

ICMA[®]

Heating Technology since 1974

PRODUCT GUIDE



CATALOGUE

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Since its establishment, the aim of ICMA® has been the use of high quality materials and the investment in human resources. In these 30 years, ICMA® has grown up in the world and evolved to cover a 4.800 sq.m.surface in Cuggiono, in the province of Milan. Today ICMA sells its products in more than 50 countries.



The growth of the last years is the consequence of a technical and commercial strategy aimed to gather the market trends and of a structure devoted to research and development. The strict quality control of the components and the functional product management guarantee the satisfaction of the customers' demand. Another important engagement for ICMA is the steady professional training and updating of its employees.



The high know-how allows to face and solve the installation difficulties. ICMA technical staff gives a complete service from the planning consulting, through an appreciated support during installation till an operative after-sales service.

CERTIFICATIONS



ICIM
www.icim.it

CERTIFICATO n. **80140**
CERTIFICATE No. **80140**

SI CERTIFICA CHE IL SISTEMA DI GESTIONE PER LA QUALITÀ DI
WE HEREBY CERTIFY THAT THE QUALITY MANAGEMENT SYSTEM OPERATED BY

ICMA S.p.A.

UNITA OPERATIVE
OPERATIVE UNITS

Via Garavaglia, 4 - 20012 Cuggiono (MI)
Italia

È CONFORME ALLA NORMA
IS IN COMPLIANCE WITH THE STANDARD

UNI EN ISO 9001:2008

PER LE SEGUENTI ATTIVITÀ
FOR THE FOLLOWING ACTIVITIES

EA: 18

Progettazione e fabbricazione di valvole per termosifoni manuali e termostatiche, valvole di sicurezza, riduttori di pressione, kit per impianti di riscaldamento a pavimento, miscelatori termostatici, raccordi a pressione, dispositivi di regolazione e controllo per impianti solari.
Design and production of manual and thermostatic radiator valves, safety valves, pressure reducing valves, underfloor heating systems, thermostatic mixing valves, press fittings, regulation and control modules for solar thermal systems.

Modello di Norme della Comunità per l'applicazione del regolamento sulla norme di riferimento.
Refer to Quality Manual for details of application to reference standard requirements.

Customer certificate is subject to approval and registration on the certification site subject to previous use in quality data records.
The use and the validity of the certificate must comply with the requirements of the rules for the certification of company quality management systems.

Scad. emissione Exp. date 30/12/2015	Emissione corrente Current issue 20/12/2015	Data di scadenza Expiring date 14/05/2018
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ICIM S.p.A.
Piazzale San Felice Martini, 15 - 20124 Milano (MI) - Italia

ACCREDIA

CISQ

PRODUCT CERTIFICATION



LICENSEE
ICMA S.p.A.



Via Garavaglia, 4
20012 Cuggiono (Milano)
Italia

LICENSEE IDENTITY NUMBER: 87

PRODUCT: Thermostatic Radiator Valve

LICENSE NUMBER: 01-ICM-TRV-A

REFERENCE DOCUMENTS:

- UNI EN 215: Thermostatic radiator valves. Requirements and test methods
- CEI Keymark, extreme rules for thermostatic radiator valves
- CEN/CENELEC Internal regulation - Part 4: Certification

FIRST ISSUE: 22/02/2017

CURRENT ISSUE: 22/02/2017

EXPIRING DATE: 21/02/2021

LICENSE VALIDITY:

The right of use of the ESYMARE is conditioned by the respect of the reference documents. SET regularly tests the products and verifies the Quality System implemented by the Licensee in order to ensure the respect of the reference documents. The supported or withdrawn certificates are available on SET web site www.set.it

TECHNICAL INFORMATION:

The Technical Information of the certified Thermostatic Radiator Valves can be found on SET website www.set.it and is also available at page Product Certification on SET web site www.set.it

HEAD	TYPE
1100	Liquid integral sensor

VALVE	FORM	NOMINAL SIZE	SERIES
774	Angle	DN15	(*)
775	Straight	DN15	(*)

(*) Dimensioning and details for connection are not in accordance with the specific Series in Annex B of UNI EN 215



CHIEF EXECUTIVE OFFICER

Alfredo Luce



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CERTIFICATIONS



ACCREDIA
 Istituto Nazionale di Qualità Assicurata (I.N.Q.A.)
 Istituto Nazionale di Qualità Assicurata (I.N.Q.A.)
 Istituto Nazionale di Qualità Assicurata (I.N.Q.A.)



ICIM



Certificato UE della conformità al tipo basata sulla garanzia della qualità del processo di produzione
EU Certificate of conformity to type based on quality assurance of the production process

Certificato N. **0425 PED 002462-01**
 Certificate N.

Il certificato è allegato al tipo Design (214882) (Modulo D)
 It certificate will be Annex D of the Directive 2014/68 (Module D)

ORGANISMO NOTIFICATO / NOTIFIED BODY

ICIM S.p.A. - Identification Number: 0425
 Piazza Don Enrico Mapelli, 75 - 20099 Sesto San Giovanni (MI) - ITALY

DATI FABBRICANTE / MANUFACTURER DETAILS

ICMA S.p.A.
 Via Garavaglia, 4 - 20012 Cuggiono (MI)
 Italia

DATI PRODOTTO / PRODUCT DETAILS
Valvole di sicurezza a membrana
 MODELLO / MODEL: 241, 242, 291,292,293,3126, 5121
 CERTIFICATO DI ESAME UE (D)
 EU TYPE EXAMINATION CERTIFICATE
 RAPPORTO DI VISITA / VISIT REPORT: RVS-54892917 del 24.03.2017

These responsibilities to determine declare certificate to all. Decline applied a product against a certificate if means the responsibility of the manufacturer to determine conformity with other Directive applicable to the product described in the certificate. Data should be valid only in the cases stated here. Any technical change must be declared to ICMA S.p.A. that will give information for updated.



PRIMA EMISSIONE / FIRST ISSUE	EMMISSIONE CORRENTE / CURRENT ISSUE	DATA DI SCADENZA / EXPIRY DATE
25/04/2012	02/05/2017	25/04/2018

ICIM S.p.A. - Piazza Don Enrico Mapelli, 75 - 20099 Sesto San Giovanni (MI)

CERTIFICATO DI ESAME UE DEL TIPO

EU TYPE EXAMINATION CERTIFICATE

N. 00213PED120018P Rev. 00

Concorso PASCAL S.p.A. a socio unico, quale Organismo Notificato n. 1115
 Concorso PASCAL S.p.A. a socio unico, acting as Notified Body n. 1115

ATTESTA
ATTESTS
 che il protocollo presentato da
 that the protocols submitted by

FABBRICANTE / MANUFACTURER: **ICMA SPA**
 Via Garavaglia, 4 - 20018 Cuggiono (MI) - ITALIA

soddisfa le disposizioni dell'Allegato II, Modulo B - Tipo di produzione della Direttiva 2014/68/UE,
 satisfy the requirements of Annex II, Module B - Production Type of the Pressure Equipment Directive 2014/68/UE.

ACCESSORI DI SICUREZZA / SAFETY ACCESSORIES: **VALVOLE DI SICUREZZA A MEMBRANA / DIAPHRAGM SAFETY VALVES**

Modello / numero / Current model: **AV 241, 242, 291, 292, 293, 5120, 5121**

Processo Tecnico / Technical File: **PASCAL N. 06027**

Criterio Progettazione / Design Code: **EN ISO 4126-1:2016, IAS EN 15916-2:2003**

Rapporti di valutazione / Evaluation Reports: **E13_RED_2016_DG_21, E13_RED_2016_10_17**

LIMITI ESSENZIALI AMMISSIBILI / ESSENTIAL ALLOWABLE LIMITS

PE bar (d)	10
TS min/max (°C)	+5 / +110 °C
DR	15/20/25 mm
Filato / Thread	Appos. aria / Air
Gruppi Filato / Thread Groups	Z
Categoria di Rischio / Risk Category	IV

CONCLUSIONI DI VALIDITA' / VALIDITY TERMS AND CONDITIONS

Prima Emissione / First Issue	Emmissione corrente / Current Issue	Data di Scadenza / Expiry Date
28/10/2008	28/10/2016	27/10/2026

ACCREDIA logo



73/23/CEE 89/336/CEE

A) Thermostatic heads, actuators for valves and manifolds, valves and lockshields for radiators

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A1) THERMOSTATIC HEADS



NEW

Art. 1100 - Art. 1101

Thermostatic head with **liquid sensor** for thermostatic valves for radiators. Temperature locking and limiting to a desired value with a forked pin system (see instructions on page 4). Hysteresis 0,25°C; Room temperature setting range T = 0-28°C.



ART.	CONNECTION THREAD	CODE	PACKAGING	
* 1100	28X1,5	821100AC20	1	50
1101	30X1,5	821101AC20	1	50



NEW

Forked pin for art. 1100 e 1101 (see instructions on page 4).

CODE
111100AC20



Art. 985 - Art. 988

Thermostatic head with **wax sensor** and for radiators. Temperature locking and limiting device on a desired value. Both operations can be done without tools (see instructions on page 4). Hysteresis 0,5°C; Room temperature setting range T = 0-28°C. **RUNNING OUT OF PRODUCTION.**

ART.	CONNECTION THREAD	CODE	PACKAGING	
985	28X1,5	82985AC20	1	50
988	30X1,5	82988AC20	1	50



Art. 986 - Art. 989

Thermostatic head with **liquid sensor** and for radiators. Temperature locking and limiting device on a desired value. Both operations can be done without tools (see instructions on page 4). Hysteresis 0,3°C; Room temperature setting range T = 0-28°C.

ART.	CONNECTION THREAD	CODE	PACKAGING	
986	28X1,5	82986AC20	1	50
989	30X1,5	82989AC20	1	50



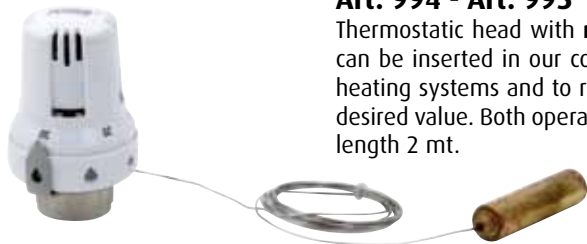
Art. 987 - Art. 990

Thermostatic head with **remote liquid sensor** and for radiators. **To be used when it is necessary to feel the temperature far from the radiator.** Temperature locking and limiting device on a desired value. Both operations can be done without tools (see instructions on page 4). Capillary length 2 mt. Hysteresis 0,3°C; Room temperature setting range T = 0-28°C.

ART.	CONNECTION THREAD	CODE	PACKAGING	
987	28X1,5	82987AC20	1	10
990	30X1,5	82990AC20	1	10

A1) THERMOSTATIC HEADS

A



Art. 994 - Art. 995

Thermostatic head with **remote sensor**. **Working temperature range 20°-50°C**. The sensor can be inserted in our cockpit art. 189. Suitable to feel the water temperature in underfloor heating systems and to regulate at fixed value. Temperature locking and limiting device on a desired value. Both operations can be done without tools (see instructions on page 4). Capillary length 2 mt.

ART.	CONNECTION THREAD	CODE	PACKAGING	
994	28X1,5	82994AC20	1	10
995	30X1,5	82995AC20	1	10

Art. 189

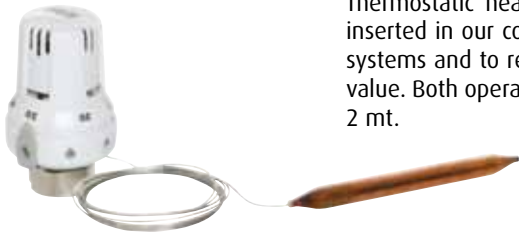
Cockpit for thermostatic heads with remote sensor art. 994 and 995. Cockpit length 63 mm.



ART.	SIZE	CODE	PACKAGING
189	1/2"	87189AD06	10

Art. 991 - Art. 992

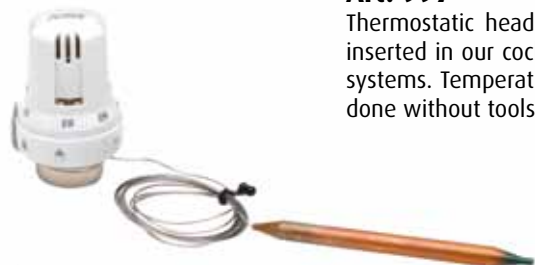
Thermostatic head with remote sensor, **fluid setting range 20°-70°C**. The sensor can be inserted in our cockpit art. 212. Suitable to feel the water temperature in underfloor heating systems and to regulate at fixed value. Temperature locking and limiting device on a desired value. Both operations can be done without tools (see instructions on page 4). Capillary length 2 mt.



ART.	CONNECTION THREAD	CODE	PACKAGING	
991	28X1,5	82991AC20	1	10
992	30X1,5	82992AC20	1	10

Art. 997

Thermostatic head with remote sensor, **fluid setting range 60°-90°C**. The sensor can be inserted in our cockpit art. 212. Suitable to feel the water temperature in underfloor heating systems. Temperature locking and limiting device on a desired value. Both operations can be done without tools (see instructions on page 4). Capillary length 2 mt.



ART.	CONNECTION THREAD	CODE	PACKAGING
997	30X1,5	82997AC20	1 10

Art. 212

Cockpit for thermostatic heads with remote sensor art. 991, 992 and 997. Cockpit length 132 mm.



ART.	SIZE	CODE	PACKAGING
212	1/2"	87212AD05	10

Art. 999

Tamper-proof shell for thermostatic heads. Provided with special screws. It can be operated with the special tightening key, only. One key free of charge every 50 pieces.



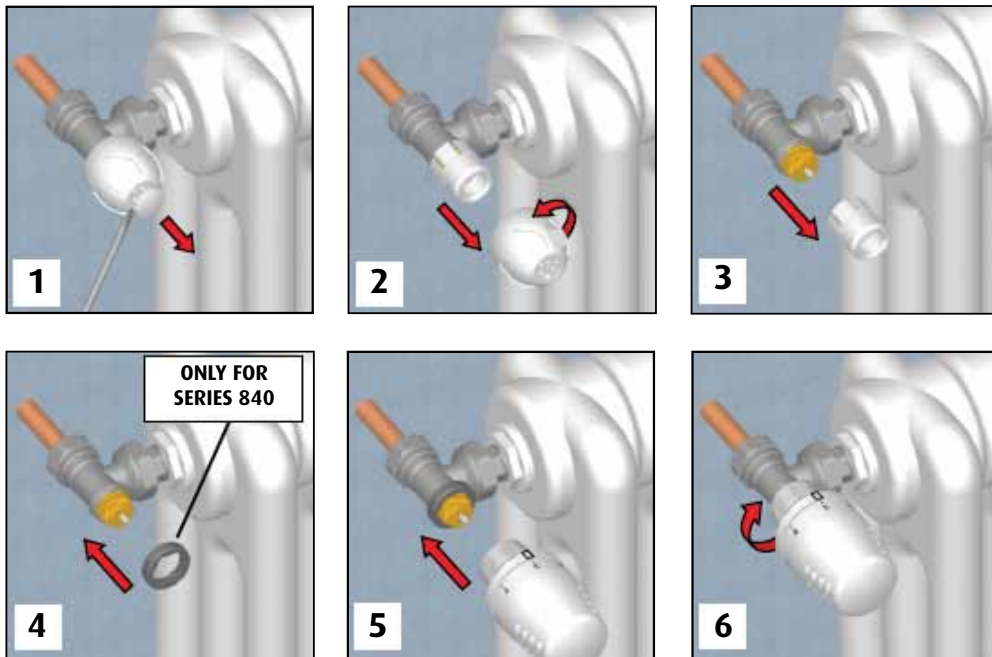
ART.	CODE	PACKAGING
999	82999AC20	10 50

HOW TO CHOOSE THE PROPER THERMOSTATIC HEAD

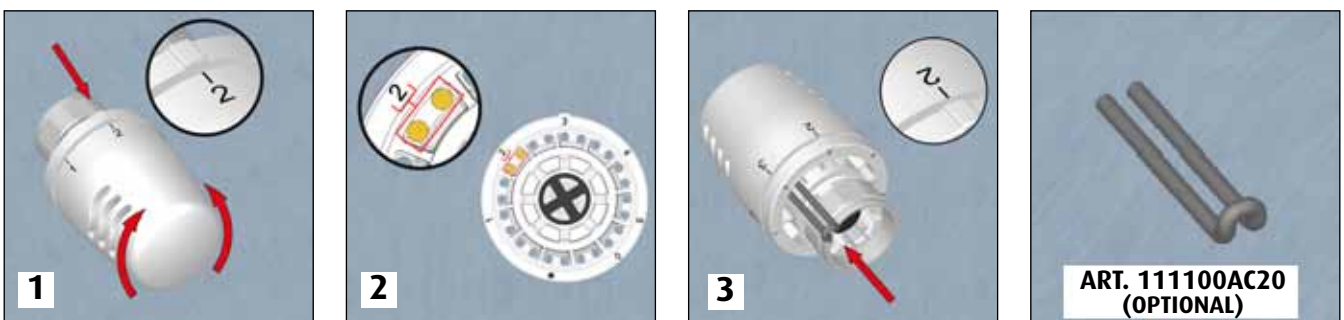


- 1) Choose the connection thread. For ICMA products you find the connection thread in the product description. For other suppliers' products, get in touch with our commercial department to verify the compatibility.
- 2) In presence of elements, which can invalidate the temperature recording, use art.987 or art.990.

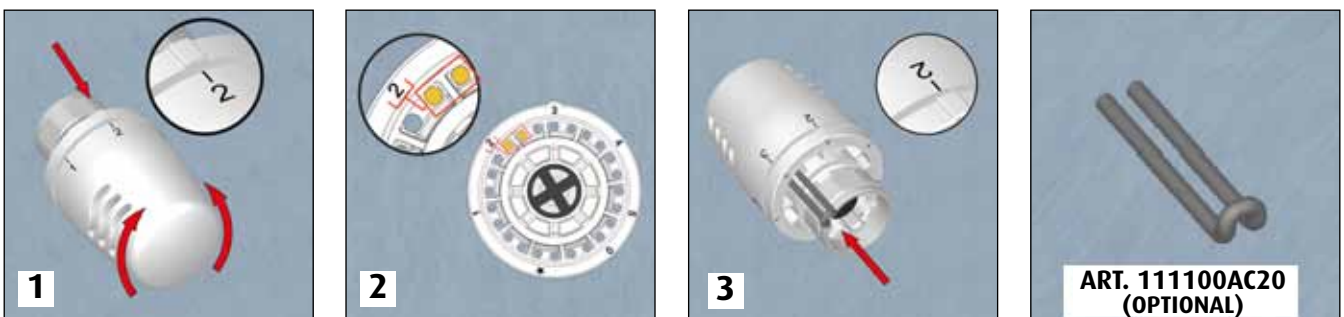
Installation of thermostatic heads



Temperature blocking

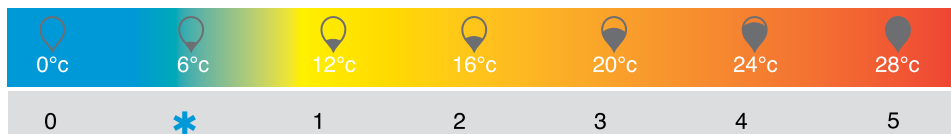


Temperature restriction



THERMOSTATIC HEADS FOR RADIATOR

Our thermostatic heads allow to limit and to block easily the temperature on a wished value. The indicator, the coloured drops (whose colour increases in intensity from 0 to 5) and all the other details have been conceived to facilitate the operations, which can be carried out without the use of tools. The thermostatic heads, together with our thermostatic valves, guarantee a perfect regulation of the water flow within the radiator. The markings on the handle correspond to the following temperatures:



TECHNICAL SPECIFICATIONS:

Minim. adjustment calibration (anti-freeze position):	ts min	7°C (*)
Max. adjustment calibration (position):	ts max	28°C (5)
Saving condition (position):		20°C (3)
Maximum working pressure:	PN	1000 KPa
Maximum differential pressure:	Δp	100 KPa
Nominal capacity "qm N" angle-straight:	qm N	190 Kg/h
Maximum working temperature:		110°C
Maximum storage temperature:		50°C
Hysteresis:	C	0.25 K
Authority:	a	0,9
Response time:	Z	20 min
Differential pressure influence:	D	0,25 K
Water temperature influence:	W	0,7 K
Use of the protection cap:		55° \approx 1K
Connection to thermostatic expansion valves:		M28x1,5 M30x1,5

Thermostatic head art. 1100 certified: UNI - EN215



On all our valves you can install our electrothermic actuator. The combined use of electrothermic actuators and room thermostat allows to open and close the valve according to the room temperature:

- when it falls under the programmed value, the thermostat gives the impulse to the electric head to open the valve;
- when it reaches the programmed value, the thermostat gives the impulse to the electrothermic actuators to close the valve.

