar/72.5psi	067B200	2/6
2 1/2" (DN 65)	18bar/261psi	1210212G	1/5
3" (DN 80)	16bar/232psi	1210300G	1/3
4" (DN 100)	14bar/203psi	1210400G	1/2

EN331 APPROVED (up to 2").

Male/female threads.

Body in nickel-plated brass.

Lever handle in steel (aluminium in the sizes 2 1/2", 3" and 4").

Minimum and maximum working temperatures: -20°C, 60°C.

Female threads:

- ISO 7/1 Rp parallel (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/4" through 2".

- ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228) sizes 2 1/2", 3" and 4".

Male threads:

- ISO 7/1 R taper (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/4" through 2".

- ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228) sizes 2 1/2", 3" and 4".

068

**London ball valve, full flow**

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	5bar/72.5psi	068B014	15/180
3/8" (DN 10)	5bar/72.5psi	068B038	15/180
1/2" (DN 15)	5bar/72.5psi	068B012	10/120
3/4" (DN 20)	5bar/72.5psi	068B034	8/80
1" (DN 25)	5bar/72.5psi	068B100	6/42

EN331 APPROVED (up to 2").

Female/female threads.

Body in nickel-plated brass.

T handle in aluminium.

Minimum and maximum working temperatures: -20°C, 60°C.

Female threads:

- ISO 7/1 Rp parallel (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/4" through 1".

069

**London ball valve, full flow**

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	5bar/72.5psi	069B014	15/180
3/8" (DN 10)	5bar/72.5psi	069B038	15/180
1/2" (DN 15)	5bar/72.5psi	069B012	10/120
3/4" (DN 20)	5bar/72.5psi	069B034	8/72
1" (DN 25)	5bar/72.5psi	069B100	6/48

EN331 APPROVED (up to 2").

Male/female threads.

Body in nickel-plated brass.

T handle in aluminium.

Minimum and maximum working temperatures: -20°C, 60°C.

Female threads:

- ISO 7/1 Rp parallel (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/4" through 1".

Male threads:

- ISO 7/1 R taper (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/4" through 1".



2

266



Locking device p. 41



London ball valve, full flow

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	5bar/72.5psi	266B014	12/144
3/8" (DN 10)	5bar/72.5psi	266B038	12/144
1/2" (DN 15)	5bar/72.5psi	266B012	10/90
3/4" (DN 20)	5bar/72.5psi	266B034	8/64
1" (DN 25)	5bar/72.5psi	266B100	6/48
1"1/4 (DN 32)	5bar/72.5psi	266B114	2/18
1"1/2 (DN 40)	5bar/72.5psi	266B112	2/10
2" (DN 50)	5bar/72.5psi	266B200	2/6

EN331 APPROVED (up to 2").

Female/female threads.

Body in nickel-plated brass.

Flat lever handle in lined steel.

Minimum and maximum working temperatures: -20°C, 60°C.

Female threads:

- ISO 7/1 Rp parallel (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/4" through 2".

267



Locking device p. 41



London ball valve, full flow

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	5bar/72.5psi	267B014	12/144
3/8" (DN 10)	5bar/72.5psi	267B038	12/144
1/2" (DN 15)	5bar/72.5psi	267B012	10/80
3/4" (DN 20)	5bar/72.5psi	267B034	8/48
1" (DN 25)	5bar/72.5psi	267B100	6/48
1"1/4 (DN 32)	5bar/72.5psi	267B114	2/16
1"1/2 (DN 40)	5bar/72.5psi	267B112	2/10
2" (DN 50)	5bar/72.5psi	267B200	2/6

EN331 APPROVED (up to 2").

Male/female threads.

Body in nickel-plated brass.

Flat lever handle in lined steel.

Minimum and maximum working temperatures: -20°C, 60°C.

Female threads:

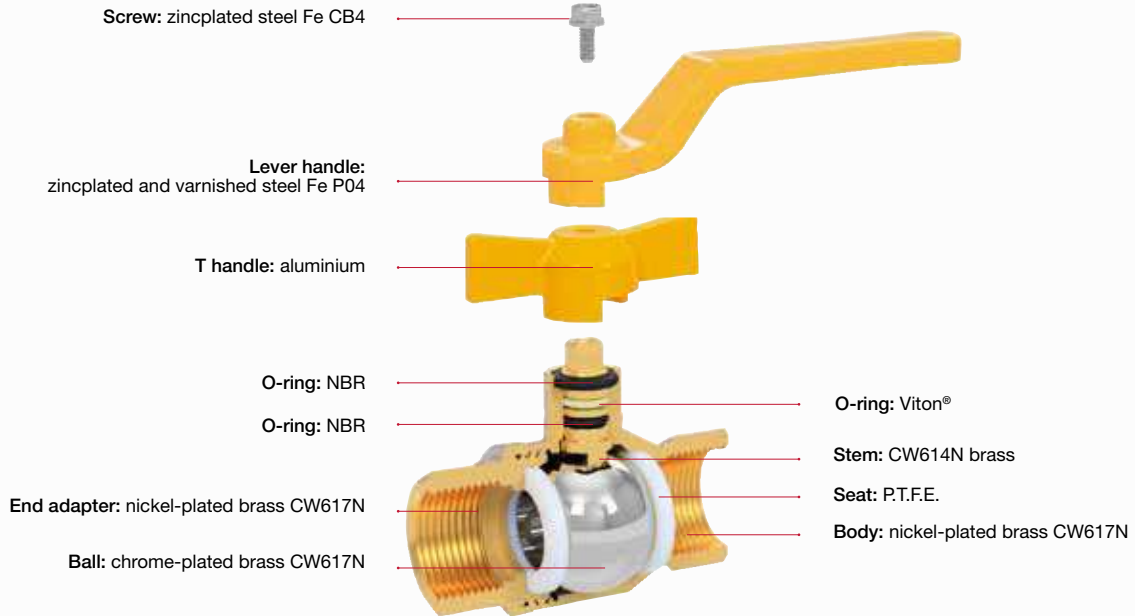
- ISO 7/1 Rp parallel (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/4" through 2".

Male threads:

- ISO 7/1 R taper (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/4" through 2".

BERLIN

MATERIALS



Ball bore chart
unit in mm

	ITAP	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
BERLIN	070	-	-	15	20	25	32	40	50	65	80	100
	071	-	-	15	20	25	32	38	49	63	74	97
	072	-	-	15	20	25	-	-	-	-	-	-
	073	-	-	15	20	25	-	-	-	-	-	-

070

Berlin ball valve, full flow



SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	5bar/72.5psi	070B012	8/72
3/4" (DN 20)	5bar/72.5psi	070B034	6/48
1" (DN 25)	5bar/72.5psi	070B100	4/36
1"1/4 (DN 32)	5bar/72.5psi	070B114	2/16
1"1/2 (DN 40)	5bar/72.5psi	070B112	2/10
2" (DN 50)	5bar/72.5psi	070B200	2/6
2"1/2 (DN 65)	18bar/261psi	1200212G	1/5
3" (DN 80)	16bar/232psi	1200300G	1/3
4" (DN 100)	14bar/203psi	1200400G	1/2

EN331 APPROVED (up to 2").

Female/female threads.

Body in nickel-plated brass.

Lever handle in steel (aluminium in the sizes 2"1/2, 3" and 4").

Minimum and maximum working temperatures: -20°C, 60°C.

Female threads:

- ISO 7/1 Rp parallel (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/2" through 2".

- ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228) sizes 2"1/2, 3" and 4".



071



Berlin ball valve, full flow

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	5bar/72.5psi	071B012	8/72
3/4" (DN 20)	5bar/72.5psi	071B034	6/48
1" (DN 25)	5bar/72.5psi	071B100	4/32
1 1/4" (DN 32)	5bar/72.5psi	071B114	2/16
1 1/2" (DN 40)	5bar/72.5psi	071B112	2/10
2" (DN 50)	5bar/72.5psi	071B200	2/6
2 1/2" (DN 65)	18bar/261psi	1210212G	1/5
3" (DN 80)	16bar/232psi	1210300G	1/3
4" (DN 100)	14bar/203psi	1210400G	1/2

EN331 APPROVED (up to 2").

Male/female threads.

Body in nickel-plated brass.

Lever handle in steel (aluminium in the sizes 2 1/2", 3" and 4").

Minimum and maximum working temperatures: -20°C, 60°C.

Female threads:

- ISO 7/1 Rp parallel (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/2" through 2".

- ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228) sizes 2 1/2", 3" and 4".

Male threads:

- ISO 7/1 R taper (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/2" through 2".

- ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228) sizes 2 1/2", 3" and 4".



072



Berlin ball valve, full flow

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	5bar/72.5psi	072B012	8/96
3/4" (DN 20)	5bar/72.5psi	072B034	6/54
1" (DN 25)	5bar/72.5psi	072B100	4/36

EN331 APPROVED (up to 2").

Female/female threads.

Body in nickel-plated brass.

T handle in aluminium.

Minimum and maximum working temperatures: -20°C, 60°C.

Female threads:

- ISO 7/1 Rp parallel (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/2" through 1".



073



Berlin ball valve, full flow

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	5bar/72.5psi	073B012	10/90
3/4" (DN 20)	5bar/72.5psi	073B034	6/54
1" (DN 25)	5bar/72.5psi	073B100	4/32

EN331 APPROVED (up to 2").

Male/female threads.

Body in nickel-plated brass.

T handle in aluminium.

Minimum and maximum working temperatures: -20°C, 60°C.

Female threads:

- ISO 7/1 Rp parallel (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/2" through 1".

Male threads:

- ISO 7/1 R taper (equivalent to DIN EN 10226-1 and BS EN 10226-1) sizes 1/2" through 1".



060



Angle ball valves for gas

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	5bar/72.5psi	060B012	12/108

EN331 APPROVED.

Male/male threads.
Fixable T handle in aluminium.
Body in nickel-plated brass.
Minimum and maximum working temperatures: -20°C, 60°C.
Male threads ISO 7/1 R taper (equivalent to DIN EN 10226-1 and BS EN 10226-1).

062



Angle ball valves for gas with revolving nut

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	5bar/72.5psi	062B012	12/108

Threads: male/revolving female nut.
 Fixable T handle in aluminium.
 Body in nickel-plated brass.
 Minimum and maximum working temperatures: -20°C, 60°C.
 Female thread ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
 Male thread ISO 7/1 R taper (equivalent to DIN EN 10226-1 and BS EN 10226-1).

086G



Lever handle for ball valves

SIZE	CODE	PACKING
1	0860001G	20/400
2	0860002G	20/400
3	0860003G	20/300
4	0860004G	10/100
5	0860005G	10/100
6	0860006G	1/75
7	0860007G	1/35

Size of the handle corresponding to each valve.

Art.	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
070/071	-	-	2	3	3	4	5	5	7	7	7
066/067	1	1	2	3	3	4	5	5	7	7	7
120/121	-	-	-	-	-	-	-	-	7	7	7



084G



Flat lever handle for ball valves

SIZE	CODE	PACKING
1	0840001G	20/400
2	0840002G	20/400
3	0840003G	20/300
4	0840004G	10/100
5	0840005G	10/100

Size of the handle corresponding to each valve.

Art.	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
070/071	-	-	2	3	3	4	5	5
066/067	1	1	2	3	3	4	5	5
266/267	1	1	2	3	3	4	5	5



Locking device p. 41



087G



T handle for ball valves

SIZE	CODE	PACKING
1	0870001G	20/500
2	0870002G	20/500
3	0870003G	20/500

Size of the handle corresponding to each valve.

Art.	1/4"	3/8"	1/2"	3/4"	1"
072/073	-	-	2	3	3
068/069	1	1	2	3	3



992



Gas leak detector with optical-acoustic alarm and relay control

SIZE	CODE	PACKING
-	992M	1/12
SIZE	CODE	PACKING
-	992G	1/12

AVAILABLE FOR METHANE GAS AND LPG.

Leds: power supply (green), failure (yellow), alarm (red).

Optical (red led) and acoustic (internal buzzer 87dBA) alarms.

Provided with relay output.

Power supply voltage: 230V.

Max electrical input: 20mA 230Vac.

Max relay contact load: 8A 250Vac/30Vcc.

Class of protection: IP42.

Working temperature: -10°C, 40°C.

Working relative humidity: 30%, 90%.

Alarm level: gas concentration equal to 10% of L.E.L. (Low Exposition Limit).

4 years after installation date the device must be put out of order and replaced with a new unit.

Dimension: 138x85x44 mm.

According to CEI UNI EN 50194.

993



M: 550mbar

G: 6bar



Solenoid safety valve, normally open

Available for maximum pressure of 550 mbar (8psi) and 6 bar (87 psi).

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	550mbar/8psi	9930012M	1/17
3/4" (DN 20)	550mbar/8psi	9930034M	1/0
1" (DN 25)	550mbar/8psi	9930100M	1/0
1"1/4 (DN 32)	550mbar/8psi	9930114M	1/0
1"1/2 (DN 40)	550mbar/8psi	9930112M	1/0
2" (DN 50)	550mbar/8psi	9930200M	1/0

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	6bar/87psi	9930012G	1/17
3/4" (DN 20)	6bar/87psi	9930034G	1/0
1" (DN 25)	6bar/87psi	9930100G	1/0
1"1/4 (DN 32)	6bar/87psi	9930114G	1/0
1"1/2 (DN 40)	6bar/87psi	9930112G	1/0
2" (DN 50)	6bar/87psi	9930200G	1/0

Body in brass.

Class of protection: IP65.

Female threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

Power supply voltage: 230V.

Power input: 17 VA and 19 W.

Working temperature: -15°C, 70°C.

Closing time: <1sec.

Maximum working pressure: 550mbar or 6bar.

Manual reset in compliance with CEI UNI EN 50194 regulation.

Approved under directive PED 97/23/CE.

998



Gas safety kit

METHANE GAS

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	550mbar/8psi	9980012M	1/5
3/4" (DN 20)	550mbar/8psi	9980034M	1/5

LPG

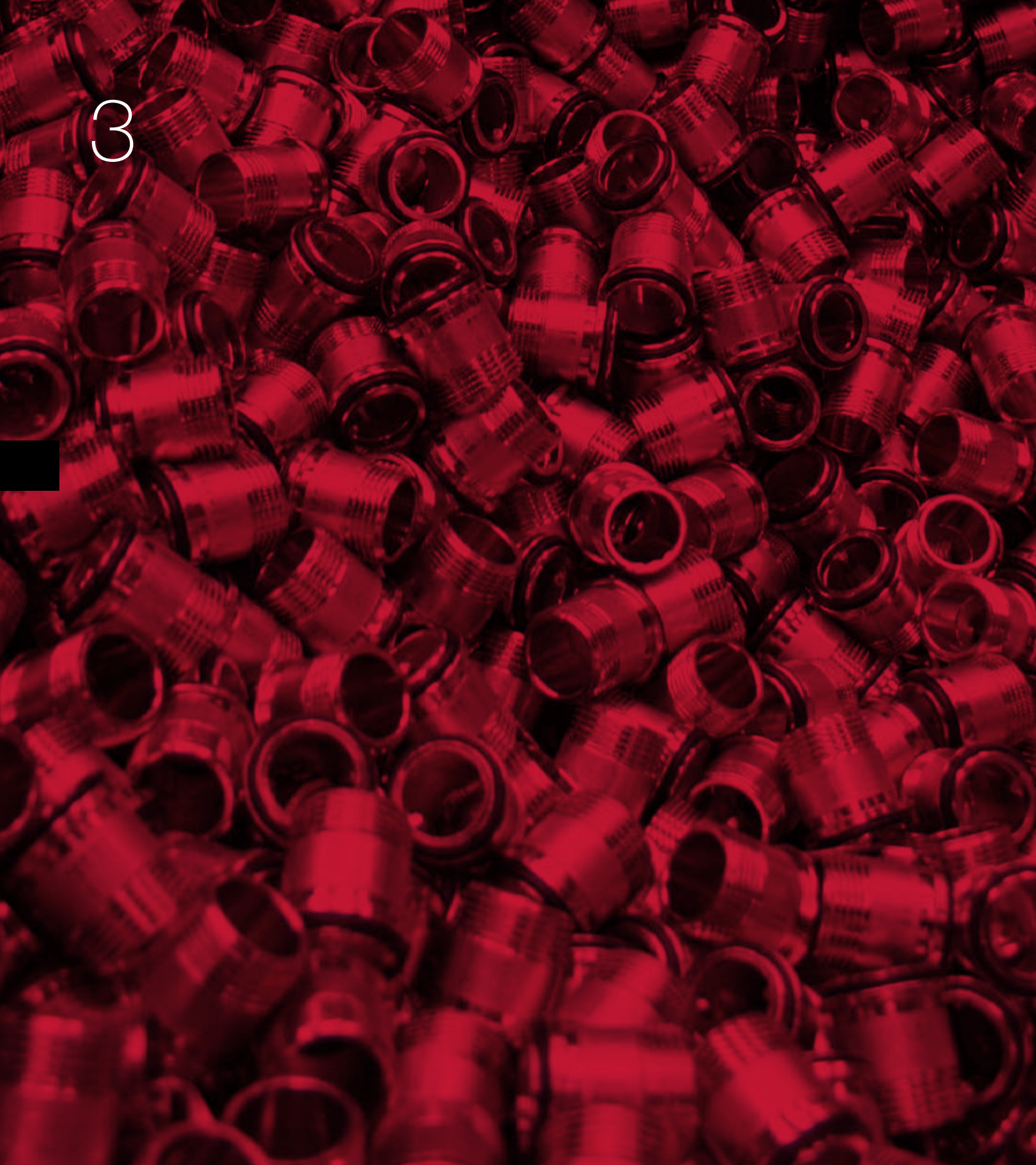
SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	6bar/87psi	9980012G	1/5
3/4" (DN 20)	6bar/87psi	9980034G	1/5

AVAILABLE FOR METHANE GAS AND LPG.

Consisting of a gas leak detector (Art. 992),
and a solenoid safety valve - normally open, 230 Vac (Art. 993).



2



3

CHROME-PLATED
BIBCOCKS



Build-in valves	60
Build-in valves	60
Supply-stops	61-62
Stainless steel rosette	62
Washing machine ball valves	63-65



340

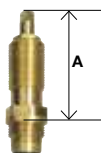


Build-in valve with blind cap

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	20bar/290psi	3400012	6/48
3/4" (DN 20)	15bar/217.5psi	3400034	6/30

Female/female threads.
Body in brass.
Cover plate and cap in chrome-plated ABS.
Minimum and maximum working temperatures: 0°C, 110°C in absence of steam.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

PROL340



Spacer

CODE	PACKING
PROL340	1/150

Suitable for art. 340.
Thread: 19x19Fx1".
Length A: 59 mm.

345



Build-in valve with handle

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	20bar/290psi	3450012	4/24
3/4" (DN 20)	15bar/217.5psi	3450034	4/20

Female/female threads.
Body in brass.
Cover plate and handle in chrome-plated ABS.
Minimum and maximum working temperatures: 0°C, 110°C in absence of steam.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

136



Build-in valve with blind cap

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	30bar/435psi	1360012	8/48
3/4" (DN 20)	25bar/362.5psi	1360034	5/30

Full flow.
Female/female threads.
Body in brass.
Cover plate and cap in chrome-plated brass.
Minimum and maximum working temperatures: 0°C, 110°C in absence of steam.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

138



Build-in valve with handle

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	30bar/435psi	1380012	8/48
3/4" (DN 20)	25bar/362.5psi	1380034	5/30
1" (DN 25)	25bar/362.5psi	1380100	4/24

Full flow.
Female/female threads.
Body in brass.
Cover plate in stainless steel.
Lever handle in chrome-plated brass.
Minimum and maximum working temperatures: 0°C, 110°C in absence of steam.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

PROL136



Spacer

CODE	PACKING
PROL136	1/150

Suitable for art. 136 and 138 - 1/2" and 3/4".
Thread: 22x19Fx1".
Length A: 37,5 mm.

346

**Supply stop**

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	8bar/116psi	3460012	10/140

Available size 1/2"x1/2".
Male thread.
Body in chrome-plated brass.
Cover plate in stainless steel.
Minimum and maximum working temperatures: 0°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

348

**Supply stop with nut and washer**

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	8bar/116psi	3480012	10/140

Available size 1/2"x mm.10.
Male thread.
Body in chrome-plated brass.
Cover plate in stainless steel.
Minimum and maximum working temperatures: 0°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

348SD

**Supply stop without nut**

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	8bar/116psi	3480012SD	10/120

Available size 1/2"x 3/8".
Male thread.
Body in chrome-plated brass.
Cover plate in stainless steel.
Minimum and maximum working temperatures: 0°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

385

**Ball supply stop with strainer**

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	8bar/116psi	3850012	10/120

Available size 1/2"x mm.10.
Male thread.
Body in chrome-plated brass.
Metal handle.
Cover plate in stainless steel.
Built-in strainer in stainless steel.
Minimum and maximum working temperatures: 0°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

386

**Ball supply stop with articulated connection**

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	8bar/116psi	3860012	10/90

Available size 1/2"x mm.10.
Male thread.
Body in chrome-plated brass.
Metal handle.
Cover plate in stainless steel.
Built-in strainer in stainless steel.
Minimum and maximum working temperatures: 0°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

387



Supply stop and washing machine valve

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	8bar/116psi	3870012	1/38

Male thread.
Body in chrome-plated brass.
Cover plate in stainless steel.
Minimum and maximum working temperature: 0°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

906



Ball supply stop with strainer

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	8bar/116psi	9060012	10/90

Available size 1/2"x mm.10.
Male thread.
Body in chrome-plated brass.
Metal handle.
Cover plate in stainless steel.
Built-in strainer in stainless steel.
Minimum and maximum working temperatures: 0°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

906SD



Ball supply stop with strainer without nut

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	8bar/116psi	9060012SD	10/90

Available size 1/2"x 3/8".
Male thread.
Body in chrome-plated brass.
Metal handle.
Cover plate in stainless steel.
Built-in strainer in stainless steel.
Minimum and maximum working temperatures: 0°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

285



Stainless steel rosette

SIZE	CODE	PACKING
1/2" (DN 15)	2850012	100/1500

220



Washing machine valve

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	8bar/116psi	2200012U	12/36

Available size: 1/2"x3/4".
Male thread for washing machine.
Body in chrome-plated brass.
Minimum and maximum working temperatures: 0°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

225



Horizontal washing machine valve, heavy pattern

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	16bar/232psi	2250012	12/96

Available size: 1/2"x3/4".
Male thread for washing machine.
Body in chrome-plated brass.
Minimum and maximum working temperatures: 0°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

226



Horizontal washing machine valve

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	16bar/232psi	2260012	12/108

Available size: 1/2"x3/4".
Male thread for washing machine.
Body in chrome-plated brass.
Minimum and maximum working temperatures: 0°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

228



Inclined washing machine valve

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	16bar/232psi	2280012	12/108

Available size: 1/2"x3/4".
Male thread for washing machine.
Body in chrome-plated brass.
Minimum and maximum working temperatures: 0°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).



3

230



One-piece spacer for faucets

SIZE	PRESSURE	CODE	PACKING
3/4" (DN 20)	16bar/232psi	2300034C	6/72

Available size 3/4"x3/4"x3/4".
Male thread for washing machine.
Body in chrome-plated brass.
Minimum and maximum working temperatures: 0°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

240



Washing machine and dishwasher valve

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	16bar/232psi	2400012U	6/36

Available size 1/2"x3/4"x3/4".
Male thread for washing machine/dishwasher.
Body in chrome-plated brass.
Minimum and maximum working temperatures: 0°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

250



Washing machine valve

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	16bar/232psi	2500012	12/96

Available size 1/2"x3/4".
Male thread for washing machine.
Body in chrome-plated brass.
Minimum and maximum working temperatures: 0°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

255



3-way washing machine valve

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	16bar/232psi	2550012	10/90

Available size 1/2"x3/4".
Male thread for washing machine.
Body in chrome-plated brass.
Minimum and maximum working temperatures: 0°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

390



Drain trap for washing machines

SIZE	PRESSURE	CODE	PACKING
3/4" (DN 20)	16bar/232psi	3900034	6/42

Body in chrome-plated brass.
Cover plate in stainless steel.
Spring: stainless steel.
Minimum and maximum working temperatures: 0°C, 80°C.

391



Washing machine ball valve

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	16bar/232psi	3910012	12/144

Metal handle.
Available size: 1/2"x1/2".
Male/male threads.
Body in nickel-plated brass.
Minimum and maximum working temperatures: 0°C, 110°C in absence of steam.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

392



Available also with NPT thread.



Washing machine ball valve

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	16bar/232psi	3920012	12/144

Metal handle.
Available size: 1/2"x3/4".
Male/male threads.
Body in nickel-plated brass.
Minimum and maximum working temperatures: 0°C, 110°C in absence of steam.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

488



Angle valve

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	16bar/232psi	4880012	10/120

Available size: 1/2"x1/2".
Male thread.
Body in chrome-plated brass.
Handle in chrome-plated ABS.
Minimum and maximum working temperatures: 0°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

706



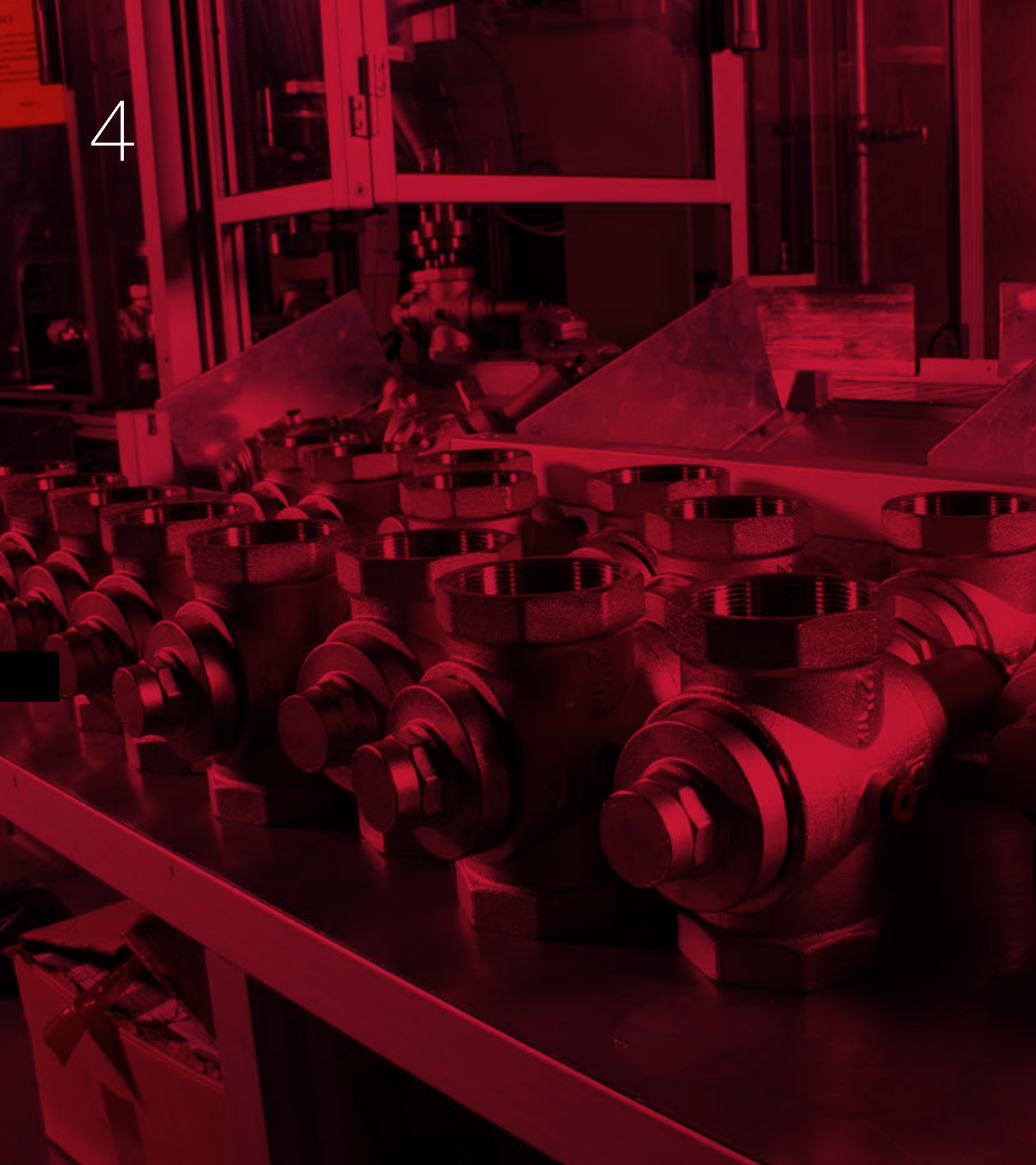
Washing machine ball valve

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	8bar/116psi	7060012	10/90

Available size: 1/2"x3/4".
Male/male threads.
Body in chrome-plated brass.
Metal handle.
Cover plate in stainless steel.
Minimum and maximum working temperatures: 0°C, 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).



3



POLYPHOSPHATE PROPORTIONAL DOSER, MAGNETIC DIRT
SEPARATOR, AUTOMATIC FILLING UNIT, PRESSURE
REDUCING VALVES AND STRAINERS



Polyphosphate proportional doser	68-69
Magnetic dirt separator	70-73
Automatic filling unit	74-75
Pressure reducing valves	76-78
Y strainers	80-82
Self-cleaning strainer	83





POLYPHOSPHATE PROPORTIONAL DOSER



The polyphosphate proportional dosing unit, produced by Itap, is used for descaling treatments in domestic hot water production systems.

For correct installation, it must be placed on the cold water pipe entering the boiler and, in general, entering heat generators (boilers and water-heaters).

It can also be installed on pipes entering washing machines and dishwashers.

-  **INTEGRATED BY-PASS**
-  **INTEGRATED AIR-VENT VALVE**
-  **SUITABLE FOR HORIZONTAL AND VERTICAL PIPES INSTALLATION**
-  **EASY REFILLING**
-  **REDUCED OVERALL DIMENSIONS**

SEZIONE E MATERIALI



PROTECTED AGAINST BUILDUP OF LIMESCALE



**LONGER
LIFE OF THE
SYSTEM**

**SAVINGS ON
ENERGY BILLS**

**IMPROVED
BOILER
PERFORMANCE**

187



1 refill included.

Polyphosphate proportional doser I-DOSER

POLYPHOSPHATE PROPORTIONAL DOSER

The polyphosphate proportional dosing unit, produced by Itap, is used for descaling treatments in domestic hot water production systems. For correct installation, it must be placed on the cold water pipe entering the boiler and, in general, entering heat generators (boilers and water-heaters). It can also be installed on pipes entering washing machines and dishwashers.

SIZE	PRESSURE	CODE	PACKING
1/2"x1/2"	8bar/116psi	1870012	1/11

Available size: 1/2"x1/2".
Compatible fluids: water.
Maximum flow rate: 1.5 m³/h.
Maximum pressure: 8 bar.
Water temperature: 5 – 30°C.
Threaded fitting: brass CW617N.
Transparent cup: SAN.
Bellows: VMQ.
O-ring: EPDM.