The combined use of electrothermic actuators and chronothermostat gives the possibility to programme the temperature according to rooms and time.

PRODUCT CERTIFICATION

LICENSEE
ICMA S.p.A.
Via Garavaglia, 4
20012, Cuggiono (Milano)
Italia

LICENSEE IDENTITY NUMBER: 87	HEAD	TYPE
PRODUCT: Thermostatic Radiator Valve	1100	Liquid Integral sensor
LICENSE NUMBER: 81-ICM-TRV-A		
REFERENCE DOCUMENTS:	VALVE	FORM NOMINAL SIZE SERIES
<ul style="list-style-type: none"> • UNI EN 215: Thermostatic radiator valves. Requirements and test methods • CEI Normative technical rules for thermostatic radiator valves • DDCEN/SEC Internal regulator - Part 4 Certification 	774	Angle DN15 (*)
	775	Straight DN15 (*)

(*) Dimensions and details on connection are not in accordance with the specific Series of Norms A.04/04/198.213

FIRST ISSUE: 22/02/2017
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EXPIRING DATE: 21/02/2021

LICENSE VALIDITY:
The right of use of the SYSTEM is conditioned by the respect of the reference documents. SIET regularly tests the products and verifies the Quality System implemented by the Licensee in order to ensure the respect of the reference documents. The suspended or withdrawn certificates are available on SIET web site www.siet.it

TECHNICAL INFORMATION:
The technical information of the certified Thermostatic Radiator Valves are: PN 1000, G1/2, G3/4, G1, and G1.5, determined by the Licensee and available on page Product Certification on SIET web site www.siet.it

CHIEF EXECUTIVE OFFICER
Alfredo Luce

Operiamo con la tua idea

SIET S.p.A. - via Hino Bivio, 87/c - 20121 Piacenza - Italia
Tel +39 0523 329611 - Fax +39 0523 329010
www.siet.it

A2) ELECTROTHERMIC ACTUATORS

Art. 982 - Art. 979

Electrothermic actuator with **micro switch for potential-free contact**. Normally closed. At the end of the stroke the micro switch interrupts the outgoing signal. *The product complies with the CE norm.*



Wiring:

Red-Green wires = Power supply
Black-Brown wires = Micro Switch

ART.	MODEL	CONNECTION THREAD	VOLTAGE	CODE	PACKAGING	
982	closed	28X1,5	24 volt	82982NC54	1	50
982	closed	28x1,5	230 volt	82982NC53	1	50
979	closed	30X1,5	24 volt	82979NC54	1	50
979	closed	30x1,5	230 volt	82979NC53	1	50
979	closed	FAR	230 volt	FA979NC53	1	50

- Power supply 24 volt or 230 volt; - opening time 3 min.;
- working temperature 5-50°C

Art. 983 - Art. 980 Normally closed

Electrothermic **on-off** actuator normally closed. *The product complies with the CE norm.*



Wiring:

Brown-Blue wires = Power supply

ART.	MODEL	CONNECTION THREAD	VOLTAGE	CODE	PACKAGING	
983	closed	28X1,5	24 volt	82983NC54	1	50
983	closed	28X1,5	230 volt	82983NC53	1	50
980	closed	30X1,5	24 volt	82980NC54	1	50
980	closed	30X1,5	230 volt	82980NC53	1	50
980	closed	FAR	230 volt	FA980NC53	1	50

- Power supply 24 volt or 230 volt; - opening time 3 min.;
- working temperature 5-50°C

Art. 983 - Art. 980 Normally open

Electrothermic **on-off** actuator normally open. *The product complies with the CE norm.*



Wiring:

Brown-Blue wires = Power supply

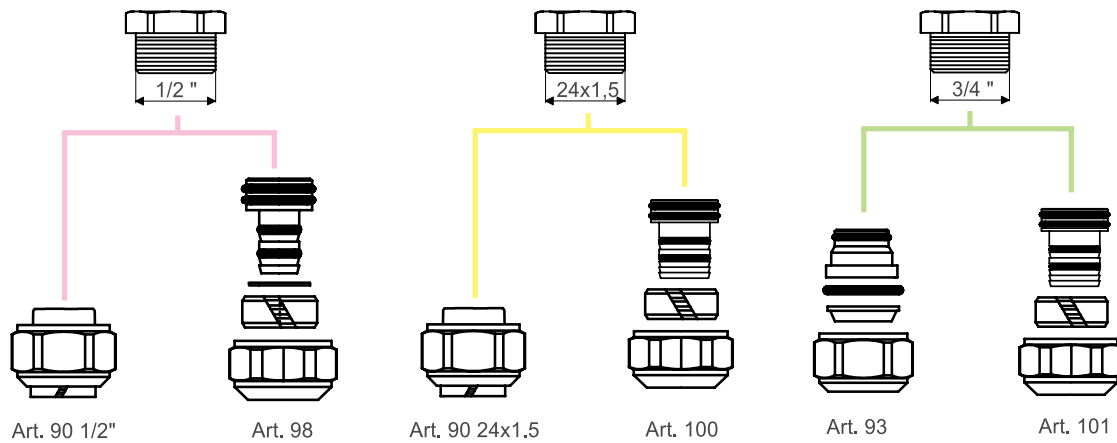
ART.	MODEL	CONNECTION THREAD	VOLTAGE	CODE	PACKAGING	
983	open	28x1,5	24 volt	82983NA54	1	50
983	open	28X1,5	230 volt	82983NA53	1	50
980	open	30X1,5	24 volt	82980NA54	1	50
980	open	30X1,5	230 volt	82980NA53	1	50

- Power supply 24 volt or 230 volt; - opening time 3 min.;
- working temperature 5-50°C

HOW TO CHOOSE THE ELECTROTHERMIC ACTUATOR

- 1) Choose between normally closed or normally open actuator. Normally closed means that, in case of lack of tension, the actuator closes the valve.
- 2) Choose the connection thread to the body of the valve. For ICMA products, you find the specification of the connection thread in the description of each valve. For other suppliers' products, please, get in touch with our commercial offices to verify the compatibility.
- 3) Choose the power supply.
- 4) Choose the opening/closing signal of the electrothermic actuator. It can be used to start / stop a circulator. Use art. 982 or art. 979.

VALVES AND LOCKSHIELDS THREAD



A3) VALVES WITH THERMOSTATIC OPTION FOR DOUBLE PIPE SYSTEMS

Art. 940

Anti-leakage radiator connection.



NEW →

ART.	SIZE	CODE	PACKAGING
940	3/8"	82940AC06	10
940	1/2"	82940AD06	10
940	3/4"	82940AE06	10

Art. 514

Extender M24X1,5, male-female. L=20 mm. It enables to extend the connection of the valve for Pex-Al-Pex or copper pipe fittings to reach the pipe.



ART.	SIZE	CODE	PACKAGING
514	24X1,5	815140006	10

Art. 1141

Double angle valve with thermostatic option for copper, multilayer and pe-x piping and with anti-leakage radiator connection. **Choose thermostatic and electrothermic actuators with 28x1,5 connection thread. Right or left model.**

RIGHT VERSION



LEFT VERSION



ART.	SIZE	CONNECTION THREAD	VERSION	CODE	PACKAGING
1141	3/8"	24x1,5	RIGHT	821141ACD06	10 50
1141	3/8"	24x1,5	LEFT	821141ACS06	10 50
1141	1/2"	24x1,5	RIGHT	821141ADD06	10 50
1141	1/2"	24x1,5	LEFT	821141ADS06	10 50

A3) VALVES WITH THERMOSTATIC OPTION FOR DOUBLE PIPE SYSTEMS

Adaptors and accessories from page 26 - Connections on page 6

RIGHT VERSION



LEFT VERSION

Art. 1142

Double angle valve with thermostatic option for copper piping and with anti-leakage radiator connection. **Choose thermostatic and electrothermic actuators with 28x1,5 connection thread. Right or left model.**

IRON PIPE

ART.	SIZE	VERSION	CODE	PACKAGING	
1142	3/8"	RIGHT	821142ACD06	10	50
1142	3/8"	LEFT	821142ACS06	10	50
1142	1/2"	RIGHT	821142ADD06	10	50
1142	1/2"	LEFT	821142ADS06	10	50

Art. 840 - Art. 842 - Art. 852

Angle valve with thermostatic option. For copper, Pex-Al-Pex, pex piping. With anti-leakage radiator union. **Choose thermostatic and electrothermic actuators with 28x1,5 connection thread. For installation of electrothermic actuators use connection ring art. 23.**



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MULTILAYER

PE-X

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
840	3/8"	24X1,5	82840AC06	10	50
840	1/2"	24X1,5	82840AD06	10	50
842	3/8"	1/2"	82842AC06	10	50
842	1/2"	1/2"	82842AD06	10	50
852	3/8"	3/4"	82852AC06	10	50
852	1/2"	3/4"	82852AD06	10	50

Art. 841 - Art. 843 - Art. 853

Straight valve with thermostatic option. For copper, Pex-Al-Pex, pex piping. With anti-leakage radiator union. **Choose thermostatic and electrothermic actuators with 28x1,5 connection thread. For installation of electrothermic actuators use connection ring art. 23.**



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MULTILAYER

PE-X

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
841	3/8"	24X1,5	82841AC06	10	50
841	1/2"	24X1,5	82841AD06	10	50
843	3/8"	1/2"	82843AC06	10	50
843	1/2"	1/2"	82843AD06	10	50
853	3/8"	3/4"	82853AC06	10	50
853	1/2"	3/4"	82853AD06	10	50

Art. 844

Angle valve with thermostatic option. For iron piping. With anti leakage radiator union. **Choose thermostatic and electrothermic actuators with 28x1,5 connection thread. For installation of electrothermic actuators use connection ring art. 23.**



IRON PIPE

ART.	SIZE	CODE	PACKAGING	
844	3/8"	82844AC06	10	50
844	1/2"	82844AD06	10	50
844	3/4"	82844AE06	5	25

A3) VALVES WITH THERMOSTATIC OPTION FOR DOUBLE PIPE SYSTEMS

Adaptors and accessories from page 26 - Connections on page 6

Art. 845

Straight valve with thermostatic option. For iron piping. With anti-leakage radiator union. **Choose thermostatic and electrothermic actuators with 28x1,5 connection thread. For installation of electrothermic actuators use connection ring art. 23.**



IRON PIPE

ART.	SIZE	CODE	PACKAGING	
845	3/8"	82845AC06	10	50
845	1/2"	82845AD06	10	50
845	3/4"	82845AE06	5	25

Art. 970 - Art. 972 - Art. 966

Angle valve with thermostatic option. For copper, Pex-Al-Pex, Pex piping. With antileakage radiator union. **Choose thermostatic heads and electrothermic actuators with 28x1,5 connection thread. RUNNING OUT OF PRODUCTION.**



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PE-X

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
970	3/8"	24X1,5	82970AC06	10	50
970	1/2"	24X1,5	82970AD06	10	50
972	3/8"	1/2"	82972AC06	10	50
972	1/2"	1/2"	82972AD06	10	50
966	1/2"	3/4"	82966AD06	10	50

Art. 971 - Art. 973 - Art. 967

Straight valve with thermostatic option. For copper, Pex-Al-Pex, Pex piping. With anti-leakage radiator union. **Choose thermostatic heads and electrothermic actuators with 28x1,5 connection thread. RUNNING OUT OF PRODUCTION.**



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PE-X

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
971	3/8"	24X1,5	82971AC06	10	50
971	1/2"	24X1,5	82971AD06	10	50
973	3/8"	1/2"	82973AC06	10	50
973	1/2"	1/2"	82973AD06	10	50
967	1/2"	3/4"	82967AD06	10	50

Art. 869

Inverse angle valve with thermostatic option. For copper, Pex-Al-Pex, Pex piping. With anti-leakage radiator unit. **Choose thermostatic heads and electrothermic actuators with 28x1,5 connection thread.**



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ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
869	1/2"	1/2"	81869AD06	10	50

A3) VALVES WITH THERMOSTATIC OPTION FOR DOUBLE PIPE SYSTEMS

Adaptors and accessories from page 26 - Connections on page 6

Art. 974

Angle valve with thermostatic option. For iron piping. With anti-leakage radiator union. **Choose thermostatic heads and electrothermic actuators with 28x1,5 connection thread. RUNNING OUT OF PRODUCTION.**



IRON PIPE

ART.	SIZE	CODE	PACKAGING	
974	3/8"	82974AC06	10	50
974	1/2"	82974AD06	10	50
974	3/4"	82974AE06	5	25

Art. 975

Straight valve with thermostatic option. For iron piping. With PATENTED anti-leakage radiator union. **Choose thermostatic heads and electrothermic actuators with 28x1,5 connection thread. RUNNING OUT OF PRODUCTION.**



IRON PIPE

ART.	SIZE	CODE	PACKAGING	
975	3/8"	82975AC06	10	50
975	1/2"	82975AD06	10	50
975	3/4"	82975AE06	5	25

A4) THERMOSTATIC KIT AND THERMOSTATIC VALVES FOR DOUBLE PIPE SYSTEMS

Art. KIT A - Art. KIT B

Thermostatic kit consisting of thermostatic head with liquid sensor, angle valve with thermostatic option and lockshield. For Copper, Pex-Al-Pex, pex piping. With antileakage radiator union.

Kit composition:

	Kit A	Kit B
Thermostatic head	Art. 1100	Art. 1100
Valve	Art. 840	Art. 842
Lockshield	Art. 839	Art. 837



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ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
KIT A	3/8"	24X1,5	82KITAAC061100	1	20
KIT A	1/2"	24X1,5	82KITAAD061100	1	20
KIT B	3/8"	1/2"	82KITBAC061100	1	20
KIT B	1/2"	1/2"	82KITBAD061100	1	20

Art. KIT C - Art. KIT D

Thermostatic kit consisting of thermostatic head with liquid sensor, straight valve with thermostatic option and lockshield. For Copper, Pex-Al-Pex, pex piping. With antileakage radiator union.

Kit composition:

	Kit C	Kit D
Thermostatic head	Art. 1100	Art. 1100
Valve	Art. 841	Art. 843
Lockshield	Art. 835	Art. 833



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PE-X

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
KIT C	3/8"	24X1,5	82KITCAC061100	1	20
KIT C	1/2"	24X1,5	82KITCAD061100	1	20
KIT D	3/8"	1/2"	82KITDAC061100	1	20
KIT D	1/2"	1/2"	82KITDAD061100	1	20

A4) THERMOSTATIC KIT AND THERMOSTATIC VALVES FOR DOUBLE PIPE SYSTEMS

Adaptors and accessories from page 26 - Connections on page 6



Art. KIT E

Thermostatic kit consisting of thermostatic head with liquid sensor, angle valve with thermostatic option and lockshield. For iron piping. With anti-leakage radiator union.

Kit composition:

		Kit E
Thermostatic head		Art. 1100
Valve		Art. 844
Lockshield		Art. 952

IRON PIPE

ART.	SIZE	CODE	PACKAGING	
KIT E	3/8"	82KITEAC061100	1	20
KIT E	1/2"	82KITEAD061100	1	20
KIT E	3/4"	82KITEAE061100	1	20



Art. KIT F

Thermostatic kit consisting of thermostatic head with liquid sensor, straight valve with thermostatic option and lockshield. For iron piping. With anti-leakage radiator union.

Kit composition:

		Kit F
Thermostatic head		Art. 1100
Valve		Art. 845
Lockshield		Art. 955

IRON PIPE

ART.	SIZE	CODE	PACKAGING	
KIT F	3/8"	82KITFAC061100	1	20
KIT F	1/2"	82KITFAD061100	1	20
KIT F	3/4"	82KITFAE061100	1	20



Anti-theft blister-packed thermostatic kit

The package includes angle or straight valves and lockshields as well as thermostatic heads art. 986 or art. 1100. Anti-theft welding.

Please contact our sales department for components and prices.

Art. 770 - Art. 772

Single setting thermostatic angle valve. For copper, Pex-Al-Pex, Pex piping. **Choose thermostatic and electrothermic actuators with 28x1,5 connection thread.**



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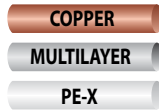
ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
770	3/8"	24X1,5	82770AC06	10	50
770	1/2"	24X1,5	82770AD06	10	50
772	3/8"	1/2"	82772AC06	10	50
772	1/2"	1/2"	82772AD06	10	50

A4) THERMOSTATIC KIT AND THERMOSTATIC VALVES FOR DOUBLE PIPE SYSTEMS

Adaptors and accessories from page 26 - Connections on page 6

Art. 771 - Art. 773

Single setting thermostatic straight valve. For copper, Pex-Al-pex, pex piping. **Choose thermostatic and electrothermic actuators with 28x1,5 connection thread.**



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
771	3/8"	24X1,5	82771AC06	10	50
771	1/2"	24X1,5	82771AD06	10	50
773	3/8"	1/2"	82773AC06	10	50
773	1/2"	1/2"	82773AD06	10	50

Art. 774 - Art. 774+940

Single setting thermostatic angle valve. For iron piping. **Choose thermostatic heads and electrothermic actuators with 28x1,5 connection thread.**



ART.	SIZE	CODE	PACKAGING	
774	3/8"	82774AC06	10	50
* 774	1/2"	82774AD06	10	50
774	3/4"	82774AE06	5	25
774+940	1/2"	82774AD06 940	10	50
774+940	3/4"	82774AE06 940	5	25

Art. 775 - Art. 775+940

Single setting thermostatic straight valve. For iron piping. **Choose thermostatic heads and electrothermic actuators with 28x1,5 connection thread.**



ART.	SIZE	CODE	PACKAGING	
775	3/8"	82775AC06	10	50
* 775	1/2"	82775AD06	10	50
775	3/4"	82775AE06	5	25
775+940	1/2"	82775AD06 940	10	50
775+940	3/4"	82775AE06 940	5	25

A5) DOUBLE SETTING THERMOSTATIC VALVES FOR DOUBLE PIPE SYSTEMS

Adaptors and accessories from page 26 - Connections on page 6



Pre-setting valves with thermostatic option can carry out simultaneous several functions:

1. intercepting the heat transfer fluid;
2. Pre-setting for heating components in heating systems

PRE-SETTING VALUES



Kv [m ³ /h] 3/8" straight	0,07	0,16	0,28	0,46	1,05
Kv [m ³ /h] 3/8" angle	0,07	0,16	0,28	0,46	1,35
Kv [m ³ /h] 1/2" straight	0,07	0,16	0,28	0,46	1,30
Kv [m ³ /h] 1/2" angle	0,07	0,16	0,28	0,46	1,45
Kv [m ³ /h] 3/4" straight	0,24	0,40	0,72	1,12	1,55
Kv [m ³ /h] 3/4" angle	0,24	0,32	0,46	0,62	1,81



NEW

Art. 776

Pre-setting **angle** valve with thermostatic option for copper, Pex-Al-pex, pex piping with anti-leakage radiator union. **Choose thermostatic and electrothermic actuators with 30x1,5 connection thread.**



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
776	3/8"	24x1,5	82776AC06	10	50
776	1/2"	24x1,5	82776AD06	10	50



NEW

Art. 777

Pre-setting **straight** valve with thermostatic option for copper, Pex-Al-pex, pex piping with anti-leakage radiator union. **Choose thermostatic and electrothermic actuators with 30x1,5 connection thread.**



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
777	3/8"	24x1,5	82777AC06	10	50
777	1/2"	24x1,5	82777AD06	10	50



NEW

Art. 778

Pre-setting **angle** valve with thermostatic option for iron piping with anti-leakage radiator union. **Choose thermostatic and electrothermic actuators with 30x1,5 connection thread.**



ART.	SIZE	CODE	PACKAGING	
778	3/8"	82778AC06	10	50
778	1/2"	82778AD06	10	50
778	3/4"	82778AE06	5	25

A5) DOUBLE SETTING THERMOSTATIC VALVES FOR DOUBLE PIPE SYSTEMS

Adaptors and accessories from page 26 - Connections on page 6



NEW

Art. 779

Pre-setting **straight** valve with thermostatic option for iron piping with anti-leakage radiator union. **Choose thermostatic and electrothermic actuators with 30x1,5 connection thread.**

IRON PIPE

ART.	SIZE	CODE	PACKAGING	
779	3/8"	82779AC06	10	50
779	1/2"	82779AD06	10	50
779	3/4"	82779AE06	5	25



NEW

Art. 795

Thermostatic insert with pre-setting 1/2" for steel panels. **M30x1,5 thermostatic head connection.**

ART.	SIZE	CODE	PACKAGING
795	1/2"	82795AD05	1

A6) MANUAL VALVES FOR DOUBLE PIPE SYSTEMS

Art. 846 - Art. 847

TULIP-shaped single setting manual angle valve. For copper, Pex-Al-Pex and Pex piping. Double sealing on the spindle with o-ring and PTFE gasket and on the valve seat. With antileakage radiator unit.