187CA



I-DOSER polyphosphate solid refill

CODE	PACKING
187CA	4/88





MAGNETIC COMPACT DIRT SEPARATOR

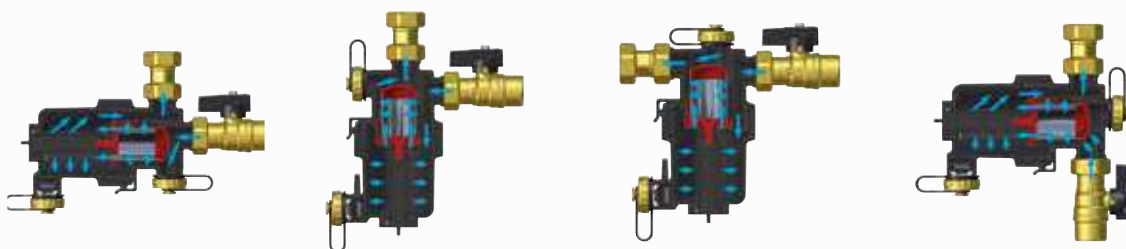
Dirt separators are by now common components in Euroopen installations; ITAP introduces today iMAG, after accurate market studies and projects that guarantee the best features:

- right dimension for installations in small spaces, perfect for under-boiler;
- stainless steel strainer (800µm), perfect to stop the larger impurities;
- suitable for vertical and horizontal installations, with the best filtration guaranteed;
- integrated drain valve for an easy and fast maintenance;
- strong magnet (12.000G) with large contact surface to stop every iron particle and easy-to remove to avoid disassembling before cleaning;
- large debris collection capacity to guarantee the water slowing in order to stop all impurities.



-  LARGE MAGNETIC SURFACE
-  LARGE DEBRIS COLLECTION CAPACITY
-  INTEGRATED DRAIN COCK
-  OPTIMAL FILTRATION IN EVERY INSTALLATION POSITION

FLAWS

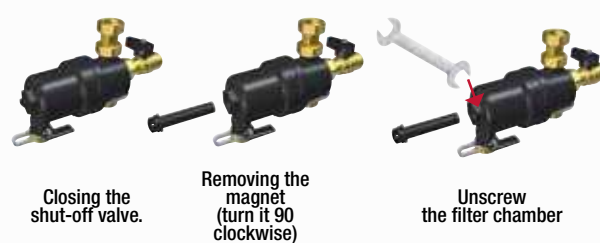


CLEANING AND MAINTENANCE

ORDINARY MAINTENANCE



ANNUAL MAINTENANCE



MATERIALS



188

Magnetic compact dirt separator I-MAG



MAGNETIC COMPACT DIRT SEPARATOR

Dirt separators are by now common components in European installations; ITAP introduces today iMAG, after accurate market studies and projects that guarantee the best features:

- right dimension for installations in small spaces, perfect for under-boiler;
- stainless steel strainer (800µm), perfect to stop the larger impurities;
- suitable for vertical and horizontal installations, with the best filtration guaranteed;
- strong magnet (12.000G) with large contact surface to stop every iron particle and easy-to remove to avoid disassembling before cleaning;
- large debris collection capacity to guarantee the water slowing in order to stop all impurities.

SIZE	PRESSURE	CODE	PACKING
3/4"	3bar/43,5psi	1880034	1/11

Polymer body.
Stainless steel AISI 304 cartridge
Neodymium magnet: 12000 G.
Maximum working pressure: 3 bar.
Maximum working temperature: 90°C.
Equipped with adjusting female fitting and ball valve with swiveling nut.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).



MULTIFUNCTION MAGNETIC DIRT SEPARATOR



MOUNTING POSITIONS



CLEANING AND MAINTENANCE



188SR

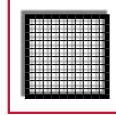


Magnetic dirt separator I-MAG XL

MULTIFUNCTION MAGNETIC DIRT SEPARATOR

- VORTEX ACTION
- MAGNETIC ACTION
- STRAINER ACTION

SIZE	PRESSURE	CODE	PACKING
1"	3bar/43,5psi	1880100SR	1/3



Polymer body.
Stainless steel AISI 304 cartridge
Neodymium magnet: 14000 G.
Maximum working pressure: 3 bar.
Maximum working temperature: 90°C.
Threads body: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228);

188S

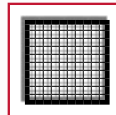


Magnetic dirt separator I-MAG XL

MULTIFUNCTION MAGNETIC DIRT SEPARATOR

- VORTEX ACTION
- MAGNETIC ACTION
- STRAINER ACTION

SIZE	PRESSURE	CODE	PACKING
3/4"	3bar/43,5psi	1880034S	1/3
1"	3bar/43,5psi	1880100S	1/3



Polymer body.
Stainless steel AISI 304 cartridge
Neodymium magnet: 14000 G.
Maximum working pressure: 3 bar.
Maximum working temperature: 90°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

COP188S



Insulation shells for magnetic dirt separator IMAG-XL

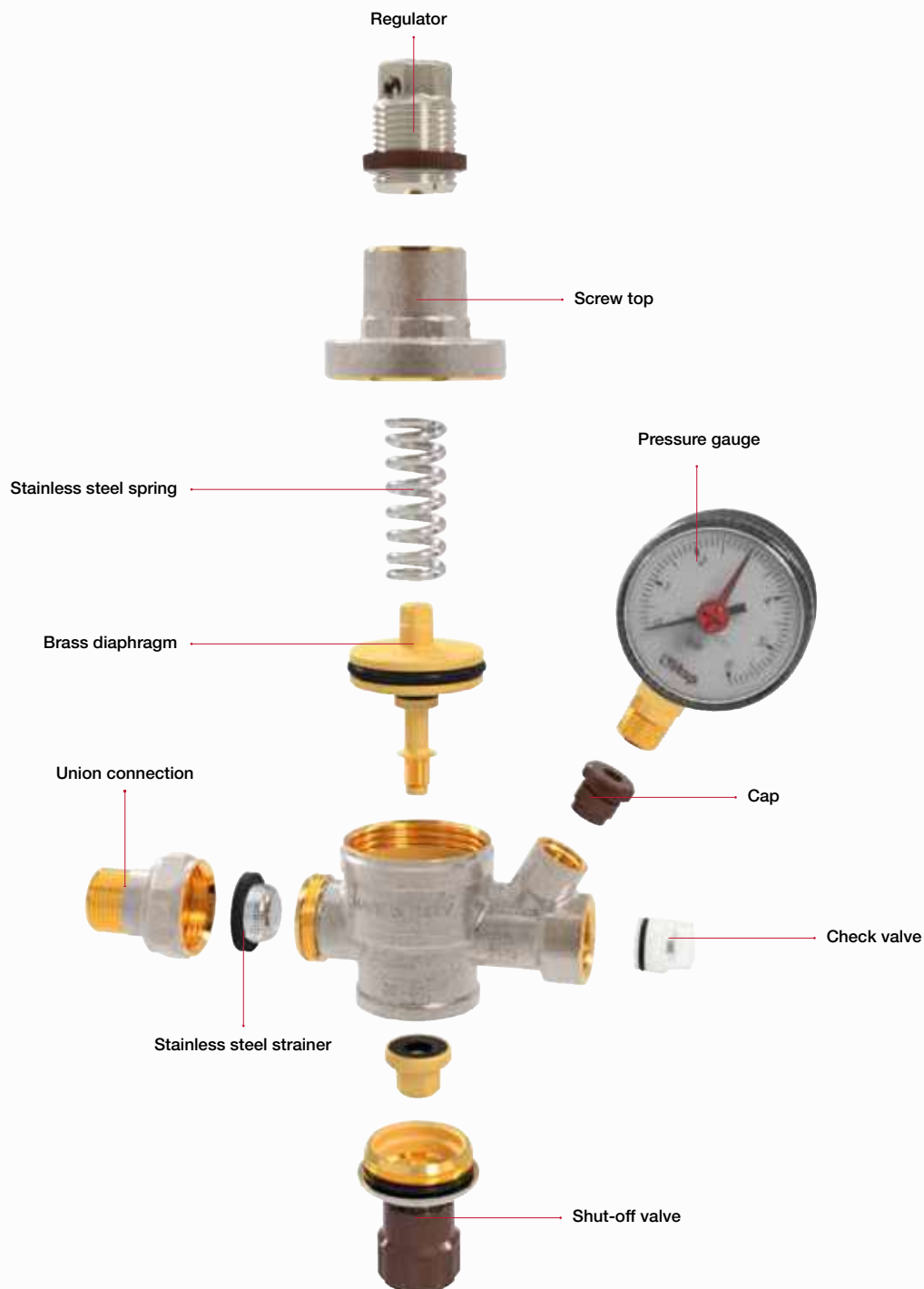
CODE	PACKING
COP188S	1/3

Insulation shells made of polymer.



AUTOMATIC FILLING UNIT

It is installed to maintain the heating system pressure stable at a set value.



- SHUT-OFF VALVE
- STAINLESS STEEL STRAINER
- CHECK VALVE

146

AUTOMATIC FILLING UNIT

AUTOMATIC FILLING UNIT
IT IS INSTALLED TO MAINTAIN THE HEATING SYSTEM PRESSURE STABLE AT A SET VALUE,
AUTOMATICALLY TOPPING UP WITH WATER, AS REQUIRED

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	16bar/232psi	1460012	1/12
1/2" (DN 15)	16bar/232psi	1460012SM	1/22



*Mention "1460012SM" in the code only to
receive item without pressure gauge.*

Equipped with shut-off valve, stainless steel filter and check valve.
Piston operation.
Body in brass.
Minimum and maximum working temperature: 0°C, 80°C.
Maximum inlet pressure: 16 bar.
Outlet pressure can be adjusted between 0,5 and 4 bar
Factory preset: 1,5 bar.
Pressure gauge threaded connection 1/4".
Pressure gauge: scale (0-6) bar.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).



143



Available also with NPT thread in the sizes 2"1/2 - 3" - 4".
NF approved in 1/2" and 3/4" sizes.
KC approved in sizes from 1/2" to 4".



EUROPRESS pressure reducing valve

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	25bar/362.5psi	1430012	1/22
3/4" (DN 20)	25bar/362.5psi	1430034	1/22
1" (DN 25)	25bar/362.5psi	1430100	1/12
1"1/4 (DN 32)	25bar/362.5psi	1430114	1/6
1"1/2 (DN 40)	25bar/362.5psi	1430112	1/6
2" (DN 50)	25bar/362.5psi	1430200	1/3
2"1/2 (DN 65)	25bar/362.5psi	1430212	1/2
3" (DN 80)	25bar/362.5psi	1430300	1/2
4" (DN 100)	25bar/362.5psi	1430400	1/2

Compensated piston operation.
Female/female threads.
Body in nickel-plated brass.
Minimum and maximum working temperatures: 0°C, 80°C.
Maximum inlet pressure: 25 bar.
Outlet pressure:
1/2" - 3/4" - 1" between 1 and 5,5 bar.
1"1/4 through 4" between 1 and 6 bar.
Factory preadjustment 3 bar.
Outlet pressure gauge connection 1/4" on both sides.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

143MM



Multithread model available in 1/2" size.
NF approved in 1/2" and 3/4" sizes.



EUROPRESS pressure reducing valve with union connection

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	25bar/362.5psi	1430012MM	1/22
3/4" (DN 20)	25bar/362.5psi	1430034MM	1/22
1" (DN 25)	25bar/362.5psi	1430100MM	1/12
1"1/4 (DN 32)	25bar/362.5psi	1430114MM	1/6
1"1/2 (DN 40)	25bar/362.5psi	1430112MM	1/6
2" (DN 50)	25bar/362.5psi	1430200MM	1/3

Compensated piston operation.
Union connections.
Body in nickel-plated brass.
Minimum and maximum working temperatures: 0°C, 80°C.
Maximum inlet pressure: 25 bar.
Outlet pressure:
1/2" - 3/4" - 1" between 1 and 5,5 bar.
1"1/4 through 2" between 1 and 6 bar.
Factory preadjustment 3 bar.
Outlet pressure gauge connection 1/4" on both sides.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

243



Watermark and WRAS approved in 1/2", 3/4" and 1" sizes.
WRAS approved to 16 bar.
Watermark approved to 20 bar.



EUROPRESS pressure reducing valve dezincification resistant brass

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	25bar/362.5psi	2430012	1/22
3/4" (DN 20)	25bar/362.5psi	2430034	1/22
1" (DN 25)	25bar/362.5psi	2430100	1/11
1 1/4" (DN 32)	25bar/362.5psi	2430114	1/6
1 1/2" (DN 40)	25bar/362.5psi	2430112	1/6
2" (DN 50)	25bar/362.5psi	2430200	1/3

Compensated piston operation.
Female/female threads.
Body in antidezincification brass.
Minimum and maximum working temperatures: 0°C, 80°C.
Maximum inlet pressure: 25 bar.
Outlet pressure:
1/2" - 3/4" - 1" between 1 and 5,5 bar.
1 1/4" through 2" between 1 and 6 bar.
Factory preadjustment 4 bar.
Outlet pressure gauge connection 1/4" on both sides.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

INSTALLATION OF PRESSURE REDUCING VALVES

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems. It can be installed in any position: vertical, horizontal, oblique.

For a right installation, we suggest to use just one pressure reducing valve for pressure inlet values up to 16 bar. If inlet pressure values are higher we suggest to use two pressure reducing valves in series.

**A strainer should be installed before the pressure reducing valve. (Please see the following charts).
IN CASE OF NOT COMPLIANCE WITH SUCH INSTALLATION, OUR COMPANY WILL NOT BE RESPONSABLE OF ANY DAMAGES TO OUR PRESSURE REDUCING VALVES.**

Installation art.192 or 193 + art.515 + art.143



Installation art.192 or 193 + art.143MM



Installation art.192 or 193 + art.515 + art.243



4

360



MINIPRESS pressure reducing valve

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	15bar/217.5psi	3600012	4/56
3/4" (DN 20)	15bar/217.5psi	3600034	4/56

Compensated piston operation.
Female/female threads.
Body in nickel-plated brass.
Minimum and maximum working temperatures: 0°C, 80°C.
Maximum inlet pressure: 15 bar.
Outlet pressure can be adjusted between 1 and 4 bar.
Factory preadjustment 3 bar.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

361



MINIPRESS pressure reducing valve with pressure gauge connection

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	15bar/217.5psi	3610012	4/56
3/4" (DN 20)	15bar/217.5psi	3610034	4/56

Compensated piston operation.
Female/female threads.
Body in nickel-plated brass.
Minimum and maximum working temperatures: 0°C, 80°C.
Maximum inlet pressure: 15 bar.
Outlet pressure can be adjusted between 1 and 4 bar.
Factory preadjustment 3 bar.
Outlet pressure gauge connection 1/4".
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

INSTALLATION OF PRESSURE REDUCING VALVES

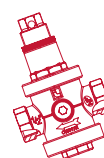
**A strainer should be installed before the pressure reducing valve. (Please see the following charts).
IN CASE OF NOT COMPLIANCE WITH SUCH INSTALLATION, OUR COMPANY WILL NOT BE RESPONSIBLE
OF ANY DAMAGES TO OUR PRESSURE REDUCING VALVES**

Installation art.192 or 193 + art.515 + art.360



Installation art.192 or 193 + art.515 + art.361





192



Y strainer

Suitable for domestic water services, heating and air-conditioning plants.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	20bar/290psi	1920014	20/160
3/8" (DN 10)	20bar/290psi	1920038	20/160
1/2" (DN 15)	20bar/290psi	1920012	20/160
3/4" (DN 20)	20bar/290psi	1920034	10/80
1" (DN 25)	20bar/290psi	1920100	7/56
1"1/4 (DN 32)	20bar/290psi	1920114	4/32
1"1/2 (DN 40)	20bar/290psi	1920112	2/18
2" (DN 50)	20bar/290psi	1920200	2/10
2"1/2 (DN 65)	16bar/232psi	1920212	1/7
3" (DN 80)	16bar/232psi	1920300	1/6
4" (DN 100)	16bar/232psi	1920400	1/2

Female/female threads and inspection plug.

Body in brass.

Minimum and maximum working temperatures: -20°C, 110°C in absence of steam.

Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

Filtration degree: 1/4" through 2": 500µm; 2"1/2 through 4": 800µm

192CA



Cartridge for Y strainer 192

SIZE	CODE	PACKING	FILTRO
1/4" (DN 8)	192CA014	1/0	1/4"
1/4" (DN 8)	192CA014	1/0	3/8"
1/4" (DN 8)	192CA014	1/0	1/2"
3/4" (DN 20)	192CA034	1/0	3/4"
1" (DN 25)	192CA100	1/0	1"
1"1/4 (DN 32)	192CA114	1/0	1"1/4
1"1/2 (DN 40)	192CA112	1/0	1"1/2
2" (DN 50)	192CA200	1/0	2"
2"1/2 (DN 65)	192CA212	1/0	2"1/2
3" (DN 80)	192CA300	1/0	3"
4" (DN 100)	192CA400	1/0	4"

Filtration degree;
- 1/4" through 2" 500µm;
- 2"1/2, 3", 4" 800µm.



192

**Y strainer**

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	20bar/290psi	1920014A	20/160
3/8" (DN 10)	20bar/290psi	1920038A	20/160
1/2" (DN 15)	20bar/290psi	1920012A	20/160
3/4" (DN 20)	20bar/290psi	1920034A	10/80
1" (DN 25)	20bar/290psi	1920100A	7/56
1 1/4" (DN 32)	20bar/290psi	1920114A	4/32
1 1/2" (DN 40)	20bar/290psi	1920112A	2/18
2" (DN 50)	20bar/290psi	1920200A	2/10

Female/female threads and inspection plug.

Body in brass.

Minimum and maximum working temperatures: -20°C, 110°C in absence of steam.

Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

Filtration degree: 1/4" through 2" 200µm

192CA

**Cartridge for Y strainer 192**

SIZE	CODE	PACKING	FILTRO
1/4" (DN 8)	192CA014A	1/0	1/4"
1/4" (DN 8)	192CA014A	1/0	3/8"
1/4" (DN 8)	192CA014A	1/0	1/2"
3/4" (DN 20)	192CA034A	1/0	3/4"
1" (DN 25)	192CA100A	1/0	1"
1 1/4" (DN 32)	192CA114A	1/0	1 1/4"
1 1/2" (DN 40)	192CA112A	1/0	1 1/2"
2" (DN 50)	192CA200A	1/0	2"

Filtration degree: 1/4" through 2" 200µm

193

**Nickel-plated Y strainer**

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	20bar/290psi	1930014	20/160
3/8" (DN 10)	20bar/290psi	1930038	20/160
1/2" (DN 15)	20bar/290psi	1930012	20/160
3/4" (DN 20)	20bar/290psi	1930034	10/80
1" (DN 25)	20bar/290psi	1930100	7/56
1 1/4" (DN 32)	20bar/290psi	1930114	4/32
1 1/2" (DN 40)	20bar/290psi	1930112	2/18
2" (DN 50)	20bar/290psi	1930200	2/10

Female/female threads and inspection plug.

Body in nickel-plated brass.

Minimum and maximum working temperatures: -20°C, 110°C in absence of steam.

Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

Filtration degree: 500µm.

192CA

**Cartridge for Y strainer 193**

SIZE	CODE	PACKING	FILTRO
1/4" (DN 8)	192CA014	1/0	1/4"
1/4" (DN 8)	192CA014	1/0	3/8"
1/4" (DN 8)	192CA014	1/0	1/2"
3/4" (DN 20)	192CA034	1/0	3/4"
1" (DN 25)	192CA100	1/0	1"
1 1/4" (DN 32)	192CA114	1/0	1 1/4"
1 1/2" (DN 40)	192CA112	1/0	1 1/2"
2" (DN 50)	192CA200	1/0	2"

Filtration degree: 500µm.



4

193



Nickel-plated Y strainer

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	20bar/290psi	1930014G	20/160
3/8" (DN 10)	20bar/290psi	1930038G	20/160
1/2" (DN 15)	20bar/290psi	1930012G	20/160
3/4" (DN 20)	20bar/290psi	1930034G	10/80
1" (DN 25)	20bar/290psi	1930100G	7/56
1"1/4 (DN 32)	20bar/290psi	1930114G	4/32
1"1/2 (DN 40)	20bar/290psi	1930112G	2/18
2" (DN 50)	20bar/290psi	1930200G	2/10

Female/female threads and inspection plug.

Body in nickel-plated brass.

Minimum and maximum working temperatures: -20°C, 110°C in absence of steam.

Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

Filtration degree: 300µm.

192CA



Cartridge for Y strainer 193

SIZE	CODE	PACKING	FILTRO
1/4" (DN 8)	192CA014G	1/0	1/4"
1/4" (DN 8)	192CA014G	1/0	3/8"
1/4" (DN 8)	192CA014G	1/0	1/2"
3/4" (DN 20)	192CA034G	1/0	3/4"
1" (DN 25)	192CA100G	1/0	1"
1"1/4 (DN 32)	192CA114G	1/0	1"1/4
1"1/2 (DN 40)	192CA112G	1/0	1"1/2
2" (DN 50)	192CA200G	1/0	2"

Filtration degree: 300µm.

193



Nickel-plated Y strainer

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	20bar/290psi	1930014GAS	20/160
3/8" (DN 10)	20bar/290psi	1930038GAS	20/160
1/2" (DN 15)	20bar/290psi	1930012GAS	20/160
3/4" (DN 20)	20bar/290psi	1930034GAS	10/80
1" (DN 25)	20bar/290psi	1930100GAS	7/56
1"1/4 (DN 32)	20bar/290psi	1930114GAS	4/32
1"1/2 (DN 40)	20bar/290psi	1930112GAS	2/18
2" (DN 50)	20bar/290psi	1930200GAS	2/10

Female/female threads and inspection plug.

Body in nickel-plated brass.

Minimum and maximum working temperatures: -20°C, 110°C in absence of steam.

Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

Filtration degree: 50µm.

192CA



Cartridge for Y strainer 193

SIZE	CODE	PACKING	FILTRO
1/4" (DN 8)	192CA014GAS	1/0	1/4"
1/4" (DN 8)	192CA014GAS	1/0	3/8"
1/4" (DN 8)	192CA014GAS	1/0	1/2"
3/4" (DN 20)	192CA034GAS	1/0	3/4"
1" (DN 25)	192CA100GAS	1/0	1"
1"1/4 (DN 32)	192CA114GAS	1/0	1"1/4
1"1/2 (DN 40)	192CA112GAS	1/0	1"1/2
2" (DN 50)	192CA200GAS	1/0	2"

Filtration degree: 50µm.

189



Self-cleaning strainer

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.
Supplied with an extractable straining cartridge, double pressure gauge and hose cock to dump the impurities.

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	16bar/232psi	1890012	1/6
3/4" (DN 20)	16bar/232psi	1890034	1/6
1" (DN 25)	16bar/232psi	1890100	1/4
1"1/4 (DN 32)	16bar/232psi	1890114	1/4
1"1/2 (DN 40)	16bar/232psi	1890112	1/4
2" (DN 50)	16bar/232psi	1890200	1/4

Body in nickel-plated brass.
Minimum and maximum working temperatures: 0°C, 100°C in absence of steam.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Filtration degree: 300µm.

189CA



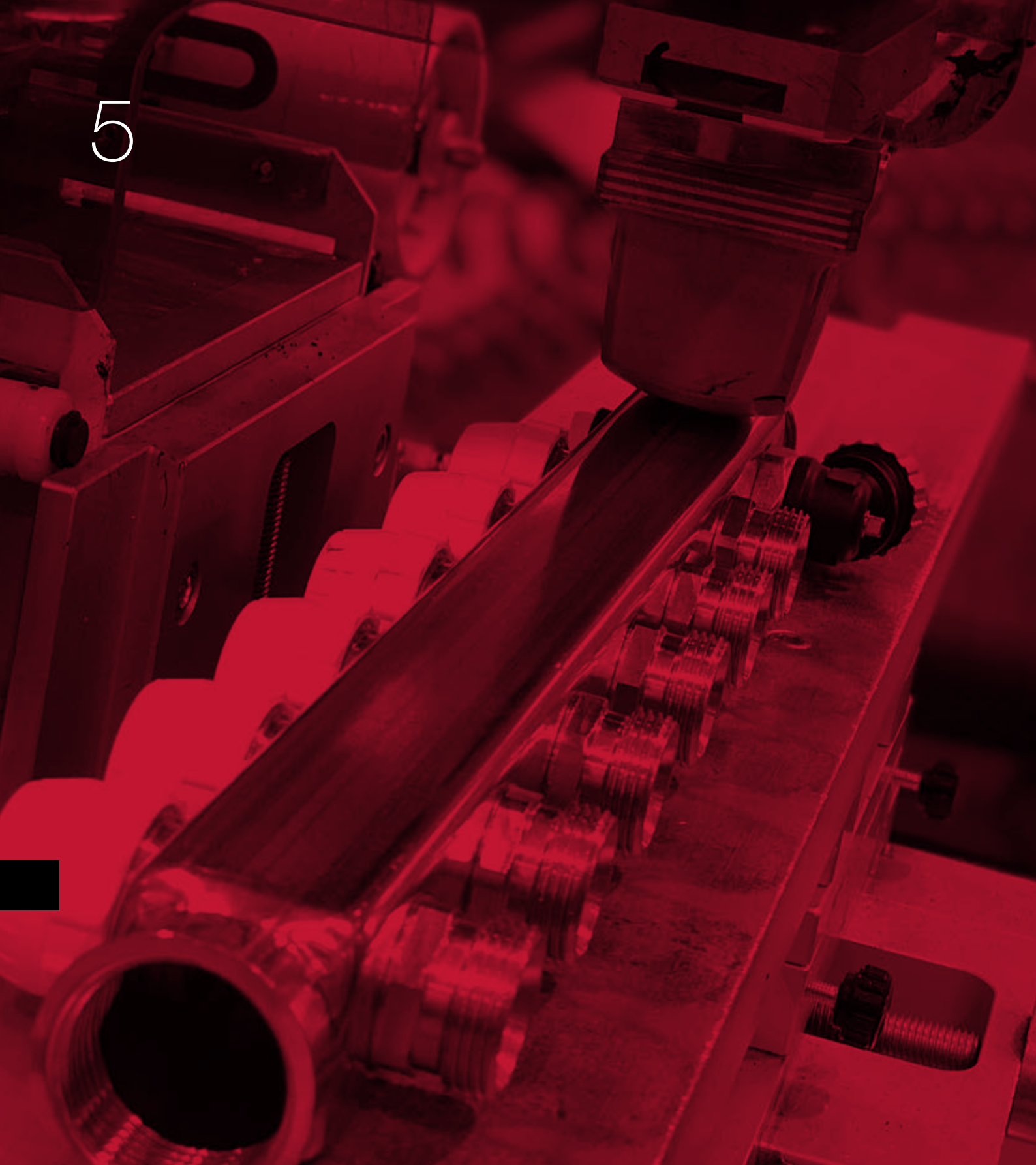
Cartridge for self-cleaning strainer

SIZE	CODE	PACKING
1/2" (DN 15)	189CA012	1/0
3/4" (DN 20)	189CA034	1/0
1" (DN 25)	189CA100	1/0
1"1/4 (DN 32)	189CA114	1/0
1"1/2 (DN 40)	189CA112	1/0
2" (DN 50)	189CA200	1/0

Filtration degree: 300µm.



5



HEATING

Straight and angle convertible valves and lockshields	86-89
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894V



Suitable for thermostatic control heads art. 891, art. 891R, art. 891SD.



Straight convertible valve with handle, female thread

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	10bar/145psi	8940038V	4/56
1/2" (DN 15)	10bar/145psi	8940012V	4/56

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

894C



Suitable for thermostatic control heads art. 891, art. 891R, art. 891SD.



Straight convertible valve with cap, female thread

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	10bar/145psi	8940038C	4/88
1/2" (DN 15)	10bar/145psi	8940012C	4/88

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

296S



Straight lockshield, female thread

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	10bar/145psi	2960038S	12/168
1/2" (DN 15)	10bar/145psi	2960012S	12/144
3/4" (DN 20)	10bar/145psi	2960034S	10/80

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

To be used with iron piping or, together with an Itap-Fit connector (art. 618 pg.166), with copper, crosslinked polyethylene (PEX) or polybutylene.



618

In the case of use with PEX or polybutylene it is also requested the use of the liner art. 655 (pg. 166).



655



895V



Suitable for thermostatic control heads art. 891, art. 891R, art. 891SD.



Straight convertible valve with handle, male thread

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	10bar/145psi	8950038V	4/56
1/2" (DN 15)	10bar/145psi	8950012V	4/56

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

895C



Suitable for thermostatic control heads art. 891, art. 891R, art. 891SD.



Straight convertible valve with cap, male thread

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	10bar/145psi	8950038C	4/88
1/2" (DN 15)	10bar/145psi	8950012C	4/88

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

297S



Straight lockshield, male thread

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	10bar/145psi	2970038S	12/144
1/2" (DN 15)	10bar/145psi	2970012S	12/132

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

To be used with multilayer, PEX or polybutylene piping, together with 595M or 510 Multi-Fit connectors (pg.158).



595M



510

Suitable also for copper piping, together with a compression fitting art. 595 (pg.159).

The male thread "G" is equipped with a conical seat and inner diameter mm.16.



595

994V



Suitable for thermostatic control heads art. 891, art. 891R, art. 891SD.



Angle convertible valve with handle, female thread

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	10bar/145psi	9940038V	4/56
1/2" (DN 15)	10bar/145psi	9940012V	4/56

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

994C



Suitable for thermostatic control heads art. 891, art. 891R, art. 891SD.



Angle convertible valve with cap, female thread

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	10bar/145psi	9940038C	4/88
1/2" (DN 15)	10bar/145psi	9940012C	4/88

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

396S



Angle lockshield, female thread

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	10bar/145psi	3960038S	12/168
1/2" (DN 15)	10bar/145psi	3960012S	12/144
3/4" (DN 20)	10bar/145psi	3960034S	10/80

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

To be used with iron piping or, together with an Itap-Fit connector (art. 618 pg.166), with copper, crosslinked polyethylene (PEX) or polybutylene.



618

In the case of use with PEX or polybutylene it is also requested the use of the liner art. 655 (pg. 166).



655

995V



G

Suitable for thermostatic control heads art. 891, art. 891R, art. 891SD.



Angle convertible valve with handle, male thread

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	10bar/145psi	9950038V	4/56
1/2" (DN 15)	10bar/145psi	9950012V	4/56

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

995C



G

Suitable for thermostatic control heads art. 891, art. 891R, art. 891SD.



Angle convertible valve with cap, male thread

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	10bar/145psi	9950038C	4/88
1/2" (DN 15)	10bar/145psi	9950012C	4/88

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

397S



G



Angle lockshield, male thread

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	10bar/145psi	3970038S	12/168
1/2" (DN 15)	10bar/145psi	3970012S	12/144

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

To be used with multilayer, PEX or polybutylene piping, together with 595M or 510 Multi-Fit connectors (pg.158).

Suitable also for copper piping, together with a compression fitting art. 595 (pg.159).

The male thread "G" is equipped with a conical seat and inner diameter mm.16.



595M



510



595

891



Thermostatic control head with oil-filled element

CODE	PACKING
891	1/84

Scale values: * to 5.
Adjustable temperature range: 6,5°C, 28°C.
Antifreeze position set: 6,5°C.
Device to restrict or lock temperature setting included.
Hysteresis: 0,5K.
Water temperature effect (W): 0,75K.
Response time (Z): 30min.
Maximum differential pressure: 1,5 bar.

891SD



Thermostatic control head with remote sensor

CODE	PACKING
891SD	1/18

Scale values: * to 5.
Adjustable temperature range: 6,5°C, 28°C.
Antifreeze position set: 6,5°C.
Device to restrict or lock temperature setting included.
Hysteresis: 0,5K.
Maximum differential pressure: 1,5 bar.
Length of the capillary pipe: m. 2.

891GA



Tamper-proof cap for thermostatic control heads

CODE	PACKING
891GA	75/300

Available for thermostatic control heads art. 891 and art. 891SD.

891R



Thermostatic control head with oil-filled element

CODE	PACKING
891R	1/62

Scale values: 0 to 5.
Adjustable temperature range: 0°C, 28°C.
Antifreeze position set: 5 °C.
Device to restrict or lock temperature setting included.
Hysteresis: 0,80K.
Water temperature effect (W): 0,80K.
Response time (Z): 30min.
Maximum differential pressure: 1,5 bar.
Energy efficiency class: A.

THERMOSTATIC CONTROL HEAD

Thermostatic control head installation



Convertible valves can be coupled to thermostatic control heads by a simple operation. This conversion into thermostatic valve can be implemented even in a working installation.

1. Remove the handle.



2. Rotate the thermostatic control head to full open (position 5).



3. Draw the control head close to the valve keeping the reference index fully visible, then manually screw the nickel-plated ring all the way to the blocking point. Do not position the control head vertically.



THE THERMOSTATIC VALVE ALLOWS TO GET A CONSTANTLY IDEAL TEMPERATURE IN THE DIFFERENT ROOMS WITH ENERGY SAVINGS UP TO 20%

The thermostatic valve for radiators is the simplest device of automatic control of the ambient temperature. When the temperature exceeds the desired level, the sensitive element dilates and it produces the shutting or the appropriate reduction of the hot water flow, therefore lowering the heat supplied by the radiator. When the ambient temperature decreases, the sensitive element will contract, causing the hot water flow to increase and therefore the radiator increases its heat.

	1	2	3	4	5
6,5°C Min	12°C	16°C	20°C	24°C	28°C Max



294



Straight manual valve

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	10bar/145psi	2940012	12/72
3/4" (DN 20)	10bar/145psi	2940034	8/64

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

296



Straight lockshield

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	10bar/145psi	2960012	12/144
3/4" (DN 20)	10bar/145psi	2960034	8/72

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

394



Angle manual valve

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	10bar/145psi	3940038	12/72
1/2" (DN 15)	10bar/145psi	3940012	12/96
3/4" (DN 20)	10bar/145psi	3940034	8/64

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

396



Angle lockshield

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	10bar/145psi	3960038	12/144
1/2" (DN 15)	10bar/145psi	3960012	12/144
3/4" (DN 20)	10bar/145psi	3960034	8/72

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

To be used with iron piping or, together with an Itap-Fit connector (art. 618 pg.166), with copper, crosslinked polyethylene (PEX) or polybutylene.



618

In the case of use with PEX or polybutylene it is also requested the use of the liner art. 655 (pg. 166).



655



295



Straight manual valve

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	10bar/145psi	2950012	12/72

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

297



Straight lockshield

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	10bar/145psi	2970012	12/132

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

395



Angle manual valve

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	10bar/145psi	3950038	12/96
1/2" (DN 15)	10bar/145psi	3950012	12/96

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

397



Angle lockshield

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	10bar/145psi	3970038	12/144
1/2" (DN 15)	10bar/145psi	3970012	12/144

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

To be used with multilayer, PEX or polybutylene piping, together with 595M or 510 Multi-Fit connectors (pg.158).

Suitable also for copper piping, together with a compression fitting art. 595 (pg.159).

The male thread "G" is equipped with a conical seat and inner diameter mm.16.



595M



510



595



294S



Straight manual valve

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	10bar/145psi	2940012S	12/84
3/4" (DN 20)	10bar/145psi	2940034S	10/60

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

296S



Straight lockshield

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	10bar/145psi	2960038S	12/168
1/2" (DN 15)	10bar/145psi	2960012S	12/144
3/4" (DN 20)	10bar/145psi	2960034S	10/80

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

394S



Angle manual valve

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	10bar/145psi	3940038S	12/96
1/2" (DN 15)	10bar/145psi	3940012S	12/96
3/4" (DN 20)	10bar/145psi	3940034S	10/60

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

396S



Angle lockshield

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	10bar/145psi	3960038S	12/168
1/2" (DN 15)	10bar/145psi	3960012S	12/144
3/4" (DN 20)	10bar/145psi	3960034S	10/80

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

To be used with iron piping or, together with an Itap-Fit connector (art. 618 pg.166), with copper, crosslinked polyethylene (PEX) or polybutylene.



618

In the case of use with PEX or polybutylene it is also requested the use of the liner art. 655 (pg. 166).



655

295S



Straight manual valve

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	10bar/145psi	2950012S	12/96

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

297S



Straight lockshield

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	10bar/145psi	2970038S	12/144
1/2" (DN 15)	10bar/145psi	2970012S	12/132

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

395S



Angle manual valve

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	10bar/145psi	3950038S	12/96
1/2" (DN 15)	10bar/145psi	3950012S	12/96

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

397S



Angle lockshield

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	10bar/145psi	3970038S	12/168
1/2" (DN 15)	10bar/145psi	3970012S	12/144

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

To be used with multilayer, PEX or polybutylene piping, together with 595M or 510 Multi-Fit connectors (pg.158).



595M



510

Suitable also for copper piping, together with a compression fitting art. 595 (pg.159).

The male thread "G" is equipped with a conical seat and inner diameter mm.16.



595



305



Straight two-pipe valve

SIZE	PRESSURE	CODE	PACKING
3/4" (DN 20) EUROKONUS	10bar/145psi	3050034	6/72

Body in nickel-plated brass.
Floor connections.
Radiator connections: 3/4" flat seat.
Pipe connection: 3/4" Eurokonus.
Centres distance: mm.50.
Working temperatures: -10°C, 90°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

315



Angle two-pipe valve

SIZE	PRESSURE	CODE	PACKING
3/4" (DN 20) EUROKONUS	10bar/145psi	3150034	6/72

Body in nickel-plated brass.
Wall connections.
Radiator connections: 3/4" flat seat.
Pipe connection: 3/4" Eurokonus.
Centres distance: mm.50.
Working temperatures: -10°C, 90°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

306



Fittings for panel radiators, with thread 1/2" F

SIZE	CODE	PACKING
1/2" - 3/4"	3060012034	48/672

Body in brass.
Working temperatures: -10°C, 90°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

306K



Adapter for panel radiators, with thread 3/4" M

CODE	PACKING
306K	2/800

Working temperatures: -10°C, 90°C.

286



Plastic rosette

SIZE	CODE	PACKING
12	2860012	25/300
14	2860014	25/300
15	2860015	25/300
16	2860016	25/300
18	2860018	25/300

990

**Electric actuator for zone ball valves**

SIZE	CODE	PACKING
230V x 25sec	99023025	1/17
230V x 50sec	99023050	1/17

Bidirectional electric actuators.
 Supplied with an auxiliary microswitch.
 Case in nylon.
 Power supply voltage: 230V.
 Power consumption: 4VA.
 Minimum and maximum working ambient temperature: -5°C, 70°C.
 Class of protection: IP54.
 Capacity of the auxiliary connection: 2A.
 Operating time: 25 or 50 seconds.
 Angle of rotation: 90°.
 Starting torque:
 - 50" model: 10Nm;
 - 25" model: 5Nm.

991

**Electric actuator for zone ball valves with manual unlocking device**

SIZE	CODE	PACKING
230V x 25sec	99123025	1/17
230V x 50sec	99123050	1/17
24V x 50sec	99102450	1/17

Bidirectional electric actuators.
 Supplied with an auxiliary microswitch.
 Case in nylon.
 Power supply voltage: 230V or 24V.
 Power consumption: 4VA.
 Minimum and maximum working ambient temperature: -5°C, 70°C.
 Class of protection: IP54.
 Capacity of the auxiliary connection: 2A.
 Operating time: 25 or 50 seconds.
 Angle of rotation: 90°.
 Starting torque:
 - 50" model: 10Nm;
 - 25" model: 5Nm.

989



Suitable for 2-way zone ball valves
 art.980 and 981.

**Electric actuator for zone ball valves**

SIZE	CODE	PACKING
230V x 90sec	98923090	1/17

Unidirectional electric actuators.
 Case in Kelon® (Keramic + Nylon).
 Power supply voltage: 230V.
 Power consumption: 4VA.
 Minimum and maximum working ambient temperature: 0°C, 55°C.
 Class of protection: IP44.
 Operating time: 90 seconds.
 Angle of rotation: 90°.
 Starting torque: 10Nm.



980



Suitable for the electric actuators art. 989, 990 and 991.



2-way zone ball valve

SIZE	PRESSURE	CODE	PACKING
3/4" (DN 20)	16bar/232psi	9800034	1/26
1" (DN 25)	16bar/232psi	9800100	1/26
1"1/4 (DN 32)	16bar/232psi	9800114	1/14

Body in nickel-plated brass.
Full flow ball.
Maximum working pressure: 16 bar.
Maximum differential pressure: 10bar.
Minimum and maximum working temperatures: -10°C (with antifreeze solution), 100°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

981



Suitable for the electric actuators art. 989, 990 and 991.



2-way zone ball valve with double union connection

SIZE	PRESSURE	CODE	PACKING
3/4" (DN 20)	16bar/232psi	9810034	1/26
1" (DN 25)	16bar/232psi	9810100	1/26
1"1/4 (DN 32)	16bar/232psi	9810114	1/12

Body in nickel-plated brass.
Full flow ball.
Maximum working pressure: 16 bar.
Maximum differential pressure: 10bar.
Minimum and maximum working temperatures: -10°C (with antifreeze solution), 100°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

982



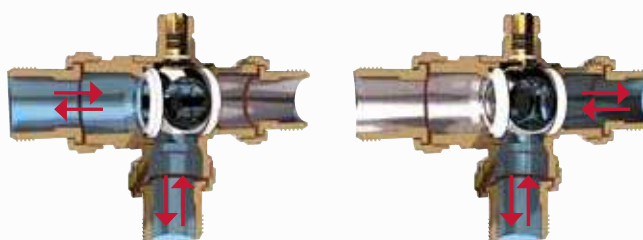
Suitable for the electric actuators art. 990 and 991.



3-way diverter zone ball valve

SIZE	PRESSURE	CODE	PACKING
3/4" (DN 20)	16bar/232psi	9820034	1/14
1" (DN 25)	16bar/232psi	9820100	1/9

Body in nickel-plated brass.
Full flow ball.
Maximum working pressure: 16 bar.
Maximum differential pressure: 10bar.
Minimum and maximum working temperatures: -10°C (with antifreeze solution), 100°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).



984



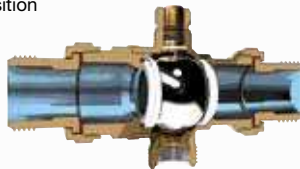
Suitable for the electric actuators art. 990 and 991.



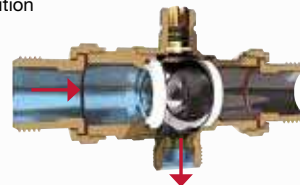
3-way zone ball valve

SIZE	PRESSURE	CODE	PACKING
3/4" (DN 20)	16bar/232psi	9840034	1/14
1" (DN 25)	16bar/232psi	9840100	1/12

Open position



By-pass position



Body in nickel-plated brass.
Full flow ball.
Maximum working pressure: 16 bar.
Maximum differential pressure: 10bar.
Minimum and maximum working temperatures: -10°C (with antifreeze solution), 100°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

986



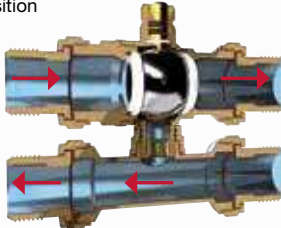
Suitable for the electric actuators art. 990 and 991.



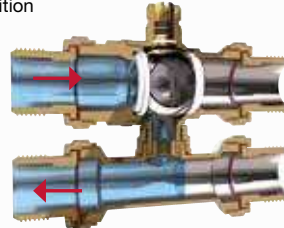
4-way zone ball valve

SIZE	PRESSURE	CODE	PACKING
3/4" (DN 20)	16bar/232psi	9860034	1/9
1" (DN 25)	16bar/232psi	9860100	1/9

Open position



By-pass position



Body in nickel-plated brass.
Full flow ball.
Balanced by-pass.
Adjustable thread centres distance:
-3/4": mm.49 to mm.63;
-1": mm.55 to mm.63
Maximum working pressure: 16 bar.
Maximum differential pressure: 10bar.
Minimum and maximum working temperatures: -10°C (with antifreeze solution), 100°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

988



Suitable for zone valve art. 984 and installable in metal boxes art. 498, together with brass manifolds art. 850-860 and stainless steel manifolds art. 852-862.



By-pass kit for zone ball valves

SIZE	PRESSURE	CODE	PACKING
3/4" (DN 20)	10bar/145psi	9880034	1/9
1" (DN 25)	10bar/145psi	9880100	1/12

By-pass tee in nickel-plated brass.
Minimum and maximum working temperatures: -10°C (with antifreeze solution), 100°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).



450



Modular distribution manifold, 1/2" female outlets

SIZE	PRESSURE	CODE	PACKING
3/4" x 2	10bar/145psi	450003402	12/108
3/4" x 3	10bar/145psi	450003403	8/72
3/4" x 4	10bar/145psi	450003404	6/54
1" x 2	10bar/145psi	450010002	12/84
1" x 3	10bar/145psi	450010003	8/64
1" x 4	10bar/145psi	450010004	6/42

Distribution manifold with female outlets.
Suitable for fittings for copper, PEX, polybutylene or multilayer piping.
Body in forged, nickel-plated brass.
Centres distance: mm.38.
Maximum working temperature: 110°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

455



The male thread "G" is equipped with a conical seat and inner diameter mm.16.



Modular distribution manifold, 1/2" male outlets, conical seat

SIZE	PRESSURE	CODE	PACKING
3/4" x 2	10bar/145psi	455003402	12/108
3/4" x 3	10bar/145psi	455003403	8/72
3/4" x 4	10bar/145psi	455003404	6/54
1" x 2	10bar/145psi	455010002	12/96
1" x 3	10bar/145psi	455010003	8/64
1" x 4	10bar/145psi	455010004	6/48

Distribution manifold with male outlets.
Suitable for fittings for copper, PEX, polybutylene or multilayer piping.
Body in forged, nickel-plated brass.
Centres distance: mm.38.
Maximum working temperature: 110°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

456



The male thread "G" is equipped with a flat seat and inner diameter mm.14,5.



Modular distribution manifold, 1/2" male outlets, flat seat

SIZE	PRESSURE	CODE	PACKING
3/4" x 2	10bar/145psi	456003402	12/108
3/4" x 3	10bar/145psi	456003403	8/72
3/4" x 4	10bar/145psi	456003404	6/54

Distribution manifold with male outlets.
Suitable for fittings for copper, PEX, polybutylene or multilayer piping.
Body in forged brass.
Centres distance: mm.38.
Maximum working temperature: 110°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

465



The male thread "G" is equipped with a conical seat and inner diameter mm.16.



Modular distribution manifold with shut-off valves, 1/2" male outlets, conical seat

SIZE	PRESSURE	CODE	PACKING
3/4" x 2	10bar/145psi	465003402	4/48
3/4" x 3	10bar/145psi	465003403	4/32
3/4" x 4	10bar/145psi	465003404	4/24
1" x 2	10bar/145psi	465010002	4/48
1" x 3	10bar/145psi	465010003	4/32
1" x 4	10bar/145psi	465010004	4/24

Distribution manifold with shut-off valves to the male outlets.
Suitable for fittings for copper, PEX, polybutylene or multilayer piping.
Body in forged, nickel-plated brass.
Centres distance: mm.38.
Maximum working temperature: 110 °C in absence of steam.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

885



The male thread "G" is equipped with a conical seat and inner diameter mm.16.

**Dual distribution manifold, 1/2" male outlets, conical seat**

SIZE	PRESSURE	CODE	PACKING
3/4"x2+2	10bar/145psi	88500340238	1/12
3/4"x4+4	10bar/145psi	88500340438	1/12
3/4"x6+6	10bar/145psi	88500340638	1/8
3/4"x8+8	10bar/145psi	88500340838	1/8
3/4"x10+10	10bar/145psi	88500341038	1/3

Dual distribution manifold with male outlets.
Suitable for fittings for copper, PEX, polybutylene or multilayer piping.
Body in casted, nickel-plated brass.
Maximum working temperature: 110°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Centres distance: mm.38.

499

**Universal plastic box for manifolds**

ITAP plastic box with the kit art. 499CS and 499CC is suitable for the use with manifolds of any manufacturer.

SIZE	CODE	PACKING
350x350x90	499350350	1/1
500x350x90	499500350	1/1
650x350x90	499650350	1/1
800x400x95	499800400	1/1

The cover is equipped with ventilation holes.
Supplied with a removable shield to protect the manifolds from the plastering holes.
Available sizes:
mm.350xmm.350
mm.500xmm.350
mm.650xmm.350
mm.800xmm.400
Usable depth: mm.90, mm.95.

499CS

**Set to fix simple manifolds to the plastic box**

Suitable for simple forged or cast manifolds.

CODE	PACKING
499CS	1/50

Consisting of: 2 long brackets, 2 short brackets, 4 plastic strips.

499CC

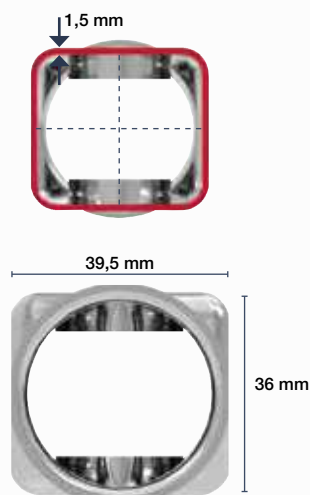
**Set to fix dual manifolds to the plastic box**

Suitable for dual manifolds.

CODE	PACKING
499CC	1/50

Consisting of: 2 brackets for dual manifolds, 2 plastic strips.

STAINLESS STEEL MANIFOLDS



FULL FLOW 1" SIZE

PREMIUM QUALITY MATERIAL: STAINLESS STEEL AISI 304L (1.4301)

MAXIMUM INLET FLOW RATE: 5m³/h

ITAP pre-assembled manifolds are used to distribute heat-transfer fluid inside a system. They can be used in traditional radiator systems or innovative under-floor radiant systems. As ITAP manifolds are made of stainless steel, they are particularly suitable for heating systems. If used in cooling systems, they must be insulated to prevent the formation of condensate on their surface.

The use of ITAP manifolds also allows all of the project parameters to be controlled, providing the perfect balance of each outlet. This avoids any unnecessary waste and ensures an elevated level of thermal comfort.

In the complete version the manifolds are equipped with flow rate regulation valves (flow meters), with cut-off valves set-up for electro-thermal actuator and with drain and air vent units. As an alternative to flow meters, it is possible to request the installation of regulation lockshields.

Thanks to their increased cross-section, the flow and return bars allow a higher flow rate.



SPECIFICATIONS OF PRE-ASSEMBLED MANIFOLDS

Required fluid	water (maximum admissible percentage of glycol: 30%)
Maximum operating pressure with installed flow meters	6 bar
Maximum operating pressure with installed lockshields	10 bar
Maximum operating temperature with installed flow meters	70°C
Maximum operating temperature with installed lockshields	80°C
Main ISO 228 connections	1"
2 to 13 outlets	3/4" EUROKONUS
Outlet centre-distance	50 mm
Flow meter regulation	0-5 l/m
Flow meter precision	+/- 10%

852

**Distribution manifold in stainless steel, centres distance mm.50**

Manifolds in stainless steel AISI 304L with female outlets, suitable for fittings for copper, PEX, polybutylene or multilayer piping.

SIZE	PRESSURE	CODE	PACKING
1" x 2	10bar/145psi	85201000250	1/70
1" x 3	10bar/145psi	85201000350	1/55
1" x 4	10bar/145psi	85201000450	1/45
1" x 5	10bar/145psi	85201000550	1/30
1" x 6	10bar/145psi	85201000650	1/30
1" x 7	10bar/145psi	85201000750	1/12
1" x 8	10bar/145psi	85201000850	1/12
1" x 9	10bar/145psi	85201000950	1/12
1" x 10	10bar/145psi	85201001050	1/12
1" x 11	10bar/145psi	85201001150	1/12
1" x 12	10bar/145psi	85201001250	1/12
1" x 13	10bar/145psi	85201001350	1/12

Maximum working temperature: 110°C.

Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

Size of the outlets: 1/2" F.

862

**Distribution manifold in stainless steel, bilateral outlets, centres distance mm.50**

Manifolds in stainless steel AISI 304L with female outlets, suitable for fittings for copper, PEX, polybutylene or multilayer piping.

SIZE	PRESSURE	CODE	PACKING
1" x 2	10bar/145psi	86201000250	1/70
1" x 3	10bar/145psi	86201000350	1/55
1" x 4	10bar/145psi	86201000450	1/45
1" x 5	10bar/145psi	86201000550	1/30
1" x 6	10bar/145psi	86201000650	1/30
1" x 7	10bar/145psi	86201000750	1/12
1" x 8	10bar/145psi	86201000850	1/12
1" x 9	10bar/145psi	86201000950	1/12
1" x 10	10bar/145psi	86201001050	1/12
1" x 11	10bar/145psi	86201001150	1/12
1" x 12	10bar/145psi	86201001250	1/12
1" x 13	10bar/145psi	86201001350	1/12

Maximum working temperature: 110°C.

Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

Size of the outlets: 1/2" F.



907C



In case of use of electric actuators Art. 891M and 891MR, it is suggested to use the off-centre by-pass kit Art. 860BY.
ATTENTION: manifolds will be supplied mounted on the brackets; accessories will be supplied separately, inside the same box.



Complete pre-assembled manifold, with flow meters

SIZE	PRESSURE	CODE	PACKING
1"x3/4"x2	6bar/87psi	9070010002034C	1/1
1"x3/4"x3	6bar/87psi	9070010003034C	1/1
1"x3/4"x4	6bar/87psi	9070010004034C	1/1
1"x3/4"x5	6bar/87psi	9070010005034C	1/1
1"x3/4"x6	6bar/87psi	9070010006034C	1/1
1"x3/4"x7	6bar/87psi	9070010007034C	1/1
1"x3/4"x8	6bar/87psi	9070010008034C	1/1
1"x3/4"x9	6bar/87psi	9070010009034C	1/1
1"x3/4"x10	6bar/87psi	9070010010034C	1/1
1"x3/4"x11	6bar/87psi	9070010011034C	1/1
1"x3/4"x12	6bar/87psi	9070010012034C	1/1
1"x3/4"x13	6bar/87psi	9070010013034C	1/1

Consisting of:
 - 1 return manifold in stainless steel AISI 304L with shut-off valves preset for electrothermal actuators
 - 1 flow manifold in stainless steel AISI 304L with flow meters
 - 2 complete metal brackets
 - 2 shut-off ball valves with thermometers
 - 2 end pieces with air vent valve and drain cock
 - Available on demand with deeper mounting brackets art. 498ST without extra-charge
 Available sizes: 1".
 Maximum working pressure: 6 bar (10 bar for installation test).
 Maximum working temperature: 70°C.
 Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
 Outlets: from 2 to 13, 3/4" Eurokonus.
 Outlet centre distance: mm.50.

912C



In case of use of electric actuators Art. 891M and 891MR, it is suggested to use the off-centre by-pass kit Art. 860BY.
ATTENTION: manifolds will be supplied mounted on the brackets; accessories will be supplied separately, inside the same box.



Complete pre-assembled manifold, with lockshields

SIZE	PRESSURE	CODE	PACKING
1"x3/4"x2	10bar/145psi	9120010002034C	1/1
1"x3/4"x3	10bar/145psi	9120010003034C	1/1
1"x3/4"x4	10bar/145psi	9120010004034C	1/1
1"x3/4"x5	10bar/145psi	9120010005034C	1/1
1"x3/4"x6	10bar/145psi	9120010006034C	1/1
1"x3/4"x7	10bar/145psi	9120010007034C	1/1
1"x3/4"x8	10bar/145psi	9120010008034C	1/1
1"x3/4"x9	10bar/145psi	9120010009034C	1/1
1"x3/4"x10	10bar/145psi	9120010010034C	1/1
1"x3/4"x11	10bar/145psi	9120010011034C	1/1
1"x3/4"x12	10bar/145psi	9120010012034C	1/1
1"x3/4"x13	10bar/145psi	9120010013034C	1/1

Consisting of:
 - 1 return manifold in stainless steel AISI 304L with shut-off valves preset for electrothermal actuators
 - 1 flow manifold in stainless steel AISI 304L with lockshields
 - 2 complete metal brackets
 - 2 shut-off ball valves with thermometers
 - 2 end pieces with air vent valve and drain cock
 - Available on demand with deeper mounting brackets art. 498ST without extra-charge
 Available sizes: 1".
 Maximum working pressure: 10 bar.
 Maximum working temperature: 80°C.
 Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
 Outlets: from 2 to 13, 3/4" Eurokonus.
 Outlet centre distance: mm.50.

100% TESTED

917C



In case of use of electric actuators Art. 891M and 891MR, it is suggested to use the off-centre by-pass kit Art. 860BY.

ATTENTION: manifolds will be supplied mounted on the brackets; accessories will be supplied separately, inside the same box.



Pre-assembled manifold with flow meters

SIZE	PRESSURE	CODE	PACKING
1"x3/4"x2	6bar/87psi	9170010002034C	1/1
1"x3/4"x3	6bar/87psi	9170010003034C	1/1
1"x3/4"x4	6bar/87psi	9170010004034C	1/1
1"x3/4"x5	6bar/87psi	9170010005034C	1/1
1"x3/4"x6	6bar/87psi	9170010006034C	1/1
1"x3/4"x7	6bar/87psi	9170010007034C	1/1
1"x3/4"x8	6bar/87psi	9170010008034C	1/1
1"x3/4"x9	6bar/87psi	9170010009034C	1/1
1"x3/4"x10	6bar/87psi	9170010010034C	1/1
1"x3/4"x11	6bar/87psi	9170010011034C	1/1
1"x3/4"x12	6bar/87psi	9170010012034C	1/1
1"x3/4"x13	6bar/87psi	9170010013034C	1/1

Consisting of:

- 1 return manifold in stainless steel AISI 304L with shut-off valves preset for electrothermal actuators

- 1 flow manifold in stainless steel AISI 304L with flow meters

- 2 complete metal brackets

- Available on demand with deeper mounting brackets art. 498ST without extra-charge

Available sizes: 1".

Maximum working pressure: 6 bar (10 bar for installation test).

Maximum working temperature: 70°C

Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

Outlets: from 2 to 13, 3/4" Eurokonus.

Outlet centre distance: mm.50.

917CDE



In case of use of electric actuators Art. 891M and 891MR, it is suggested to use the off-centre by-pass kit Art. 860BY.

ATTENTION: manifolds will be supplied mounted on the brackets.



Pre-assembled manifold with flow meters, air vent valve and drain cock

SIZE	PRESSURE	CODE	PACKING
1"x3/4"x2	6bar/87psi	9170010002034CDE	1/1
1"x3/4"x3	6bar/87psi	9170010003034CDE	1/1
1"x3/4"x4	6bar/87psi	9170010004034CDE	1/1
1"x3/4"x5	6bar/87psi	9170010005034CDE	1/1
1"x3/4"x6	6bar/87psi	9170010006034CDE	1/1
1"x3/4"x7	6bar/87psi	9170010007034CDE	1/1
1"x3/4"x8	6bar/87psi	9170010008034CDE	1/1
1"x3/4"x9	6bar/87psi	9170010009034CDE	1/1
1"x3/4"x10	6bar/87psi	9170010010034CDE	1/1
1"x3/4"x11	6bar/87psi	9170010011034CDE	1/1
1"x3/4"x12	6bar/87psi	9170010012034CDE	1/1

Consisting of:

- 1 return manifold in stainless steel AISI 304L with shut-off valves preset for electrothermal actuators

- 1 flow manifold in stainless steel AISI 304L with flow meters

- 2 complete metal brackets

- 2 drain cocks

- 2 air vent valves

- Available on demand with deeper mounting brackets art. 498ST without extra-charge

Available sizes: 1".

Maximum working pressure: 6 bar (10 bar for installation test).

Maximum working temperature: 70°C

Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

Outlets: from 2 to 12, 3/4" Eurokonus.

Outlet centre distance: mm.50.

100% TESTED

918C



In case of use of electric actuators Art. 891M and 891MR, it is suggested to use the off-centre by-pass kit Art. 860BY.
ATTENTION: manifolds will be supplied mounted on the brackets.



Pre-assembled manifold with flow meters, air vent valve and drain cock

SIZE	PRESSURE	CODE	PACKING
1"x3/4"x2	6bar/87psi	9180010002034C	1/1
1"x3/4"x3	6bar/87psi	9180010003034C	1/1
1"x3/4"x4	6bar/87psi	9180010004034C	1/1
1"x3/4"x5	6bar/87psi	9180010005034C	1/1
1"x3/4"x6	6bar/87psi	9180010006034C	1/1
1"x3/4"x7	6bar/87psi	9180010007034C	1/1
1"x3/4"x8	6bar/87psi	9180010008034C	1/1
1"x3/4"x9	6bar/87psi	9180010009034C	1/1
1"x3/4"x10	6bar/87psi	9180010010034C	1/1
1"x3/4"x11	6bar/87psi	9180010011034C	1/1
1"x3/4"x12	6bar/87psi	9180010012034C	1/1
1"x3/4"x13	6bar/87psi	9180010013034C	1/1

Consisting of:

- 1 return manifold in stainless steel AISI 304L with shut-off valves preset for electrothermal actuators
 - 1 flow manifold in stainless steel AISI 304L with flow meters
 - 2 adjustable end pieces with drain valve and manual air vent valve
 - 2 complete metal brackets
 - Available on demand with deeper mounting brackets art. 498ST without extra-charge
- Available sizes: 1".
Maximum working pressure: 6 bar (10 bar for installation test).
Maximum working temperature: 70°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Outlets: from 2 to 13, 3/4" Eurokonus.
Outlet centre distance: mm.50.

922C



In case of use of electric actuators Art. 891M and 891MR, it is suggested to use the off-centre by-pass kit Art. 860BY.
ATTENTION: manifolds will be supplied mounted on the brackets.



Pre-assembled manifold with lockshields

SIZE	PRESSURE	CODE	PACKING
1"x3/4"x2	10bar/145psi	9220010002034C	1/1
1"x3/4"x3	10bar/145psi	9220010003034C	1/1
1"x3/4"x4	10bar/145psi	9220010004034C	1/1
1"x3/4"x5	10bar/145psi	9220010005034C	1/1
1"x3/4"x6	10bar/145psi	9220010006034C	1/1
1"x3/4"x7	10bar/145psi	9220010007034C	1/1
1"x3/4"x8	10bar/145psi	9220010008034C	1/1
1"x3/4"x9	10bar/145psi	9220010009034C	1/1
1"x3/4"x10	10bar/145psi	9220010010034C	1/1
1"x3/4"x11	10bar/145psi	9220010011034C	1/1
1"x3/4"x12	10bar/145psi	9220010012034C	1/1
1"x3/4"x13	10bar/145psi	9220010013034C	1/1

Consisting of:

- 1 return manifold in stainless steel AISI 304L with shut-off valves preset for electrothermal actuators
 - 1 flow manifold in stainless steel AISI 304L with lockshields
 - 2 complete metal brackets
 - Available on demand with deeper mounting brackets art. 498ST without extra-charge
- Available sizes: 1".
Maximum working pressure: 10 bar.
Maximum working temperature: 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Outlets: from 2 to 13, 3/4" Eurokonus.
Outlet centre distance: mm.50.