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ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
846	3/8"	24X1,5	82846AC06	20	100
846	1/2"	24X1,5	82846AD06	20	100
847	3/8"	1/2"	82847AC06	20	100
847	1/2"	1/2"	82847AD06	20	100

Art. 848 - Art. 849

TULIP-shaped single setting manual straight valve. For copper, Pex-Al-Pex and Pex piping. Double sealing on the spindle with o-ring and PTFE gasket and on the valve seat. With anti-leakage radiator unit.



COPPER
MULTILAYER
PE-X

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
848	3/8"	24X1,5	82848AC06	10	50
848	1/2"	24X1,5	82848AD06	10	50
849	3/8"	1/2"	82849AC06	10	50
849	1/2"	1/2"	82849AD06	10	50

Art. 850

TULIP-shaped single setting manual angle valve. For iron piping. Double sealing on the spindle with o-ring and PTFE gasket and on the valve seat. With anti-leakage radiator unit.



IRON PIPE

ART.	SIZE	CODE	PACKAGING	
850	3/8"	82850AC06	20	100
850	1/2"	82850AD06	20	100
850	3/4"	82850AE06	20	100

A6) MANUAL VALVES FOR DOUBLE PIPE SYSTEMS

Adaptors and accessories from page 26 - Connections on page 6



Art. 851

TULIP-shaped single setting manual straight valve. For iron piping. Double sealing on the spindle with o-ring and PTFE gasket and on the valve seat. With anti-leakage radiator unit.

IRON PIPE

ART.	SIZE	CODE	PACKAGING	
851	3/8"	82851AC06	10	50
851	1/2"	82851AD06	10	50
851	3/4"	82851AE06	10	50



Art. 921 - Art. 941

Single setting manual angle valve. For copper, Pex-Al-Pex and Pex piping. Double sealing on the spindle with o-ring and PTFE gasket and on the valve seat. With anti leakage radiator union. **RUNNING OUT OF PRODUCTION.**

COPPER
MULTILAYER
PE-X

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
921	3/8"	24X1,5	82921AC06	20	100
921	1/2"	24X1,5	82921AD06	20	100
941	3/8"	1/2"	82941AC06	20	100
941	1/2"	1/2"	82941AD06	20	100



Art. 924 - Art. 944

Single setting manual straight valve. For copper, Pex-Al-Pex and Pex piping. Double sealing on the spindle with o-ring and PTFE gasket and on the valve seat. With anti-leakage radiator union. **RUNNING OUT OF PRODUCTION.**

COPPER
MULTILAYER
PE-X

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
924	3/8"	24X1,5	82924AC06	10	50
924	1/2"	24X1,5	82924AD06	10	50
944	3/8"	1/2"	82944AC06	10	50
944	1/2"	1/2"	82944AD06	10	50



Art. 951

Single setting manual angle valve. For iron piping. Double sealing on the spindle with o-ring and PTFE gasket and on the valve seat. With anti-leakage radiator union. **RUNNING OUT OF PRODUCTION.**

IRON PIPE

ART.	SIZE	CODE	PACKAGING	
951	3/8"	82951AC06	20	100
951	1/2"	82951AD06	20	100
951	3/4"	82951AE06	20	100



Art. 954

Single setting manual straight valve. For iron piping. Double sealing on the spindle with o-ring and PTFE gasket and on the valve seat. With anti-leakage radiator union. **RUNNING OUT OF PRODUCTION.**

IRON PIPE

ART.	SIZE	CODE	PACKAGING	
954	3/8"	82954AC06	10	50
954	1/2"	82954AD06	10	50
954	3/4"	82954AE06	10	50

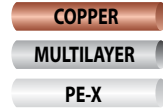
A6) MANUAL VALVES FOR DOUBLE PIPE SYSTEMS

Adaptors and accessories from page 26 - Connections on page 6



Art. 836 - Art. 838

Single setting angle valve. For copper, Pex-Al-Pex and Pex piping. With anti-leakage radiator union.

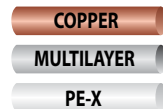


ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
836	3/8"	1/2"	82836AC06	20	100
836	1/2"	1/2"	82836AD06	20	100
838	3/8"	24X1,5	82838AC06	20	100
838	1/2"	24X1,5	82838AD06	20	100



Art. 832 - Art. 834

Single setting straight valve. For copper, Pex-Al-Pex and Pex piping. With anti-leakage radiator union.

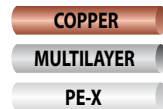


ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
832	3/8"	1/2"	82832AC06	20	100
832	1/2"	1/2"	82832AD06	20	100
834	3/8"	24x1,5	82834AC06	20	100
834	1/2"	24x1,5	82834AD06	20	100



Art. 826

Single setting angle valve. Radiator union with o-ring. For copper, Pex-Al-Pex, Pex piping.



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
826	3/8"	1/2"	82826AC06	20	100
826	1/2"	24x1,5	82826AD06	20	100



Art. 828

Single setting straight valve. Radiator union with o-ring. For copper, Pex-Al-Pex, Pex piping.



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
828	3/8"	1/2"	82828AC06	20	100
828	1/2"	24x1,5	82828AD06	20	100



Art. 802

Single setting angle valve. Radiator union with o-ring. For iron piping.



ART.	SIZE	CODE	PACKAGING	
802	3/8"	82802AC06	20	100
802	1/2"	82802AD06	20	100
802	3/4"	82802AE06	10	50

A6) MANUAL VALVES FOR DOUBLE PIPE SYSTEMS

Adaptors and accessories from page 26 - Connections on page 6

Art. 812

Single setting straight valve. Radiator union with o-ring. For iron piping.



IRON PIPE

ART.	SIZE	CODE	PACKAGING	
812	3/8"	82812AC06	10	50
812	1/2"	82812AD06	10	50
812	3/4"	82812AE06	5	25

Art. 804

Single setting angle valve. Radiator union with o-ring. For copper, Pex-Al-Pex, Pex piping.



COPPER
MULTILAYER
PE-X

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
804	3/8"	1/2"	82804AC06		50
804	1/2"	1/2"	82804ADAD		50
804	1/2"	24x1,5	82804AD06		50

Art. 814

Single setting straight valve. Radiator union with o-ring. For copper, Pex-Al-Pex, Pex piping.



COPPER
MULTILAYER
PE-X

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
814	3/8"	1/2"	82814AC06		50
814	1/2"	24x1,5	82814AD06		50

Art. 803 - Art. 803+940

Single setting angle valve. For iron piping. Available also with anti-leakage radiator connection.



IRON PIPE

ART.	SIZE	CODE	PACKAGING	
803	3/8"	82803AC06		50
803	1/2"	82803AD06		50
803	3/4"	82803AE06		50
803+940	1/2"	82803AD06 940		50
803+940	3/4"	82803AE06 940		50

Art. 813 - Art. 813+940

Single setting straight valve. For iron piping. Available also with anti-leakage radiator connection.



IRON PIPE

ART.	SIZE	CODE	PACKAGING	
813	3/8"	82813AC06		50
813	1/2"	82813AD06		50
813	3/4"	82813AE06		50
813+940	1/2"	82813AD06 940		50
813+940	3/4"	82813AE06 940		50

A6) MANUAL VALVES FOR DOUBLE PIPE SYSTEMS

Adaptors and accessories from page 26 - Connections on page 6



Art. 161

Single setting valve with welding connection. Angle. Radiator union with o-ring. For copper piping.

COPPER

ART.	SIZE	CODE	PACKAGING	
161	1/2"x15	82161GE06	20	100

A7) LOCKSHIELDS FOR DOUBLE PIPE SYSTEMS

RIGHT VERSION



LEFT VERSION

Art. 1144

Double angle lockshield for copper, multilayer and pe-x piping and with anti-leakage radiator connection. Right or left version.

COPPER

MULTILAYER

PE-X

ART.	SIZE	CONNECTION THREAD	VERSION	CODE	PACKAGING	
1144	3/8"	24x1,5	RIGHT	821144ACD06	20	100
1144	3/8"	24x1,5	LEFT	821144ACS06	20	100
1144	1/2"	24x1,5	RIGHT	821144ADD06	20	100
1144	1/2"	24x1,5	LEFT	821144ADS06	20	100

RIGHT VERSION



LEFT VERSION

Art. 1145

Double angle lockshield for copper piping and with anti-leakage radiator connection. Right or left version.

IRON PIPE

ART.	SIZE	CONNECTION THREAD	VERSION	CODE	PACKAGING	
1145	3/8"	24x1,5	RIGHT	821145ACD06	20	100
1145	3/8"	24x1,5	LEFT	821145ACS06	20	100
1145	1/2"	24x1,5	RIGHT	821145ADD06	20	100
1145	1/2"	24x1,5	LEFT	821145ADS06	20	100

Art. 922 - Art. 942

Angle micrometric lockshield. For copper, Pex-Al-Pex, Pex piping. O-ring and metallic closure on the seat. With anti-leakage radiator union.



COPPER

MULTILAYER

PE-X

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
922	3/8"	24X1,5	82922AC06	20	100
922	1/2"	24X1,5	82922AD06	20	100
942	3/8"	1/2"	82942AC06	20	100
942	1/2"	1/2"	82942AD06	20	100

Art. 925 - Art. 945

Straight micrometric lockshield. For copper, Pex-Al-Pex, Pex piping. O-ring and metallic closure on the seat. With anti-leakage radiator union.



COPPER

MULTILAYER

PE-X

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
925	3/8"	24X1,5	82925AC06	10	50
925	1/2"	24X1,5	82925AD06	10	50
945	3/8"	1/2"	82945AC06	10	50
945	1/2"	1/2"	82945AD06	10	50

A7) LOCKSHIELDS FOR DOUBLE PIPE SYSTEMS

Adaptors and accessories from page 26 - Connections on page 6

Art. 952

Angle micrometric lockshield. For iron piping. O-ring and metallic closure on the seat. With anti-leakage radiator union.



IRON PIPE

ART.	SIZE	CODE	PACKAGING	
952	3/8"	82952AC06	20	100
952	1/2"	82952AD06	20	100
952	3/4"	82952AE06	20	100

Art. 955

Straight micrometric lockshield. For iron piping. O-ring and metallic closure on the seat. With anti-leakage radiator union.



IRON PIPE

ART.	SIZE	CODE	PACKAGING	
955	3/8"	82955AC06	10	50
955	1/2"	82955AD06	10	50
955	3/4"	82955AE06	10	50

Art. 837 - Art. 839 - Art. 854

Angle lockshield. For copper, Pex-Al-Pex, Pex piping. O-ring and metallic closure on the seat. With anti-leakage radiator union.



COPPER
MULTILAYER
PE-X

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
837	3/8"	1/2"	82837AC06	20	100
837	1/2"	1/2"	82837AD06	20	100
839	3/8"	24x1,5	82839AC06	20	100
839	1/2"	24x1,5	82839AD06	20	100
854	3/8"	3/4"	82854AC06	20	100
854	1/2"	3/4"	82854AD06	20	100

Art. 833 - Art. 835 - Art. 855

Straight lockshield. For copper, Pex-Al-Pex, Pex piping. O-ring and metallic closure on the seat. With anti-leakage radiator union.



COPPER
MULTILAYER
PE-X

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
833	3/8"	1/2"	82833AC06	20	100
833	1/2"	1/2"	82833AD06	20	100
835	3/8"	24x1,5	82835AC06	20	100
835	1/2"	24x1,5	82835AD06	20	100
855	3/8"	3/4"	82855AC06	20	100
855	1/2"	3/4"	82855AD06	20	100

Art. 827 - Art. 830

Angle lockshield. Radiator union with o-ring. For copper, Pex-Al-Pex, Pex piping.



COPPER
MULTILAYER
PE-X

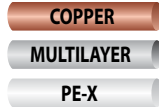
ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
827	3/8"	1/2"	82827AC06	20	100
827	1/2"	1/2"	82827ADAD	20	100
827	1/2"	24x1,5	82827AD06	20	100
830	1/2"	3/4"	82830AD06	20	100

A7) LOCKSHIELDS FOR DOUBLE PIPE SYSTEMS

Adaptors and accessories from page 26 - Connections on page 6

Art. 829 - Art. 831

Straight lockshield. Radiator union with o-ring. For copper, Pex-Al-Pex, Pex piping.



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
829	3/8"	1/2"	82829AC06	20	100
829	1/2"	24X1,5	82829AD06	20	100
831	1/2"	3/4"	82831AD06	20	100

Art. 805 - Art. 805+940

Single setting angle lockshield. For iron piping. Available also with anti-leakage radiator connection.



ART.	SIZE	CODE	PACKAGING	
805	3/8"	82805AC06	20	100
805	1/2"	82805AD06	20	100
805	3/4"	82805AE06	10	50
805+940	1/2"	82805AD06 940	20	100
805+940	3/4"	82805AE06 940	10	50

Art. 815 - Art. 815+940

Single setting straight lockshield. For iron piping. Available also with anti-leakage radiator connection.



ART.	SIZE	CODE	PACKAGING	
815	3/8"	82815AC06	20	100
815	1/2"	82815AD06	20	100
815	3/4"	85815AE06	10	50
815+940	1/2"	82815AD06 940	20	100
815+940	3/4"	82815AE06 940	10	50

Art. 162

Angle lockshield with welding connection. Radiator union with o-ring. For copper piping.



ART.	SIZE	CODE	PACKAGING	
162	1/2"x15	82162GE06	20	100

A8) FOUR-WAY VALVES WITH THERMOSTATIC OPTION FOR SINGLE PIPE AND DOUBLE PIPE SYSTEMS

Adaptors and accessories from page 26 - Connections on page 6

A



Art. 870

Inverse angle valve with thermostatic option. With anti-leakage radiator union and fitting for connection to the 15mm external probe. **Choose thermostatic heads and electrothermic actuators with 28x1,5 connection thread.**

ART.	SIZE	CONNECTION FOR EXTERNAL PROBE	CODE	PACKAGING	
870	1/2"	15 mm	81870AD06	10	50

Art. 866

Inverse angle valve with thermostatic option. Built-in air vent. With anti-leakage radiator union and fitting for connection to the 15mm external probe. **Choose thermostatic heads and electrothermic actuators with 28x1,5 connection thread.**



ART.	SIZE	CONNECTION FOR EXTERNAL PROBE	CODE	PACKAGING	
866	1/2"	15 mm	81866AD06	10	50

Art. 766

Inverse angle thermostatic valve. With anti-leakage radiator union and fitting for connection to the 15mm external probe. **Choose thermostatic heads and electrothermic actuators with 28x1,5 connection thread.**



ART.	SIZE	CONNECTION FOR EXTERNAL PROBE	CODE	PACKAGING	
766	1/2"	15 mm	81766AD06	10	50

Art. 767

Inverse angle thermostatic valve. Built-in air vent. With anti-leakage radiator union and fitting for connection to the 15mm external probe. **Choose thermostatic heads and electrothermic actuators with 28x1,5 connection thread.**



ART.	SIZE	CONNECTION FOR EXTERNAL PROBE	CODE	PACKAGING	
767	1/2"	15 mm	81767AD06	10	50

Art. 878

Inverse angle valve with thermostatic option. With anti-leakage radiator union and fitting for connection to the 1/2" iron pipe. **Choose thermostatic heads and electrothermic actuators with 28x1,5 connection thread.**



ART.	SIZE	CODE	PACKAGING	
878	1/2"	81878AD06	10	50

A8) FOUR-WAY VALVES WITH THERMOSTATIC OPTION FOR SINGLE PIPE AND DOUBLE PIPE SYSTEMS

Adaptors and accessories from page 26 - Connections on page 6



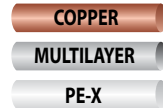
Art. 868

90° valve with thermostatic option. With fitting for connection to the 15mm external probe. Choose thermostatic heads and electrothermic actuators with 28x1,5 connection thread.

ART.	SIZE	CONNECTION FOR EXTERNAL PROBE	CODE	PACKAGING	
868	1/2"	15 mm	81868AD06	10	50

Art. 875 - Art. 877

Distributor for **single/double pipe**. Four-way group. Floor or wall connection. The valve can be easily switched from the **one-pipe system** (as provided) to the two-pipe system. With fitting for connection to the 15 mm external probe. **Interaxe 50 mm.**



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
875	1/2"	24x1,5	81875AD06	10	50
877	1/2"	3/4"	81877AD06	10	50

Art. 889

Chromed steel probe Ø 15 mm. Fox external connection.



ART.	DIAMETER	SIZE	CODE	PACKAGING	
889	15	600	818896006	1	
889	15	800	818898006	1	
889	15	1000	818891006	1	

Art. 891

Single pipe valve with thermostatic option. Built-in lockshield-valve. **Interaxe 37,5 mm.** Choose thermostatic and electrothermic actuators with 28x1,5 connection thread.



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
891	1/2"	24x1,5	81891AD06	10	
891	3/4"	24x1,5	81891AE06	10	

Art. 892

Double pipe valve with thermostatic option. Built-in lockshield-valve. **Interaxe 37,5 mm.** Choose thermostatic and electrothermic actuators with 28x1,5 connection thread.



NEW →

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
892	1/2"	24x1,5	82892AD06	10	
892	3/4"	24x1,5	82892AE06	10	
892	1/2"	1/2"	82892ADAD	10	

A8) FOUR-WAY VALVES WITH THERMOSTATIC OPTION FOR SINGLE PIPE AND DOUBLE PIPE SYSTEMS

Adaptors and accessories from page 26 - Connections on page 6

Art. 894 - Art. 895

Single/double pipe valve. Adjustable for wall or floor connection. It can be installed either on the right or on the left side of the radiator. Built-in lockshield-valve. **Interaxe 50 mm.**



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
894	1/2"	24x1,5	81894AD06	10	
895	1/2"	3/4"	81895AD06	10	

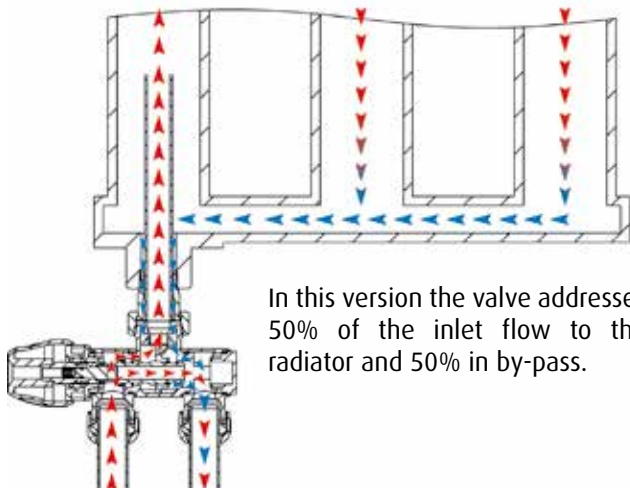
Art. 893

Single-double pipe valve with thermostatic option. Adjustable for wall or floor connection. It can be installed either on the right or on the left side of the radiator. Built-in lockshield-valve. Interaxe 50 mm. **Choose thermostatic and electrothermic actuators with 28x1,5 connection thread. UNDER PREPARATION.**



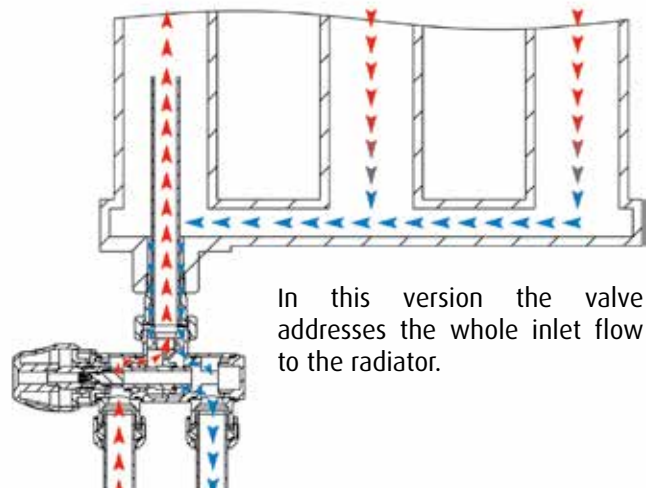
ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
893	1/2"	3/4"	81893AD06	10	

single pipe version



In this version the valve addresses 50% of the inlet flow to the radiator and 50% in by-pass.

double pipe version



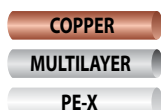
In this version the valve addresses the whole inlet flow to the radiator.

A9) SINGLE PIPE MANUAL VALVES

Adaptors and accessories from page 26 - Connections on page 6

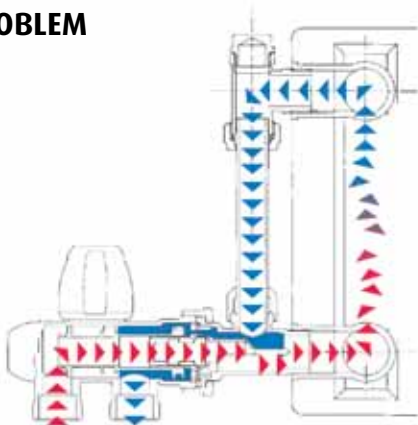
Art. 887

Single pipe valve. Frontal knob. For copper, Pex-Al-Pex, Pex piping. Reversible flow entry. No need to empty neither the system nor the radiator. Interaxe 37,5 mm. Chromed steel probe, art.889, not included.

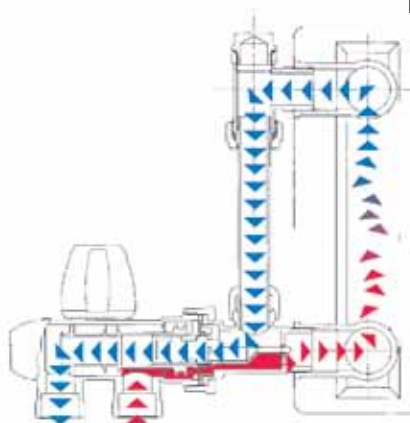


ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
887	1/2"	24x1,5	81887AD06	10	

PROBLEM

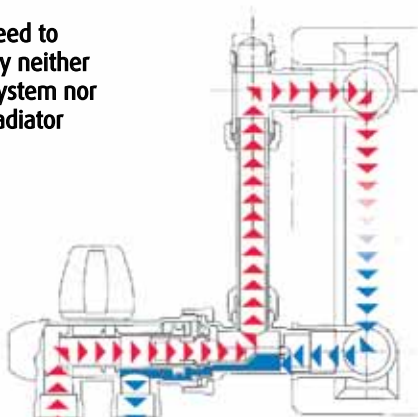


PROBLEM



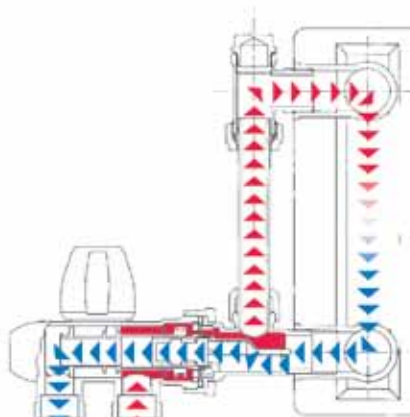
SOLUTION

No need to empty neither the system nor the radiator



SOLUTION

No need to empty neither the system nor the radiator



A9) SINGLE PIPE MANUAL VALVES

Adaptors and accessories from page 26 - Connections on page 6

A



Art. 888

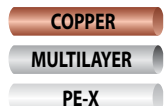
Single pipe valve. Frontal knob. For copper, Pex-Al-Pex, Pex piping. Reversible flow entry. Interaxe 37,5 mm. Chromed steel probe, art.889, not included.



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING
888	1/2"	24x1,5	81888AD06	10

Art. 858

Manual single pipe valve. Side knob. For copper, Pex-Al-Pex, Pex piping. Reversible flow entry. Interaxe 37,5 mm. Chromed steel probe, art.889, not included.



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING
858	1/2"	24x1,5	81858AD06	10

Art. 886

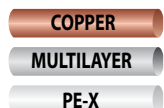
Single pipe valve. Frontal knob. For copper, Pex-Al-Pex, Pex piping. Reversible flow entry. Interaxe: 37,5 mm. 40 cm probe. The connection thread to the radiator could be either on the right or on the left side.



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING
886	right thread 1/2"	24x1,5	81886AD06	10
886	3/4"	24x1,5	81886AE06	10
886	1"	24x1,5	81886AF06	10
886	left thread 3/4"	24x1,5	81886AS06	10
886	1"	24x1,5	81886AT06	10

Art. 856

Single pipe valve. Side knob. For copper, Pex-Al-Pex, Pex piping. Reversible flow entry. Interaxe 37,5 mm. 40 cm probe. The connection thread to the radiator could be either on the right or on the left side.



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING
856	right thread 1/2"	24x1,5	81856AD06	10
856	3/4"	24x1,5	81856AE06	10
856	1"	24x1,5	81856AF06	10
856	left thread 3/4"	24x1,5	81856AS06	10
856	1"	24x1,5	81856AT06	10

A10) FITTINGS FOR COPPER, PEX-AL-PEX, PEX PIPE, THREE PIECES FITTINGS, RADIATOR ECCENTRICS, ELBOW FITTINGS, ROSETTE



Art. 90
Patent-pending fitting SICURBLOC for copper pipe.

ART.	PIPE SIZE	CONNECTION THREAD	CODE	PACKAGING	
90	10	1/2"	81090FC06	5	250
90	12	1/2"	81090FD06	5	250
90	12,7	1/2"	81090CC06	5	250
90	14	1/2"	81090FE06	5	250
90	15	1/2"	81090FF06	5	250
90	16	1/2"	81090FG06	5	250
90	10	24x1,5	81090GB06	5	250
90	12	24x1,5	81090GC06	5	250
90	14	24x1,5	81090GD06	5	250
90	15	24x1,5	81090GE06	5	250
90	16	24x1,5	81090GF06	5	250
90	18	24x1,5	81090GG06	5	250

Art. 93
Euroconus fitting for copper pipe. With o-ring



ART.	PIPE SIZE	CONNECTION THREAD	CODE	PACKAGING	
93	12	3/4"	81093HB06	5	250
93	14	3/4"	81093HC06	5	250
93	15	3/4"	81093HD06	5	250
93	16	3/4"	81093HE06	5	250
93	18	3/4"	81093HF06	5	250

Art. 98
Fitting for Pex and Pex-Al-Pex pipe.



ART.	PIPE SIZE	EXT. PIPE SIZE	INT. PIPE SIZE	CONNECTION THREAD	CODE	PACKAGING	
98	16x1,5	16	13	1/2"	81098GI06	5	250
98	14x2	14	10	1/2"	81098BN06	5	250
98	16x2	16	12	1/2"	81098GH06	5	250
98	16x2,2	16	11,6	1/2"	81098B006	5	250
98	16x2,25	16	11,5	1/2"	81098B006	5	250

Art. 100
Fitting for Pex and Pex-Al-Pex pipe.



ART.	PIPE SIZE	EXT. PIPE SIZE	INT. PIPE SIZE	CONNECTION THREAD	CODE	PACKAGING	
100	18x2,5	18	13	24X1,5	81100GG06	5	250
100	20x2,5	20	15	24X1,5	81100GK06	5	250
100	12x1,1	12	9,8	24X1,5	81100GB06	5	250
100	12X2	12	8	24X1,5	81100BM06	5	250
100	14X2	14	10	24X1,5	81100BN06	5	250
100	16X2	16	12	24X1,5	81100GH06	5	250
100	18X2	18	14	24X1,5	81100GJ06	5	250
100	20X2	20	16	24X1,5	81100BQ06	5	250
100	16X2,2	16	11,6	24X1,5	81100B006	5	250
100	16X2,25	16	11,5	24X1,5	81100B006	5	250
100	18X2,2	18	13,6	24X1,5	81100BP06	5	250
100	20X2,25	20	15,5	24X1,5	81100BR06	5	250
100	16X1,5	16	13	24X1,5	81100GI06	5	250
100	20X1,9	20	16,2	24X1,5	81100GN06	5	250
100	16X2,6 rehau rautitan	16,2	11	24X1,5	81100GL06	5	250
100	17x2	17	13	24x1,5	81100BS06	5	250
100	20x2,9	20	14,2	24x1,5	81100GM06	5	250
100	25x2,5	20	15	1"	81100G006	5	250
100	26x3	20	14	1"	81100GP06	5	250

A10) FITTINGS FOR COPPER, PEX-AL-PEX, PEX PIPE, THREE PIECES FITTINGS, RADIATOR ECCENTRICS, ELBOW FITTINGS, ROSETTE

Art. 101

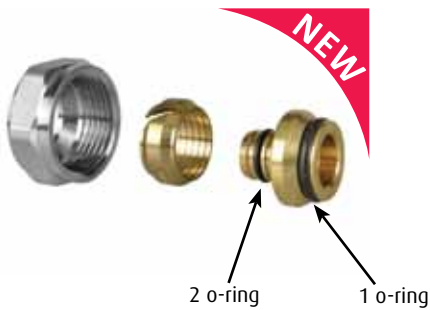
Fitting for Pex and Pex-Al-Pex pipe. Long nut and adapter with 3 o-rings.



ART.	PIPE SIZE	EXT. PIPE SIZE	INT. PIPE SIZE	CONNECTION THREAD	CODE	PACKAGING	
101	18x2,5	18	13	3/4"	81101GG06	5	250
101	20x2,5	20	15	3/4"	81101GK06	5	250
101	12x1,1	12	9,8	3/4"	81101GB06	5	250
101	12X2	12	8	3/4"	81101BM06	5	250
101	14X2	14	10	3/4"	81101BN06	5	250
101	16X2	16	12	3/4"	81101GH06	5	250
101	18X2	18	14	3/4"	81101GJ06	5	250
101	20X2	20	16	3/4"	81101BQ06	5	250
101	16X2,2	16	11,6	3/4"	81101B006	5	250
101	16X2,25	16	11,5	3/4"	81101B006	5	250
101	18X2,2	18	13,6	3/4"	81101BP06	5	250
101	20X2,25	20	15,5	3/4"	81101BR06	5	250
101	16X1,5	16	13	3/4"	81101GI06	5	250
101	20X1,9	20	16,2	3/4"	81101GN06	5	250
101	16X2,6 rehaus rautitan	16,2	11	3/4"	81101GL06	5	250
101	17x2	17	13	3/4"	81101BS06	5	250
101	20x2,9	20	14,2	3/4"	81101GM06	5	250

Art. 119

Fitting for Pex and Pex-Al-Pex pipe. Short nut and adapter with 3 o-rings.



ART.	PIPE SIZE	EXT. PIPE SIZE	INT. PIPE SIZE	CONNECTION THREAD	CODE	PACKAGING	
119	16x2	16	12	3/4"	81119GH06	5	250
119	17x2	17	13	3/4"	81119BS06	5	250

Art. 116 - Art. 117

Wrench for fittings. Art.116 Hexagon 24-Hexagon 27 for 1/2"-24x1,5 thread. Art.117 Hexagon 24-Hexagon 27 for 24x1,5-3/4" thread.



ART.	SIZE	CODE	PACKAGING	
116	24-27	871160006	1	
117	27-30	871170006	1	

A10) FITTINGS FOR COPPER, PEX-AL-PEX, PEX PIPE, THREE PIECES FITTINGS, RADIATOR ECCENTRICS, ELBOW FITTINGS, ROSETTE

Art. 808

Three pieces elbow radiator union. With o-ring.



BRASS VERSION



CHROME VERSION

ART.	SIZE	CODE	PACKAGING	
808	3/8"	85808AC05	30	150
808	1/2"	85808AD05	20	100
808	3/4"	85808AE05	10	100
808	1"	85808AF05	1	50
808	1"1/4	85808AG05	1	20
808	1"1/2	85808AH05	1	20
808	2"	85808AJ05	1	20
808	3/8"	85808AC06	30	150
808	1/2"	85808AD06	20	100
808	3/4"	85808AE06	10	100
808	1"	85808AF06	1	50
808	1"1/4	85808AG06	1	20
808	1"1/2	85808AH06	1	20
808	2"	85808AJ06	1	20

Art. 818

Three pieces straight radiator union. With o-ring.



BRASS VERSION



CHROME VERSION

ART.	SIZE	CODE	PACKAGING	
818	3/8"	85818AC05	30	150
818	1/2"	85818AD05	20	100
818	3/4"	85818AE05	10	100
818	1"	85818AF05	1	50
818	1"1/4	85818AG05	1	20
818	1"1/2	85818AH05	1	20
818	2"	85818AJ05	1	20
818	3/8"	85818AC06	30	150
818	1/2"	85818AD06	20	100
818	3/4"	85818AE06	10	100
818	1"	85818AF06	1	50
818	1"1/4	85818AG06	1	20
818	1"1/2	85818AH06	1	20
818	2"	85818AJ06	1	20

Art. 720

Three pieces straight radiator union. With o-ring.



ART.	SIZE	CODE	PACKAGING
720	3/8"x1	82720CH06	10
720	3/8"x2	82720CI06	10
720	3/8"x3	82720CL06	10
720	3/8"x4	82720CM06	10
720	3/8"x5	82720CN06	10
720	3/8"x6	82720CO06	10
720	1/2"x1	82720CP06	10
720	1/2"x2	82720CQ06	10
720	1/2"x3	82720CR06	10
720	1/2"x4	82720CS06	10
720	1/2"x5	82720CT06	10
720	1/2"x6	82720CU06	10
720	3/4"x5	82720CV06	10

A10) FITTINGS FOR COPPER, PEX-AL-PEX, PEX PIPE, THREE PIECES FITTINGS, RADIATOR ECCENTRICS, ELBOW FITTINGS, ROSETTE



Art. 140

1/2" angle fitting. Flat seat, 3/4" nut. For connection to wall boilers.

ART.	SIZE	CODE	PACKAGING
140	1/2"	90140AD06	10



Art. 141

1/2" angle fitting. Conical seat, o-ring. To connect the valve to the radiator.

ART.	SIZE	CODE	PACKAGING
141	1/2"	90141AD06	10



Art. 106

Single rosette for two-pipe radiator valve. With pipe cover.

ART.	CODE	PACKAGING
106	82106AC20	20



Art. 107

Double rosette for one-pipe radiator valve. With pipe cover.

ART.	CODE	PACKAGING
107	81107AD20	20



Art. 108

Single rosette for two-pipe radiator valve.

ART.	CODE	PACKAGING
108	82108AC20	20



Art. 109

Double rosette for one-pipe radiator valve.

ART.	CODE	PACKAGING
109	81109AD20	20

A11) SINGLE/DOUBLE PIPE DISTRIBUTORS FOR PANELS WITH BUILT IN THERMOSTATIC GROUP

Adaptors and accessories from page 26 - Connections on page 6



Art. 897

Two-pipe system double straight distributor. For integrated panels with built-in thermostatic group. **Suitable for 1/2" Female radiator connection.** Euroconus connection to the pipe.

COPPER MULTILAYER PE-X	ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
	897	1/2"	3/4"	82897AD06	1	50



Art. 884

Two-pipe system double angle distributor. For integrated panels with built-in thermostatic group. **Suitable for 1/2" Female radiator connection.** Euroconus connection to the pipe.

COPPER MULTILAYER PE-X	ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
	884	1/2"	3/4"	82884AD06	1	50



Art. 896

Two-pipe system double straight distributor. For integrated panels with built-in thermostatic group. **Suitable for 3/4" Male radiator connection.** Euroconus connection to the pipe.

COPPER MULTILAYER PE-X	ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
	896	3/4"	3/4"	82896AE06	1	50



Art. 883

Two-pipe system double angle distributor. For integrated panels with built-in thermostatic group. **Suitable for 3/4" Male radiator connection.** Euroconus connection to the pipe.

COPPER MULTILAYER PE-X	ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
	883	3/4"	3/4"	82883AE06	1	50



Art. 902

One-pipe system double straight distributor. For integrated panels with built-in thermostatic group. **Suitable for 1/2" Female radiator connection.** Euroconus connection to the pipe.

COPPER MULTILAYER PE-X	ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
	902	1/2"	3/4"	81902AD06	1	50

A11) SINGLE/DOUBLE PIPE DISTRIBUTORS FOR PANELS WITH BUILT IN THERMOSTATIC GROUP

Adaptors and accessories from page 26 - Connections on page 6

A



Art. 903

One-pipe system double angle distributor. For integrated panels with built-in thermostatic group. **Suitable for 1/2" Female radiator connection.** Euroconus connection to the pipe.

- COPPER
- MULTILAYER
- PE-X

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
903	1/2"	3/4"	81903AD06	1	50



Art. 904

One-pipe system double straight distributor. For integrated panels with built-in thermostatic group. **Suitable for 3/4" Male radiator connection.** Euroconus connection to the pipe.

- COPPER
- MULTILAYER
- PE-X

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
904	3/4"	3/4"	81904AE06	1	50



Art. 905

One-pipe system double angle distributor. For integrated panels with built-in thermostatic group. **Suitable for 3/4" Male radiator connection.** Euroconus connection to the pipe.

- COPPER
- MULTILAYER
- PE-X

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
905	3/4"	3/4"	81905AE06	1	50



Art. 912

Two-pipe system double straight distributor. For integrated panels with built-in thermostatic group. **Suitable for 1/2" Female radiator connection.** Euroconus connection to the pipe.

- COPPER
- MULTILAYER
- PE-X

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
912	1/2"	3/4"	82912AD06	1	50



Art. 913

Two-pipe system double angle distributor. For integrated panels with built-in thermostatic group. **Suitable for 1/2" Female radiator connection.** Euroconus connection to the pipe.

- COPPER
- MULTILAYER
- PE-X

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
913	1/2"	3/4"	82913AD06	1	50

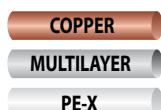
A11) SINGLE/DOUBLE PIPE DISTRIBUTORS FOR PANELS WITH BUILT IN THERMOSTATIC GROUP

Adaptors and accessories from page 26 - Connections on page 6



Art. 914

Two-pipe system double straight distributor. For integrated panels with built-in thermostatic group. **Suitable for 3/4" Male radiator connection.** Euroconus connection to the pipe.

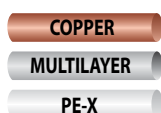


ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
914	3/4"	3/4"	82914AE06	1	50



Art. 915

Two-pipe system double angle distributor. For integrated panels with built-in thermostatic group. **Suitable for 3/4" Male radiator connection.** Euroconus connection to the pipe.



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
915	3/4"	3/4"	82915AE06	1	50



Art. 885

Union with gasket for panels 1/2" male. For art. 883,884, 896 e 897.

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
885	1/2"	3/4"	81885AD05	1	50



Art. 898

Union with gasket for panels 1/2" Female. For art. 902, 903, 912, 913.

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
898	1/2"	3/4"	81898AD05	1	50



Art. 899

Adaptor for panels 3/4" Male. For art. 904, 905, 914, 915.

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
899	1/2"	3/4"	81899AD05	1	50

A12) RADIATOR AIR VENTS

A

Art. 701

Manual air vent. Soft seat, white plastic knob.



ART.	SIZE	CODE	PACKAGING	
701	1/8"	82701AA06	100	
701	1/4"	82701AB06	100	
701	3/8"	82701AC06	100	
701	1/2"	82701AD06	100	

Art. 702

Manual air vent. Soft seat, white plastic knob, teflon ring.



ART.	SIZE	CODE	PACKAGING	
702	1/4"	82702AB06	100	
702	3/8"	82702AC06	100	
702	1/2"	82702AD06	100	

Art. 703

Manual air vent. Soft seat, brass nickel plated knob.



ART.	SIZE	CODE	PACKAGING	
703	1/8"	82703AA06	100	
703	1/4"	82703AB06	100	
703	3/8"	82703AC06	100	

Art. 717

Manual air vent with revolving drain knob. O-ring seat on the radiator connection.



ART.	SIZE	CODE	PACKAGING	
717	1/8"	82717AA06	100	
717	1/4"	82717AB06	100	
717	3/8"	82717AC06	100	

Art. 705

Manual air vent with revolving drain knob. O-ring seat on the radiator connection.



ART.	SIZE	CODE	PACKAGING	
705	1/2"	82705AD06	100	
705	3/4"	82705AE06	100	

A12) RADIATOR AIR VENTS

Art. 706

Plug with o-ring seat on the radiator connection.



ART.	SIZE	CODE	PACKAGING	
706	1/2"	82706AD06	100	
706	3/4"	82706AE06	100	

Art. 715

Angle automatic floating air vent. Nickel plated.



ART.	SIZE	CODE	PACKAGING	
715	3/8"	82715AC06	100	
715	1/2"	82715AD06	100	
715	3/4"	82715AE06	100	

Art. 716

Radiator plug with automatic floating air vent. EPDM gasket on the radiator connection.



ART.	SIZE	CODE	PACKAGING	
716	1"DX	82716AF06	10	100
716	1" SX	82716AT06	10	100

Art. 718

Metal tool for item 705, 5 mm.