100% TESTED

922MO



ATTENTION: manifolds will be supplied mounted on the brackets.



Pre-assembled manifold with air-vent valves

SIZE	PRESSURE	CODE	PACKING
1"x3/4"x2	10bar/145psi	9220010002034MO	1/1
1"x3/4"x3	10bar/145psi	9220010003034MO	1/1
1"x3/4"x4	10bar/145psi	9220010004034MO	1/1
1"x3/4"x5	10bar/145psi	9220010005034MO	1/1
1"x3/4"x6	10bar/145psi	9220010006034MO	1/1
1"x3/4"x7	10bar/145psi	9220010007034MO	1/1
1"x3/4"x8	10bar/145psi	9220010008034MO	1/1
1"x3/4"x9	10bar/145psi	9220010009034MO	1/1
1"x3/4"x10	10bar/145psi	9220010010034MO	1/1
1"x3/4"x11	10bar/145psi	9220010011034MO	1/1
1"x3/4"x12	10bar/145psi	9220010012034MO	1/1

Consisting of:

- 1 return manifold in stainless steel AISI 304L with air vent valve
 - 1 flow manifold in stainless steel AISI 304L with air vent valve
 - 2 complete metal brackets
 - Available on demand with deeper mounting brackets art. 498ST without extra-charge
- Available sizes: 1".
Maximum working pressure: 10 bar.
Maximum working temperature: 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Outlets: from 2 to 12, 3/4" Eurokonus.
Outlet centre distance: mm.50.

917CDEB



ATTENTION: manifolds will be supplied mounted on the brackets.



Pre-assembled manifold with flow meters, air vent valve and drain cock – Automatic flow control

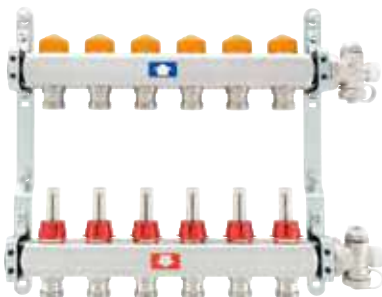
SIZE	PRESSURE	CODE	PACKING
1"x3/4"x2	6bar/87psi	9170010002034CDEB	1/1
1"x3/4"x3	6bar/87psi	9170010003034CDEB	1/1
1"x3/4"x4	6bar/87psi	9170010004034CDEB	1/1
1"x3/4"x5	6bar/87psi	9170010005034CDEB	1/1
1"x3/4"x6	6bar/87psi	9170010006034CDEB	1/1
1"x3/4"x7	6bar/87psi	9170010007034CDEB	1/1
1"x3/4"x8	6bar/87psi	9170010008034CDEB	1/1
1"x3/4"x9	6bar/87psi	9170010009034CDEB	1/1
1"x3/4"x10	6bar/87psi	9170010010034CDEB	1/1
1"x3/4"x11	6bar/87psi	9170010011034CDEB	1/1
1"x3/4"x12	6bar/87psi	9170010012034CDEB	1/1

Consisting of:

- 1 stainless steel AISI 304L return manifold with thermostatic insert Heimeier Eclipse®
 - 1 flow manifold in stainless steel AISI 304L with flow meters
 - 2 complete metal brackets
 - 2 drain cocks
 - 2 air vent valves
 - Available on demand with deeper mounting brackets art. 498ST without extra-charge
- Available sizes: 1".
Maximum operating pressure: 6 bar.
Maximum working temperature: 70°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Outlets: from 2 to 12, 3/4" Eurokonus.
Outlet centre distance: mm.50.

100% TESTED

918CB



ATTENTION: manifolds will be supplied mounted on the brackets.



Pre-assembled manifold with flow meters, air vent valve and drain cock – Automatic flow control

SIZE	PRESSURE	CODE	PACKING
1"x3/4"x2	6bar/87psi	9180010002034CB	1/1
1"x3/4"x3	6bar/87psi	9180010003034CB	1/1
1"x3/4"x4	6bar/87psi	9180010004034CB	1/1
1"x3/4"x5	6bar/87psi	9180010005034CB	1/1
1"x3/4"x6	6bar/87psi	9180010006034CB	1/1
1"x3/4"x7	6bar/87psi	9180010007034CB	1/1
1"x3/4"x8	6bar/87psi	9180010008034CB	1/1
1"x3/4"x9	6bar/87psi	9180010009034CB	1/1
1"x3/4"x10	6bar/87psi	9180010010034CB	1/1
1"x3/4"x11	6bar/87psi	9180010011034CB	1/1
1"x3/4"x12	6bar/87psi	9180010012034CB	1/1
1"x3/4"x13	6bar/87psi	9180010013034CB	1/1

Consisting of:

- 1 stainless steel AISI 304L return manifold with thermostatic insert Heimeier Eclipse®
- 1 flow manifold in stainless steel AISI 304L with flow meters
- 2 adjustable end pieces with drain valve and manual air vent valve
- 2 complete metal brackets
- Available on demand with deeper mounting brackets art. 498ST without extra-charge

Available sizes: 1".

Maximum operating pressure: 6 bar.

Maximum working temperature: 70°C

Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

Outlets: from 2 to 13, 3/4" Eurokonus.

Outlet centre distance: mm.50.

927



Single manifold with lockshields

SIZE	PRESSURE	CODE	PACKING
1"x3/4"x2	10bar/145psi	9270010002034	1/12
1"x3/4"x3	10bar/145psi	9270010003034	1/12
1"x3/4"x4	10bar/145psi	9270010004034	1/8
1"x3/4"x5	10bar/145psi	9270010005034	1/8
1"x3/4"x6	10bar/145psi	9270010006034	1/8
1"x3/4"x7	10bar/145psi	9270010007034	1/3
1"x3/4"x8	10bar/145psi	9270010008034	1/2
1"x3/4"x9	10bar/145psi	9270010009034	1/2
1"x3/4"x10	10bar/145psi	9270010010034	1/2
1"x3/4"x11	10bar/145psi	9270010011034	1/2
1"x3/4"x12	10bar/145psi	9270010012034	1/2
1"x3/4"x13	10bar/145psi	9270010013034	1/2

Distribution manifold in stainless steel AISI 304L.

Available sizes: 1".

Maximum working pressure: 10 bar.

Maximum working temperature: 80°C.

Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

Outlets: from 2 to 13, 3/4" Eurokonus.

Outlet centre distance: mm.50.

100% TESTED

932

Single manifold with flow meters



SIZE	PRESSURE	CODE	PACKING
1"x3/4"x2	6bar/87psi	9320010002034	1/12
1"x3/4"x3	6bar/87psi	9320010003034	1/12
1"x3/4"x4	6bar/87psi	9320010004034	1/8
1"x3/4"x5	6bar/87psi	9320010005034	1/8
1"x3/4"x6	6bar/87psi	9320010006034	1/8
1"x3/4"x7	6bar/87psi	9320010007034	1/3
1"x3/4"x8	6bar/87psi	9320010008034	1/2
1"x3/4"x9	6bar/87psi	9320010009034	1/2
1"x3/4"x10	6bar/87psi	9320010010034	1/2
1"x3/4"x11	6bar/87psi	9320010011034	1/2
1"x3/4"x12	6bar/87psi	9320010012034	1/2
1"x3/4"x13	6bar/87psi	9320010013034	1/2

Distribution manifold in stainless steel AISI 304L.
 Available sizes: 1".
 Maximum working pressure: 6 bar (10 bar for installation test).
 Maximum working temperature: 70°C.
 Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
 Outlets: from 2 to 13, 3/4" Eurokonus.
 Outlet centre distance: mm.50.

937

Single manifold, with shut-off valves preset for electrothermal actuators - with handles



Shut-off valves preset for electrothermal actuators.



SIZE	PRESSURE	CODE	PACKING
1"x3/4"x2	10bar/145psi	9370010002034	1/12
1"x3/4"x3	10bar/145psi	9370010003034	1/12
1"x3/4"x4	10bar/145psi	9370010004034	1/8
1"x3/4"x5	10bar/145psi	9370010005034	1/8
1"x3/4"x6	10bar/145psi	9370010006034	1/8
1"x3/4"x7	10bar/145psi	9370010007034	1/3
1"x3/4"x8	10bar/145psi	9370010008034	1/2
1"x3/4"x9	10bar/145psi	9370010009034	1/2
1"x3/4"x10	10bar/145psi	9370010010034	1/2
1"x3/4"x11	10bar/145psi	9370010011034	1/2
1"x3/4"x12	10bar/145psi	9370010012034	1/2
1"x3/4"x13	10bar/145psi	9370010013034	1/2

Distribution manifold in stainless steel AISI 304L.
 Available sizes: 1".
 Maximum working pressure: 10 bar.
 Maximum working temperature: 80°C.
 Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
 Outlets: from 2 to 13, 3/4" Eurokonus.
 Outlet centre distance: mm.50.

100% TESTED

937M



Equipped with manual shut-off valves.

Single manifold, with manual shut-off valves with handles

SIZE	PRESSURE	CODE	PACKING
1"x3/4"x2	10bar/145psi	9370010002034M	1/12
1"x3/4"x3	10bar/145psi	9370010003034M	1/12
1"x3/4"x4	10bar/145psi	9370010004034M	1/8
1"x3/4"x5	10bar/145psi	9370010005034M	1/8
1"x3/4"x6	10bar/145psi	9370010006034M	1/8
1"x3/4"x7	10bar/145psi	9370010007034M	1/3
1"x3/4"x8	10bar/145psi	9370010008034M	1/2

Distribution manifold in stainless steel AISI 304L.
Available sizes: 1".
Maximum working pressure: 10 bar.
Maximum working temperature: 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Outlets: from 2 to 8, 3/4" Eurokonus.
Outlet centre distance: mm.50.

942



Shut-off valves preset for electrothermal actuators.



Single manifold with shut-off valves preset for electrothermal actuators - with caps

SIZE	PRESSURE	CODE	PACKING
1"x3/4"x2	10bar/145psi	9420010002034	1/12
1"x3/4"x3	10bar/145psi	9420010003034	1/12
1"x3/4"x4	10bar/145psi	9420010004034	1/8
1"x3/4"x5	10bar/145psi	9420010005034	1/8
1"x3/4"x6	10bar/145psi	9420010006034	1/8
1"x3/4"x7	10bar/145psi	9420010007034	1/3
1"x3/4"x8	10bar/145psi	9420010008034	1/2
1"x3/4"x9	10bar/145psi	9420010009034	1/2
1"x3/4"x10	10bar/145psi	9420010010034	1/2
1"x3/4"x11	10bar/145psi	9420010011034	1/2
1"x3/4"x12	10bar/145psi	9420010012034	1/2
1"x3/4"x13	10bar/145psi	9420010013034	1/2

Distribution manifold in stainless steel AISI 304L.
Available sizes: 1".
Maximum working pressure: 10 bar.
Maximum working temperature: 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Outlets: from 2 to 13, 3/4" Eurokonus.
Outlet centre distance: mm.50.

947



Single manifold, with 3/4" Eurokonus outlets

SIZE	PRESSURE	CODE	PACKING
1"x3/4"x2	10bar/145psi	9470010002034	2/24
1"x3/4"x3	10bar/145psi	9470010003034	2/24
1"x3/4"x4	10bar/145psi	9470010004034	2/16
1"x3/4"x5	10bar/145psi	9470010005034	2/16
1"x3/4"x6	10bar/145psi	9470010006034	2/16
1"x3/4"x7	10bar/145psi	9470010007034	2/6
1"x3/4"x8	10bar/145psi	9470010008034	2/4
1"x3/4"x9	10bar/145psi	9470010009034	2/4
1"x3/4"x10	10bar/145psi	9470010010034	2/4
1"x3/4"x11	10bar/145psi	9470010011034	2/4
1"x3/4"x12	10bar/145psi	9470010012034	2/4
1"x3/4"x13	10bar/145psi	9470010013034	2/4

Distribution manifold in stainless steel AISI 304L.
Available sizes: 1".
Maximum working pressure: 10 bar.
Maximum working temperature: 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Outlets: from 2 to 13, 3/4" Eurokonus.
Outlet centre distance: mm.50.

498

**Metal box for manifolds**

Complete with basement and support for floor installation.
Equipped with plaster protection.

SIZE	CODE	PACKING
500x500x(80-130)	498500500	1/1
600x500x(80-130)	489600500	1/1
700x500x(80-130)	498700500	1/1
800x500x(80-130)	498800500	1/1
900x500x(80-130)	498900500	1/1
1000x500x(80-130)	4981000500	1/1
1100x500x(80-130)	4981100500	1/1

Enclosure, telescopic door frame and door in zincplated steel.
Painted door.
Adjustable depth: from mm. 80 to mm. 130.
Minimum depth for Itap manifolds installation: mm. 90.
Adjustable height: from mm. 600 to mm. 700.

498R

**Metal box for manifolds - compact model**

Complete with basement and support for floor installation.
Equipped with plaster protection.

SIZE	CODE	PACKING
500x450x(90-130)	498500450	1/1
600x450x(90-130)	498600450	1/1
700x450x(90-130)	498700450	1/1
850x450x(90-130)	498850450	1/1
1000x450x(90-130)	4981000450	1/1
1100x450x(90-130)	4981100450	1/1

Zincplated steel enclosure, telescopic, door frame and door.
The telescopic door frame and the door are painted.
Adjustable depth: mm. 90 to mm. 130.
Minimum depth for Itap manifolds installation: mm. 90.
Overall height: mm. 575.

498ST

**Mounting brackets in steel for metal boxes art. 498 and 498R**

The set includes a pair of brackets with screws and fixings.
For installation in box art. 498 - 498R:

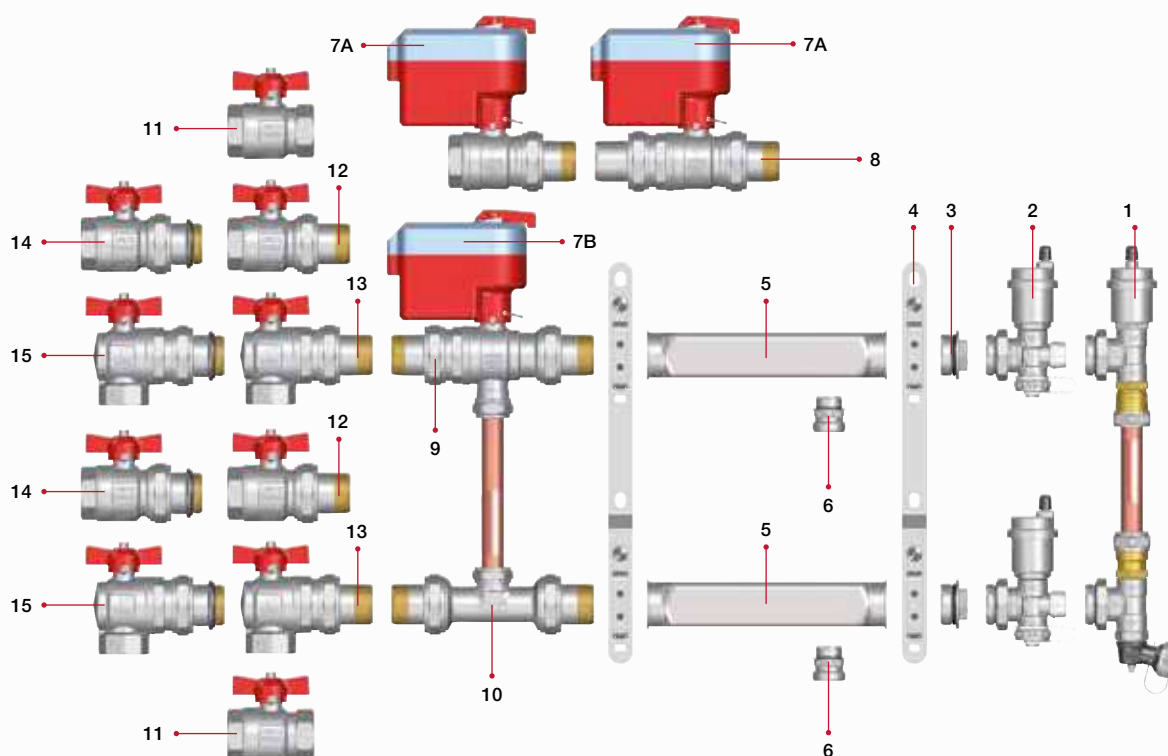
SIZE	CODE	PACKING
3/4"	498ST034K	1/20
1"	498ST100K	1/20
1"1/4	498ST114K	1/20

SIZE	CODE	PACKING
1"	498ST100KM	1/20

SIZE	CODE	PACKING
1"	498ST100KMB	1/20

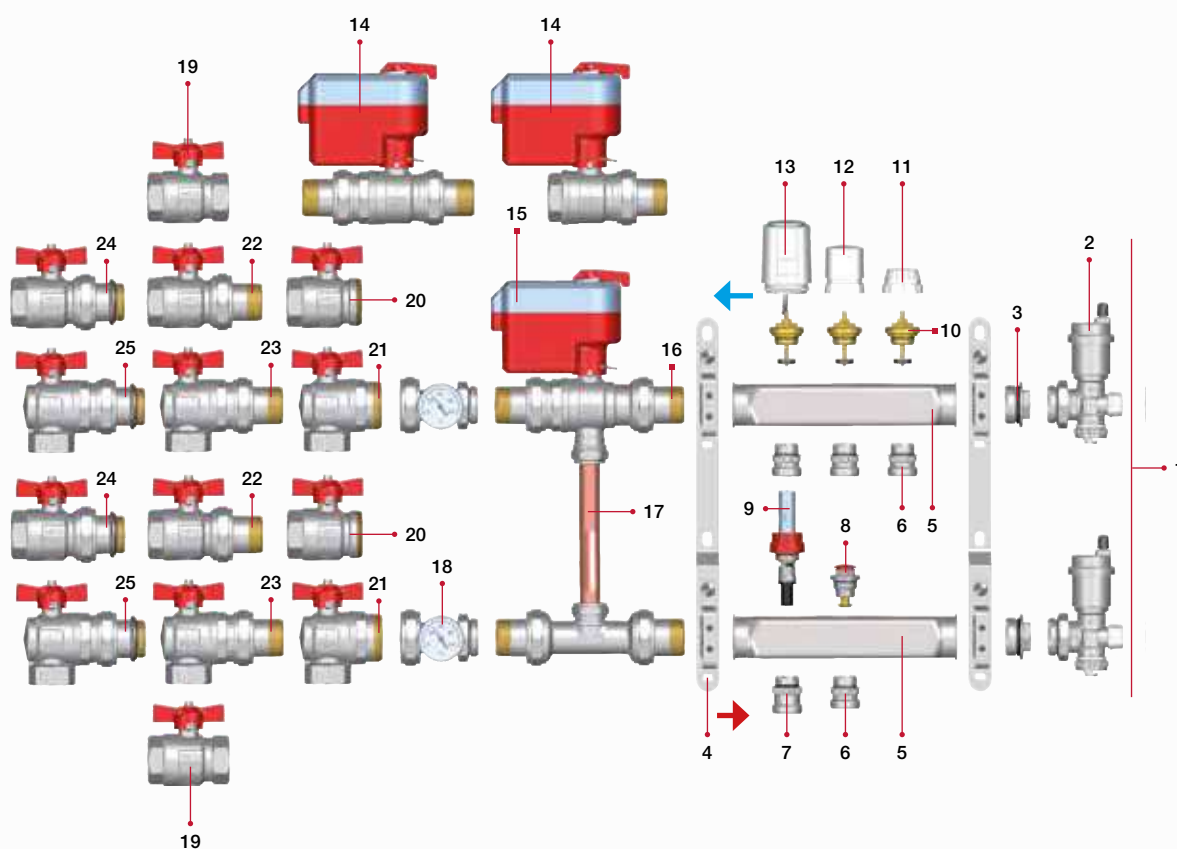
- 498STK: Standard version: centres distance mm. 200, offset: 12mm. Suitable for outlets pipe up to 20mm.
- 498STKM: Deeper version: centres distance mm. 200, offset: 30mm. Suitable for outlets pipe up to 25mm.
- 498STKMB: Deeper version: centres distance mm. 211, offset: 30mm. Suitable for outlets pipe up to 25mm.

ACCESSORIES CHART ART. 852 MANIFOLDS IN METAL BOXES



POS	ART	DESCRIPTION	CHP	PG
1	860BY	Off-centre by-pass kit	5	126
2	489AR	Adjustable end piece with drain valve and automatic air vent valve	5	128
3	494	Male end cap with o-ring	5	134
4	498ST	Mounting brackets in steel for metal boxes	5	111
5	852	Stainless steel manifold	5	103
6	518N	Male/male adapter	5	127
7A	990 - 991 989	Electric actuator for zone ball valves Electric actuator for 2-way zone ball valves	5	97
7B	990 - 991	Electric actuator for zone ball valves	5	97
8	980 - 981	2-way zone ball valve - 2-way zone ball valve MM	5	98
9	984	3-way zone ball valve	5	99
10	988	By-pass kit for zone valves	5	99
11	092	Ball valve, T handle	2	31
12	098	Ball valve for manifold	2	32
13	298	Angle ball valve for manifold	2	33
14	098S	Ball valve for manifold with o-ring on the union	2	32
15	298S	Angle ball valve for manifold with o-ring on the union	2	33

ACCESSORIES CHART ART. 862 MANIFOLDS IN METAL BOXES



POS	ART	DESCRIPTION	CHP	PG
1	860BY	Off-centre by-pass kit	5	138
2	489AR	Adjustable end piece with drain valve and automatic air vent valve	5	140
3	494	Male end cap	5	146
4	498ST	Mounting brackets in steel for metal boxes	5	123
5	862	Stainless steel manifold	5	115
6	518N	Male/male adapter 1"	5	139
7	471N	Adapter for flow meters - 1"	5	139
8	Vitonde	Lockshield	-	-
9	471FL	Flow meter	5	139
10	Vitonvat	Convertible control spindle	-	-
11	894CPN	Protection cap	-	-
12	894VM	Handle	-	-
13	891M - 891MR -891MR	Electrothermal actuator	5	138
14	990 - 991 989	Electric actuator for zone ball valves - Electric actuator for 2-way zone ball valves	5	107
15	990 - 991	Electric actuator for zone ball valves	5	107
16	984	3-way zone ball valve	5	108
17	988	By-pass kit for zone valves	5	109
18	492BC	Thermometer union complete with thermometer	5	145
19	092	Ball valve, T handle	2	43
20	098SDC	Ball valve for manifolds without union	2	44
21	298SDC	Angle ball valve for manifolds without union	2	45
22	098	Ball valve for manifolds	2	44
23	298	Angle ball valve for manifolds	2	45
24	098S	Ball valve for manifolds with o-ring on the union	2	44
25	298S	Angle ball valve for manifolds with o-ring on the union	2	45

850/50



Available on demand

Centres distance: mm.50.



Nickel-plated distribution manifold made out of brass bar

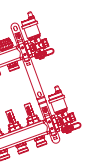
Nickel-plated distribution manifold made out of profiled brass bars with female outlets, suitable for fittings for copper, PEX, polybutylene or multilayer piping.

SIZE	PRESSURE	CODE	PACKING
3/4" x 2	10bar/145psi	85000340250	1/69
3/4" x 3	10bar/145psi	85000340350	1/48
3/4" x 4	10bar/145psi	85000340450	1/30
3/4" x 5	10bar/145psi	85000340550	1/30
3/4" x 6	10bar/145psi	85000340650	1/21
3/4" x 7	10bar/145psi	85000340750	1/21
3/4" x 8	10bar/145psi	85000340850	1/15
3/4" x 9	10bar/145psi	85000340950	1/15
3/4" x 10	10bar/145psi	85000341050	1/15

SIZE	PRESSURE	CODE	PACKING
1" x 2	10bar/145psi	85001000250	1/51
1" x 3	10bar/145psi	85001000350	1/39
1" x 4	10bar/145psi	85001000450	1/24
1" x 5	10bar/145psi	85001000550	1/24
1" x 6	10bar/145psi	85001000650	1/24
1" x 7	10bar/145psi	85001000750	1/12
1" x 8	10bar/145psi	85001000850	1/12
1" x 9	10bar/145psi	85001000950	1/12
1" x 10	10bar/145psi	85001001050	1/12
1" x 11	10bar/145psi	85001001150	1/12
1" x 12	10bar/145psi	85001001250	1/12

SIZE	PRESSURE	CODE	PACKING
1"1/4 x 2	10bar/145psi	85001140250	1/26
1"1/4 x 3	10bar/145psi	85001140350	1/20
1"1/4 x 4	10bar/145psi	85001140450	1/12
1"1/4 x 5	10bar/145psi	85001140550	1/8
1"1/4 x 6	10bar/145psi	85001140650	1/12
1"1/4 x 7	10bar/145psi	85001140750	1/12
1"1/4 x 8	10bar/145psi	85001140850	1/6
1"1/4 x 9	10bar/145psi	85001140950	1/6
1"1/4 x 10	10bar/145psi	85001141050	1/6
1"1/4 x 11	10bar/145psi	85001141150	1/6
1"1/4 x 12	10bar/145psi	85001141250	1/6

Maximum working temperature: 110°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Size of the outlets: 1/2" F.



850/38



Available on demand

Centres distance: mm.38.

**Nickel-plated distribution manifold made out of brass bar**

Nickel-plated distribution manifold made out of profiled brass bars with female outlets, suitable for fittings for copper, PEX, polybutylene or multilayer piping.

SIZE	PRESSURE	CODE	PACKING
3/4" x 2	10bar/145psi	85000340238	1/81
3/4" x 3	10bar/145psi	85000340338	1/48
3/4" x 4	10bar/145psi	85000340438	1/45
3/4" x 5	10bar/145psi	85000340538	1/30
3/4" x 6	10bar/145psi	85000340638	1/30
3/4" x 7	10bar/145psi	85000340738	1/21
3/4" x 8	10bar/145psi	85000340838	1/15
3/4" x 9	10bar/145psi	85000340938	1/15
3/4" x 10	10bar/145psi	85000341038	1/15

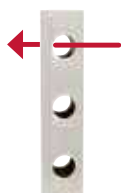
SIZE	PRESSURE	CODE	PACKING
1" x 2	10bar/145psi	85001000238	1/60
1" x 3	10bar/145psi	85001000338	1/39
1" x 4	10bar/145psi	85001000438	1/27
1" x 5	10bar/145psi	85001000538	1/24
1" x 6	10bar/145psi	85001000638	1/30
1" x 7	10bar/145psi	85001000738	1/24
1" x 8	10bar/145psi	85001000838	1/21
1" x 9	10bar/145psi	85001000938	1/12
1" x 10	10bar/145psi	85001001038	1/12
1" x 11	10bar/145psi	85001001138	1/12
1" x 12	10bar/145psi	85001001238	1/12

Maximum working temperature: 110°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Size of the outlets: 1/2" F.

860



Available on demand



Centres distance: mm.50.
Bilateral outlets.

**Nickel-plated distribution manifold made out of brass bar**

Nickel-plated distribution manifold made out of profiled brass bars with female outlets, suitable for fittings for copper, PEX, polybutylene or multilayer piping.

SIZE	PRESSURE	CODE	PACKING
1" x 2	10bar/145psi	86001000250	1/51
1" x 3	10bar/145psi	86001000350	1/39
1" x 4	10bar/145psi	86001000450	1/24
1" x 5	10bar/145psi	86001000550	1/24
1" x 6	10bar/145psi	86001000650	1/24
1" x 7	10bar/145psi	86001000750	1/12
1" x 8	10bar/145psi	86001000850	1/12
1" x 9	10bar/145psi	86001000950	1/12
1" x 10	10bar/145psi	86001001050	1/12
1" x 11	10bar/145psi	86001001150	1/12
1" x 12	10bar/145psi	86001001250	1/12

SIZE	PRESSURE	CODE	PACKING
1"1/4 x 2	10bar/145psi	86001140250	1/26
1"1/4 x 3	10bar/145psi	86001140350	1/20
1"1/4 x 4	10bar/145psi	86001140450	1/12
1"1/4 x 5	10bar/145psi	86001140550	1/8
1"1/4 x 6	10bar/145psi	86001140650	1/12
1"1/4 x 7	10bar/145psi	86001140750	1/12
1"1/4 x 8	10bar/145psi	86001140850	1/8
1"1/4 x 9	10bar/145psi	86001140950	1/8
1"1/4 x 10	10bar/145psi	86001141050	1/8
1"1/4 x 11	10bar/145psi	86001141150	1/8
1"1/4 x 12	10bar/145psi	86001141250	1/6

Maximum working temperature: 110°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Size of the outlets: 1/2" F.



905C



In case of use of electric actuators Art. 891M and 891MR, it is suggested to use the off-centre by-pass kit Art. 860BY.

ATTENTION: manifolds will be supplied mounted on the brackets; accessories will be supplied separately, inside the same box.



Complete pre-assembled manifold, with flow meters

SIZE	PRESSURE	CODE	PACKING
1"x3/4"x2	6bar/87psi	9050010002034C	1/1
1"x3/4"x3	6bar/87psi	9050010003034C	1/1
1"x3/4"x4	6bar/87psi	9050010004034C	1/1
1"x3/4"x5	6bar/87psi	9050010005034C	1/1
1"x3/4"x6	6bar/87psi	9050010006034C	1/1
1"x3/4"x7	6bar/87psi	9050010007034C	1/1
1"x3/4"x8	6bar/87psi	9050010008034C	1/1
1"x3/4"x9	6bar/87psi	9050010009034C	1/1
1"x3/4"x10	6bar/87psi	9050010010034C	1/1
1"x3/4"x11	6bar/87psi	9050010011034C	1/1
1"x3/4"x12	6bar/87psi	9050010012034C	1/1
1"x3/4"x13	6bar/87psi	9050010013034C	1/1

Consisting of:

- 1 return manifold in nickel-plated brass with shut-off valves preset for electrothermal actuators
- 1 flow manifold in nickel-plated brass with flow meters
- 2 complete metal brackets
- 2 shut-off ball valves with thermometers
- 2 end pieces with air vent valve and drain cock

Available sizes: 1".

Maximum working pressure: 6 bar (10 bar for installation test).

Maximum working temperature: 70°C.

Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

Outlets: from 2 to 13, 3/4" Eurokonus.

Outlet centre distance: mm.50.

Available on demand with deeper mounting brackets art. 498ST without extra charge.

Available on demand with 1/2" outlets.

910C



In case of use of electric actuators Art. 891M and 891MR, it is suggested to use the off-centre by-pass kit Art. 860BY.

ATTENTION: manifolds will be supplied mounted on the brackets; accessories will be supplied separately, inside the same box.