ART.	SIZE	MATERIALE	CODE	PACKAGING	
718	5 MM	METALLO	827180006	100	
718	5 MM	PLASTICA	827180020	100	

B) Valves and lockshields for design radiators



VALVES AND LOCKSHIELDS FOR DESIGN RADIATORS



pag. 36



CHROMED THERMOSTATIC HEAD AND ROSETTES WITH PIPE COVER



pag. 44

B1) VALVES AND LOCKSHIELDS FOR DESIGN RADIATORS

Adaptors and accessories on page 44



Art. 1110

Angle valve with thermostatic option. For copper, Pex-Al-pex, pex piping. With anti-leakage radiator union. Choose thermostatic actuators with 28x1,5 connection thread. For installation of electrothermic actuators use connection ring art. 23. **Chrome finish.**



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
1110	3/8"	24X1,5	821110AC07	1	
1110	1/2"	24X1,5	821110AD07	1	



Art. 1111

Straight valve with thermostatic option. For copper, Pex-Al-pex, pex piping. With anti-leakage radiator union. Choose thermostatic actuators with 28x1,5 connection thread. For installation of electrothermic actuators use connection ring art. 23. **Chrome finish.**



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
1111	3/8"	24X1,5	821111AC07	1	
1111	1/2"	24X1,5	821111AD07	1	



Art. 1112

Angle valve with thermostatic option. For iron piping. With anti-leakage radiator union. Choose thermostatic actuators with 28x1,5 connection thread. For installation of electrothermic actuators use connection ring art. 23. **Chrome finish.**



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
1112	1/2"		821112AD07	1	



Art. 1113

Straight valve with thermostatic option. For iron piping. With antileakage radiator union. Choose thermostatic actuators with 28x1,5 connection thread. For installation of electrothermic actuators use connection ring art. 23. **Chrome finish.**



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
1113	1/2"		821113AD07	1	

B1) VALVES AND LOCKSHIELDS FOR DESIGN RADIATORS

Adaptors and accessories on page 44

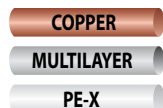
RIGHT VERSION



LEFT VERSION

Art. 1140

Double angle valve with thermostatic option for copper piping for thermostatic heads and electrothermic actuators. Right and left version available. Ideal for design radiators or in case of limited spaces. Choose thermostatic actuators with 28x1,5 connection thread. With anti-leakage radiator union. **Chrome finish.**



ART.	SIZE	CONNECTION THREAD	VERSION	CODE	PACKAGING	
1140	1/2"	24x1,5	RIGHT	821140ADD07	1	
1140	1/2"	24x1,5	LEFT	821140ADS07	1	

Art. 1114

Single setting manual angle valve. For copper, Pex-Al-Pex and Pex piping. Double sealing on the spindle with o'ring and PTFE gasket and on the valve seat. With antileakage radiator unit. **Chrome finish.**



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
1114	3/8"	24X1,5	821114AC07	1	
1114	1/2"	24X1,5	821114AD07	1	

Art. 1115

Single setting manual straight valve. For copper, Pex-Al-Pex and Pex piping. Double sealing on the spindle with o'ring and PTFE gasket and on the valve seat. With anti-leakage radiator unit. **Chrome finish.**



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
1115	3/8"	24X1,5	821115AC07	1	
1115	1/2"	24X1,5	821115AD07	1	

Art. 1116

Single setting manual angle valve. For iron piping. Double sealing on the spindle with o'ring and PTFE gasket and on the valve seat. With anti-leakage radiator unit. **Chrome finish.**



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
1116	1/2"		821116AD07	1	

B1) VALVES AND LOCKSHIELDS FOR DESIGN RADIATORS

Adaptors and accessories on page 44



Art. 1117

Single setting manual straight valve. For iron piping. Double sealing on the spindle with o'ring and PTFE gasket and on the valve seat. With anti-leakage radiator unit. **Chrome finish.**

IRON PIPE

ART.	SIZE		CODE	PACKAGING	
1117	1/2"		821117AD07	1	



Art. 1118

Angle micrometric lockshield for copper, Pex-Al-Pex, Pex pipe. With antileakage radiator connection. **Chrome finish.**

COPPER
MULTILAYER
PE-X

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
1118	3/8"	24X1,5	821118AC07	1	
1118	1/2"	24X1,5	821118AD07	1	



Art. 1119

Straight micrometric lockshield for copper, Pex-Al-Pex, Pex pipe. With antileakage radiator connection. **Chrome finish.**

COPPER
MULTILAYER
PE-X

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
1119	3/8"	24X1,5	821119AC07	1	
1119	1/2"	24X1,5	821119AD07	1	



Art. 1120

Angle micrometric lockshield for iron pipe. With antileakage radiator connection. **Chrome finish.**

IRON PIPE

ART.	SIZE		CODE	PACKAGING	
1120	1/2"		821120AD07	1	

B1) VALVES AND LOCKSHIELDS FOR DESIGN RADIATORS

Adaptors and accessories on page 44



Art. 1121

Straight micrometric lockshield for iron pipe. With antileakage radiator connection. **Chrome finish.**

IRON PIPE

ART.	SIZE	CONNECTION THREAD	VERSION	CODE	PACKAGING
1121	1/2"			821121AD07	1

RIGHT VERSION



Art. 1143

Double angle lockshield for copper piping for design radiators. Right and left version available. With antileakage radiator connection. **Chrome finish.**



LEFT VERSION

COPPER
MULTILAYER
PE-X

ART.	SIZE	CONNECTION THREAD	VERSION	CODE	PACKAGING
1143	1/2"	24x1,5	DESTRA	821143ADD07	1
1143	1/2"	24x1,5	SINISTRA	821143ADS07	1



Art. 1122

Angle valve with thermostatic option. For copper, Pex-Al-pex, pex piping. With antileakage radiator union. Choose thermostatic actuators with 28x1,5 connection thread. For installation of electrothermic actuators use connection ring art. 23. **White finish.**

COPPER
MULTILAYER
PE-X

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING
1122	3/8"	24X1,5	821122AC13	1
1122	1/2"	24X1,5	821122AD13	1



Art. 1123

Straight valve with thermostatic option. For copper, Pex-Al-pex, pex piping. With anti-leakage radiator union. Choose thermostatic actuators with 28x1,5 connection thread. For installation of electrothermic actuators use connection ring art. 23. **White finish.**

COPPER
MULTILAYER
PE-X

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING
1123	3/8"	24X1,5	821123AC13	1
1123	1/2"	24X1,5	821123AD13	1

B1) VALVES AND LOCKSHIELDS FOR DESIGN RADIATORS

Adaptors and accessories on page 44



Art. 1124

Angle valve with thermostatic option. For iron piping. With anti-leakage radiator union. Choose thermostatic actuators with 28x1,5 connection thread. For installation of electrothermic actuators use connection ring art. 23. **White finish.**

IRON PIPE

ART.	SIZE	CODE	PACKAGING
1124	1/2"	821124AD13	1



Art. 1125

Straight valve with thermostatic option. For iron piping. With antileakage radiator union. Choose thermostatic actuators with 28x1,5 connection thread. For installation of electrothermic actuators use connection ring art. 23. **White finish.**

IRON PIPE

ART.	SIZE	CODE	PACKAGING
1125	1/2"	821125AD13	1

RIGHT VERSION



Art. 1146

Double angle valve with thermostatic option for copper piping for thermostatic heads and electrothermic actuators. Right and left version available. Ideal for design radiators or in case of limited spaces. Choose thermostatic actuators with 28x1,5 connection thread. With antileakage radiator union. **White finish.**



LEFT VERSION

COPPER
MULTILAYER
PE-X

ART.	SIZE	CONNECTION THREAD	VERSION	CODE	PACKAGING
1146	1/2"	24x1,5	RIGHT	821146ADD13	1
1146	1/2"	24x1,5	LEFT	821146ADS13	1



Art. 1126

Single setting manual angle valve. For copper, Pex-Al-Pex and Pex piping. Double sealing on the spindle with o'ring and PTFE gasket and on the valve seat. With antileakage radiator unit. **White finish.**

COPPER
MULTILAYER
PE-X

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING
1126	3/8"	24X1,5	821126AC13	1
1126	1/2"	24X1,5	821126AD13	1

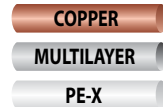
B1) VALVES AND LOCKSHIELDS FOR DESIGN RADIATORS

Adaptors and accessories on page 44



Art. 1127

Single setting manual straight valve. For copper, Pex-Al-Pex and Pex piping. Double sealing on the spindle with o'ring and PTFE gasket and on the valve seat. With anti-leakage radiator unit. **White finish.**



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
1127	3/8"	24X1,5	821127AC13	1	
1127	1/2"	24X1,5	821127AD13	1	



Art. 1128

Single setting manual angle valve. For iron piping. Double sealing on the spindle with o'ring and PTFE gasket and on the valve seat. With anti-leakage radiator unit. **White finish.**



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
1128	1/2"		821128AD13	1	



Art. 1129

Single setting manual straight valve. For iron piping. Double sealing on the spindle with o'ring and PTFE gasket and on the valve seat. With anti-leakage radiator unit. **White finish.**

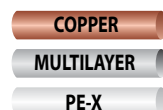


ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
1129	1/2"		821129AD13	1	



Art. 1130

Angle micrometric lockshield for copper, Pex-Al-Pex, Pex pipe. With antileakage radiator connection. **White finish.**



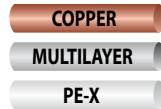
ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
1130	3/8"	24X1,5	821130AC13	1	
1130	1/2"	24X1,5	821130AD13	1	

B1) VALVES AND LOCKSHIELDS FOR DESIGN RADIATORS

Adaptors and accessories on page 44

Art. 1131

Straight micrometric lockshield for copper, Pex-Al-Pex, Pex pipe. With antileakage radiator connection. **White finish.**



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
1131	3/8"	24X1,5	821131AC13	1	
1131	1/2"	24X1,5	821131AD13	1	

Art. 1132

Angle micrometric lockshield for iron pipe. With antileakage radiator connection. **White finish.**



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
1132	1/2"		821132AD13	1	

Art. 1133

Straight micrometric lockshield for iron pipe. With antileakage radiator connection. **White finish.**



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
1133	1/2"		821133AD13	1	

Art. 1147

Double angle lockshield for copper piping for design radiators. Right and left version available. **White finish.**

RIGHT VERSION



LEFT VERSION



ART.	SIZE	CONNECTION THREAD	VERSION	CODE	PACKAGING	
1147	1/2"	24x1,5	RIGHT	821147ADD13	1	
1147	1/2"	24x1,5	LEFT	821147ADS13	1	

B1) VALVES AND LOCKSHIELDS FOR DESIGN RADIATORS

Adaptors and accessories on page 44



Art. 938 - Art. 968

Single-double pipe valve for towel heaters and design radiators with 360° rotating pipe connection. Universal model which can be installed both on right / left hand side of the towel heater. Distance between the exits 50 mm. The valve can be easily switched from one to two pipe systems. It includes an internal lockshield for the by-pass regulation when installed in one-pipe systems. **Chrome finish.**



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
938	1/2"	24X1,5	82938AD07	1	
968	1/2"	3/4"	82968AD07	1	



Art. 930

Single-double pipe valve with thermostatic option. Adjustable for wall or floor connection. It can be installed either on the right or on the left side of the radiator. Built-in lockshield-valve. Interaxe 50 mm. Choose thermostatic and electrothermic actuators with 28x1,5 connection thread. **Chrome finish.**



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
930	1/2"	3/4"	82930AD07	1	



Art. 923 - Art. 943

Single-double pipe valve for towel heaters and design radiators with 360° rotating pipe connection. Universal model which can be installed both on right / left hand side of the towel heater. Distance between the exits 50 mm. The valve can be easily switched from one to two pipe systems. It includes an internal lockshield for the by-pass regulation when installed in one-pipe systems. **White finish.**

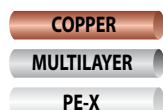


ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
923	1/2"	24X1,5	82923AD13	1	
943	1/2"	3/4"	82943AD13	1	



Art. 931

Single-double pipe valve with thermostatic option. Adjustable for wall or floor connection. It can be installed either on the right or on the left side of the radiator. Built-in lockshield-valve. Interaxe 50 mm. Choose thermostatic and electrothermic actuators with 28x1,5 connection thread. **White finish.**



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
931	1/2"	3/4"	82931AD07	1	

B1) VALVES AND LOCKSHIELDS FOR DESIGN RADIATORS



Art. 91
Fitting "SICURBLOC" for copper pipe. **Chrome finish.**

ART.	PIPE SIZE	CONNECTION THREAD	CODE	PACKAGING
91	10	24x1,5	81091GB07	2
91	12	24x1,5	81091GC07	2
91	14	24x1,5	81091GD07	2
91	15	24x1,5	81091GE07	2
91	16	24x1,5	81091GF07	2
91	18	24x1,5	81091GG07	2

Art. 95
Fitting for Pex and Pex-Al-Pex pipe. **Chrome finish.**



ART.	PIPE SIZE	EXT. PIPE SIZE	INT. PIPE SIZE	CONNECTION THREAD	CODE	PACKAGING
95	18x2,5	18	13	24X1,5	81095GG07	2
95	20x2,5	20	15	24X1,5	81095GK07	2
95	12X2	12	8	24X1,5	81095BM07	2
95	14X2	14	10	24X1,5	81095BN07	2
95	16X2	16	12	24X1,5	81095GH07	2
95	18X2	18	14	24X1,5	81095GJ07	2
95	20X2	20	16	24X1,5	81095BQ07	2
95	16X2,2	16	11,6	24X1,5	81095B007	2
95	16X2,25	16	11,5	24X1,5	81095B007	2
95	18X2,2	18	13,6	24X1,5	81095BP07	2
95	20X2,25	20	15,5	24X1,5	81095BR07	2
95	16X1,5	16	13	24X1,5	81095GI07	2
95	20X1,9	20	16,2	24X1,5	81095GN07	2
95	16X2,6 rehautitan	16,2	11	24X1,5	81095GL07	2
95	17x2	17	13	24x1,5	81095BS07	2
95	20x2,9	20	14,2	24x1,5	81095GM07	2

B2) CHROMED THERMOSTATIC HEAD AND ROSETTES WITH PIPE COVER



NEW

Art. 1099
Thermostatic head with **liquid sensor** for thermostatic valves for radiators. Temperature locking and limiting to a desired value with a forked pin system (see page 2). **Chrome finish.**

ART.	CONNECTION THREAD	CODE	PACKAGING
1099	28X1,5	821099AC07	1 50

Art. 106
Chromed single rosette with pipe cover for two-pipe valve.



ART.	CODE	PACKAGING
106	82106AC07	30

Art. 108
Chromed single rosette for two-pipe valve.



ART.	CODE	PACKAGING
108	82108AC07	30

C) Zone valves, distribution manifolds for heating and sanitary systems, boxes, accessories for manifolds, fittings



C1 ZONE VALVES

pag. 47



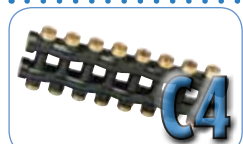
C2 PUMP GROUPS FOR MANIFOLDS AND CENTRAL HEATING SYSTEMS, WITHOUT REGULATION, WITH FIXED/VARIABLE POINT REGULATION

pag. 56



C3 FIXED POINT REGULATION MANIFOLDS FOR UNDERFLOOR HEATING SYSTEMS LOW AND HIGH TEMPERATURE - WITH BUILT-IN MIXING GROUP

pag. 66



C4 SINGLE AND COPLANAR JOINABLE MANIFOLDS FOR HEATING AND SANITARY SYSTEMS

pag. 76



C5 BOXES FOR SINGLE, COPLANAR MANIFOLDS AND FOR UNDERFLOOR HEATING SYSTEMS

pag. 80



C6 ACCESSORIES FOR MANIFOLDS

pag. 82



C7 FITTINGS FOR COPPER, PEX-AL-PEX, PEX PIPE

pag. 89



C8 MINI BALL VALVES

pag. 91



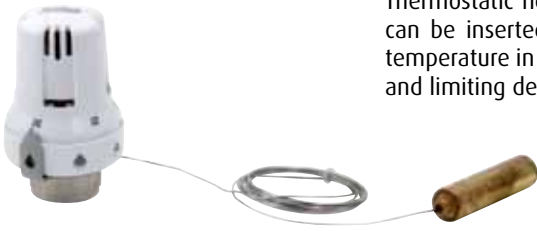
C9 TOOLS TO ASSEMBLE VALVES, MANIFOLDS AND FITTINGS



pag. 91

THERMOSTATIC HEADS FOR ZONE VALVES

Art. 995

Thermostatic head with remote sensor. **Working temperature range 20°-50° C.** The sensor can be inserted in our cockpit art.189 (cockpit length 63 mm). Suitable to feel the water temperature in underfloor heating systems and to regulate at fixed value. Temperature locking and limiting device on a desired value. Both operations can be done without tools.




ART.	CONNECTION THREAD	CODE	PACKAGING	
				
995	30X1,5	82995AC20	1	10

Art. 189

Cockpit for thermostatic heads with remote sensor art. 994 and 995. 63 mm long.





ART.	SIZE	CODE	PACKAGING
			
189	1/2"	87189AD06	10

Art. 992

Thermostatic head with remote sensor. **Working temperature range 20°-70°C.** The sensor can be inserted in our cockpit art.212 (cockpit length 132 mm). Suitable to feel the water temperature in underfloor heating systems and to regulate at fixed value. Temperature locking and limiting device on a desired value. Both operations can be done without tools.





ART.	CONNECTION THREAD	CODE	PACKAGING	
				
992	30X1,5	82992AC20	1	10

Art. 997

Thermostatic head with remote sensor. **Working temperature range 60°-90°C.** The sensor can be inserted in our cockpit art. 212 (cockpit length 132 mm). Suitable to feel the water temperature in underfloor heating systems. Temperature locking and limiting device on a desired value. Both operations can be done without tools.




ART.	CONNECTION THREAD	CODE	PACKAGING	
				
997	30X1,5	82997AC20	1	10

Art. 212

Cockpit for thermostatic heads with remote sensor art. 991, 992 and 997. 132 mm long.



ART.	SIZE	CODE	PACKAGING
			
212	1/2"	87212AD05	10

C1) ZONE VALVES



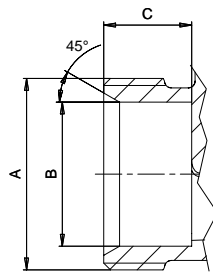
Art. 323

Three-way, mixing valve with thermostatic capillary remote sensor. It allows mixing two fluids, resulting in a fluid with intermediate temperature. **Setting range 20-50°C.** Max. working temperature 95°C, max. working pressure 10 bars, max. differential pressure 1 bar. **The probe also works when connected; for immersion use cockpit with sensor art. 212**

ART.	SIZE	CODE	PACKAGING
323	1/2"	82323AD05	1
323	3/4"	82323AE05	1
323	1"	82323AF05	1

Art. 370

2 way fan coil valve. Conical seat, max. working temperature 110°C.

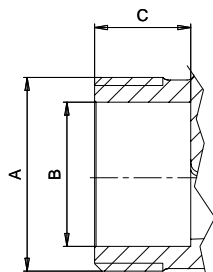


	A	B	C
G1/2"	G1/2"	14,5	11,5
G3/4"	G3/4"	20,5	13
G1"	G1"	26	13,5

ART.	SIZE	Kv (m³/h)	CODE	PACKAGING
370	1/2"	1,39	82370AD05	1
370	3/4"	2,23	82370AE05	1
370	1"	4,00	82370AF05	1

Art. 371

2 way fan coil valve. Flat seat, max. working temperature 110°C.



	A	B	C
G1/2"	G1/2"	13,8	11,5
G3/4"	G3/4"	19,5	13
G1"	G1"	24	13,5

ART.	SIZE	Kv (m³/h)	CODE	PACKAGING
371	1/2"	1,39	82371AD05	1
371	3/4"	2,23	82371AE05	1
371	1"	4,00	82371AF05	1

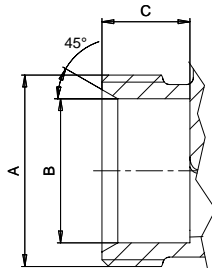
C1) ZONE VALVES



NEW

Art. 376

2 way fan coil valve. Conical seat, max. working temperature 110°C. Equipped with ON-OFF normally closed actuator art. 980.



	A	B	C
G1/2"	G1/2"	14,5	11,5
G3/4"	G3/4"	20,5	13
G1"	G1"	26	13,5

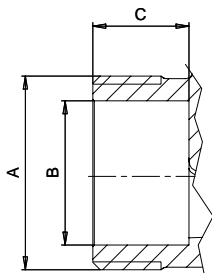
ART.	SIZE	Kv (m ³ /h)	CODE	PACKAGING
376	1/2"	1,39	82376ADNC53	1
376	3/4"	2,23	82376AENC53	1
376	1"	4,00	82376AFNC53	1



NEW

Art. 377

2 way fan coil valve. Flat seat, max. working temperature 110°C. Equipped with ON-OFF normally closed actuator art. 980.



	A	B	C
G1/2"	G1/2"	13,8	11,5
G3/4"	G3/4"	19,5	13
G1"	G1"	24	13,5

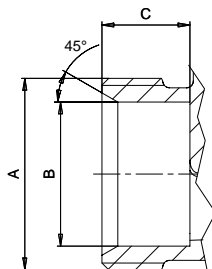
ART.	SIZE	Kv (m ³ /h)	CODE	PACKAGING
377	1/2"	1,39	82377ADNC53	1
377	3/4"	2,23	82377AENC53	1
377	1"	4,00	82377AFNC53	1



NEW

Art. 378

2 way fan coil valve. Conical seat, max. working temperature 110°C. Equipped with ON-OFF normally closed actuator art. 979.



	A	B	C
G1/2"	G1/2"	14,5	11,5
G3/4"	G3/4"	20,5	13
G1"	G1"	26	13,5

ART.	SIZE	Kv (m ³ /h)	CODE	PACKAGING
378	1/2"	1,39	82378ADNC53	1
378	3/4"	2,23	82378AENC53	1
378	1"	4,00	82378AFNC53	1

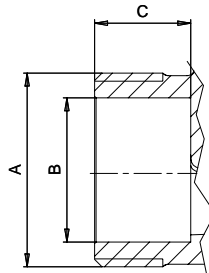
C1) ZONE VALVES



NEW

Art. 379

2 way fan coil valve. Flat seat, max. working temperature 110°C. Equipped with ON-OFF normally closed actuator art. 979.

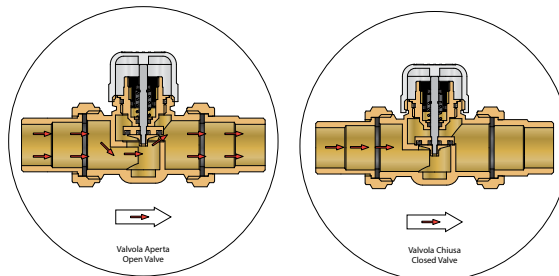


	A	B	C
G1/2"	G1/2"	13,8	11,5
G3/4"	G3/4"	19,5	13
G1"	G1"	24	13,5

ART.	SIZE	Kv (m ³ /h)	CODE	PACKAGING
379	1/2"	1,39	82379ADNC53	1
379	3/4"	2,23	82379AENC53	1
379	1"	4,00	82379AFNC53	1

Art. 300

Two-way, zone piston valve. For electrothermic actuators with 30x1,5 connection thread art. 978, 979, 980 and thermostatic heads with remote sensor 992, 995 and 997. **The valve enables limiting the flow.** Max. working pressure 10 bars. Max. differential pressure 1 bar. Max. working temperature 95°C.



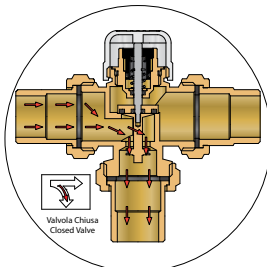
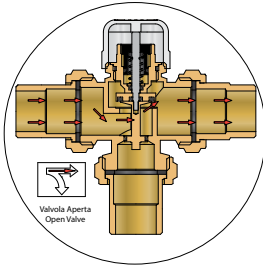
ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING
300	1/2	30X1,5	82300AD05	1
300	3/4	30X1,5	82300AE05	1
300	1"	30X1,5	82300AF05	1

C1) ZONE VALVES



Art. 301

Three-way, zone, diverting piston valve. For electrothermic actuators with 30x1,5 connection thread art. 978, 979, 980 and thermostatic heads with remote sensor 992, 995 and 997. **The valve enables limiting the flow rate on the straight way.** Max. working pressure 10 bars. Max. differential pressure 1 bar. Max. working temperature 95°C.

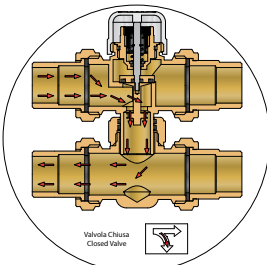
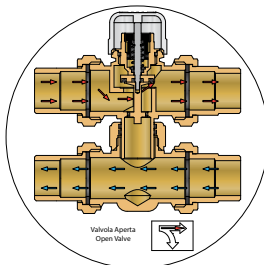


ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
301	1/2	30X1,5	82301AD05	1	
301	3/4	30X1,5	82301AE05	1	
301	1"	30X1,5	82301AF05	1	



Art. 302

Four-way, zone piston valve. For electrothermic actuators with 30x1,5 connection thread art. 978, 979, 980 and thermostatic heads with remote sensor 992, 995 and 997. **The valve enables limiting the flow rate on the straight way.** Max. working pressure 10 bars. Max. differential pressure 1 bar. Max. working temperature 95°C. Adjustable interaxe from 48 and 65 mm. Suitable for coplanar manifolds.

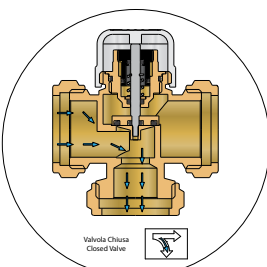
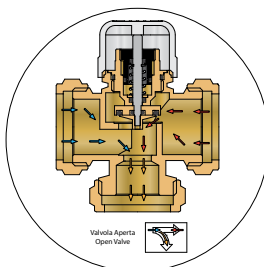


ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
302	1/2	30X1,5	82302AD05	1	
302	3/4	30X1,5	82302AE05	1	
302	1"	30X1,5	82302AF05	1	



Art. 305

Piston, mixing valve. For electrothermic actuators with 30x1,5 connection thread art. 978, 979, 980 and thermostatic heads with remote sensor 992, 995 and 997. **Flow rate control on the hot way, enabling the valve to work on bleeding mode.** Max. working pressure 10 bars. Max. differential pressure 1 bar. Max. working temperature 95°C. Connections for 22 mm copper pipe on the three sides.



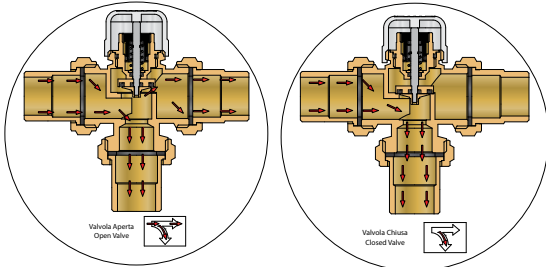
ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
305	22 mm	30X1,5	82305BJ05	1	

C1) ZONE VALVES



Art. 307

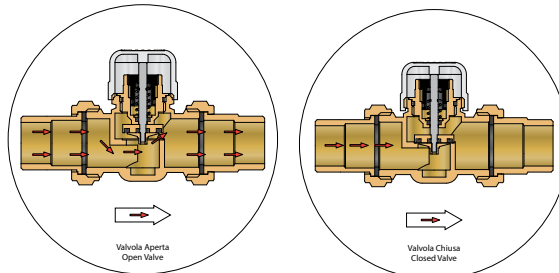
Piston, flow diverting valve; it feeds on bleeding mode a branched circuit on the straight way. For electrothermic actuators art. 978, 979, 980 and thermostatic heads with remote sensor 992, 995 and 997. **Flow rate control on the hot way, enabling the valve to work on bleeding mode.** Max. working pressure 10 bars. Max. differential pressure 1 bar. Max. working temperature 95°C.



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING
307	1/2	30X1,5	82307AD05	1
307	3/4	30X1,5	82307AE05	1
307	1"	30X1,5	82307AF05	1

Art. 320

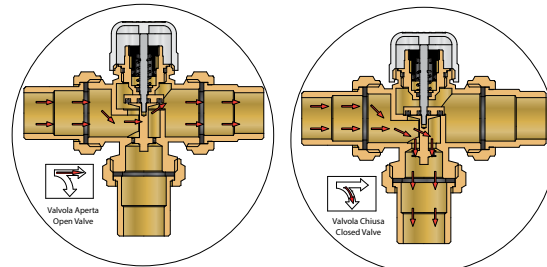
Two-way zone valve. **Normally closed electrothermic actuator with end microswitch for potential-free contact.** Max. working pressure 10 bar. Max. differential pressure 1 bar. Max. working temperature 95°C.



ART.	SIZE	VOLTAGE	CONNECTION THREAD	CODE	PACKAGING
320	1/2	230 volt	30X1,5	82320ADNC53	1
320	3/4	230 volt	30X1,5	82320AENC53	1
320	1"	230 volt	30X1,5	82320AFNC53	1

Art. 321

Three-way piston zone valve, **normally closed electrothermic actuator with end microswitch for potential-free contact.** Max. working pressure 10 bar. Max. differential pressure 1 bar. Max. working temperature 95°C.



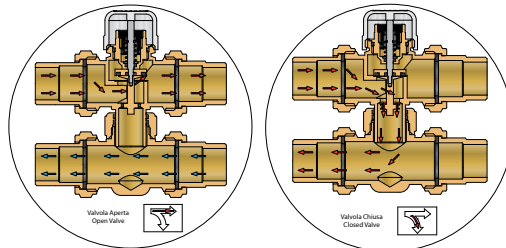
ART.	SIZE	VOLTAGE	CONNECTION THREAD	CODE	PACKAGING
321	1/2	230 volt	30X1,5	82321ADNC53	1
321	3/4	230 volt	30X1,5	82321AENC53	1
321	1"	230 volt	30X1,5	82321AFNC53	1

C1) ZONE VALVES



Art. 322

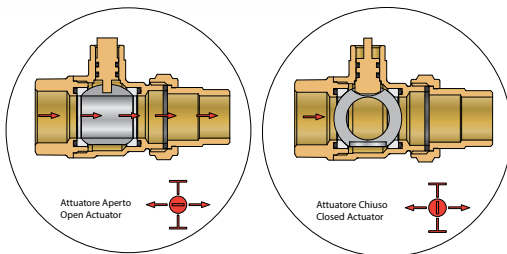
Three-way piston zone valve, **normally closed electrothermic actuator with end microswitch for potential-free contact**. Max. working pressure 10 bar. Max. differential pressure 1 bar. Max. working temperature 95°C. Adjustable interaxe from 48 mm to 65 mm. Suitable for coplanar manifolds.



ART.	SIZE	VOLTAGE	CONNECTION THREAD	CODE	PACKAGING
322	1/2	230 volt	30X1,5	82322ADNC53	1
322	3/4	230 volt	30X1,5	82322AENC53	1
322	1"	230 volt	30X1,5	82322AFNC53	1

Art. 331

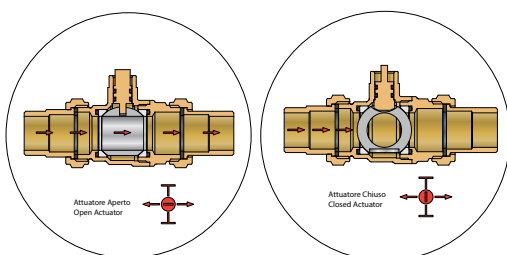
Male/female two-way full bore zone ball valve. It can be motor driven. Max. working pressure 16 bars. Max. differential pressure 10 bars. Max. working temperature 110°C.



ART.	SIZE	CODE	PACKAGING	
331	1/2	82331AD05	1	10
331	3/4	82331AE05	1	10
331	1"	82331AF05	1	10
331	1"1/4	82331AG05	1	5

Art. 332

Two-way full bore zone ball valve. It can be motor driven. Male thread unions. Max. working pressure 16 bars. Max. differential pressure 10 bars. Max. working temperature 110°C.

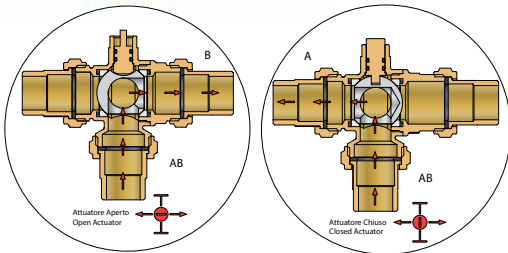


ART.	SIZE	CODE	PACKAGING	
332	1/2"	82332AD05	1	10
332	3/4"	82332AE05	1	10
332	1"	82332AF05	1	10
332	1"1/4	82332AG05	1	5

C1) ZONE VALVES

Art. 333

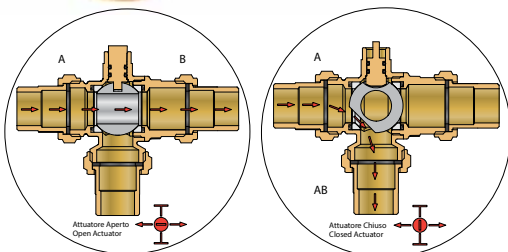
Three-way full bore diverting zone ball valve. It can be motor driven. Union connections. Max. working pressure 16 bars. Max. differential pressure 10 bars. Max. working temperature 110°C.



ART.	SIZE	CODE	PACKAGING	
333	1/2	82333AD05	1	10
333	3/4	82333AE05	1	10
333	1"	82333AF05	1	10
333	1"1/4	82333AG05	1	5

Art. 334

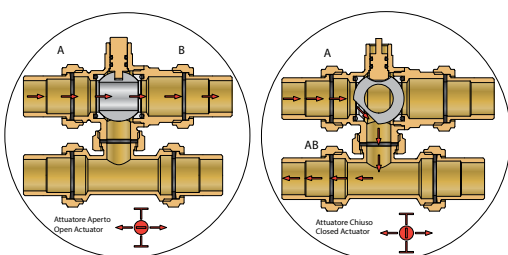
Three-way by-pass zone ball valve. It can be motor driven. Union connections. Max. working pressure 16 bars. Max. differential pressure 10 bars. Max. working temperature 110°C.



ART.	SIZE	CODE	PACKAGING	
334	1/2	82334AD05	1	10
334	3/4	82334AE05	1	10
334	1"	82334AF05	1	10
334	1"1/4	82334AG05	1	5

Art. 336

Four-way full bore zone ball valve. It can be motor driven. Union connections. Fixed interaxe 50 mm. By-pass variabile. Max. working pressure 16 bars. Max. differential pressure 10 bars. Max. working temperature 110°C.

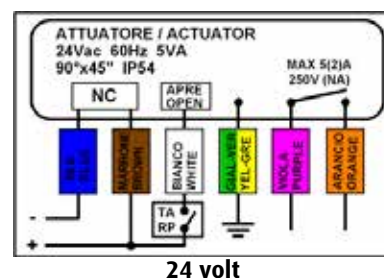
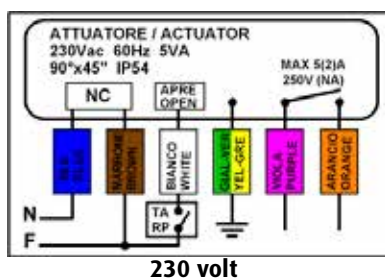


ART.	SIZE	CODE	PACKAGING	
336	3/4	82336AE05	1	
336	1"	82336AF05	1	

C1) ZONE VALVES

Art. 337

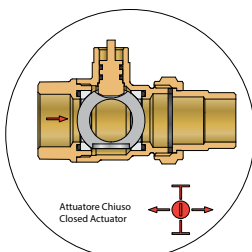
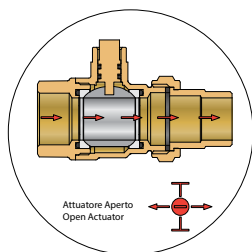
Servomotor for zone ball valves, normally closed, with relay and auxiliary microswitch. Max. ambient temperature 55°C, protection degree IP44, CE Mark Approved. Opening time 45 seconds.



ART.	VOLTAGE	CODE	PACKAGING	
337	230 volt	82337BI53	1	10
337	24 volt AC	82337BI54	1	10

Art. 341

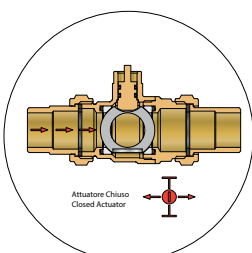
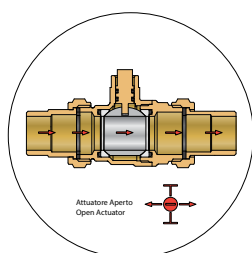
Male/female two-way full bore zone ball valve, with servomotor with relay and auxiliary microswitch for potential-free contact. Max. working pressure 16 bars. Max. differential pressure 10 bars. Max. working temperature 110°C.



ART.	SIZE	VOLTAGE	CODE	PACKAGING	
341	1/2	230 volt	82341AD0553	1	
341	3/4	230 volt	82341AE0553	1	
341	1"	230 volt	82341AF0553	1	
341	1"1/4	230 volt	82341AG0553	1	
341	1/2	24 volt AC	82341AD0554	1	
341	3/4	24 volt AC	82341AE0554	1	
341	1"	24 volt AC	82341AF0554	1	
341	1"1/4	24 volt AC	82341AG0554	1	

Art. 342

Two-way full bore zone ball valve with servomotor with relay and auxiliary microswitch for potential-free contact. Union connections. Max. working pressure 16 bars. Max. differential pressure 10 bars. Max. working temperature 110°C.



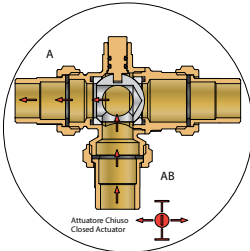
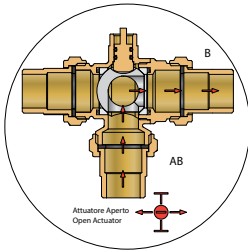
ART.	SIZE	VOLTAGE	CODE	PACKAGING	
342	1/2"	230 volt	82342AD0553	1	
342	3/4	230 volt	82342AE0553	1	
342	1"	230 volt	82342AF0553	1	
342	1"1/4	230 volt	82342AG0553	1	
342	1/2	24 volt AC	82342AD0554	1	
342	3/4	24 volt AC	82342AE0554	1	
342	1"	24 volt AC	82342AF0554	1	
342	1"1/4	24 volt AC	82342AG0554	1	

C1) ZONE VALVES



Art. 343

Three way full bore diverting zone ball valve, with servomotor with relay and auxiliary microswitch for potential-free contact. Union connections. Max. working pressure 16 bars. Max. differential pressure 10 bars. Max. working temperature 110°C.

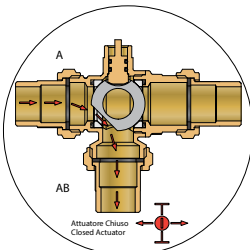
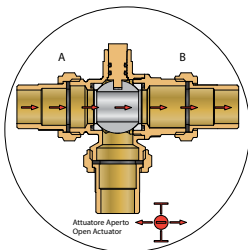


ART.	SIZE	VOLTAGE	CODE	PACKAGING	
343	1/2	230 volt	82343AD0553	1	
343	3/4	230 volt	82343AE0553	1	
343	1"	230 volt	82343AF0553	1	
343	1"1/4	230 volt	82343AG0553	1	
343	1/2	24 volt AC	82343AD0554	1	
343	3/4	24 volt AC	82343AE0554	1	
343	1"	24 volt AC	82343AF0554	1	
343	1"1/4	24 volt AC	82343AG0554	1	



Art. 344

Three-by-pass zone ball valve, with servomotor with relay and auxiliary microswitch for potential-free contact. Union connections. Max. working pressure 16 bars. Max. differential pressure 10 bars. Max. working temperature 110°C.

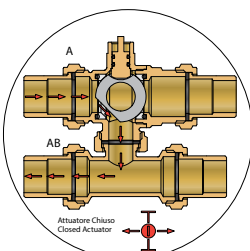
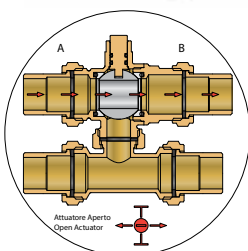


ART.	SIZE	VOLTAGE	CODE	PACKAGING	
344	1/2	230 volt	82344AD0553	1	
344	3/4	230 volt	82344AE0553	1	
344	1"	230 volt	82344AF0553	1	
344	1"1/4	230 volt	82344AG0553	1	
344	1/2	24 volt AC	82344AD0554	1	
344	3/4	24 volt AC	82344AE0554	1	
344	1"	24 volt AC	82344AF0554	1	
344	1"1/4	24 volt AC	82344AG0554	1	



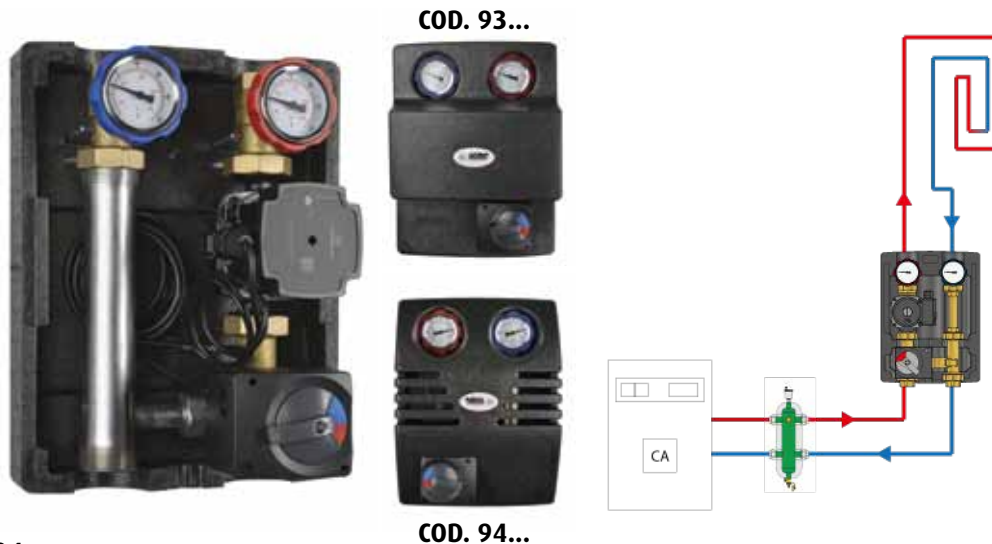
Art. 346

Four-way full bore zone ball valve, with servomotor with relay and auxiliary microswitch for potential-free contact. Union connections. Fixed interaxe 50 mm. Max. working pressure 16 bars. Max. differential pressure 10 bars. Max. working temperature 110°C.