Complete pre-assembled manifold, with lockshields

SIZE	PRESSURE	CODE	PACKING
1"x3/4"x2	10bar/145psi	9100010002034C	1/1
1"x3/4"x3	10bar/145psi	9100010003034C	1/1
1"x3/4"x4	10bar/145psi	9100010004034C	1/1
1"x3/4"x5	10bar/145psi	9100010005034C	1/1
1"x3/4"x6	10bar/145psi	9100010006034C	1/1
1"x3/4"x7	10bar/145psi	9100010007034C	1/1
1"x3/4"x8	10bar/145psi	9100010008034C	1/1
1"x3/4"x9	10bar/145psi	9100010009034C	1/1
1"x3/4"x10	10bar/145psi	9100010010034C	1/1
1"x3/4"x11	10bar/145psi	9100010011034C	1/1
1"x3/4"x12	10bar/145psi	9100010012034C	1/1
1"x3/4"x13	10bar/145psi	9100010013034C	1/1

Consisting of:

- 1 return manifold in nickel-plated brass with shut-off valves preset for electrothermal actuators
- 1 flow manifold in nickel-plated brass with lockshields
- 2 complete metal brackets
- 2 shut-off ball valves with thermometers
- 2 end pieces with air vent valve and drain cock

Available sizes: 1".

Maximum working pressure: 10 bar.

Maximum working temperature: 80°C.

Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

Outlets: from 2 to 13, 3/4" Eurokonus.

Outlet centre distance: mm.50.

Available on demand with deeper mounting brackets art. 498ST without extra charge.

Available on demand with 1/2" outlets.

100% TESTED

915C



In case of use of electric actuators Art. 891M and 891MR, it is suggested to use the off-centre by-pass kit Art. 860BY.
ATTENTION: manifolds will be supplied mounted on the brackets.



Pre-assembled manifold with flow meters

SIZE	PRESSURE	CODE	PACKING
1"x3/4"x2	6bar/87psi	9150010002034C	1/1
1"x3/4"x3	6bar/87psi	9150010003034C	1/1
1"x3/4"x4	6bar/87psi	9150010004034C	1/1
1"x3/4"x5	6bar/87psi	9150010005034C	1/1
1"x3/4"x6	6bar/87psi	9150010006034C	1/1
1"x3/4"x7	6bar/87psi	9150010007034C	1/1
1"x3/4"x8	6bar/87psi	9150010008034C	1/1
1"x3/4"x9	6bar/87psi	9150010009034C	1/1
1"x3/4"x10	6bar/87psi	9150010010034C	1/1
1"x3/4"x11	6bar/87psi	9150010011034C	1/1
1"x3/4"x12	6bar/87psi	9150010012034C	1/1
1"x3/4"x13	6bar/87psi	9150010013034C	1/1

Consisting of:

- 1 return manifold in nickel-plated brass with shut-off valves preset for electrothermal actuators
- 1 flow manifold in nickel-plated brass with flow meters
- 2 complete metal brackets

Available sizes: 1".

Maximum working pressure: 6 bar (10 bar for installation test).

Maximum working temperature: 70°C.

Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

Outlets: from 2 to 13, 3/4" Eurokonus.

Outlet centre distance: mm.50.

Available on demand with deeper mounting brackets art. 498ST without extra charge.

Available on demand with 1/2" outlets.

916C



In case of use of electric actuators Art. 891M and 891MR, it is suggested to use the off-centre by-pass kit Art. 860BY.

ATTENTION: manifolds will be supplied mounted on the brackets; accessories will be supplied separately, inside the same box.



Pre-assembled manifold with flow meters, air vent valve and drain cock

SIZE	PRESSURE	CODE	PACKING
1"x3/4"x2	6bar/87psi	9160010002034C	1/1
1"x3/4"x3	6bar/87psi	9160010003034C	1/1
1"x3/4"x4	6bar/87psi	9160010004034C	1/1
1"x3/4"x5	6bar/87psi	9160010005034C	1/1
1"x3/4"x6	6bar/87psi	9160010006034C	1/1
1"x3/4"x7	6bar/87psi	9160010007034C	1/1
1"x3/4"x8	6bar/87psi	9160010008034C	1/1
1"x3/4"x9	6bar/87psi	9160010009034C	1/1
1"x3/4"x10	6bar/87psi	9160010010034C	1/1
1"x3/4"x11	6bar/87psi	9160010011034C	1/1
1"x3/4"x12	6bar/87psi	9160010012034C	1/1
1"x3/4"x13	6bar/87psi	9160010013034C	1/1

Consisting of:

- 1 return manifold in nickel-plated brass with shut-off valves preset for electrothermal actuators
- 1 flow manifold in nickel-plated brass with flow meters
- 2 adjustable end pieces with drain valve and manual air vent valve
- 2 complete metal brackets

Available sizes: 1".

Maximum working pressure: 6 bar (10 bar for installation test).

Maximum working temperature: 70°C.

Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

Outlets: from 2 to 13, 3/4" Eurokonus.

Outlet centre distance: mm.50.

Available on demand with deeper mounting brackets art. 498ST without extra charge.

Available on demand with 1/2" outlets.

100% TESTED

920C



In case of use of electric actuators Art. 891M and 891MR, it is suggested to use the off-centre by-pass kit Art. 860BY.
ATTENTION: manifolds will be supplied mounted on the brackets.



Pre-assembled manifold with lockshields

SIZE	PRESSURE	CODE	PACKING
1"x3/4"x2	10bar/145psi	9200010002034C	1/1
1"x3/4"x3	10bar/145psi	9200010003034C	1/1
1"x3/4"x4	10bar/145psi	9200010004034C	1/1
1"x3/4"x5	10bar/145psi	9200010005034C	1/1
1"x3/4"x6	10bar/145psi	9200010006034C	1/1
1"x3/4"x7	10bar/145psi	9200010007034C	1/1
1"x3/4"x8	10bar/145psi	9200010008034C	1/1
1"x3/4"x9	10bar/145psi	9200010009034C	1/1
1"x3/4"x10	10bar/145psi	9200010010034C	1/1
1"x3/4"x11	10bar/145psi	9200010011034C	1/1
1"x3/4"x12	10bar/145psi	9200010012034C	1/1
1"x3/4"x13	10bar/145psi	9200010013034C	1/1

Consisting of:

- 1 return manifold in nickel-plated brass with shut-off valves preset for electrothermal actuators
- 1 flow manifold in nickel-plated brass with lockshields
- 2 complete metal brackets

Available sizes: 1".

Maximum working pressure: 10 bar.

Maximum working temperature: 80°C.

Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

Outlets: from 2 to 13, 3/4" Eurokonus.

Outlet centre distance: mm.50.

Available on demand with deeper mounting brackets art. 498ST without extra charge.

Available on demand with 1/2" outlets.

925



Single manifold with lockshields

SIZE	PRESSURE	CODE	PACKING
1"x3/4"x2	10bar/145psi	9250010002034	1/12
1"x3/4"x3	10bar/145psi	9250010003034	1/12
1"x3/4"x4	10bar/145psi	9250010004034	1/8
1"x3/4"x5	10bar/145psi	9250010005034	1/8
1"x3/4"x6	10bar/145psi	9250010006034	1/8
1"x3/4"x7	10bar/145psi	9250010007034	1/8
1"x3/4"x8	10bar/145psi	9250010008034	1/3
1"x3/4"x9	10bar/145psi	9250010009034	1/2
1"x3/4"x10	10bar/145psi	9250010010034	1/2
1"x3/4"x11	10bar/145psi	9250010011034	1/2
1"x3/4"x12	10bar/145psi	9250010012034	1/2
1"x3/4"x13	10bar/145psi	9250010013034	1/2

Available sizes: 1".

Maximum working pressure: 10 bar.

Maximum working temperature: 80°C.

Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

Outlets: from 2 to 13, 3/4" Eurokonus.

Outlet centre distance: mm.50.

Available on demand with 1/2" outlets.

100% TESTED

930

Single manifold with flow meters

SIZE	PRESSURE	CODE	PACKING
1"x3/4"x2	6bar/87psi	9300010002034	1/12
1"x3/4"x3	6bar/87psi	9300010003034	1/12
1"x3/4"x4	6bar/87psi	9300010004034	1/8
1"x3/4"x5	6bar/87psi	9300010005034	1/8
1"x3/4"x6	6bar/87psi	9300010006034	1/8
1"x3/4"x7	6bar/87psi	9300010007034	1/8
1"x3/4"x8	6bar/87psi	9300010008034	1/3
1"x3/4"x9	6bar/87psi	9300010009034	1/2
1"x3/4"x10	6bar/87psi	9300010010034	1/2
1"x3/4"x11	6bar/87psi	9300010011034	1/2
1"x3/4"x12	6bar/87psi	9300010012034	1/2
1"x3/4"x13	6bar/87psi	9300010013034	1/2

Available sizes: 1".
 Maximum working pressure: 6 bar (10 bar for installation test).
 Maximum working temperature: 70°C.
 Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
 Outlets: from 2 to 13, 3/4" Eurokonus.
 Outlet centre distance: mm.50.
 Available on demand with 1/2" outlets.

935

Single manifold, with shut-off valves preset for electrothermal actuators - with handles

Shut-off valves preset for electrothermal actuators.



SIZE	PRESSURE	CODE	PACKING
1"x3/4"x2	10bar/145psi	9350010002034	1/12
1"x3/4"x3	10bar/145psi	9350010003034	1/12
1"x3/4"x4	10bar/145psi	9350010004034	1/8
1"x3/4"x5	10bar/145psi	9350010005034	1/8
1"x3/4"x6	10bar/145psi	9350010006034	1/8
1"x3/4"x7	10bar/145psi	9350010007034	1/8
1"x3/4"x8	10bar/145psi	9350010008034	1/3
1"x3/4"x9	10bar/145psi	9350010009034	1/2
1"x3/4"x10	10bar/145psi	9350010010034	1/2
1"x3/4"x11	10bar/145psi	9350010011034	1/2
1"x3/4"x12	10bar/145psi	9350010012034	1/2
1"x3/4"x13	10bar/145psi	9350010013034	1/2

Available sizes: 1".
 Maximum working pressure: 10 bar.
 Maximum working temperature: 80°C.
 Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
 Outlets: from 2 to 13, 3/4" Eurokonus.
 Outlet centre distance: mm.50.
 Available on demand with 1/2" outlets.

100% TESTED

940



Shut-off valves preset for electrothermal actuators.



Single manifold with shut-off valves preset for electrothermal actuators - with caps

SIZE	PRESSURE	CODE	PACKING
1"x3/4"x2	10bar/145psi	9400010002034	1/12
1"x3/4"x3	10bar/145psi	9400010003034	1/12
1"x3/4"x4	10bar/145psi	9400010004034	1/8
1"x3/4"x5	10bar/145psi	9400010005034	1/8
1"x3/4"x6	10bar/145psi	9400010006034	1/8
1"x3/4"x7	10bar/145psi	9400010007034	1/8
1"x3/4"x8	10bar/145psi	9400010008034	1/3
1"x3/4"x9	10bar/145psi	9400010009034	1/2
1"x3/4"x10	10bar/145psi	9400010010034	1/2
1"x3/4"x11	10bar/145psi	9400010011034	1/2
1"x3/4"x12	10bar/145psi	9400010012034	1/2
1"x3/4"x13	10bar/145psi	9400010013034	1/2

Available sizes: 1".
Maximum working pressure: 10 bar.
Maximum working temperature: 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Outlets: from 2 to 13, 3/4" Eurokonus.
Outlet centre distance: mm.50.
Available on demand with 1/2" outlets.

945



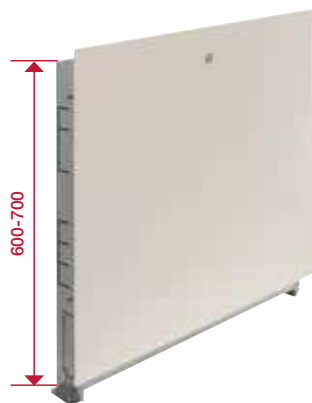
Single manifold, with 3/4" Eurokonus outlets

SIZE	PRESSURE	CODE	PACKING
1"x3/4"x2	10bar/145psi	9450010002034	2/16
1"x3/4"x3	10bar/145psi	9450010003034	2/24
1"x3/4"x4	10bar/145psi	9450010004034	2/16
1"x3/4"x5	10bar/145psi	9450010005034	2/16
1"x3/4"x6	10bar/145psi	9450010006034	2/16
1"x3/4"x7	10bar/145psi	9450010007034	2/16
1"x3/4"x8	10bar/145psi	9450010008034	2/6
1"x3/4"x9	10bar/145psi	9450010009034	2/4
1"x3/4"x10	10bar/145psi	9450010010034	2/4
1"x3/4"x11	10bar/145psi	9450010011034	2/4
1"x3/4"x12	10bar/145psi	9450010012034	2/4
1"x3/4"x13	10bar/145psi	9450010013034	2/4

Available sizes: 1".
Maximum working pressure: 10 bar.
Maximum working temperature: 80°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Outlets: from 2 to 13, 3/4" Eurokonus.
Outlet centre distance: mm.50.

100% TESTED

498

**Metal box for manifolds**

Complete with basement and support for floor installation.
Equipped with plaster protection.

SIZE	CODE	PACKING
500x500x(80-130)	498500500	1/1
600x500x(80-130)	489600500	1/1
700x500x(80-130)	498700500	1/1
800x500x(80-130)	498800500	1/1
900x500x(80-130)	498900500	1/1
1000x500x(80-130)	4981000500	1/1
1100x500x(80-130)	4981100500	1/1

Enclosure, telescopic door frame and door in zincplated steel.
Painted door.

Adjustable depth: from mm. 80 to mm. 130.

Minimum depth for Itap manifolds installation: mm. 90.

Adjustable height: from mm. 600 to mm. 700.

498R

**Metal box for manifolds - compact model**

Complete with basement and support for floor installation.
Equipped with plaster protection.

SIZE	CODE	PACKING
500x450x(90-130)	498500450	1/1
600x450x(90-130)	498600450	1/1
700x450x(90-130)	498700450	1/1
850x450x(90-130)	498850450	1/1
1000x450x(90-130)	4981000450	1/1
1100x450x(90-130)	4981100450	1/1

Zincplated steel enclosure, telescopic, door frame and door.

The telescopic door frame and the door are painted.

Adjustable depth: mm. 90 to mm. 130.

Minimum depth for Itap manifolds installation: mm. 90.

Overall height: mm. 575.

498ST

**Mounting brackets in steel for metal boxes art. 498 and 498R**

The set includes a pair of brackets with screws and fixings.
For installation in box art. 498 - 498R:

SIZE	CODE	PACKING
3/4"	498ST034K	1/20
1"	498ST100K	1/20
1"1/4	498ST114K	1/20

SIZE	CODE	PACKING
1"	498ST100KM	1/20

SIZE	CODE	PACKING
1"	498ST100KMB	1/20

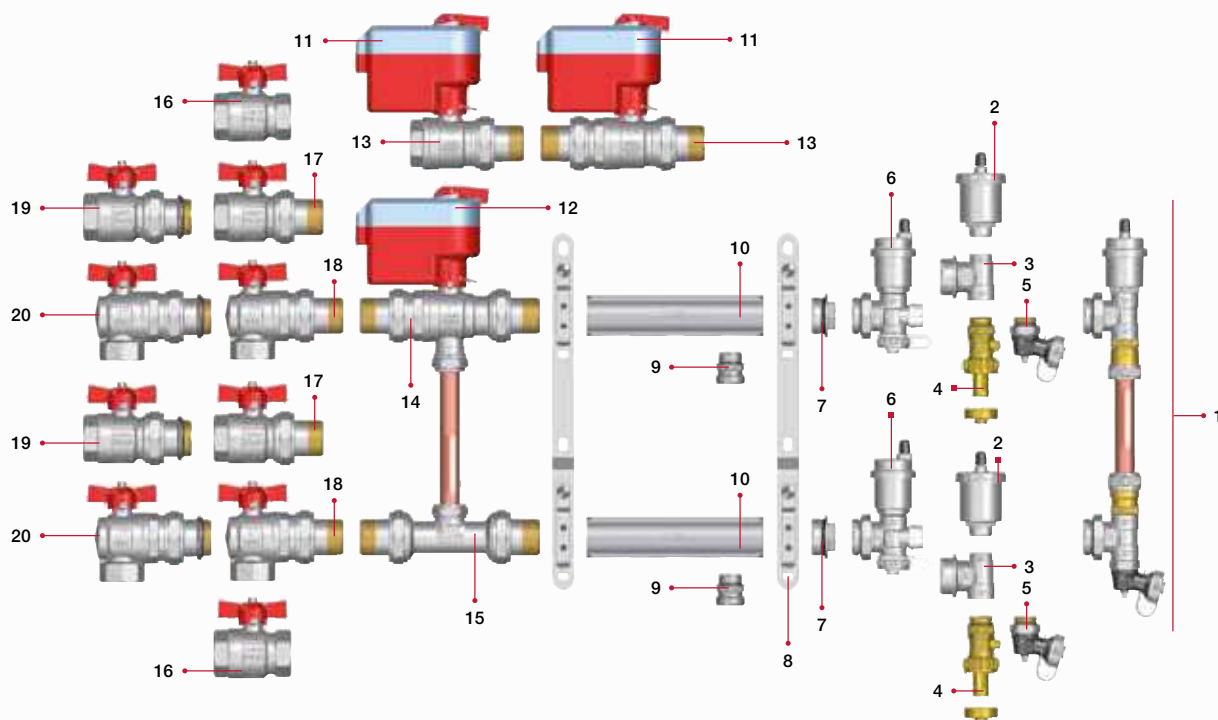
- 498STK: Standard version: centres distance mm. 200, offset: 12mm. Suitable for outlets pipe up to 20mm.

- 498STKM: Deeper version: centres distance mm. 200, offset: 30mm. Suitable for outlets pipe up to 25mm.

- 498STKMB: Deeper version: centres distance mm. 211, offset: 30mm. Suitable for outlets pipe up to 25mm.

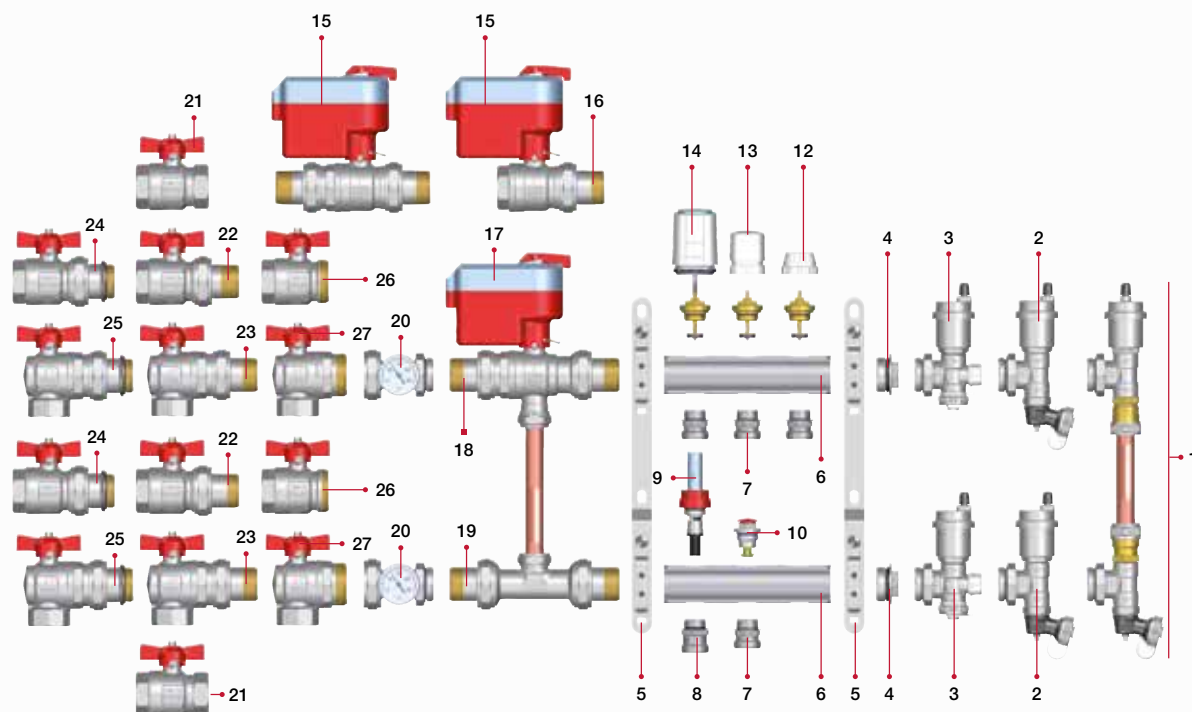


ACCESSORIES CHART ART. 850 FOR METAL BOXES



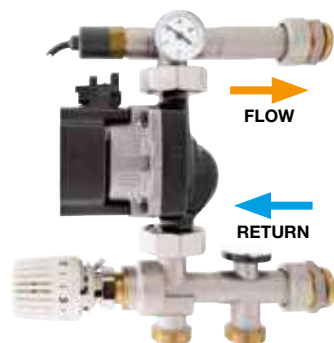
POS	ART	DESCRIPTION	CHP	PG
1	860BY	Kit by-pass eccentrico	5	138
2	362 - 362R	Automatic air vent valve	5	149
3	490	Male 3-way end fitting for manifolds	5	144
4	139	Drain ball valve with brass hose connection	2	60
5	489SO	Adjustable drain cock	5	140
6	489AR	Adjustable end piece with drain valve and automatic air vent valve	5	140
7	494	Male end cap with o-ring	5	146
8	498ST	Mounting brackets in steel for metal boxes	5	133
9	518N	Male/male adapter	5	139
10	850	Distribution manifold in brass bar	5	127
11	990 - 991 989	Electric actuator for zone ball valves Electric actuator for 2-way zone ball	5	107
12	990 - 991	Electric actuator for zone ball valves	5	107
13	980 - 981	2-way zone ball valve - 2-way zone ball valve M/M	5	107
14	984	3-way zone ball valve	5	108
15	988	By-pass kit for zone ball valves	5	109
16	092	Ball valve, T handle	2	43
17	098	Ball valve for manifolds	2	44
18	298	Angle ball valve for manifolds	2	45
19	098S	Ball valve for manifolds with o-ring on the union	2	44
20	298S	Angle ball valve for manifolds with o-ring on the union	2	45

ACCESSORIES CHART ART. 860 FOR METAL BOXES



POS	ART	DESCRIPTION	CHP	PG
1	860BY	Off-centre by-pass kit	5	138
2	489A	Adjustable end piece with drain valve and automatic air vent valve	5	140
3	489AR	Adjustable end piece with drain valve and automatic air vent valve	5	140
4	494	Male end cap	5	146
5	498ST	Mounting brackets in steel for metal boxes	5	133
6	860	Brass bar manifold	5	127
7	518N	Male/male adapter 1"	5	139
8	471N	Adapter for flow meters - 1" manifold	5	139
9	471FL	Flow meter	5	139
10	Vitonde	Lockhields	-	-
11	Vitonvat	Convertible control spindle	-	-
12	894CP	Protection cap	-	-
13	894VM	Handle	-	-
14	891M - 891MR	Electrothermal actuator	5	138
15	990 - 991 989	Electric actuator for zone ball valves Electric actuator for 2-way zone ball valves	5	107
16	980 - 981	2-way zone ball valve - 2-way zone ball valve M/M	5	107
17	990 - 991	Electric actuators for zone ball valves	5	107
18	984	3-way zone ball valve	5	108
19	988	By-pass kit for zone ball valves	5	109
20	492BC	Thermometer union complete with thermometer	5	145
21	092	Ball valve F/F	2	43
22	098	Ball valve for manifolds	2	44
23	298	Angle ball valve for manifolds	2	45
24	098S	Ball valve for manifolds with o-ring on the union	2	44
25	298S	Angle ball valve for manifolds with o-ring on the union	2	45
26	098SDC	Ball valve for manifolds without union	2	44
27	298SDC	Angle ball valve for manifolds without union	2	45

949



Supplied with low energy consumption pump (9490100200CPF) or without low energy consumption pump (9490100200SPF).
For a right installation of the set point regulating unit we suggest to use one of the following mounting brackets:
- Art. 498STK with centres distance mm 200 and offset mm 12.
- Art. 949ST.



SET POINT REGULATING UNIT

The set point regulating unit is used for underfloor heating systems and installed directly on the manifold in the box, thanks to its small overall dimensions.
The minimum depth of the metal box required for the installation of the regulation unit is 90 mm.
The regulation consists of lowering and keeping constant the temperature of the medium fluid using a 3-way mixing valve equipped with an adjustable thermostatic head with a built-in sensor.
A circulation pump (supplied on request) allows the fluid to circulate through the pipes, while a safety thermostat limits the max

SIZE	PRESSURE	CODE	PACKING
1"	6bar/87psi	9490100200CPF	1/2
1"	6bar/87psi	9490100200SPF	1/4

Consisting of:
- 3-way mixing valve
- Thermostatic head with built-in sensor
- Safety cutoff (factory set at 55°C)
- Thermometer (scale 0°-80°C) fitted to the flow and return pipes
- Low energy consumption pump (on demand)
Technical specifications:
- Medium fluid: water, glycolate solutions max. 30%
- Temperature setting: 20°C – 55°C
- Maximum working pressure: 6 bar
- Body and fittings: nickel-plated brass
- Available size: 1"
- ISO 228 threads (equivalent to DIN EN ISO 228 and BS EN ISO 228)

949CEF



Wiring case for pump connection

CODE	PACKING
949CEF	1/4

Including all the connections required for the correct operation of art. 949 regulating unit:
- boiler enablement (NO)
- room thermostat (RT)
- safety cutoff (ST)
- circulator power supply (PUMP)
It has to be powered at 230V.

949BY



Primary circuit by-pass kit

SIZE	PRESSURE	CODE	PACKING
1"	6bar/87psi	949BY100	1/12

To be installed before art. 949 regulating unit.
It allows the flow circulation in the primary circuit.
Adjustable for differential pressure between 10 and 30 kPa.
Maximum operating temperature: 100°C (without steam).
Maximum operating pressure: 6 bar.
Available size: 1"
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Supplied with a pair of flat EPDM washer.

894K



Pair of union connections, flat seat

SIZE	PRESSURE	CODE	PACKING
1"	10bar/145psi	894DC100MPK	1/100

These are required for connecting art. 092K ball valve kit to art. 949 regulating unit.
Body in nickel-plated brass.
O-ring in EPDM.
Maximum operating temperature: 100°C (without steam).
Maximum working pressure: 10 bar.
Available size: 1" M x 1" F.
Supplied with a pair of fibre washer.

092K



Ball valves kit

SIZE	PRESSURE	CODE	PACKING
1"	40bar/580psi	0920100K	1/26

Female/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).

113DFK

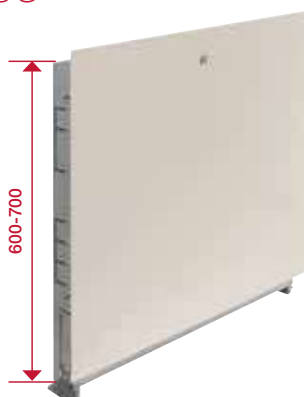


Orient ball valve kit with female swivel, reduced flow

SIZE	PRESSURE	CODE	PACKING
1" x 1"	40bar/580psi	1130100100K	1/26

Female/female threads.
T handle in aluminium.
Nickel-plated brass body and swivel.
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).

498



Metal box for manifolds

Complete with basement and support for floor installation.
Equipped with plaster protection.

SIZE	CODE	PACKING
600x500x(80-130)	489600500	1/1
700x500x(80-130)	498700500	1/1
800x500x(80-130)	498800500	1/1
900x500x(80-130)	498900500	1/1
1000x500x(80-130)	4981000500	1/1
1100x500x(80-130)	4981100500	1/1

Enclosure, telescopic door frame and door in zincplated steel.
Painted door.
Adjustable depth: from mm. 80 to mm. 130.
Minimum depth for Itap manifolds installation: mm. 90.
Adjustable height: from mm. 600 to mm. 700.

498R



Metal box for manifolds - compact model

Complete with basement and support for floor installation.
Equipped with plaster protection.

SIZE	CODE	PACKING
500x450x(90-130)	498500450	1/1
600x450x(90-130)	498600450	1/1
700x450x(90-130)	498700450	1/1
850x450x(90-130)	498850450	1/1
1000x450x(90-130)	4981000450	1/1
1100x450x(90-130)	4981100450	1/1

Zincplated steel enclosure, telescopic, door frame and door.
The telescopic door frame and the door are painted.
Adjustable depth: mm. 90 to mm. 130.
Minimum depth for Itap manifolds installation: mm. 90.
Overall height: mm. 575.

498ST



Mounting brackets in steel for metal boxes art. 498 and 498R

SIZE	CODE	PACKING
1"	498ST100K	1/20

The set includes a pair of brackets with screws and fixings.
For installation in box art. 498 - 498R:
- 498STK: Standard version: centres distance mm. 200, offset: 12mm. Suitable for outlets pipe up to 20mm.

949ST



Mounting brackets in steel for metal boxes art. 498 and 498R

SIZE	CODE	PACKING
1"	949ST211K	1/20

The set includes a pair of brackets with screws and fixings.
4 spacers included.
- 949ST: centres distance mm. 211, offset: 6,5mm.



915CK



Extension kit for manifolds

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

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).

497



Adjustable male/male fitting with O-ring

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

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).

860BY



To be installed in metal boxes art. 498 - 498R
with manifolds made out of brass bar or
stainless steel.



Off-centre by-pass kit

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

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).

891M



Electrothermal actuator

SIZE	CODE	PACKING
230-2fili	891M2302NC	1/32
230-4fili	891M2304NC	1/26

Suitable for pre-assembled manifolds.

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.

891MR



Electrothermal actuator

SIZE	CODE	PACKING
230-2fili	891M2302NCR	1/56

Suitable for pre-assembled manifolds.
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.

471FL



Flow meter

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

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.
Accuracy of reading: +/- 10%.
Maximum working temperature: 70°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

471N



Adapter for flow meters - 1" manifolds

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

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).

518N



G

1/2"x1/2" size is also suitable as adapter for flow meters on 1" manifolds.



Male/male adapter - 1" manifolds

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

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.

519N



It is also suitable as adapter for flow meters on 1"1/4 manifolds.



Male/male adapter - 1"1/4 manifolds

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

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).



489AR



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

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

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).

489MR



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

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

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).

489A



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

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

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).

489M



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

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

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).

489SO



Adjustable drain valve

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

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).

COP100



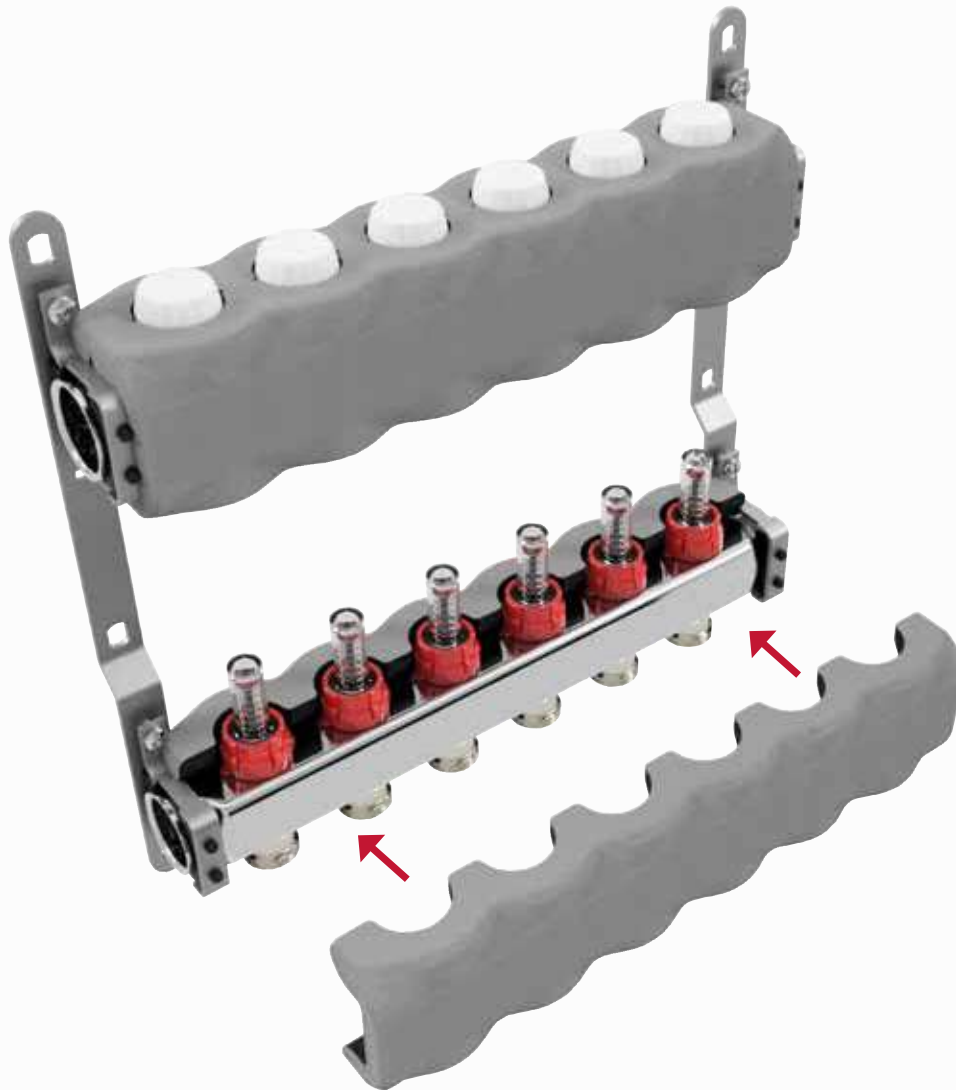
Available in just one size. Insulation shells have to be cut according to manifolds length.

Insulation shells for manifolds

CODE	PACKING
COP100	1/6

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.

COP100 POSITIONING



5

098RSK



Straight ball valves kit – Compact

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

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).

298RSK



Angle ball valves kit – Compact

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

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).

487K01R



Straight ball valves kit and thermometer – Compact

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

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).

487K02R



Angle ball valves kit and thermometer – Compact

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

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).

098SK



Code 0980034100SK: 3/4"FX1"M



Straight ball valves kit

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

Kit consisting of: 2 ball valves art. 098S, 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).

298SK



Angle ball valves kit

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

Kit consisting of: 2 ball valves art. 298S, 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).

487K01



Straight ball valves and thermometer union kit

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

Kit consisting of: 2 ball valves art. 098SDC, 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).

487K02



Angle ball valves and thermometer union kit

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

Kit consisting of: 2 ball valves art. 298SDC, 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).



492N



Suitable for stainless steel and brass bar distribution manifolds.



Surface thermometer

CODE	PACKING
492N	12/264

Available diameter: mm. 40
Scale: 0°C - 80°C

490



Male end fitting for manifolds

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

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).

490S



Adjustable male end fitting for manifolds

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

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).

491



Female end fitting for manifolds

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

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).

492

**Thermometer fitting**

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

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).

492B



Suitable for ball valve art. 098SDC and 298SDC.

**Thermometer union**

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

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).

492C

**Thermometer union complete with thermometer**

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

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

492BC



Suitable for ball valve art. 098SDC and 298SDC.

**Thermometer union complete with thermometer**

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

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).



494



Male end cap with o-ring

SIZE	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

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).

495



Male end fitting with o-ring

SIZE	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

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).

496



Female end cap with washer

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

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).



482

**Pressure gauge, bottom connection, 0-10 bar**

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

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).

482R

**Pressure gauge, bottom connection, 0-6 bar**

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

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).

483

**Pressure gauge, back connection, 0-10 bar**

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

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).

483R

**Pressure gauge, back connection, 0-6 bar**

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

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).



484



Thermometer and pressure gauge, bottom connection

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

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).

485



Thermometer and pressure gauge, back connection

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

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).

493



Thermometer, back connection

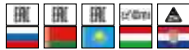
SIZE	PRESSURE	CODE	PACKING
3/8"X40	10bar/145psi	493B03840P	10/220
1/2"X40	10bar/145psi	493B01240P	8/176
1/2"X63	10bar/145psi	493B01263P	4/88
1/2"X80	10bar/145psi	493B01280P	2/24

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 Ø 40 - 63) - mm.100 (with Ø 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).

362



Available with NPT thread in the sizes 1/2" - 3/4" - 1"

**Automatic air-vent valve**

SIZE	PRESSURE	CODE	PACKING
3/8"	10bar/145psi	3620038	10/70
1/2"	10bar/145psi	3620012	10/70
3/4"	10bar/145psi	3620034	10/30
1"	10bar/145psi	3620100	10/30

Body in nickel-plated brass.
 Float in polyethilenic resin.
 Maximum working temperature: 110°C.
 Maximum discharge pressure: 6 bar.
 Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

362R

**Automatic air-vent valve, compact**

SIZE	PRESSURE	CODE	PACKING
3/8"	10bar/145psi	3620038R	10/70
1/2"	10bar/145psi	3620012R	10/70

Body in nickel-plated brass.
 Float in polyethilenic resin.
 Maximum working temperature: 110°C.
 Maximum discharge pressure: 6 bar.
 Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

363

**Automatic air-vent valve, side outlet**

SIZE	PRESSURE	CODE	PACKING
3/8"	10bar/145psi	3630038	10/70
1/2"	10bar/145psi	3630012	10/70

Body in nickel-plated brass.
 Float in polyethilenic resin.
 Maximum working temperature: 110°C.
 Maximum discharge pressure: 6 bar.
 Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

364

**Automatic air-vent valve, side inlet**

SIZE	PRESSURE	CODE	PACKING
3/8"	10bar/145psi	3640038	10/70
1/2"	10bar/145psi	3640012	10/70

Body in nickel-plated brass.
 Float in polyethilenic resin.
 Maximum working temperature: 110°C.
 Maximum discharge pressure: 6 bar.
 Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

364R

**Automatic air-vent valve, side inlet, compact**

SIZE	PRESSURE	CODE	PACKING
3/8"	10bar/145psi	3640038R	10/70
1/2"	10bar/145psi	3640012R	10/70

Body in nickel-plated brass.
 Float in polyethilenic resin.
 Maximum working temperature: 110°C.
 Maximum discharge pressure: 6 bar.
 Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

365



Automatic check valve

SIZE	PRESSURE	CODE	PACKING
3/8"	10bar/145psi	3650038	50/1250
1/2"	10bar/145psi	3650012	50/700

Suitable for the use together with automatic air vent valves art. 362 - 362R - 363 - 364 - 364R.
Body in nickel-plated brass.
Maximum working temperature: 110°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

366



Safety relief valve for boilers

SIZE	PRESSURE	CODE	PACKING
1/2"	10bar/145psi	3660012	25/300

Body in nickel-plated brass.
Check and vent spring valve in stainless steel.
Check seat in nylon.
Check and vent seal in NBR.
Maximum working temperature: 120°C.
Opening pressure: 8,5 bar.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

367



Safety relief valve for boilers with lever handle

SIZE	PRESSURE	CODE	PACKING
1/2"	10bar/145psi	3670012	25/225

Body in nickel-plated brass.
Check and vent spring valve in stainless steel.
Check seat in nylon.
Check and vent seal in NBR.
Maximum working temperature: 120°C.
Opening pressure: 8,5 bar.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

194



Air vent valve

SIZE	PRESSURE	CODE	PACKING
1/8"	10bar/145psi	1940018	50/1300
1/4"	10bar/145psi	1940014	50/1200
3/8"	10bar/145psi	1940038	40/640
1/2"	10bar/145psi	1940012	40/520

Body in chrome-plated brass.
Handle in acetalic resin.
Maximum working temperature: 90°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

1940

**Adjustable nickel-plated air vent valve**

SIZE	PRESSURE	CODE	PACKING
1/2"	10bar/145psi	1940012O	40/1040

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

195

**Adjustable drain valve**

SIZE	PRESSURE	CODE	PACKING
1/4"	6bar/87psi	1950014	50/700
3/8"	6bar/87psi	1950038	50/700

Body in brass.
 Revolving drain in acetalic resin.
 Maximum working temperature: 90°C.
 Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

299

**Plug for radiators with air vent valve**

SIZE	PRESSURE	CODE	PACKING
1" DX	10bar/145psi	2990100D	10/70
1" SX	10bar/145psi	2990100S	10/70

Body in chrome-plated brass.
 Nominal pressure: 10 bar.
 Maximum working temperature: 110°C.
 Available sizes: 1" right and 1" left.
 Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

368



Diaphragm safety relief valve, female/female thread

1/2"x1/2"

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	1.5	368001215	10/120
1/2" (DN 15)	1.8	368001218	10/120
1/2" (DN 15)	2.5	368001225	10/120
1/2" (DN 15)	3	368001230	10/120
1/2" (DN 15)	4	368001240	10/120
1/2" (DN 15)	6	368001260	10/120

3/4"x3/4"

SIZE	PRESSURE	CODE	PACKING
3/4" (DN 20)	1.5	368003415	10/120
3/4" (DN 20)	1.8	368003418	10/120
3/4" (DN 20)	2.5	368003425	10/120
3/4" (DN 20)	3	368003430	10/120
3/4" (DN 20)	4	368003440	10/120
3/4" (DN 20)	6	368003460	10/120

1"x1"

SIZE	PRESSURE	CODE	PACKING
1" (DN 25)	1.5	368010015	10/80
1" (DN 25)	1.8	368010018	10/80
1" (DN 25)	2.5	368010025	10/80
1" (DN 25)	3	368010030	10/80
1" (DN 25)	4	368010040	10/80
1" (DN 25)	6	368010060	10/80

Body in nickel-plated brass.
Diaphragm: EPDM.
Spring: stainless steel.
Nominal pressure: 10 bar.
Working temperatures: 5°C - 110°C.
Opening overpressure: 20%.
Closing differential: 20%.
Available settings: 1,5 - 1,8 - 2,5 - 3 - 4 - 6 bar.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).



369



Diaphragm safety relief valve, male/female thread

1/2"x1/2"

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	1.5	369001215	10/120
1/2" (DN 15)	1.8	369001218	10/120
1/2" (DN 15)	2.5	369001225	10/120
1/2" (DN 15)	3	369001230	10/120
1/2" (DN 15)	4	369001240	10/120
1/2" (DN 15)	6	369001260	10/120

Body in nickel-plated brass.
Diaphragm: EPDM.
Spring: stainless steel.
Nominal pressure: 10 bar.
Working temperatures: 5°C - 110°C.
Opening overpressure: 20%.
Closing differential: 20%.
Available settings: 1,5 - 1,8 - 2,5 - 3 - 4 - 6 bar.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).



368M



Diaphragm safety relief valve with pressure gauge connection, female/female thread

1/2"x1/2", gauge connection 1/4"

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	1.5	368001215M	10/120
1/2" (DN 15)	1.8	368001218M	10/120
1/2" (DN 15)	2.5	368001225M	10/120
1/2" (DN 15)	3	368001230M	10/120
1/2" (DN 15)	4	368001240M	10/120
1/2" (DN 15)	6	368001260M	10/120

Body in nickel-plated brass.
Diaphragm: EPDM.
Spring: stainless steel.
Nominal pressure: 10 bar.
Working temperatures: 5°C - 110°C.
Opening overpressure: 20%.
Closing differential: 20%.
Available settings: 1,5 - 1,8 - 2,5 - 3 - 4 - 6 bar.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

369M



Diaphragm safety relief valve with pressure gauge connection, male/female thread

1/2"x1/2", gauge connection 1/4"

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	1.5	369001215M	10/120
1/2" (DN 15)	1.8	369001218M	10/120
1/2" (DN 15)	2.5	369001225M	10/120
1/2" (DN 15)	3	369001230M	10/120
1/2" (DN 15)	4	369001240M	10/120
1/2" (DN 15)	6	369001260M	10/120

Body in nickel-plated brass.
Diaphragm: EPDM.
Spring: stainless steel.
Nominal pressure: 10 bar.
Working temperatures: 5°C - 110°C.
Opening overpressure: 20%.
Closing differential: 20%.
Available settings: 1,5 - 1,8 - 2,5 - 3 - 4 - 6 bar.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).



951

Direct distribution unit DN20



SIZE	PRESSURE	CODE	PACKING
1"	10bar/145psi	9510100090CP	1/1
1"	10bar/145psi	9510100090CPG	1/1

Flow coefficient Kv referring to the ball valve only.
Art. 9510100090CP with Wita pump.
Art. 9510100090CPG with Grundfos pump.

Supplied with insulation.
Kv = 23 m³/h.
Maximum operating pressure: 6 bar.
Maximum working temperature: 100°C.
System-side connection: 1".
Boiler-side connection: 1".
Centres distance: 90 mm.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Check valve on return circuit.
Reversible right - left.

952

Fixed point distribution and regulation unit DN20



SIZE	PRESSURE	CODE	PACKING
1"	10bar/145psi	9520100090CP	1/1
1"	10bar/145psi	9520100090CPG	1/1

Flow coefficient Kv referring to the mixing valve only.
Art. 9520100090CP with Wita pump.
Art. 9520100090CPG with Grundfos pump.

Supplied with insulation.
Kv = 7,5 m³/h.
Maximum operating pressure: 6 bar.
Maximum working temperature: 100°C.
System-side connection: 1".
Boiler-side connection: 1".
Centres distance: 90 mm.
Regulation of the flow temperature: 20°C – 70°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Check valve on return circuit.
Reversible right - left.

953

Motorised distribution and regulation unit DN20

Flow coefficient Kv referring to the mixing valve only.

Art. 9530100090230CP Model with 230V 3-point motor with Wita pump.

Art. 9530100090230CPG Model with 230V 3-point motor with Grundfos pump.

Art. 9530100090024CP Model with 24V motor (0-10V) with Wita pump.

Art. 9530100090024CPG Model with 24V motor (0-10V) with Grundfos pump.

SIZE	PRESSURE	CODE	PACKING
1"	10bar/145psi	9530100090230CP	1/1
1"	10bar/145psi	9530100090230CPG	1/1
1"	10bar/145psi	9530100090024CP	1/1
1"	10bar/145psi	9530100090024CPG	1/1

Supplied with insulation.

Kv = 7,5 m³/h.

Maximum operating pressure: 6 bar.

Maximum working temperature: 100°C.

System-side connection: 1".

Boiler-side connection: 1".

Centres distance: 90 mm.

Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

Check valve on return circuit.

Reversible right - left.

959

Distribution manifold with integrated hydraulic separator and adjustable by-pass

Art. 959010001 Distribution manifold for single zone.

Art. 959010002 Distribution manifold for two zones.

Art. 959010003 Distribution manifold for three zones.

SIZE	PRESSURE	CODE	PACKING
1"	10bar/145psi	959010001	1/3
1"	10bar/145psi	959010002	1/2
1"	10bar/145psi	959010003	1/1

Supplied with insulation and wall mounting brackets.

Distribution manifold in stainless steel AISI 304.

Maximum operating pressure: 6 bar.

Maximum working temperature: 100°C.

Suitable for flow rates up to 2 m³/h (for single zone).

Main connections: 1".

Outlet connections: 1".

Outlets centres distances: 90 mm.

Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).



820



Mechanical room thermostat with simple switching

CODE	PACKING
820	1/65

Max connection load (2 terminals): 16 (2,5) A/250 Vac.
Installation: wall mount.
Temperature setting range: 5°C, 30°C.
Thermal differential: $\pm 0,8^{\circ}\text{C}$.
Class of protection: IP20.
Dimensions: 71x71x38.
In compliance with directive: B.T. 73/23/CEE and EMC 89/336/CEE.

820C



Mechanical room thermostat with changeover switching

CODE	PACKING
820C	1/65

Max connection load (3 terminals): 16 (2,5) A/250Vac.
Installation: wall mount.
Temperature setting range: 5°C, 30°C.
Thermal differential: $\pm 0,8^{\circ}\text{C}$.
Class of protection: IP20.
Dimensions: 71x71x38.
In compliance with directive: B.T. 73/23/CEE and EMC 89/336/CEE.

820CS



Mechanical room thermostat with changeover switching, on/off functioning led

CODE	PACKING
820CS	1/65

Power supply voltage: 230V.
Max connection load (3 terminals): 10 (2,5) A/250Vac.
Installation: wall mount.
Temperature setting range: 5°C, 30°C.
Thermal differential: $\pm 0,8^{\circ}\text{C}$.
Class of protection: IP20.
Dimensions: 71x71x38.
In compliance with directive: B.T. 73/23/CEE and EMC 89/336/CEE.

950C

**Digital electronic room chronothermostat**

CODE	PACKING
950C	1/26

Power supply: 2 alkaline batteries 1,5V type AA.
Max relay contact load: 5 A 230 Vac resistive load.
Installation: wall mount or 3 module box flush mounts.
2-level temperature setting:
T1 (ECONOMY): 5-25°C; T2 (COMFORT): 15-35°C.
Thermal differential: $\pm 0,25^{\circ}\text{C}$.
Automatic battery level control with 2 warning levels.
Battery change is allowed without loss of data.
Daily and weekly setting with steps of $0,5^{\circ}\text{C}$.
Minimum setting period: 1/2 hour.
Functions: on/off.
Display of program and present hour or temperature.
Wall mount size: mm. 119x82x26,6.
3 module box flush mount size: mm. 119x82x18,7.
In compliance with directive: B.T. 73/23/CEE and EMC 89/336/CEE.

950ST

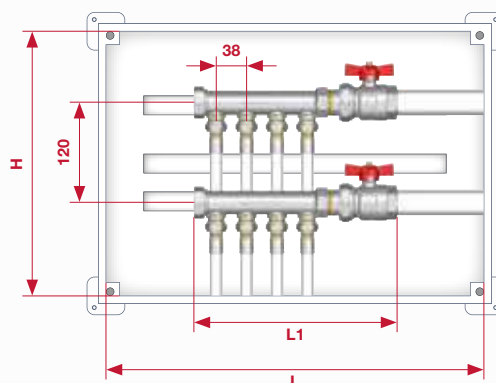
**Digital electronic room chronothermostat, touch screen**

CODE	PACKING
950ST	1/26

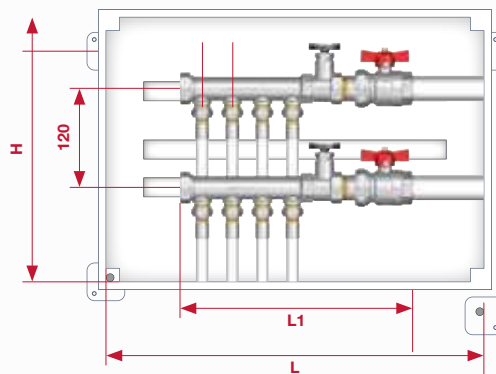
Power supply: 2 alkaline batteries AAA type 1,5V.
Relay contact load: 230Vac - 5A (resistive load).
Wall mounted installation.
2-level temperature setting:
WINTER mode: 5 -30°C
SUMMER mode: 15-35°C
Adjustable thermal differential: from $0,2^{\circ}\text{C}$ to 2°C
Automatic battery level control with 2 warning levels.
Battery change is allowed without loss of data.
Setting:
daily and weekly setting with step of $0,2^{\circ}\text{C}$ (WINTER) and $0,2^{\circ}\text{C}$ (SUMMER).
Possibility of programming any temperature within the setting ranges at any half-hour of the day for all days of the week.
Dimensions: mm. 123,5x83,5x31.



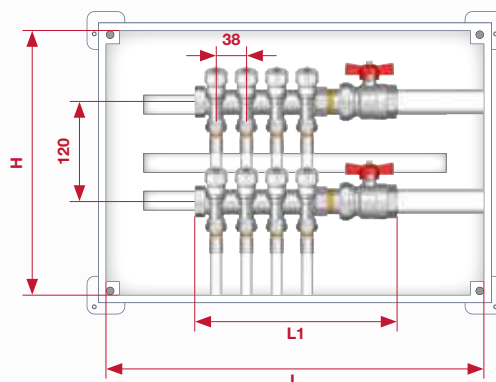
POSITIONING THE MANIFOLDS ART. 450 - 455 - 456 - 465 INTO PLASTIC BOXES



CODE	499.350.350		499.500.350		
LxH (mm)	350X350		500X350		
N° outlets	4	4+2	4+3	4+4	4+4+2
MANIFOLD	3/4"				
L1	243	319	357	396	472

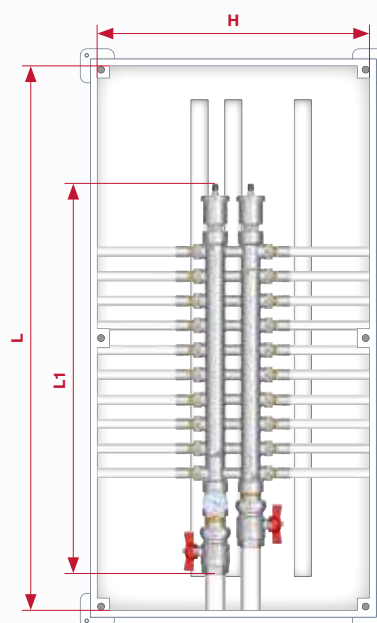
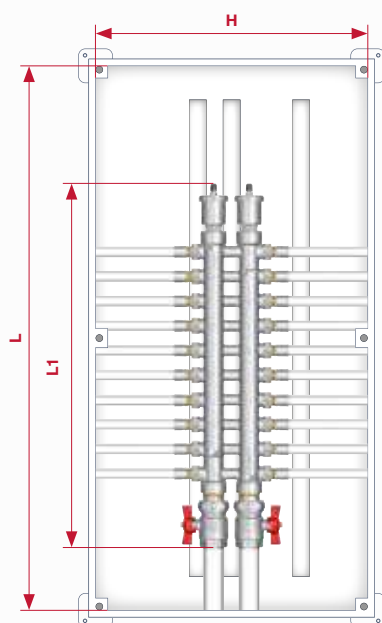


CODE	499.350.350	499.500.350		499.650.350	
LxH (mm)	350x350	500x350		650x350	
N° outlets	4	4+2	4+3	4+4	4+4+2
MANIFOLD	1"				
L1	290	367	405	443	520

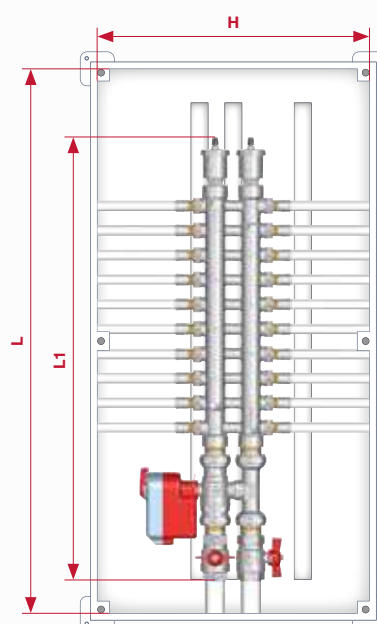
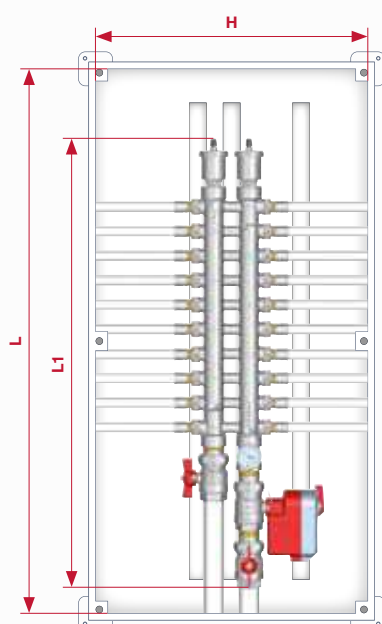


CODE	499.350.350		499.500.350		
LxH (mm)	350x350		500x350		
N° outlets	4	4+2	4+3	4+4	4+4+2
MANIFOLD	3/4" - 1"				
L1	243	319	357	396	472

POSITIONING THE MANIFOLDS ART. 885 INTO PLASTIC BOXES



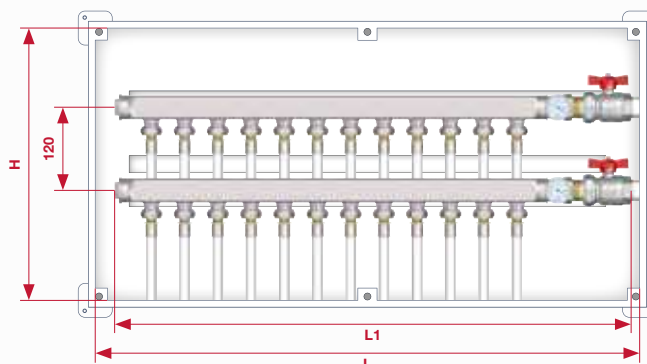
CODE	499.350.350	499.500.350	499.650.350	499.800.400
LxH (mm)	350x350	500x350	650x350	800x400
N° outlets	2+2	4+4	6+6	8+8
MANIFOLD	3/4"			
L1	246	322	398	550



CODE	499.500.350	499.650.350	499.800.400
LxH (mm)	500X350	650X350	800X400
N° outlets	2+2	4+4	6+6
MANIFOLD	3/4"		
L1	382	458	610

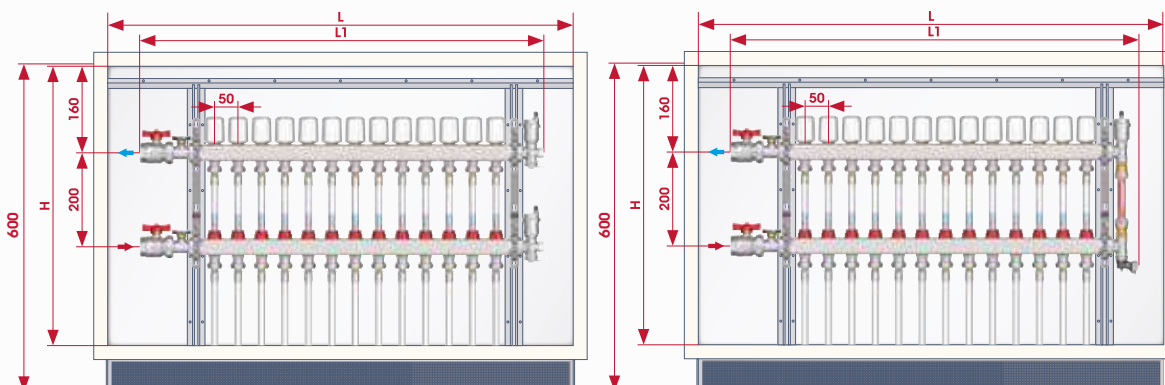


POSITIONING THE MANIFOLDS ART. 852 INTO PLASTIC BOXES

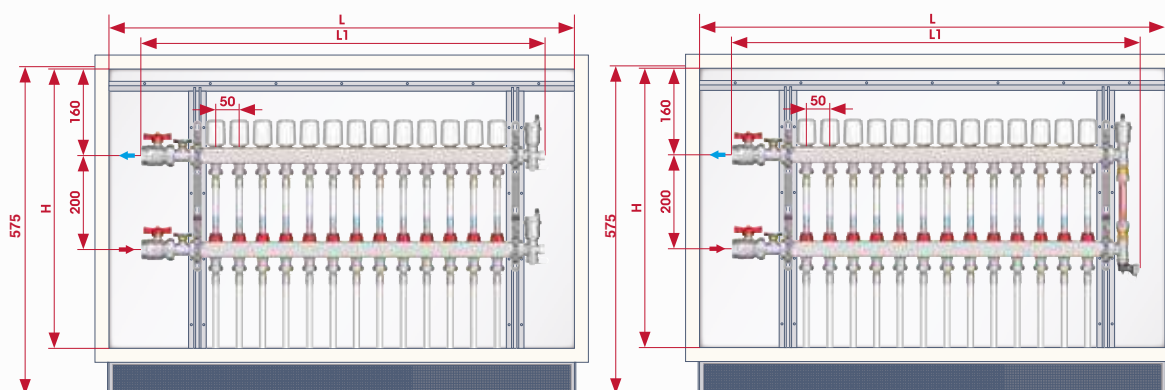


CODE	499.350.350	499.500.350	499.650.350	499.800.400
LxH (mm)	350x350	500x350	650x350	800x400
N° outlets	3	6	9	12
MANIFOLD	1"			
L1	318	468	618	768

POSITIONING THE MANIFOLDS ART. 862 INTO METAL BOXES ART. 498 - 498R

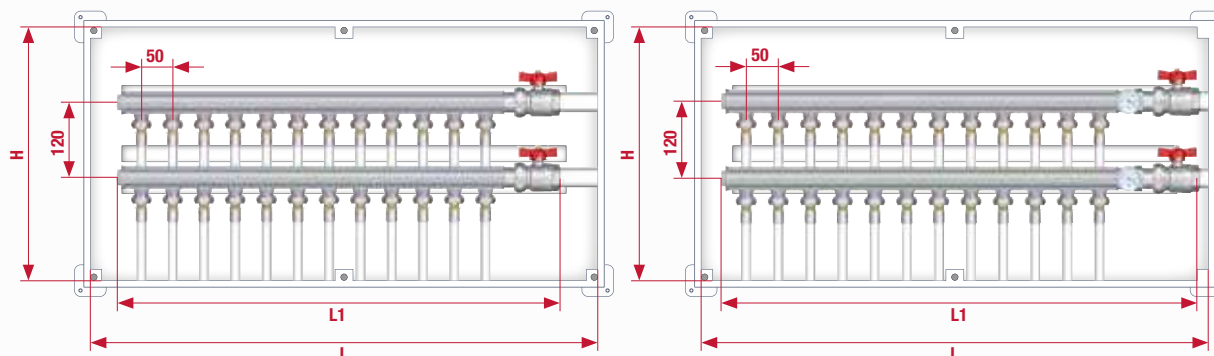


CODE	498.500.500	498.600.500	498.700.500	498.800.500	498.900.500	498.1000.500
LxH (mm)	500x500	600x500	700x500	800x500	900x500	1000x500
N° outlets	3-4	5-6	7-8	9-10	11-12	13
MANIFOLD	1"					
L1	425	525	625	725	825	875



CODE	498.500.450	498.600.450	498.700.450	498.850.450	498.1000.450
LxH (mm)	500x450	600x450	700x450	850x450	1000x450
N° outlets	3-4	5-6	7-8	9-10-11	12-13
MANIFOLD	1"				
L1	425	525	625	775	875