ART.	SIZE	VOLTAGE	CODE	PACKAGING	
346	3/4	230 volt	82346AE0553	1	
346	1"	230 volt	82346AF0553	1	
346	3/4	24 volt AC	82346AE0554	1	
346	1"	24 volt AC	82346AF0554	1	

C2) PUMP GROUPS FOR MANIFOLDS AND CENTRAL HEATING SYSTEMS, WITHOUT REGULATION, WITH FIXED/VARIABLE POINT REGULATION



Art. R001

Mixing group with variable point regulating unit. It is provided with a three way mixing valve regulated by a 3-point modulating and bidirectional rotating electric servomotor, connectable to regulating control units; the valve has a By-Pass which brings a portion of the return side flow into the delivery side to obtain the desired temperature of the fluid. The pump has 1 1/2 connections and it can be electric (not for sale in the EU) or electronic. The mixing group is also equipped with 2 interception ball valves with built-in thermometer to instantly read the delivery and return flow temperatures (the return ball valve has a built-in check valve). It can be ordered **without pump, with delivery pump to the right or to the left-hand** (in case of any changes on site please follow the technical sheet instructions included in the package); the group is supplied with a black PPE insulated shell.

The mixing unit is supplied with the servomotor art. 787 (230 or 24 voltage).

The system side connections are 3/4" F, the boiler ones are 1 1/2" M.

PLEASE NOTE:

The bracket art. 788 is not included, please order separately.

• The product with UPS 25/65 pump is sold in non-EU countries that have not joined the EUP regulations.

* PWM signal cable not included. To be purchased separately (see page 201) when connecting to a PWM signal controller.

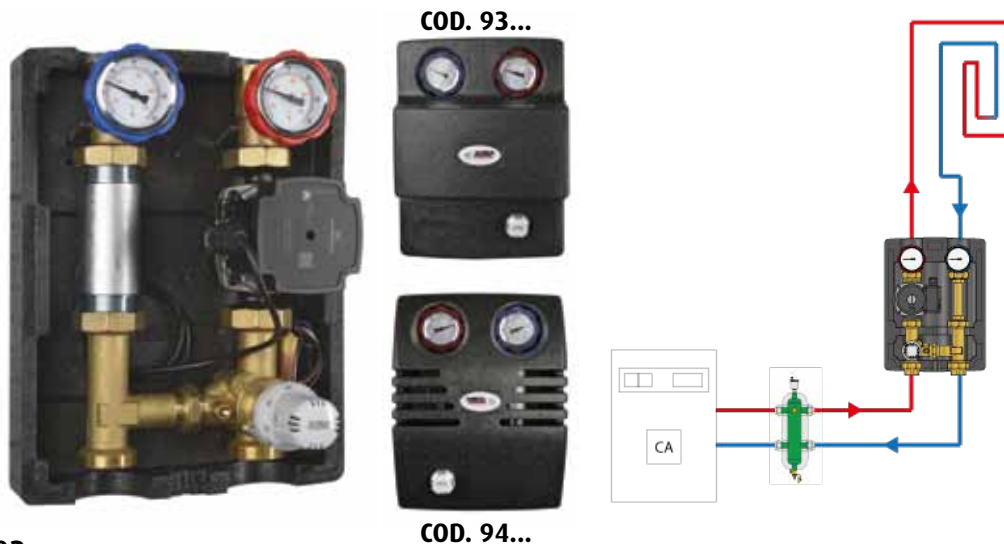
ART.	SIZE	ACTUATOR VOLTAGE	DELIVERY SIDE	BOILER CONNECT.	SYSTEM CONNECT.	CODE	PUMP	CIRCULATOR CONTROL SIGNAL		PWM SIGNAL CABLE	PACK.
								ON-OFF	PWM		
R001	DN20	230 volt	DX	1 1/2" M	3/4 F	93R001AED53	NO PUMP	√	X	X	1
R001	DN20	230 volt	SX	1 1/2" M	3/4 F	93R001AE553	NO PUMP	√	X	X	1
R001 •	DN20	230 volt	DX	1 1/2" M	3/4 F	93R001AEDP32153	Grundfos UPS 25/65	√	X	X	1
R001 •	DN20	230 volt	SX	1 1/2" M	3/4 F	93R001AESP32153	Grundfos UPS 25/65	√	X	X	1
R001	DN20	230 volt	DX	1 1/2" M	3/4 F	93R001AEDP32653	Grundfos UPS2 25/60	√	X	X	1
R001	DN20	230 volt	SX	1 1/2" M	3/4 F	93R001AESP32653	Grundfos UPS2 25/60	√	X	X	1
R001	DN20	230 volt	DX	1 1/2" M	3/4 F	93R001AEDP32753	Wilo Yonos Para RS 25/7,5	√	X	X	1
R001	DN20	230 volt	SX	1 1/2" M	3/4 F	93R001AESP32753	Wilo Yonos Para RS 25/7,5	√	X	X	1
R001	DN20	230 volt	DX	1 1/2" M	3/4 F	93R001AEDP32853	UPM3 Hybrid 25/70 *	√	√	NO INCL.	1
R001	DN20	230 volt	SX	1 1/2" M	3/4 F	93R001AESP32853	UPM3 Hybrid 25/70 *	√	√	NO INCL.	1
R001	DN20	230 volt	DX	1 1/2" M	3/4 F	93R001AEDP33053	Yonos Para RS 25/6 RKA	√	X	X	1
R001	DN20	230 volt	SX	1 1/2" M	3/4 F	93R001AESP33053	Yonos Para RS 25/6 RKA	√	X	X	1
R001	DN20	230 volt	DX	1 1/2" M	1" M	94R001AED53	NO PUMP	√	X	X	1
R001	DN20	230 volt	SX	1 1/2" M	1" M	94R001AE553	NO PUMP	√	X	X	1
R001 •	DN20	230 volt	DX	1 1/2" M	1" M	94R001AEDP32153	Grundfos UPS 25/65	√	X	X	1
R001 •	DN20	230 volt	SX	1 1/2" M	1" M	94R001AESP32153	Grundfos UPS 25/65	√	X	X	1
R001	DN20	230 volt	DX	1 1/2" M	1" M	94R001AEDP32653	Grundfos UPS2 25/60	√	X	X	1
R001	DN20	230 volt	SX	1 1/2" M	1" M	94R001AESP32653	Grundfos UPS2 25/60	√	X	X	1
R001	DN20	230 volt	DX	1 1/2" M	1" M	94R001AEDP32753	Wilo Yonos Para RS 25/7,5	√	X	X	1
R001	DN20	230 volt	SX	1 1/2" M	1" M	94R001AESP32753	Wilo Yonos Para RS 25/7,5	√	X	X	1
R001	DN20	230 volt	DX	1 1/2" M	1" M	94R001AEDP32853	UPM3 Hybrid 25/70 *	√	√	NO INCL.	1
R001	DN20	230 volt	SX	1 1/2" M	1" M	94R001AESP32853	UPM3 Hybrid 25/70 *	√	√	NO INCL.	1
R001	DN20	230 volt	DX	1 1/2" M	1" M	94R001AEDP33053	Yonos Para RS 25/6 RKA	√	X	X	1
R001	DN20	230 volt	SX	1 1/2" M	1" M	94R001AESP33053	Yonos Para RS 25/6 RKA	√	X	X	1

24 volt actuators are available upon request.

The article code will be modified in the last number of the code. Il prezzo di listino aumenta di € 12,00.

For example: the code 93R001AEDP32153 will be 93R001AEDP32154.

C2) PUMP GROUPS FOR MANIFOLDS AND CENTRAL HEATING SYSTEMS, WITHOUT REGULATION, WITH FIXED/VARIABLE POINT REGULATION



Art. R002

Mixing group with fixed point regulating unit. It is provided with a three way mixing valve regulated by a thermostatic head with remote sensor art. 995 to be placed in contact with or by immersion in the system delivery pipe according to which the desired temperature is set (working temperature range 20°C - 50°C). The valve has a by-pass which brings a portion of the return side flow into the delivery side to obtain the desired temperature of the fluid. The pump has 1"1/2 connections and it can be electric (not for sale in the EU) or electronic. The mixing group is also equipped with 2 interception ball valves with built-in thermometer to instantly read the delivery and return flow temperatures (the return ball valve has a built-in check valve). It can be ordered **without pump, with delivery pump to the right or to the left-hand** (in case of any changes on site please follow the technical sheet instructions included in the package); the group is supplied with a black PPE insulated shell. The mixing unit is supplied with the thermostatic head art. 995 with 30x1,5 connections. The system side connections are 3/4" F, the boiler ones are 1"1/2 M.

PLEASE NOTE:

The bracket art. 788 is not included, please order separately.

- The product with UPS 25/65 pump is sold in non-EU countries that have not joined the EUP regulations.
- * PWM signal cable not included. To be purchased separately (see page 201) when connecting to a PWM signal controller.

ART.	SIZE	DELIVERY SIDE	BOILER CONNECT.	SYSTEM CONNECT.	CODE	PUMP	CIRCULATOR CONTROL SIGNAL		PWM SIGNAL CABLE	PACK.
							ON-OFF	PWM		
R002	DN20	DX	1"1/2 M	3/4 F	93R002AED05	NO PUMP	√	X	X	1
R002	DN20	SX	1"1/2 M	3/4 F	93R002AES05	NO PUMP	√	X	X	1
R002 •	DN20	DX	1"1/2 M	3/4 F	93R002AEDP321	Grundfos UPS 25/65	√	X	X	1
R002 •	DN20	SX	1"1/2 M	3/4 F	93R002AESP321	Grundfos UPS 25/65	√	X	X	1
R002	DN20	DX	1"1/2 M	3/4 F	93R002AEDP326	Grundfos UPS2 25/60	√	X	X	1
R002	DN20	SX	1"1/2 M	3/4 F	93R002AESP326	Grundfos UPS2 25/60	√	X	X	1
R002	DN20	DX	1"1/2 M	3/4 F	93R002AEDP327	Wilo Yonos Para RS 25/7,5	√	X	X	1
R002	DN20	SX	1"1/2 M	3/4 F	93R002AESP327	Wilo Yonos Para RS 25/7,5	√	X	X	1
R002	DN20	DX	1"1/2 M	3/4 F	93R002AEDP328	UPM3 Hybrid 25/70 *	√	√	NO INCL.	1
R002	DN20	SX	1"1/2 M	3/4 F	93R002AESP328	UPM3 Hybrid 25/70 *	√	√	NO INCL.	1
R002	DN20	DX	1"1/2 M	3/4 F	93R002AEDP330	Yonos Para RS 25/6 RKA	√	X	X	1
R002	DN20	SX	1"1/2 M	3/4 F	93R002AESP330	Yonos Para RS 25/6 RKA	√	X	X	1
R002	DN20	DX	1"1/2 M	1" M	94R002AED05	NO PUMP	√	X	X	1
R002	DN20	SX	1"1/2 M	1" M	94R002AES05	NO PUMP	√	X	X	1
R002 •	DN20	DX	1"1/2 M	1" M	94R002AEDP321	Grundfos UPS 25/65	√	X	X	1
R002 •	DN20	SX	1"1/2 M	1" M	94R002AESP321	Grundfos UPS 25/65	√	X	X	1
R002	DN20	DX	1"1/2 M	1" M	94R002AEDP326	Grundfos UPS2 25/60	√	X	X	1
R002	DN20	SX	1"1/2 M	1" M	94R002AESP326	Grundfos UPS2 25/60	√	X	X	1
R002	DN20	DX	1"1/2 M	1" M	94R002AEDP327	Wilo Yonos Para RS 25/7,5	√	X	X	1
R002	DN20	SX	1"1/2 M	1" M	94R002AESP327	Wilo Yonos Para RS 25/7,5	√	X	X	1
R002	DN20	DX	1"1/2 M	1" M	94R002AEDP328	UPM3 Hybrid 25/70 *	√	√	NO INCL.	1
R002	DN20	SX	1"1/2 M	1" M	94R002AESP328	UPM3 Hybrid 25/70 *	√	√	NO INCL.	1
R002	DN20	DX	1"1/2 M	1" M	94R002AEDP330	Yonos Para RS 25/6 RKA	√	X	X	1
R002	DN20	SX	1"1/2 M	1" M	94R002AESP330	Yonos Para RS 25/6 RKA	√	X	X	1

C2) PUMP GROUPS FOR MANIFOLDS AND CENTRAL HEATING SYSTEMS, WITHOUT REGULATION, WITH FIXED/VARIABLE POINT REGULATION



Art. R003

Mixing group for high/low direct temperature unit, suitable for radiators systems, fan coils, design radiators, radiation heating and boilers. The pump has 1"1/2 connections and it can be electric (not for sale in the EU) or electronic. The mixing group is also equipped with 2 interception ball valves with built-in thermometer to instantly read the delivery and return flow temperatures (the return ball valve has a built-in check valve). It can be ordered **without pump or with delivery pump to the right; the pump can be easily moved to the left**. The group is supplied with a black PPE insulated shell. The system side connections are 3/4" F, the boiler ones are 1"1/2 M.

PLEASE NOTE:

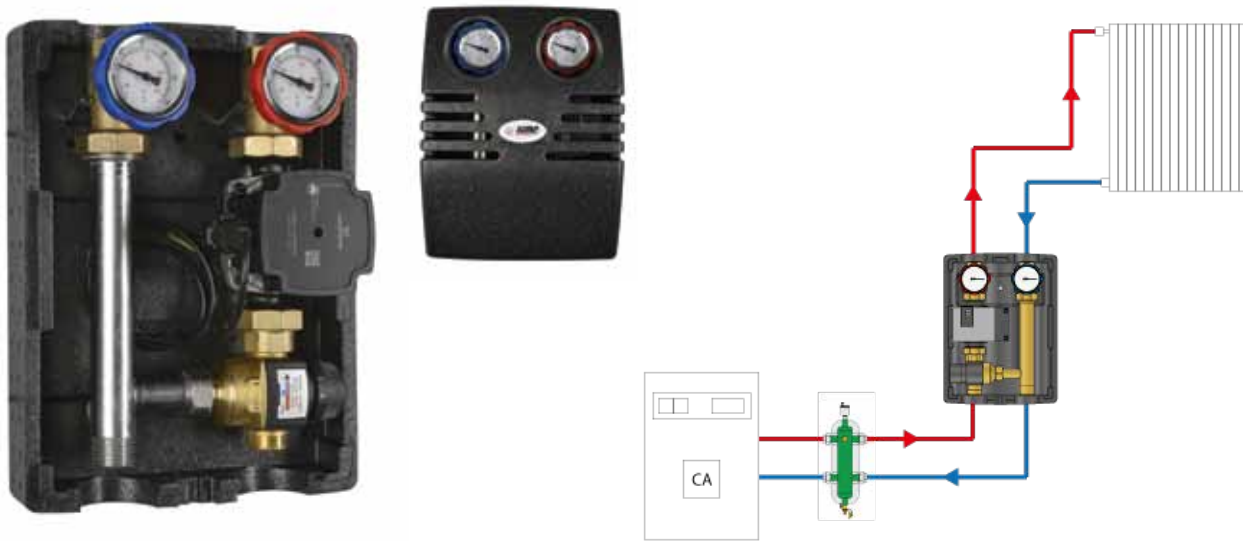
The bracket art. 788 is not included, please order separately.

- The product with UPS 25/65 pump is sold in non-EU countries that have not joined the EUP regulations.
- * PWM signal cable not included. To be purchased separately (see page 201) when connecting to a PWM signal controller.



ART.	SIZE	DELIVERY SIDE	BOILER CONNECT.	SYSTEM CONNECT.	CODE	PUMP	CIRCULATOR CONTROL SIGNAL		PWM SIGNAL CABLE	PACK.
							ON-OFF	PWM		
R003	DN20	DX	1"1/2 M	3/4 F	93R003AED05	NO PUMP	√	X	X	1
R003 •	DN20	DX	1"1/2 M	3/4 F	93R003AEDP321	Grundfos UPS 25/65	√	X	X	1
R003	DN20	DX	1"1/2 M	3/4 F	93R003AEDP326	Grundfos UPS2 25/60	√	X	X	1
R003	DN20	DX	1"1/2 M	3/4 F	93R003AEDP327	Wilos Yonos Para RS 25/7,5	√	X	X	1
R003	DN20	DX	1"1/2 M	3/4 F	93R003AEDP328	UPM3 Hybrid 25/70 *	√	√	NO INCL.	1
R003	DN20	DX	1"1/2 M	3/4 F	93R003AEDP330	Yonos Para RS 25/6 RKA	√	X	X	1
R003	DN20	DX	1"1/2 M	1" M	94R003AED05	NO PUMP	√	X	X	1
R003 •	DN20	DX	1"1/2 M	1" M	94R003AEDP321	Grundfos UPS 25/65	√	X	X	1
R003	DN20	DX	1"1/2 M	1" M	94R003AEDP326	Grundfos UPS2 25/60	√	X	X	1
R003	DN20	DX	1"1/2 M	1" M	94R003AEDP327	Wilos Yonos Para RS 25/7,5	√	X	X	1
R003	DN20	DX	1"1/2 M	1" M	94R003AEDP328	UPM3 Hybrid 25/70 *	√	√	NO INCL.	1
R003	DN20	DX	1"1/2 M	1" M	94R003AEDP330	Yonos Para RS 25/6 RKA	√	X	X	1

C2) PUMP GROUPS FOR MANIFOLDS AND CENTRAL HEATING SYSTEMS, WITHOUT REGULATION, WITH FIXED/VARIABLE POINT REGULATION



Art. R004

Mixing group with fixed point regulating unit, equipped with thermostatic mixing valve. By setting the working temperature on the mixing valve, you get an effective control of the plant delivery temperature when it is different from the heat generator one. Two thermostatic valves are available with different working temperature. The pump has 1 1/2" connections and it can be electric (not for sale in the EU) or electronic. The mixing group is also equipped with 2 interception ball valves with built-in thermometer to instantly read the delivery and return flow temperatures (the return ball valve has a built-in check valve). It can be ordered **without pump, with delivery pump to the right or to the left-hand** (in case of any changes on site please follow the technical sheet instructions included in the package); the group is supplied with a black PPE insulated shell. The system side connections are 1" M, the boiler ones are 1" M. When placing the order please specify the requested temperature (between 20-55 °C or 30-70 °C), by filling in the dotted line (between the pump position and the pump code) with the number corresponding to the temperature. For example, if you order R004 DX with circulator P328 and temperature 20 ° -55 ° C, the code will be: 94R004AED55P328 (in case of temperature 30-70 ° C please fill in the dotted line with 70).

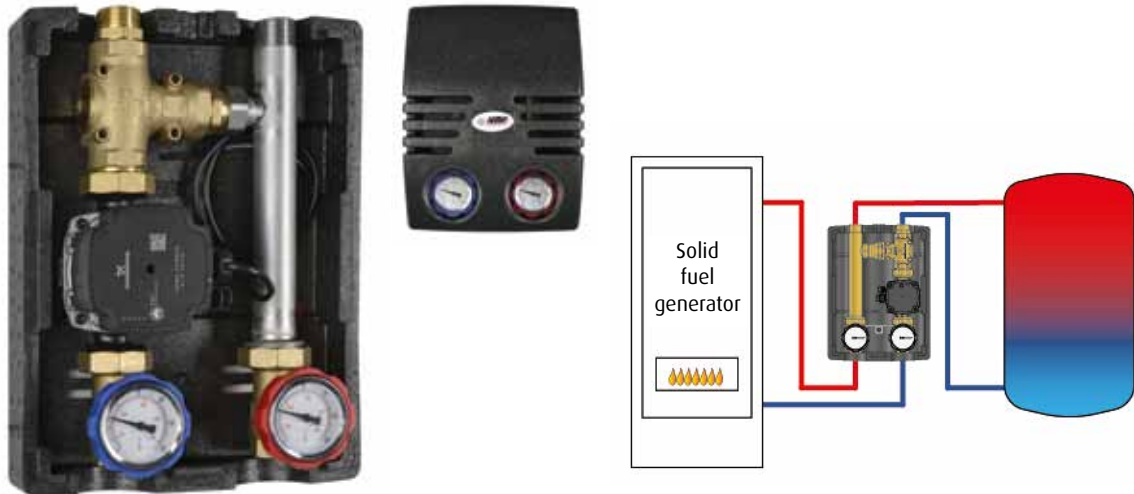
PLEASE NOTE:

The bracket art. 788 is not included, please order separately.