POSITIONING THE MANIFOLDS ART. 850 INTO PLASTIC BOXES

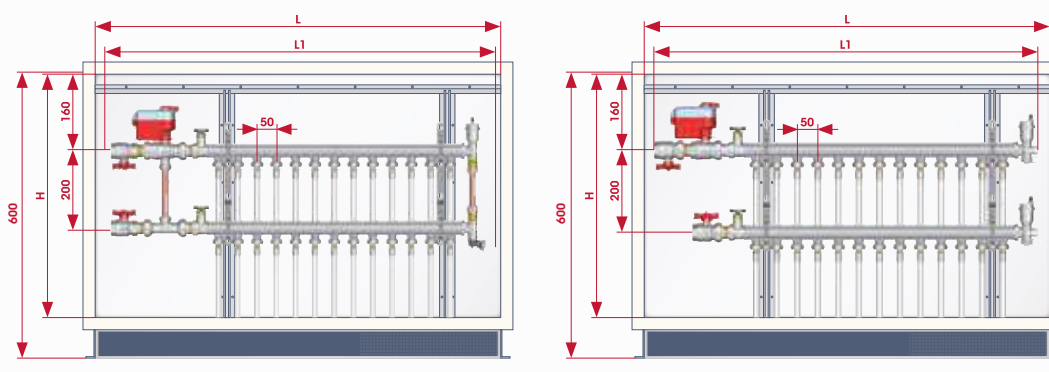


CODE	499.350.350	499.500.350	499.650.350	499.800.400
LxH (mm)	350x350	500x350	650x350	800x400
N° outlets	5	8	10	
MANIFOLD	3/4"			
L1	330	480	580	

CODE	499.350.350	499.500.350	499.650.350	499.800.400
LxH (mm)	350x350	500x350	650x350	800x400
N° outlets	4	7	10	12
MANIFOLD	1"			
L1	335	485	635	735

CODE	499.350.350	499.500.350	499.650.350	499.800.400
LxH (mm)	350x350	500x350	650x350	800x400
N° outlets	3	6	9	12
MANIFOLD	1" 1/4			
L1	300	450	600	750

POSITIONING THE MANIFOLDS ART.850 INTO METAL BOXES ART. 498

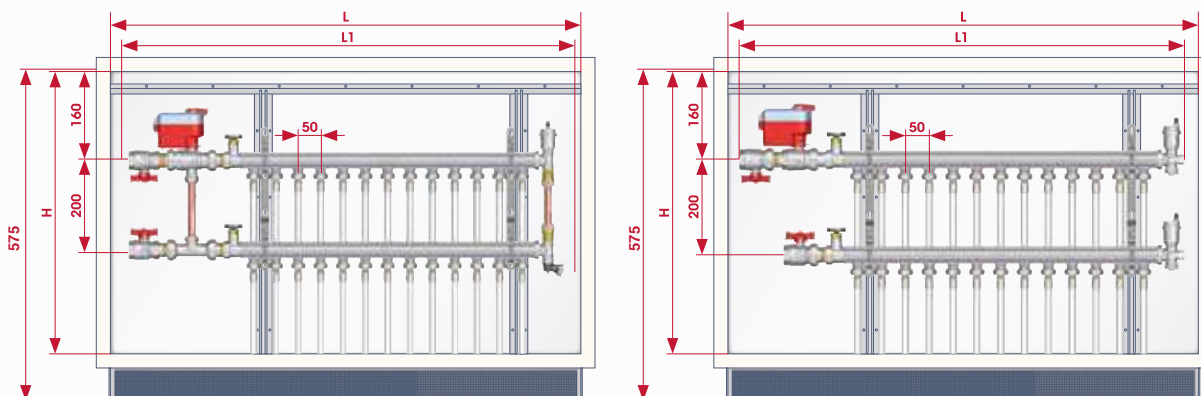


CODE	498.500.500	498.600.500	498.700.500	498.800.500
LxH (mm)	500x500	600x500	700x500	800x500
N° outlets	3-4	5-6	7-8	9-10
MANIFOLD	3/4"			
L1	435	535	635	735

CODE	498.600.500	498.700.500	498.800.500	498.900.500	498.1000.500	498.1100.500
LxH (mm)	600x500	700x500	800x500	900x500	1000x500	1100x500
N° outlets	3-4	5-6	7-8	9-10	11-12	13
MANIFOLD	1" - 1" 1/4					
L1	530	630	730	830	930	980



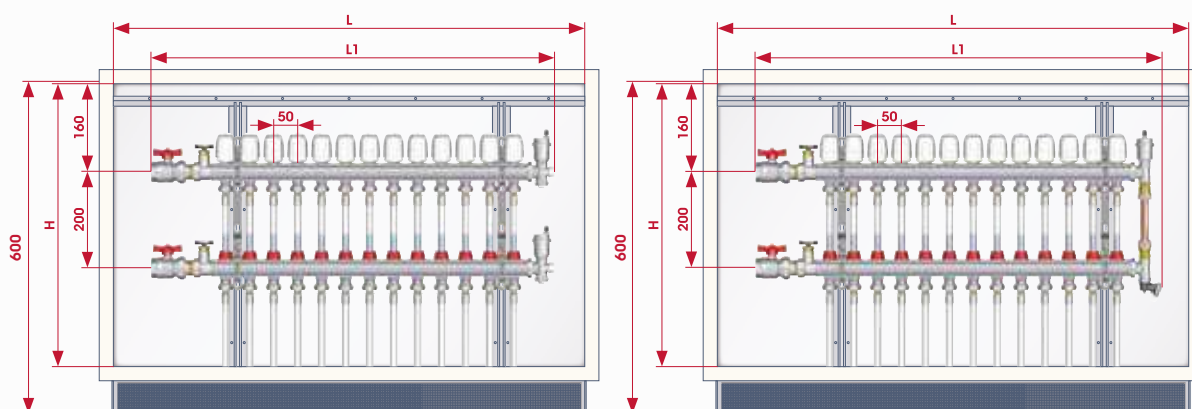
POSITIONING THE MANIFOLDS ART. 850 INTO METAL BOXES ART. 498R



CODE	498.500.450	498.600.450	498.700.450	498.850.450
LxH (mm)	500x450	600x450	700x450	850x450
N° outlets	3-4	5-6	7-8	9-10
MANIFOLD	3/4"			
L1	435	535	635	735

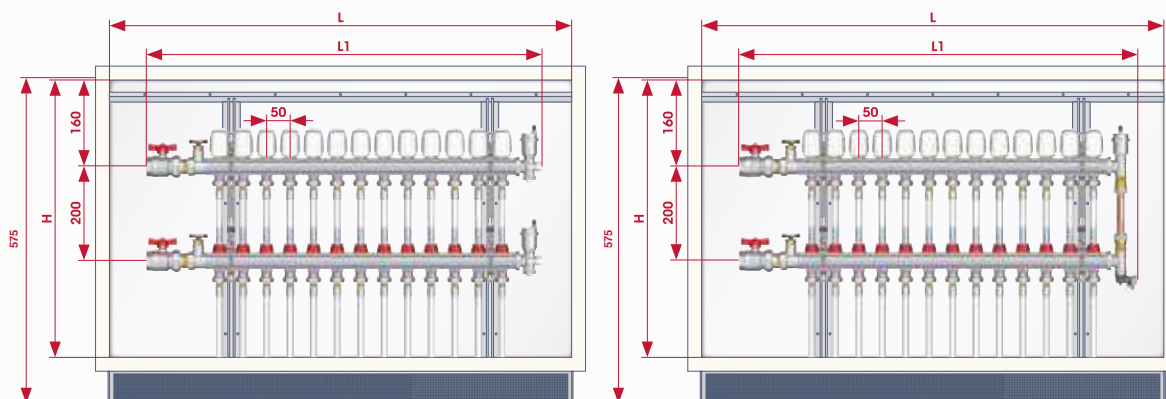
CODE	498.600.450	498.700.450	498.850.450	498.1000.450	498.1100.450
LxH (mm)	600x450	700x450	850x450	1000x450	1100x450
N° outlets	3-4	5-6	7-8-9	10	11-12-13
MANIFOLD	1" - 1 1/4"				
L1	530	630	780	830	980

POSITIONING THE MANIFOLDS ART. 860 INTO METAL BOXES ART. 498



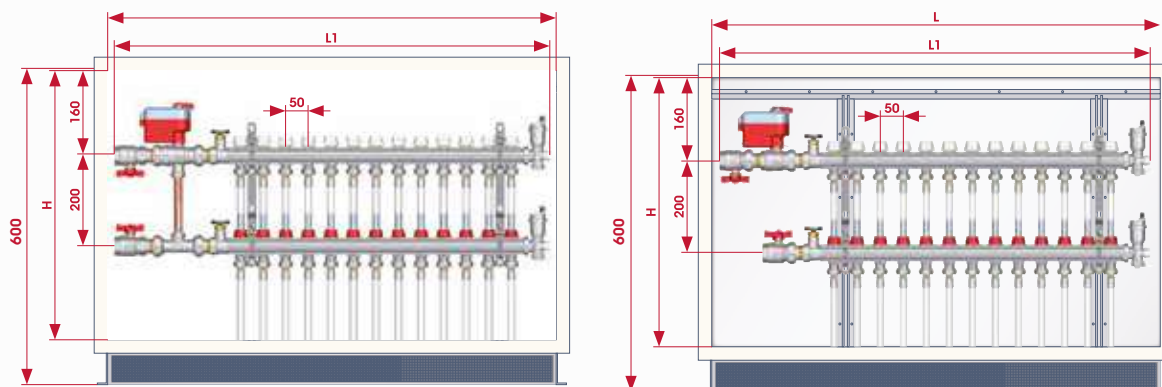
CODE	498.500.500	498.600.500	498.700.500	498.800.500	498.900.500
LxH (mm)	500x500	600x500	700x500	800x500	900x500
N° outlets	3-4	5-6	7-8	9-10	11-12-13
MANIFOLD	1" - 1 1/4"				
L1	415	515	615	715	815

POSITIONING THE MANIFOLDS ART. 860 INTO METAL BOXES ART. 498R



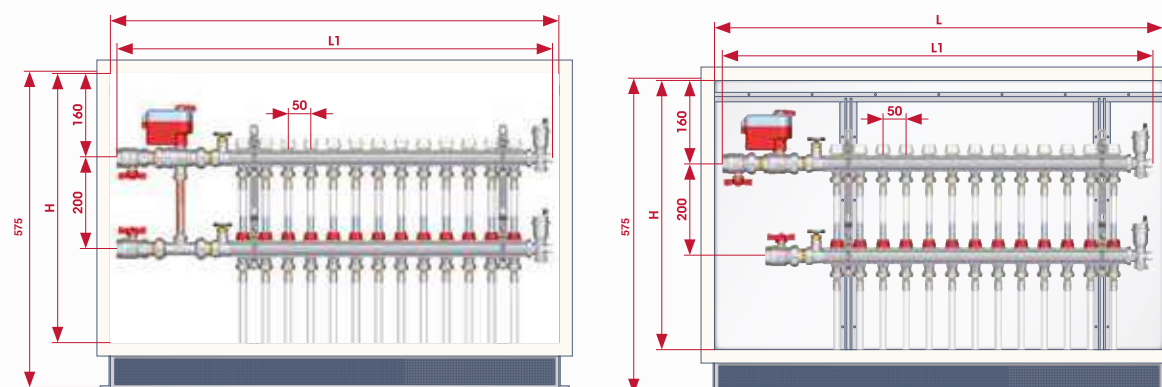
CODE	498.500.450	498.600.450	498.700.450	498.850.450	498.1000.450
LxH (mm)	500x450	600x450	700x450	850x450	1000x450
N° outlets	3-4	5-6	7-8	9-10-11	12-13
MANIFOLD	1" - 1"1/4				
L1	415	515	615	765	865

POSITIONING THE MANIFOLDS ART. 860 WITH ZONE BALL VALVES INTO METAL BOXES ART. 498



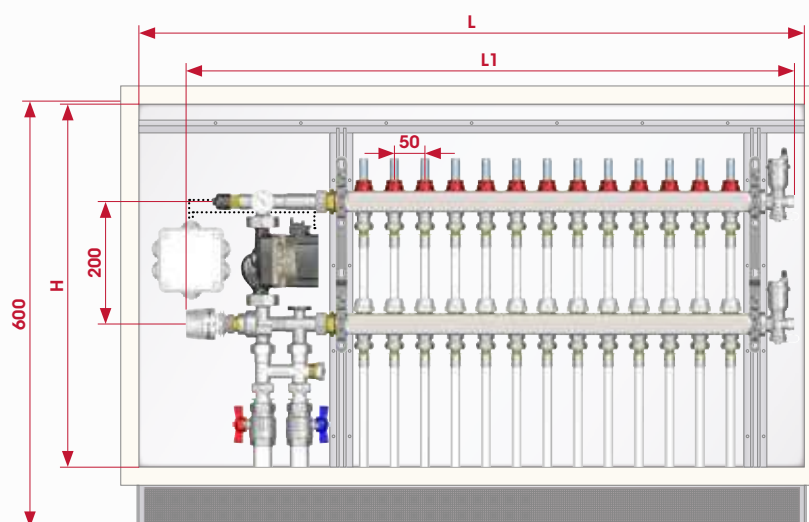
CODE	498.600.500	498.700.500	498.800.500	498.900.500	498.1000.500	498.1100.500
LxH (mm)	600x500	700x500	800x500	900x500	1000x500	1100x500
N° outlets	3-4	5-6	7-8	9-10	11-12	13
MANIFOLD	1" - 1"1/4					
L1	530	630	730	830	930	980

POSITIONING THE MANIFOLDS ART. 860 WITH ZONE BALL VALVES INTO METAL BOXES ART. 498R



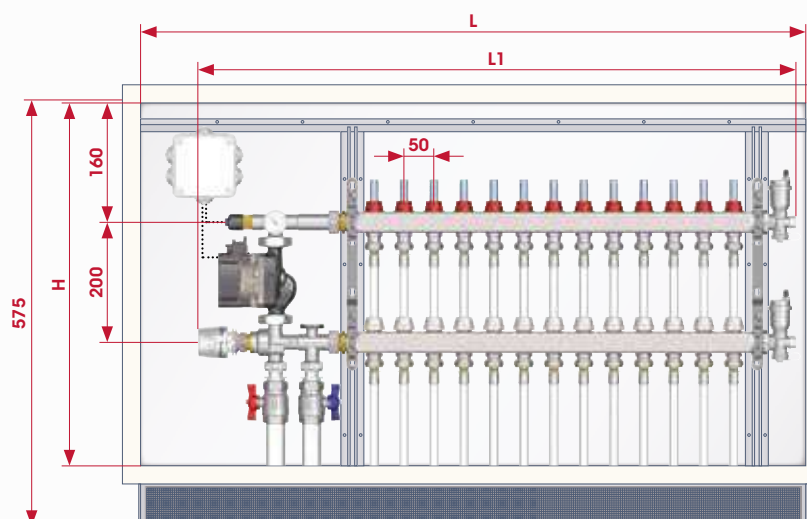
CODE	498.600.450	498.700.450	498.850.450	498.1000.450	498.1100.450
LxH (mm)	600x450	700x450	850x450	1000x450	1100x450
N° outlets	3-4	5-6	7-8-9	10	11-12-13
MANIFOLD	1" - 1"1/4				
L1	530	630	780	830	980

POSITIONING THE REGULATING UNIT INTO METAL BOXES ART. 498



CODE	498.600.500	498.700.500	498.800.500	498.900.500	498.1000.500	498.1100.500
LxH (mm)	600x500	700x500	800x500	900x500	1000x500	1100x500
N° outlets	2-3	4-5	6-7	8-9	10-11	12-13
MANIFOLD	1"					
L1	495	595	695	795	895	995

POSITIONING THE REGULATING UNIT INTO METAL BOXES ART. 498R



CODE	498.600.450	498.700.450	498.850.450	498.1000.450	498.1100.450
LxH (mm)	600x450	700x450	850x450	1000x450	1100x450
N° outlets	2-3	4-5	6-7	8-9-10	11-12-13
MANIFOLD	1"				
L1	495	595	695	845	995







Fittings for multilayer, PEX, polybutylene and copper pipe	156-161
Push-fit fittings for copper, PEX and polybutylene pipe	162-167
VX fittings for polyethylene pipe	168-173
VX-N fittings for polyethylene pipe	174-175
Mechanical fittings and accessories	176-178



THE SIMPLE, FAST AND MONEY SAVING SYSTEM FOR MULTILAYER, PEX AND POLYBUTYLENE PIPE



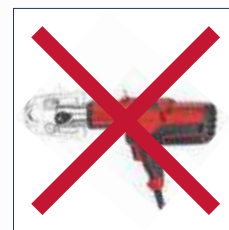
ADVANTAGES

- NO NEED TO REAM THE PIPE
- FIT FOR EVERY KIND OF MULTILAYER PIPE
- THE CONNECTION IS REVERSIBLE
- SUITABLE FOR SANITARY AND HEATING PLANTS
- NO NEED TO PRESS. NO NEED TO TIGHTEN.
- NO SPECIAL EQUIPMENT IS REQUIRED FOR THE INSTALLATION

FOUR SIMPLE STEPS FOR A SAFE INSTALLATION



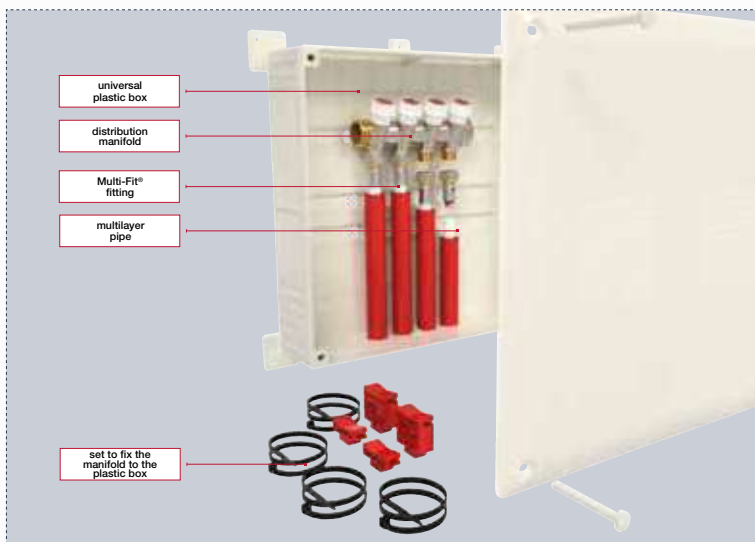
1. Cut the pipe by a pipe cutter.
2. Deburr the inner side of the pipe.
3. Insert the fitting into the pipe.
4. Once the threaded part of the fitting reaches the pipe, screw the tail into the pipe as far as the thread has completely entered the pipe. THE CONNECTION IS SAFE AND EASILY REVERSIBLE.



The fittings are supplied with an o-ring for conical seats and a flat washer for flat seats.

multi-fit®

MANIFOLD WATER DISTRIBUTION SYSTEM



NO MORE BUILD-IN TEE AND ELBOW UNIVERSAL JUNCTIONS

NO MORE LEAKAGES

REALLY MAKE THE MOST OF MULTILAYER PIPING FLEXIBILITY AND INSTALLATION SPEED

IMPROVE THE WATER FLOW

MAKE REPAIRS EASY AND FAST

EACH ENDPOINT CONNECTED TO A SINGLE MANIFOLD OUTLET

COMPRESSION FITTINGS FOR MULTILAYER, PEX, POLYBUTYLENE AND COPPER PIPE



CON OGIVA NERA PER
IMPIANTI IDRICI
E USO ALIMENTARE
**CONFORMI ALLA NORMA
UNI EN 1254-2**

USE OF THE FITTINGS



885 DUAL DISTRIBUTION MANIFOLD.
1/2" male outlets, conical seat



850 DISTRIBUTION MANIFOLD
MADE OUT OF BRASS BAR.



518 MALE/MALE ADAPTER



852 DISTRIBUTION MANIFOLD IN STAINLESS STEEL



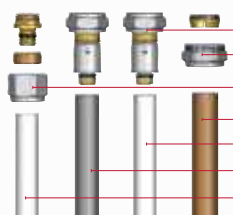
518 MALE/MALE ADAPTER



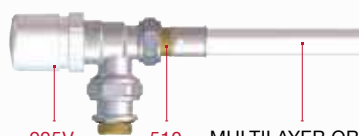
465 DISTRIBUTION MANIFOLD WITH SHUT-OFF VALVES
1/2" male outlets, conical seat DI INTERCETTAZIONE.
Derivazioni maschio con sede conica 1/2".



455 DISTRIBUTION MANIFOLD
1/2" male outlets, conical seat



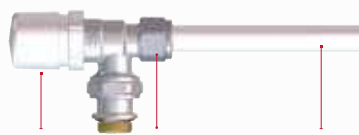
510 **multiFit**
595
595M NUT AND ADAPTER
MULTILAYER PIPE
PEX PIPE
POLYBUTYLENE PIPE
MULTILAYER PIPE



995V **510** MULTILAYER OR PEX PIPE



995V **595** COPPER PIPE



995V **595M** MULTILAYER PIPE



395 **595** COPPER PIPE



510



The fittings are supplied with an o-ring for conical seats and a flat washer for flat seats. KIWA certified fitting only with o-ring for conical seats.



Multi-Fit® fitting for multilayer, PEX and polybutylene pipe

Available size with 1/2" nut

SIZE	CODE	PACKING
14x2	510001214200	20/180
16X2	510001216200	20/180
16x2,25	510001216225	20/180
18x2	510001218200	15/135
20x2	510001220200	15/135
20x2,25	510001220225	15/135
20x2,5	510001220250	15/135

Available size with 3/4" nut EUROKONUS

SIZE	CODE	PACKING
16X2	510003416200	20/140
18x2	510003418200	15/105
20x2	510003420200	15/120
20x2,25	510003420225	15/105
25x2,5	510003425250	10/70
26x3	510003426300	10/80

Available size with 1" nut

SIZE	CODE	PACKING
25x2,5	510010025250	10/110
26x3	510010026300	10/120
32x3	510010032300	10/80

PATENTED

Nut in nickel-plated brass.

Tail in brass.

Maximum working pressure: 20 bar.

Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

Minimum and maximum working temperature: -20°C, 110°C.

595M



Nut and adapter for multilayer pipe

Available size with 1/2" nut

SIZE	CODE	PACKING
1/2"-14X2	595001214200M	20/200
1/2"-16X2	595001216200MI	20/200
1/2"-16X2,25	595001216225M	20/300

Available size with 3/4" nut EUROKONUS

SIZE	CODE	PACKING
3/4"-16X2	595003416200MI	20/200
3/4"-18X2	595003418200M	20/300
3/4"-20X2	595003420200MI	20/200

Minimum and maximum working temperature: -20°C, 110°C.

Maximum working pressure: 10 bar.

1/2" male thread suitable for conical seats with an inner diameter of 16mm.

595P



Nut and adapter for PEX pipe

Available size with 3/4" nut EUROKONUS

SIZE	CODE	PACKING
3/4" - 16X1,5	595003416150P	20/300
3/4" - 16X1,8	595003416180P	20/120
3/4" - 16X2	595003416200P	20/300
3/4" - 17X2	595003417200P	20/300
3/4" - 20X1,9	595003420190P	25/150
3/4" - 20X2	595003420200P	20/300

Minimum and maximum working temperature: -20°C, 110°C.

Maximum working pressure: 10 bar.

595



COMPRESSION FITTINGS FOR COPPER
PIPES.
WATER SYSTEMS AND FOOD USE.



COMPRESSION FITTINGS FOR COPPER PIPE

WITH BLACK OLIVE FOR WATER SYSTEMS AND FOOD USE

SIZE	CODE	PACKING
1/2"x10	595001210	50/300
1/2"x12	595001212	50/300
1/2"x14	595001214	50/300
1/2"x15	595001215	50/300
1/2"x16	595001216	50/300

SIZE	CODE	PACKING
3/4"x15	595003415	25/150
3/4"x18	595003418	25/150

ACCORDING TO UNI EN 1254-2 STANDARD

The olive complies with EN 681-1 standard.
Minimum and maximum working temperatures: 0°C, 90°C.
Maximum working pressure: 10 bar.
1/2" male thread suitable for conical seats with an inner diameter of 16mm.
3/4" thread suitable for EUROKONUS standard.

509



Straight female connector

Available sizes: 1/2"x1/2", 1/2"Mx3/4"F, 3/4"x3/4" eurokonus

SIZE	CODE	PACKING
1/2"x1/2"	5090012012	20/520
1/2"x3/4"	5090012034	15/390
3/4"x3/4"	5090034034	12/312

Male thread 1/2" equipped with a conical seat and inner diameter mm.16.
Male thread 3/4" eurokonus.
Maximum working pressure: 20 bar.

515



Straight male connector

Available sizes: 1/2"x1/2", 1/2"x3/4"eurokonus, 3/4"x3/4" eurokonus, 1"x1"

SIZE	CODE	PACKING
1/2"x1/2"	5150012012	30/660
1/2"x3/4"	5150012034	20/440
3/4"x3/4"	5150034034	20/280
1" x 1"	5150100100	8/208

Male thread 1/2" equipped with a conical seat and inner diameter mm.16.
Male thread 3/4" eurokonus.
Male thread 1" equipped with a conical seat and inner diameter mm.22.
Maximum working pressure: 20 bar.

530



Equal T coupling

Available sizes: 1/2"x1/2"x1/2", 3/4"x3/4"x3/4" eurokonus, 1"x1"x1"

SIZE	CODE	PACKING
1/2"	5300012012	16/224
3/4"	5300034034	8/112
1"	5300100100	6/84

Male thread 1/2" equipped with a conical seat and inner diameter mm.16.
Male thread 3/4" eurokonus.
Male thread 1" equipped with a conical seat and inner diameter mm.22.
Maximum working pressure: 20 bar.



535



Female branch T coupling

Available sizes: 1/2"x1/2"x1/2", 3/4"x3/4"x3/4" eurokonus

SIZE	CODE	PACKING
1/2"	5350012012	14/196
3/4"	5350034034	8/112

Male thread 1/2" equipped with a conical seat and inner diameter mm.16.
Male thread 3/4" eurokonus.
Maximum working pressure: 20 bar.

540



Male elbow

Available sizes: 1/2"x1/2", 1/2"x3/4"eurokonus, 3/4"x3/4" eurokonus, 1"x1"

SIZE	CODE	PACKING
1/2"x1/2"	5400012012	18/396
1/2"x3/4"	5400012034	13/286
3/4"x3/4"	5400034034	10/220
1"x1"	5400100100	8/112

Male thread 1/2" equipped with a conical seat and inner diameter mm.16.
Male thread 3/4" eurokonus.
Male thread 1" equipped with a conical seat and inner diameter mm.22.
Maximum working pressure: 20 bar.

545



Female elbow

Available sizes: 1/2"x1/2", 1/2"x3/4" eurokonus, 3/4"x3/4" eurokonus

SIZE	CODE	PACKING
1/2"x1/2"	5450012012	14/308
1/2"x3/4"	5450012034	8/176
3/4"x3/4"	5450034034	8/176

Male thread 1/2" equipped with a conical seat and inner diameter mm.16.
Male thread 3/4" eurokonus.
Maximum working pressure: 20 bar.

548



Backplate female elbow

Available sizes: 1/2"x1/2", 3/4"x3/4" eurokonus

SIZE	CODE	PACKING
1/2"	5480012012	12/168
3/4"	5480034034	8/112

Male thread 1/2" equipped with a conical seat and inner diameter mm.16.
Male thread 3/4" eurokonus.
Maximum working pressure: 20 bar.

578



Metal template with 2 backplate elbows

SIZE	CODE	PACKING
1/2"	578012012	6/30
3/4"	578034034	4/20

It allows the greatest accuracy during the installation of Multi-Fit® fittings.
Centres distances: mm.100, mm.127, mm.150, mm.177, mm.200.
Available sizes: 1/2"x1/2", 3/4"x3/4" eurokonus.
Male thread 1/2" equipped with a conical seat and inner diameter mm.16.
Male thread 3/4" eurokonus.
Maximum working pressure: 20 bar.

518N



G

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.



Male/male adapter - 1" manifolds

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

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).

519N



It is also suitable as adapter for flow meters on 1"1/4 manifolds.

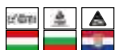


Male/male adapter - 1"1/4 manifolds

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

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).

494



Male end cap with o-ring

SIZE	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

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).

680



Pipe deburring tool

CODE	PACKING
680012028	1/80

Suitable for pipes with diameter from 4mm to 36mm.
Material: polymer.

570



Connecting/disconnecting tool

CODE	PACKING
570014026	1/60



PUSH-FIT FITTINGS FOR COPPER, PEX AND POLYBUTYLENE



ADVANTAGES

- SAVING OF TIME DURING THE INSTALLATION AS FAR AS 90%.
- SUITABLE FOR HEATING AND SANITARY SYSTEMS
- NO NEED OF SPECIAL OR EXPENSIVE TOOLS FOR THE INSTALLATION
- REVERSIBLE INSTALLATION

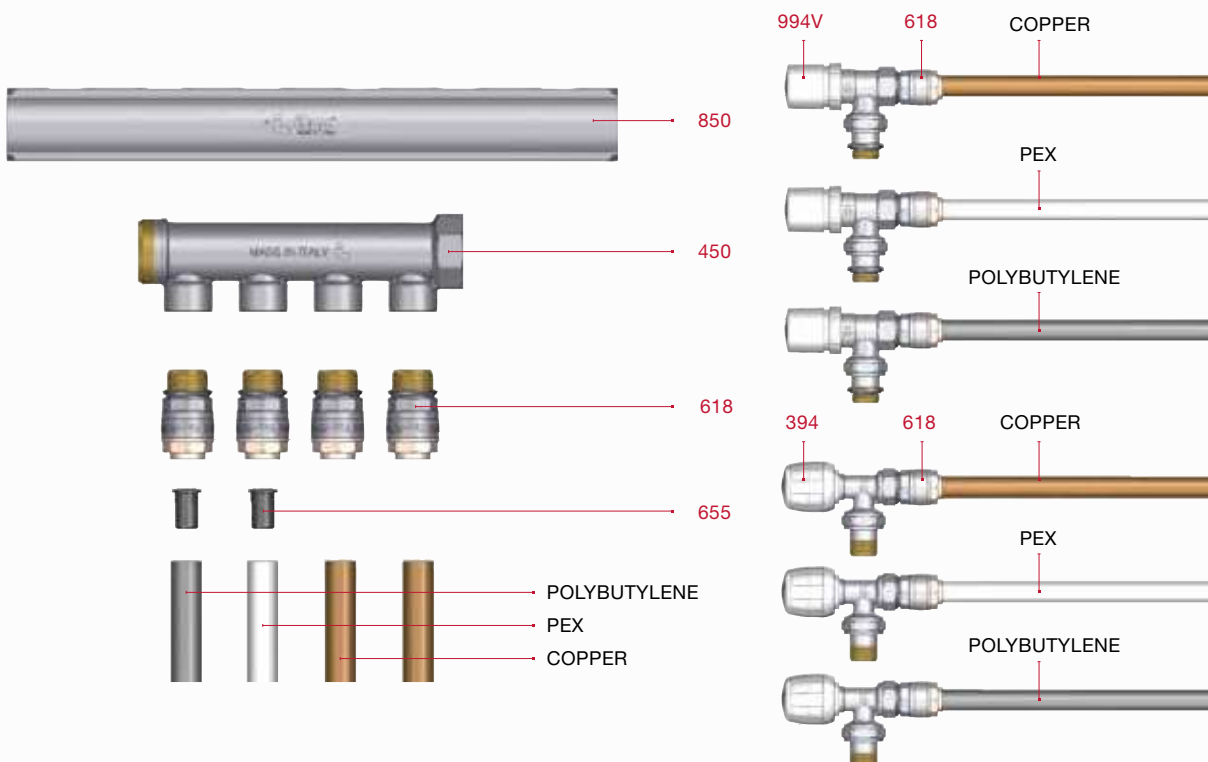
FOUR SIMPLE STEPS FOR A SAFE INSTALLATION



1. Cut the pipe by a rotary pipe cutter.
2. Deburr the external surface of the pipe.
3. Insert the pipe in the depth gauge and mark the pipe.
4. Insert the pipe by pushing it as far as it reaches the blocking point, that should correspond to the mark made before. If you are using cross-linked polyethylene pipes (PEX) or polybutylene pipes you have to insert the liner before the connection.

5. To disconnect the fitting you just need to push the release liner by the clip and at the same time pull the pipe.

USE OF THE FITTINGS WITH COPPER, PEX AND POLYBUTYLENE



610

**Straight female connector**

SIZE	CODE	PACKING
12x3/8"	610B038012	18/252
12x1/2"	610B012012	14/196
14x1/2"	610B012014	14/196
15x1/2"	610B012015	14/196
16x1/2"	610B012016	14/196
18x1/2"	610B012018	7/182
18x3/4"	610B034018	7/182
20x1/2"	610B012020	10/140
22x3/4"	610B034022	5/130
25x3/4"	610B034025	8/112
28x1"	610B100028	5/55

Bodies in de-zincification resistant brass (DZR).
 Minimum and maximum working temperatures: -20°C, 120°C (allowed peaks of 150°C).
 Nominal pressure:
 Copper pipe: 20bar at 25°C, 10bar at 90°C.
 PEX and polybutylene pipes: 12bar at 25°C, 5 bar at 90°C.
 Threads: ISO 7/1 (equivalent to DIN EN 10226-1 and BS EN 10226-1).

615

**Straight male connector**

SIZE	CODE	PACKING
12x3/8"	615B038012	24/336
12x1/2"	615B012012	18/252
14x3/8"	615B038014	18/252
14x1/2"	615B012014	18/252
15x1/2"	615B012015	18/252
16x1/2"	615B012016	15/210
18x1/2"	615B012018	15/180
18x3/4"	615B034018	15/180
20x1/2"	615B012020	14/168
22x3/4"	615B034022	12/144
25x3/4"	615B034025	11/99
28x1"	615B100028	8/96

Bodies in de-zincification resistant brass (DZR).
 Minimum and maximum working temperatures: -20°C, 120°C (allowed peaks of 150°C).
 Nominal pressure:
 Copper pipe: 20bar at 25°C, 10bar at 90°C.
 PEX and polybutylene pipes: 12bar at 25°C, 5 bar at 90°C.
 Threads: ISO 7/1 (equivalent to DIN EN 10226-1 and BS EN 10226-1).

620

**Straight coupling**

SIZE	CODE	PACKING
12	620C000012	12/168
14	620C000014	12/168
15	620C000015	12/168
16	620C000016	12/168
18	620C000018	12/144
20	620C000020	10/110
22	620C000022	8/96
25	620C000025	7/84
28	620C000028	6/66

Bodies in de-zincification resistant brass (DZR).
 Minimum and maximum working temperatures: -20°C, 120°C (allowed peaks of 150°C).
 Nominal pressure:
 Copper pipe: 20bar at 25°C, 10bar at 90°C.
 PEX and polybutylene pipes: 12bar at 25°C, 5 bar at 90°C.



625



Suitable as PLUG IN ORDER TO TEST
INSTALLATIONS with copper, PEX, PB,
multilayer pipes.
The fitting is usable again.



Stop end

SIZE	CODE	PACKING
12	625C000012	30/420
14	625C000014	25/350
15	625C000015	25/350
16	625C000016	25/350
18	625C000018	16/224
20	625C000020	14/196
22	625C000022	8/208

Body in brass.

Minimum and maximum working temperatures: -20°C, 120°C (allowed peaks of 150°C).

Nominal pressure:

Copper pipe: 20bar at 25°C, 10bar at 90°C.

PEX and polybutylene pipes: 12bar at 25°C, 5 bar at 90°C.

630



Equal T coupling

SIZE	CODE	PACKING
12x12x12	630C000012	8/112
14x14x14	630C000014	6/84
15x15x15	630C000015	6/84
16x16x16	630C000016	6/84
18x18x18	630C000018	6/54
20x20x20	630C000020	5/45
22x22x22	630C000022	5/45
25x25x25	630C000025	5/35
28x28x28	630C000028	4/24

Bodies in de-zincification resistant brass (DZR).

Minimum and maximum working temperatures: -20°C, 120°C (allowed peaks of 150°C).

Nominal pressure:

Copper pipe: 20bar at 25°C, 10bar at 90°C.

PEX and polybutylene pipes: 12bar at 25°C, 5 bar at 90°C.

635



Female branch T coupling

SIZE	CODE	PACKING
14x1/2"	635B012014	6/84
15x1/2"	635B012015	6/84
16x1/2"	635B012016	6/84
18x1/2"	635B012018	6/72
18x3/4"	635B034018	6/72
20x1/2"	635B012020	8/72
22x3/4"	635B034022	6/54
25x3/4"	635B034025	6/54
28x1"	635B100028	4/24

Bodies in de-zincification resistant brass (DZR).

Minimum and maximum working temperatures: -20°C, 120°C (allowed peaks of 150°C).

Nominal pressure:

Copper pipe: 20bar at 25°C, 10bar at 90°C.

PEX and polybutylene pipes: 12bar at 25°C, 5 bar at 90°C.

Threads: ISO 7/1 (equivalent to DIN EN 10226-1 and BS EN 10226-1).

640

**Male elbow**

SIZE	CODE	PACKING
12x3/8"	640B038012	12/168
12x1/2"	640B012012	12/168
14x1/2"	640B012014	12/168
15x1/2"	640B012015	12/168
16x1/2"	640B012016	10/140
18x1/2"	640B012018	10/140
18x3/4"	640B034018	10/120
20x1/2"	640B012020	10/120
22x3/4"	640B034022	8/96
25x3/4"	640B034025	8/72
28x1"	640B100028	6/54

Bodies in de-zincification resistant brass (DZR).
Minimum and maximum working temperatures: -20°C, 120°C (allowed peaks of 150°C).
Nominal pressure:
Copper pipe: 20bar at 25°C, 10bar at 90°C.
PEX and polybutylene pipes: 12bar at 25°C, 5 bar at 90°C.
Threads: ISO 7/1 (equivalent to DIN EN 10226-1 and BS EN 10226-1).

645

**Female elbow**

SIZE	CODE	PACKING
12x3/8"	645B038012	12/168
12x1/2"	645B012012	12/168
14x1/2"	645B012014	12/168
15x1/2"	645B012015	12/168
16x1/2"	645B012016	10/140
18x1/2"	645B012018	10/120
18x3/4"	645B034018	10/120
20x1/2"	645B012020	10/120
22x3/4"	645B034022	8/96
25x3/4"	645B034025	8/72
28x1"	645B100028	6/54

Bodies in de-zincification resistant brass (DZR).
Minimum and maximum working temperatures: -20°C, 120°C (allowed peaks of 150°C).
Nominal pressure:
Copper pipe: 20bar at 25°C, 10bar at 90°C.
PEX and polybutylene pipes: 12bar at 25°C, 5 bar at 90°C.
Threads: ISO 7/1 (equivalent to DIN EN 10226-1 and BS EN 10226-1).

648

**Backplate female elbow**

SIZE	CODE	PACKING
14x1/2"	648B012014	6/84
15x1/2"	648B012015	6/84
16x1/2"	648B012016	6/84

Bodies in de-zincification resistant brass (DZR).
Minimum and maximum working temperatures: -20°C, 120°C (allowed peaks of 150°C).
Nominal pressure:
Copper pipe: 20bar at 25°C, 10bar at 90°C.
PEX and polybutylene pipes: 12bar at 25°C, 5 bar at 90°C.
Threads: ISO 7/1 (equivalent to DIN EN 10226-1 and BS EN 10226-1).



650



Elbow coupling

SIZE	CODE	PACKING
12	650C000012	12/168
14	650C000014	10/140
15	650C000015	10/140
16	650C000016	10/140
18	650C000018	10/120
20	650C000020	8/72
22	650C000022	8/72
25	650C000025	6/72
28	650C000028	5/60

Bodies in de-zincification resistant brass (DZR).
Minimum and maximum working temperatures: -20°C, 120°C (allowed peaks of 150°C).
Nominal pressure:
Copper pipe: 20bar at 25°C, 10bar at 90°C.
PEX and polybutylene pipes: 12bar at 25°C, 5 bar at 90°C.
Threads: ISO 7/1 (equivalent to DIN EN 10226-1 and BS EN 10226-1).

618



Nickel-plated straight male connector with an o-ring

SIZE	CODE	PACKING
12x1/2"	6180012012	18/252
14x1/2"	6180012014	18/252
16x1/2"	6180012016	15/210

Designed to be used with Itap radiator valves, either manual or thermostatic, with a female thread, and with simple manifolds, with female outlets.
Of course, it may be used with any radiator valve or manifold, as long as they are equipped with 1/2" female connections.
Body in nickel-plated brass.
O-ring in EPDM.
Minimum and maximum working temperatures: -20°C, 120°C (allowed peaks of 150°C).
Nominal pressure: Copper pipe: 20bar at 25°C, 10bar at 90°C.
PEX and polybutylene pipes: 12bar at 25°C, 5 bar at 90°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

655



Liner

SIZE	CODE	PACKING
12 x 1,1 14 x 2	655BU012110	50/1500
12 x 1,8	655BU012180	50/1500
15 x 1,8 16 x 2,2 16 x 2,3	655BU015180	50/1500
15 x 2,5	655BU015250	50/1500
16 x 1,5 17 x 2 18 x 2,5	655BU016150	50/1500
16 x 2	655BU016200	50/1500
20 x 1,9 20 x 2 22 x 3	655BU020190	40/1200
20 x 2,8	655BU020280	40/1200
22 x 2 22 x 2,1 25 x 3,5	655BU022200	40/1200

The liner has to be inserted into cross-linked polyethylene or polybutylene pipes before the joint to Itap-Fit® fittings is made.

CODE	EXTERNAL PIPE DIAMETER x PIPE THICKNESS (mm)
655BU012110	12X1.1, 14X2
655BU012180	12X1.8
655BU015180	15X1.8, 16X2.2, 16X2.3
655BU015250	15X2.5
655BU016150	16X1.5, 17X2, 18X2.5
655BU016200	16X2
655BU020190	20X1.9, 20X2, 22X3
655BU020280	20X2.8
655BU022200	22X2, 22X2.1, 25X3.5

671

**Disconnecting clip**

SIZE	CODE	PACKING
12	671012	10/600
14	671014	10/600
15	671015	10/600
16	671016	10/600
18	671018	10/500
20	671020	10/500
22	671022	10/500
25	671025	10/400
28	671028	10/400

685

**Depth gauge**

CODE	PACKING
685012028	1/50

680

**Pipe deburring tool**

CODE	PACKING
680012028	1/80

Suitable for pipes with diameter from 4mm to 36mm.
Material: polymer.



VX

SUITABLE FOR THE USE WITH HIGH AND LOW DENSITY POLYETHYLENE PIPES



MATERIALS

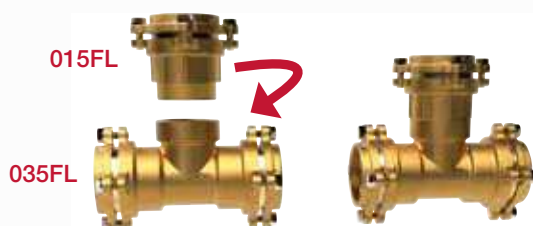


POS.	DESCRIPTION	Q.TY	MATERIAL
1	Body	1	CW617N brass
2	Tightening brass nut	1	CW617N brass
2A	Flanged tightening ring	1	CW617N brass
3	O-ring	1	Elastomeric seal
4	O-ring pushong washer	1	Stainless steel AISI 304
5	Fastening ring	1	Nickel-plated CW617N brass
5A	Fastening ring	1	CW617N brass
6	Liner for pipes type S5	1	Stainless steel AISI 304
7	Notched washer for screws	4	Stainless steel AISI 304
8	Blocking screw	4	Stainless steel AISI 304

INSTALLATION



COUPLING COMBINATION 4"X110MM



010

**Straight female connector**

SIZE	CODE	PACKING
1/2"x20	0100012020	20/240
3/4"x25	0100034025	15/180
1"x32	0100100032	12/108
1"1/4x40	0100114040	6/54
1"1/2x50	0100112050	4/32
2"x63	0100200063	2/12

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
Nominal pressure: 25 bar.
Female threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

010FL

**Straight female connector, with flanges**

SIZE	CODE	PACKING
2"1/2x75	0100212075	1/12
3"x90	0100300090	1/8
4"x110	0100400110	1/4

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
Nominal pressure: 25 bar.
Female threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

015

**Straight male connector**

SIZE	CODE	PACKING
1/2"x20	0150012020	20/240
3/4"x25	0150034025	15/180
1"x32	0150100032	12/108
1"1/4x40	0150114040	6/54
1"1/2x50	0150112050	4/32
2"x63	0150200063	2/12

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
Nominal pressure: 25 bar.
Male threads ISO 7/1 (equivalent to DIN EN 10226-1 and BS EN 10226-1).

015FL

**Straight male connector, with flanges**

SIZE	CODE	PACKING
2"1/2x75	0150212075	1/12
3"x90	0150300090	1/8
4"x110	0150400110	1/4

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
Nominal pressure: 25 bar.
Male threads ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).



020



Straight coupling

SIZE	CODE	PACKING
20	0200012020	12/168
25	0200034025	10/120
32	0200100032	8/64
40	0200114040	4/36
50	0200112050	2/24
63	0200200063	2/16

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
Nominal pressure: 25 bar.

020FL



Straight coupling, with flanges

SIZE	CODE	PACKING
75	0200212075	1/6
90	0200300090	1/5
110	0200400110	1/3

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
Nominal pressure: 25 bar.

025



Extended coupling sleeve, to repair pipes

SIZE	CODE	PACKING
32	0250100032	6/36
40	0250114040	4/20
50	0250112050	2/18
63	0250200063	1/8

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
Nominal pressure: 25 bar.

030



Equal T coupling

SIZE	CODE	PACKING
20	0300012020	6/84
25	0300034025	6/54
32	0300100032	4/28
40	0300114040	3/18
50	0300112050	2/10
63	0300200063	1/5

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
Nominal pressure: 25 bar.

030FL



Equal T coupling, with flanges

SIZE	CODE	PACKING
75	0300212075	1/3
90	0300300090	1/2

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
Nominal pressure: 25 bar.

035



Female branch T coupling

SIZE	CODE	PACKING
1/2"x20	0350012020	8/112
3/4"x25	0350034025	6/72
1"x32	0350100032	4/36
1"1/4x40	0350114040	3/27
1"1/2x50	0350112050	2/12
2"x63	0350200063	1/6

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
Nominal pressure: 25 bar.
Female threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

035FL



Female branch T coupling, with flanges

SIZE	CODE	PACKING
2"1/2x75	0350212075	1/4
3"x90	0350300090	1/3
4"x110	0350400110	1/1

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
Nominal pressure: 25 bar.
Female threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

040



Male elbow

SIZE	CODE	PACKING
1/2"x20	0400012020	15/180
3/4"x25	0400034025	12/108
1"x32	0400100032	8/64
1"1/4x40	0400114040	4/32
1"1/2x50	0400112050	4/24
2"x63	0400200063	2/12

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
Nominal pressure: 25 bar.
Male threads ISO 7/1 (equivalent to DIN EN 10226-1 and BS EN 10226-1).

040FL



Male elbow, with flanges

SIZE	CODE	PACKING
2"1/2x75	0400212075	1/6
3"x90	0400300090	1/4

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
Nominal pressure: 25 bar.
Male threads ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).



045



Female elbow

SIZE	CODE	PACKING
1/2"x20	0450012020	15/180
3/4"x25	0450034025	12/108
1"x32	0450100032	8/64
1"1/4x40	0450114040	6/36
1"1/2x50	0450112050	4/24
2"x63	0450200063	2/12

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
Nominal pressure: 25 bar.
Female threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

045FL



Female elbow, with flanges

SIZE	CODE	PACKING
2"1/2x75	0450212075	1/8
3"x90	0450300090	1/4
4"x110	0450400110	1/2

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
Nominal pressure: 25 bar.
Female threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

050



Elbow coupling

SIZE	CODE	PACKING
20	0500012020	12/108
25	0500034025	10/90
32	0500100032	6/48
40	0500114040	4/32
50	0500112050	2/16
63	0500200063	1/6

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
Nominal pressure: 25 bar.

050FL



Elbow coupling, with flanges

SIZE	CODE	PACKING
75	0500212075	1/4
90	0500300090	1/2

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
Nominal pressure: 25 bar.

048

**Backplate female elbow**

SIZE	CODE	PACKING
1/2"x20	0480012020	15/120
3/4"x25	0480034025	12/96
1"x32	0480100032	8/64

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
 Nominal pressure: 25 bar.
 Female threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

055

**Stainless steel liner**

SIZE	CODE	PACKING
20	0550012020	100/1200
25	0550034025	75/600
32	0550100032	50/400
40	0550114040	30/150
50	0550112050	20/100
63	0550200063	10/30
75	0550212075	8/24
90	0550300090	6/18
110	0550400110	2/12

Liner in stainless steel AISI 304, whose purpose is to structurally strengthen polyethylene pipes that are used with pipe of S5 series.
 To use exclusively with VX and VX-N fittings.

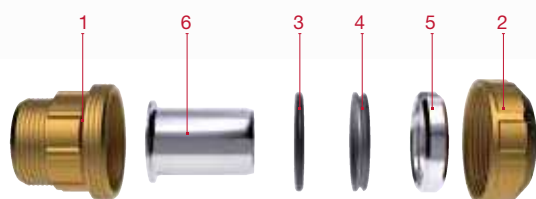


VX-N

SUITABLE FOR THE USE WITH HIGH AND LOW DENSITY POLYETHYLENE PIPES



MATERIALS



POS.	DESCRIPTION	Q.TY	MATERIAL
1	Body	1	CW617N brass
2	Tightening brass nut	1	CW617N brass
3	O-ring	1	NBR
4	O-ring pushing ring	1	Stainless steel AISI 304
5	Fastening ring	1	Nickel-plated CW617N brass
6	Liner for pipes type S5	1	Stainless steel AISI 304

INSTALLATION



710



Straight female connector

SIZE	CODE	PACKING
1/2"x20	7100012020	20/280
3/4"x25	7100034025	15/180
1"x32	7100100032	12/108
1"1/4x40	7100114040	6/54

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
Nominal pressure: 25 bar.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

715



Straight male connector

SIZE	CODE	PACKING
1/2"x20	7150012020	20/280
3/4"x25	7150034025	15/180
1"x32	7150100032	12/108
1"1/4x40	7150114040	6/54

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
Nominal pressure: 25 bar.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

720



Straight coupling

SIZE	CODE	PACKING
20	7200012020	12/168
25	7200034025	10/120
32	7200100032	8/64
40	7200114040	4/36

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
Nominal pressure: 25 bar.

730

**Equal T coupling**

SIZE	CODE	PACKING
20	7300012020	6/84
25	7300034025	6/54
32	7300100032	4/28
40	7300114040	4/20

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
Nominal pressure: 25 bar.

735

**Female branch T coupling**

SIZE	CODE	PACKING
1/2"x20	7350012020	8/112
3/4"x25	7350034025	6/72
1"x32	7350100032	4/36
1"1/4x40	7350114040	4/24

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
Nominal pressure: 25 bar.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

740

**Male elbow**

SIZE	CODE	PACKING
1/2"x20	7400012020	15/210
3/4"x25	7400034025	12/108
1"x32	7400100032	8/64
1"1/4x40	7400114040	6/48

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
Nominal pressure: 25 bar.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

745

**Female elbow**

SIZE	CODE	PACKING
1/2"x20	7450012020	15/210
3/4"x25	7450034025	12/144
1"x32	7450100032	8/56
1"1/4x40	7450114040	6/36

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
Nominal pressure: 25 bar.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

750

**Elbow coupling**

SIZE	CODE	PACKING
20	7500012020	12/108
25	7500034025	10/90
32	7500100032	6/48
40	7500114040	4/32

Minimum and maximum working temperatures: -20°C, 110°C (in absence of steam).
Nominal pressure: 25 bar.

055

**Stainless steel liner**

SIZE	CODE	PACKING
20	0550012020	100/1200
25	0550034025	75/600
32	0550100032	50/400
40	0550114040	30/150

Liner in stainless steel AISI 304, whose purpose is to structurally strengthen polyethylene pipes that are used with pipe of S5 series.
To use exclusively with VX and VX-N fittings.



151



3-piece straight connector, flat washer

SIZE	PRESSURE	CODE	PACKING
1/2"	50bar/725psi	1510012	20/240
3/4"	40bar/580psi	1510034	15/135
1"	40bar/580psi	1510100	10/90
1"1/4	30bar/435psi	1510114	6/54
1"1/2	30bar/435psi	1510112	4/36
2"	25bar/362,5psi	1510200	2/24

Suitable for domestic water services, heating and air-conditioning plants.
Body in brass.
Minimum and maximum working temperatures: -20°C, 120°C (in absence of steam).
Female threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

152



3-piece elbow, flat washer

SIZE	PRESSURE	CODE	PACKING
1/2"	50bar/725psi	1520012	15/180
3/4"	40bar/580psi	1520034	12/96
1"	40bar/580psi	1520100	8/64
1"1/4	30bar/435psi	1520114	6/36

Suitable for domestic water services, heating and air-conditioning plants.
Body in brass.
Minimum and maximum working temperatures: -20°C, 120°C (in absence of steam).
Female threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

161



Size 1"1/2 and 2" have flat seat.



3-piece straight connector, with o-ring

SIZE	PRESSURE	CODE	PACKING
1/2"	50bar/725psi	1610012	20/240
3/4"	40bar/580psi	1610034	15/135
1"	40bar/580psi	1610100	10/90
1"1/4	30bar/435psi	1610114	6/54
1"1/2	30bar/435psi	1610112	4/36
2"	25bar/362,5psi	1610200	2/24

Suitable for domestic water services, heating and air-conditioning plants.
Body in nickel-plated brass.
Minimum and maximum working temperatures: -20°C, 120°C (in absence of steam).
Female threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

161G



3-piece straight connector, with o-ring

SIZE	PRESSURE	CODE	PACKING
1/2"	50bar/725psi	1610012G	20/240
3/4"	40bar/580psi	1610034G	15/135
1"	40bar/580psi	1610100G	10/90
1"1/4	30bar/435psi	1610114G	6/54

Suitable for domestic water services, heating and air-conditioning plants.
Body in brass.
Minimum and maximum working temperatures: -20°C, 120°C (in absence of steam).
Female threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

162



3-piece elbow, with o-ring

SIZE	PRESSURE	CODE	PACKING
1/2"	50bar/725psi	1620012	15/180
3/4"	40bar/580psi	1620034	12/96
1"	40bar/580psi	1620100	8/64
1"1/4	30bar/435psi	1620114	6/36

Suitable for domestic water services, heating and air-conditioning plants.
Body in nickel-plated brass.
Minimum and maximum working temperatures: -20°C, 120°C (in absence of steam).
Female threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

154



Available also with NPT thread.
ACS approved in 3/4" and 1" sizes.



Connector for water meters

SIZE	PRESSURE	CODE	PACKING
3/4"x1/2"	20bar/290psi	1540034	20/280
1"x3/4"	20bar/290psi	1540100	10/150
1"1/4x1"	20bar/290psi	1540114	6/84
1"1/2x1"1/4	20bar/290psi	1540112	2/60
2"x1"1/2	20bar/290psi	1540200	2/32
2"1/2x2"	20bar/290psi	1540212I	1/20

Available sizes:
F3/4"xM1/2", F1"XM3/4", F1"1/4XM1", F1"1/2XM1"1/4, F2"XM1"1/2, F2"1/2XM2".
Nut and tail in brass.
Minimum and maximum working temperatures: -20°C, 120°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

110



5-way connector for pumps and tanks

SIZE	PRESSURE	CODE	PACKING
1"	25bar/362.5psi	1100100	6/72

Body in brass.
Nominal pressure: 25 bar.
Female threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Male threads: ISO 7/1 (equivalent to DIN EN 10226-1 and BS EN 10226-1).

275



Reduction 3/8"x1/2"

SIZE	CODE	PACKING
3/8"x1/2"	2750012	250/3000

Female threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

276



Reduction 3/4"x1/2", inner hexagon

SIZE	CODE	PACKING
3/4"x1/2"	2760034	125/1000

Female threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

142



PTFE taper

CODE	PACKING
1420012	300/300

Available size: mm12xmm0,076.
Length: m12.



ROL075



Thread sealing for metal thread joints

ml.75

CODE	PACKING
ROL075	4/32

Composition: anaerobic methacrylate.
 Colour: yellow.
 Viscosity (+B2652+25° - mPa s): 20.000 - 80.000 thixotropic.
 Specific weight (g/ml): 1,1.
 Fluorescence: under blue light.
 Flash point: > +100°C.
 Gap filling: M56 / 2" / 0,30mm.
 Handling cure time: 15-30 minutes.
 Functional cure time: 1-2 hours.
 Final cure time: 3-6 hours.
 Locking torque breakaway (ISO 10964): 18 - 24 N x m.
 Locking torque prevailing (ISO 10964): 7 - 14 N x m.
 Shear strength (ISO 10123: 6-3 N/mm2).
 Temperature range: -55°C - +150°C.

*Anaerobic curing adhesive for sealing of metal thread joints only.
 Approved for Gas (DVGW, DIN-EN 751-1), high pressure gas and GLP for working pressure up to 20 Bars.
 WRAS listed for contact with wholesome (potable) water.
 NSF registered in cat. P1 as acceptable for use as a sealant in and around food processing area.
 Approved for use with gaseous oxygen up to 10 Bars and +60°C (BAM Ref. N° II-717/2007 E).
 It seals against gas, water, LPG, hydrocarbons, oils and other chemicals.
 Thixotropic property prevents migration of sealant from thread before or during curing.
 It replaces PTFE tape and yarn and gives instant sealing against moderate pressure.
 Shock and vibrations resistant, sealing properties unaffected over the temperature range from -55°C to +150°C.*

TUB100



Thread sealing for metal thread joints

ml.100

CODE	PACKING
TUB100	7/35

Composition: anaerobic methacrylate.
 Colour: yellow.
 Viscosity (+B2652+25° - mPa s): 20.000 - 80.000 thixotropic.
 Specific weight (g/ml): 1,1.
 Fluorescence: under blue light.
 Flash point: > +100°C.
 Gap filling: M56 / 2" / 0,30mm.
 Handling cure time: 15-30 minutes.
 Functional cure time: 1-2 hours.
 Final cure time: 3-6 hours.
 Locking torque breakaway (ISO 10964): 18 - 24 N x m.
 Locking torque prevailing (ISO 10964): 7 - 14 N x m.
 Shear strength (ISO 10123: 6-3 N/mm2).
 Temperature range: -55°C - +150°C.

*Anaerobic curing adhesive for sealing of metal thread joints only.
 Approved for Gas (DVGW, DIN-EN 751-1), high pressure gas and GLP for working pressure up to 20 Bars.
 WRAS listed for contact with wholesome (potable) water.
 NSF registered in cat. P1 as acceptable for use as a sealant in and around food processing area.
 Approved for use with gaseous oxygen up to 10 Bars and +60°C (BAM Ref. N° II-717/2007 E).
 It seals against gas, water, LPG, hydrocarbons, oils and other chemicals.
 Thixotropic property prevents migration of sealant from thread before or during curing.
 It replaces PTFE tape and yarn and gives instant sealing against moderate pressure.
 Shock and vibrations resistant, sealing properties unaffected over the temperature range from -55°C to +150°C.*







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362S



Automatic air vent valve for solar heating systems

SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	10bar/145psi	3620038S	10/70
1/2" (DN 15)	10bar/145psi	3620012S	10/70

Body in nickel-plated brass.
Minimum and maximum working temperatures: -20°C, 180°C.
Nominal pressure: 10 bar.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

475



Thermostatic mixing valve for solar heating systems

SIZE	PRESSURE	CODE	PACKING
3/4" (DN 20)	10bar/145psi	4750034	1/12
1" (DN 25)	10bar/145psi	4750100	1/12

Body in brass.
Female threads.
Nominal pressure: 10 bar.
Maximum working temperature: 110°C.
Setting range: from 35°C to 55°C.
KV= 2,17 m3/h.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

477



Temperature and pressure relief valve for solar heating systems

SIZE	PRESSURE	CODE	PACKING
3/4" (DN 20)	10bar/145psi	4770034	1/39

It provides automatic temperature and pressure relief protection for hot water and storage tank.
It is equipped with a manually operating lever.
The valve lever must be manually operated at least once a year to insure that water-ways are clear.
Body in antidezincification brass.
105 mm extension thermostat.
Setting temperature: 90°C.
Power rating: 25KW.
Setting pressure: 7 bar.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

478



Diaphragm safety relief valve - f/f threads - for solar heating systems

SIZE	PRESSURE	CODE	PACKING
1/2"x3/4"	10bar/145psi	4780012	10/90

It provides automatic pressure relief protection for hot water and storage tank.
It is equipped with a manually operating lever.
The valve lever must be manually operated at least once a year to insure that water-ways are clear.
Body in nickel-plated brass.
Nominal pressure: 10 bar.
Available setting: 6 bar.
Minimum and maximum working temperatures: -20°C, 160°C.
Opening overpressure: 20%.
Closing differential: 20%.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

139S

**Drain ball valve with brass hose connection for solar heating systems**

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	16bar/232psi	1390012S	20/160

Body in brass.
Hose connection in brass.
Minimum and maximum working temperature: -10°C, 140°C.
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

982



Suitable for the electric actuators art. 990 and 991.

**3-way diverter zone ball valve**

SIZE	PRESSURE	CODE	PACKING
3/4" (DN 20)	16bar/232psi	9820034	1/14
1" (DN 25)	16bar/232psi	9820100	1/9

Body in nickel-plated brass.
Full flow ball.
Maximum working pressure: 16 bar.
Maximum differential pressure: 10bar.
Minimum and maximum working temperatures: -10°C (with antifreeze solution), 100°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

990

**Electric actuator for zone ball valves**

SIZE	CODE	PACKING
230V x 25sec	99023025	1/17
230V x 50sec	99023050	1/17

Bidirectional electric actuators.
Supplied with an auxiliary microswitch.
Case in nylon.
Power supply voltage: 230V.
Power consumption: 4VA.
Minimum and maximum working ambient temperature: -5°C, 70°C.
Class of protection: IP54.
Capacity of the auxiliary connection: 2A.
Operating time: 25 or 50 seconds.
Angle of rotation: 90°.
Starting torque:
- 50" model: 10Nm;
- 25" model: 5Nm.

991

**Electric actuator for zone ball valves with manual unlocking device**

SIZE	CODE	PACKING
230V x 25sec	99123025	1/17
230V x 50sec	99123050	1/17
24V x 50sec	99102450	1/17

Bidirectional electric actuators.
Supplied with an auxiliary microswitch.
Case in nylon.
Power supply voltage: 230V or 24V.
Power consumption: 4VA.
Minimum and maximum working ambient temperature: -5°C, 70°C.
Class of protection: IP54.
Capacity of the auxiliary connection: 2A.
Operating time: 25 or 50 seconds.
Angle of rotation: 90°.
Starting torque:
- 50" model: 10Nm;
- 25" model: 5Nm.



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