- The product with UPS 25/65 pump is sold in non-EU countries that have not joined the EUP regulations.
- * PWM signal cable not included. To be purchased separately (see page 201) when connecting to a PWM signal controller.

ART.	SIZE	DELIVERY SIDE	BOILER CONNECT.	SYSTEM CONNECT.	CODE	PUMP	CIRCULATOR CONTROL SIGNAL		PWM SIGNAL CABLE	PACK.
							ON-OFF	PWM		
R004	DN20	DX	1" M	1" M	94R004AED..05	NO PUMP	√	X	X	1
R004	DN20	SX	1" M	1" M	94R004AES..05	NO PUMP	√	X	X	1
R004 •	DN20	DX	1" M	1" M	94R004AED..P321	Grundfos UPS 25/65	√	X	X	1
R004 •	DN20	SX	1" M	1" M	94R004AES..P321	Grundfos UPS 25/65	√	X	X	1
R004	DN20	DX	1" M	1" M	94R004AED..P326	Grundfos UPS2 25/60	√	X	X	1
R004	DN20	SX	1" M	1" M	94R004AES..P326	Grundfos UPS2 25/60	√	X	X	1
R004	DN20	DX	1" M	1" M	94R004AED..P327	Wilo Yonos Para RS 25/7,5	√	X	X	1
R004	DN20	SX	1" M	1" M	94R004AES..P327	Wilo Yonos Para RS 25/7,5	√	X	X	1
R004	DN20	DX	1" M	1" M	94R004AED..P328	UPM3 Hybrid 25/70 *	√	√	NO INCL.	1
R004	DN20	SX	1" M	1" M	94R004AES..P328	UPM3 Hybrid 25/70 *	√	√	NO INCL.	1
R004	DN20	DX	1" M	1" M	94R004AED..P330	Yonos Para RS 25/6 RKA	√	X	X	1
R004	DN20	SX	1" M	1" M	94R004AES..P330	Yonos Para RS 25/6 RKA	√	X	X	1

C2) PUMP GROUPS FOR MANIFOLDS AND CENTRAL HEATING SYSTEMS, WITHOUT REGULATION, WITH FIXED/VARIABLE POINT REGULATION



Art. R005

Anti-condensation mixing group, 1" male connections. It is equipped with 2 interception ball valves with built-in thermometer to instantly read the delivery and return flow temperatures. It can be ordered without pump, with asynchronous pump (not for sale in the EU), with electronic pump to the right or to the left-hand. The group includes an anti-condensation valve, 1", available settings: 45 °, 55 °, 60 °, 70 °. When placing the order please specify the requested temperature (between 20-55 °C or 30-70 °C), by filling in the dotted line (between the pump position and the pump code) with the number corresponding to the temperature. For example, if you order R005 DX with circulator P328 and 55 ° anti-condensation, the code will be: 94R005AED55P328.

- The product with UPS 25/65 pump is sold in non-EU countries that have not joined the EUP regulations.
- * PWM signal cable not included. To be purchased separately (see page 201) when connecting to a PWM signal controller.

ART.	SIZE	DELIVERY SIDE	BOILER CONNECT.	SYSTEM CONNECT.	CODE	PUMP	CIRCULATOR CONTROL SIGNAL		PWM SIGNAL CABLE	PACK.
							ON-OFF	PWM		
R005	DN20	DX	1" M	1" M	94R005AED..05	NO PUMP	√	X	X	1
R005	DN20	SX	1" M	1" M	94R005AES..05	NO PUMP	√	X	X	1
R005 •	DN20	DX	1" M	1" M	94R005AED..P321	Grundfos UPS 25/65	√	X	X	1
R005 •	DN20	SX	1" M	1" M	94R005AES..P321	Grundfos UPS 25/65	√	X	X	1
R005	DN20	DX	1" M	1" M	94R005AED..P326	Grundfos UPS2 25/60	√	X	X	1
R005	DN20	SX	1" M	1" M	94R005AES..P326	Grundfos UPS2 25/60	√	X	X	1
R005	DN20	DX	1" M	1" M	94R005AED..P327	Wilo Yonos Para RS 25/7,5	√	X	X	1
R005	DN20	SX	1" M	1" M	94R005AES..P327	Wilo Yonos Para RS 25/7,5	√	X	X	1
R005	DN20	DX	1" M	1" M	94R005AED..P328	UPM3 Hybrid 25/70 *	√	√	NO INCL.	1
R005	DN20	SX	1" M	1" M	94R005AES..P328	UPM3 Hybrid 25/70 *	√	√	NO INCL.	1
R005	DN20	DX	1" M	1" M	94R005AED..P330	Yonos Para RS 25/6 RKA	√	X	X	1
R005	DN20	SX	1" M	1" M	94R005AES..P330	Yonos Para RS 25/6 RKA	√	X	X	1

C2) PUMP GROUPS FOR MANIFOLDS AND CENTRAL HEATING SYSTEMS, WITHOUT REGULATION, WITH FIXED/VARIABLE POINT REGULATION

Art. 781

Tee fitting for connecting the mixing unit components to manage the flow return to the system.



ART.	SIZE	BOILER CONNECT.	SYSTEM CONNECT.	CODE	PACK.
781	1"	1"1/2 M	1"1/2 F	93781AE05	1

Art. 782

Mixing group with variable point regulation unit. It is provided with a three way mixing valve regulated by a rotating electric servomotor, connectable to every type of regulating control units. The valve has a By-Pass which brings a portion of the return side flow into the delivery side to recover heat and to balance the temperature.

PLEASE NOTE: the servomotor art. 787 is not included.



ART.	SIZE	DELIVERY SIDE	BOILER CONNECT.	SYSTEM CONNECT.	CODE	PACK.
782	DN20	DX	1"1/2 M	1"1/2 F	93782AED05	1
782	DN20	SX	1"1/2 M	1"1/2 F	93782AES05	1

Art. 783

Mixing group with fixed point regulating unit. It is provided with a three way mixing valve regulated by a thermostatic head with remote sensor art. 995 according to which the desired mixed temperature in the delivery side is set (working temperature range 20°C - 50°C). The valve has a By-Pass which brings a portion of the return side flow into the delivery side to obtain the desired temperature of the fluid.

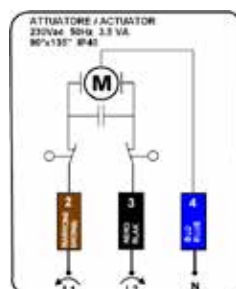
PLEASE NOTE: the thermostatic head art. 995 is not included.



ART.	SIZE	DELIVERY SIDE	BOILER CONNECT.	SYSTEM CONNECT.	CODE	PACK.
783	DN20	DX	1"1/2 M	1"1/2 F	93783AED05	1
783	DN20	SX	1"1/2 M	1"1/2 F	93783AES05	1

Art. 787

3-point rotating electric servomotor (modulating and bidirectional). It is installed on the mixing valve by means of a screw. Rotation angle 90°. The servomotor can also work manually by means of its switch. For the proper functioning and connection please refer to the instructions in the technical sheet.



ART.	VOLTAGE	CODE	PACKAGING
787	230 volt	82787BI53	1
787	24 volt AC	82787BI54	1

C2) PUMP GROUPS FOR MANIFOLDS AND CENTRAL HEATING SYSTEMS, WITHOUT REGULATION, WITH FIXED/VARIABLE POINT REGULATION



Art. 785

Modular manifolds with double chamber all in brass and equipped with shells in black Epp. The packaging includes nuts, screws and gaskets to connect more manifolds to each other or to connect caps to the manifolds.

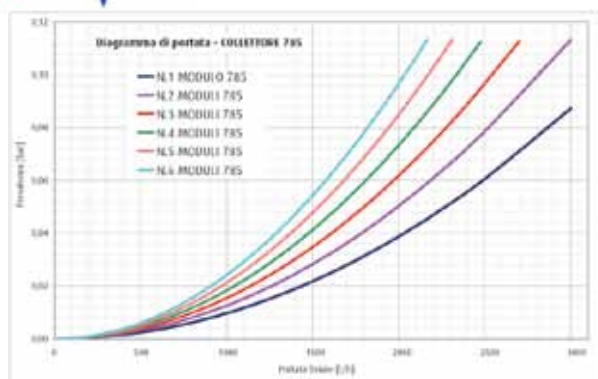
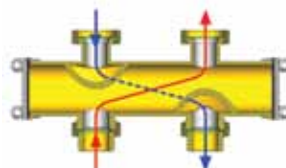
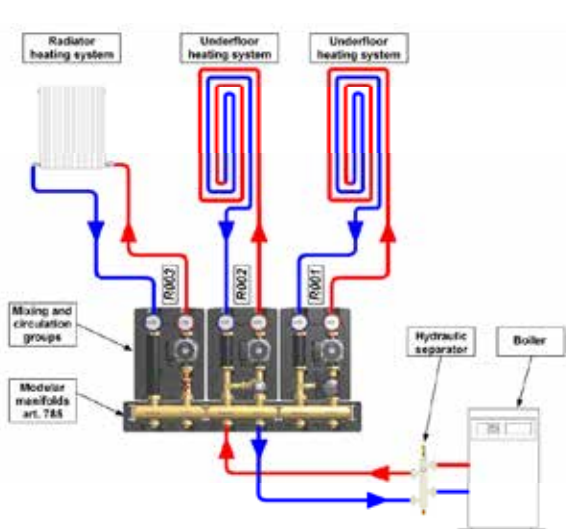
PLEASE NOTE: the thermostatic head art. 790 and the bracket art. 788 in not included.

How to order:

- N. 1 single manifold: n. 1 art. 785 + n. 2 art. 790
- N. 2 serial manifolds: n.2 art. 785 + n.2 art. 790 + n.2 art. 173
- N. 3 serial manifolds: n.3 art. 785 + n.2 art. 790 + n.4 art. 173
- N. 4 serial manifolds: n.4 art. 785 + n.2 art. 790 + n.6 art. 173
- N. 5 serial manifolds: n.5 art. 785 + n.2 art. 790 + n.8 art. 173
- N. 6 serial manifolds: n.6 art. 785 + n.2 art. 790 + n.10 art. 173

PLEASE NOTE: In case of reduction for the connection to the boiler please use art. 789.

ART.	BOILER CONNECT.	SYSTEM CONNECT.	CODE	PACKAGING
785	1" F - 1"1/2 M	1"1/2 F	87785AF05	1



Art. 788

Wall mounting kit for circulation pump groups R001-R002-R003 consisting of 1 support bracket with screws and 2 springs.



ART.	CODE	PACKAGING
788	82788AE05	1

C2) PUMP GROUPS FOR MANIFOLDS AND CENTRAL HEATING SYSTEMS, WITHOUT REGULATION, WITH FIXED/VARIABLE POINT REGULATION

Art. 790

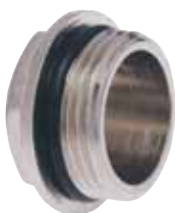
Cap for manifold head art. 785.



ART.	CODE	PACKAGING	
790	87790AF05	1	

Art. 173

Plug with o-ring seat for boiler side outlet.



ART.	SIZE	CODE	PACKAGING	
173	1"	87173AF05	1	

Art. 789

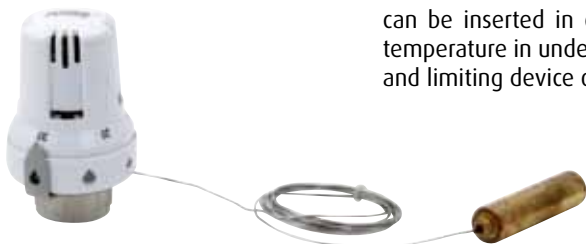
1"1/2 plane seat union with nut and gasket. It reduces from 1"1/2 to 3/4" F or from 1"1/2 to 1" F the lower connection of art. R001, R002, R003 and 785.



ART.	SIZE	CODE	PACKAGING	
789	1/2" F - 1" F	82789AD05	1	
789	3/4" F - 1"1/2 F	82789AE05	1	
789	1" F - 1"1/2 F	82789AF05	1	

Art. 995

Thermostatic head with remote sensor. **Working temperature range 20°-50°C.** The sensor can be inserted in our cockpit art.189 (cockpit length 63 mm). Suitable to feel the water temperature in underfloor heating systems and to regulate at fixed value. Temperature locking and limiting device on a desired value. Both operations can be done without tools.



ART.	CONNECTION THREAD	CODE	PACKAGING	
995	30X1,5	82995AC20	1 40	

Art. 784

Housing kit for bulb art. 995



ART.	SIZE	CODE	PACKAGING	
784	3/4"	87784AE05	1	

C2) PUMP GROUPS FOR MANIFOLDS AND CENTRAL HEATING SYSTEMS, WITHOUT REGULATION, WITH FIXED/VARIABLE POINT REGULATION



Art. M055

Mixing group with fixed point regulating unit, circulating pump 25/40 or 25/60, safety thermostat art. P310, max. pressure valve and thermostatic head 20-50°C with remote sensor. Fixed point valve with adjustable flow rate to optimise the flow to the panels. **Side delivery/return of the system. Suitable for installations in 110 mm deep manifold boxes.**

- The product with UPS 25/65 pump is sold in non-EU countries that have not joined the EUP regulations.
- * **PWM signal cable not included. To be purchased separately (see page 201) when connected to a controller with PWM signal.**



ART.	SIZE	CODE	PUMP	PACKAGING
M055 •	1"	87M055PG0640	Grundfos UPS 25/40	1
M055 •	1"	87M055PG0660	Grundfos UPS 25/65	1
M055 •	1"	87M055PGP320W	Wilco RS25/4	1
M055 •	1"	87M055PGP321W	Wilco RS25/6	1
M055	1"	87M055PGP326	Grundfos UPS2 25/60	1
M055	1"	87M055PGP328	UPM3 Hybrid 25/70 *	1



Art. M058

Mixing group with fixed point regulating unit, circulating pump and thermostatic head 20°-50°C with remote sensor. Fixed point valve, adjustable flow rate optimising the flow to the panels. **Boiler delivery on left lower side, return on lower side. 1" delivery/return for radiant panel systems. Safety thermostat P310 not included.**

- The product with UPS 25/65 pump is sold in non-EU countries that have not joined the EUP regulations.
- * **PWM signal cable not included. To be purchased separately (see page 201) when connected to a controller with PWM signal.**



ART.	SIZE	CODE	PUMP	PACKAGING
M058 •	1"	87M058PG0665	Grundfos UPS 25/65	1
M058	1"	87M058PGP326	Grundfos UPS2 25/60	1
M058	1"	87M058PGP328	UPM3 Hybrid 25/70 *	1



Art. M059

Mixing group with fixed point regulating unit, circulating pump and thermostatic head 20°-50°C with remote sensor. Fixed point valve, adjustable flow rate optimising the flow to the panels. **Boiler delivery on left lower side, return on lower side. 1" delivery/return for radiant panel systems. Safety thermostat P310 not included.**

- The product with UPS 25/65 pump is sold in non-EU countries that have not joined the EUP regulations.
- * **PWM signal cable not included. To be purchased separately (see page 201) when connected to a controller with PWM signal.**



ART.	SIZE	CODE	PUMP	PACKAGING
M059 •	1"	87M059PG0665	Grundfos UPS 25/65	1
M059	1"	87M059PGP326	Grundfos UPS2 25/60	1
M059	1"	87M059PGP328	UPM3 Hybrid 25/70 *	1

C2) PUMP GROUPS FOR MANIFOLDS AND CENTRAL HEATING SYSTEMS, WITHOUT REGULATION, WITH FIXED/VARIABLE POINT REGULATION

Art. K062

Delivery pump group. 25/40 pump, safety thermostat art. P310, 1" connections, thermometer and automatic air vent. It can be installed either on the left or on the right side of the manifold.

- The product with UPS 25/40 and 25/65 pump is sold in non-EU countries that have not joined the EUP regulations.

- * PWM signal cable not included. To be purchased separately (see page 201) when connected to a controller with PWM signal.



ART.	SIZE	VOLTAGE	CODE	PUMP	PACKAGING
K062 •	1"	230 volt	87K062PG0640	Grundfos UPS 25/40	1
K062 •	1"	230 volt	87K062PG0660	Grundfos UPS 25/65	1
K062	1"	230 volt	87K062PGP326	Grundfos UPS2 25/60	1
K062	1"	230 volt	87K062PGP328	UPM3 Hybrid 25/70 *	1

Art. K063

Fixed point temperature regulating group. Max. pressure valve and flowmeter. Thermostatic head 20-50°C with remote sensor and cockpit art.189 with 1/2" connection.



ART.	SIZE	CODE	PACKAGING
K063	1"	87K063PG06	1

Art. P310

Safety thermostat. Suitable for underfloor systems with high temperature boiler supply. It stops the pump when reaching 50°C.



ART.	SIZE	VOLTAGE	CODE	PACKAGING
P310	1/2	230 volt	88P3100199	1

C3) FIXED POINT REGULATION MANIFOLDS FOR UNDERFLOOR HEATING SYSTEMS LOW AND HIGH TEMPERATURE - WITH BUILT-IN MIXING GROUP

FLOWMETER ICMA



FLOWMETER VALVE OPENING / CLOSING

Its high quality components make it an easy to use, durable and reliable device of flow measuring.

Fully closed



Fully open



FLOW RATES

All highly precise range of measurements.



1 L/min



2 L/min



3 L/min



4 L/min

C3) FIXED POINT REGULATION MANIFOLDS FOR UNDERFLOOR HEATING SYSTEMS LOW AND HIGH TEMPERATURE - WITH BUILT-IN MIXING GROUP

Art. K054 - Art. K056 - Art. K058

Pre-assembled group with box. For radiant panel systems with low temperature circuits and for radiators with high temperature circuits, high temperature supply, **fixed point mixing unit**. It is supplied with pump P328 (Grundfos UPM3 Hybrid) and safety thermostat P310 installed in the box. **Choose electrothermic actuators with 28x1,5 connection thread.**



ART.	HEAD CONNECT.	LOW TEMP. OUTLETS	HIGH TEMP. OUTLETS	CODE EUROCONUS	PACK.	BOX PROVIDED ART. 197
K054	1"	2	1	87K054PG06	1	600 mm
K054	1"	3	1	87K054PH06	1	700 mm
K054	1"	4	1	87K054PJ06	1	700 mm
K054	1"	5	1	87K054PQ06	1	850 mm
K054	1"	6	1	87K054PK06	1	850 mm
K054	1"	7	1	87K054PR06	1	850 mm
K054	1"	8	1	87K054PL06	1	1000 mm
K054	1"	9	1	87K054PS06	1	1000 mm
K054	1"	10	1	87K054PM06	1	1000 mm
K054	1"	11	1	87K054PT06	1	1200 mm
K054	1"	12	1	87K054PU06	1	1200 mm
K056	1"	2	2	87K056PG06	1	700 mm
K056	1"	3	2	87K056PH06	1	700 mm
K056	1"	4	2	87K056PJ06	1	850 mm
K056	1"	5	2	87K056PQ06	1	850 mm
K056	1"	6	2	87K056PK06	1	850 mm
K056	1"	7	2	87K056PR06	1	1000 mm
K056	1"	8	2	87K056PL06	1	1000 mm
K056	1"	9	2	87K056PS06	1	1000 mm
K056	1"	10	2	87K056PM06	1	1200 mm
K056	1"	11	2	87K056PT06	1	1200 mm
K056	1"	12	2	87K056PU06	1	1200 mm
K058	1"	2	3	87K058PG06	1	700 mm
K058	1"	3	3	87K058PH06	1	850 mm
K058	1"	4	3	87K058PJ06	1	850 mm
K058	1"	5	3	87K058PQ06	1	850 mm
K058	1"	6	3	87K058PK06	1	1000 mm
K058	1"	7	3	87K058PR06	1	1000 mm
K058	1"	8	3	87K058PL06	1	1000 mm
K058	1"	9	3	87K058PS06	1	1200 mm
K058	1"	10	3	87K058PM06	1	1200 mm
K058	1"	11	3	87K058PT06	1	1200 mm
K058	1"	12	3	87K058PU06	1	1200 mm

Art. K060

Pre-assembled group with box. For radiant panel systems with low temperature circuits, high temperature supply, **fixed point mixing unit**. It is supplied with pump P328 (Grundfos UPM3 Hybrid) and safety thermostat P310 installed in the box. **Choose electrothermic actuators with 28x1,5 connection thread.**



ART.	HEAD CONNECT.	LOW TEMP. OUTLETS	CODE EUROCONUS	PACK.	BOX PROVIDED ART. 197
K060	1"	2	87K060PG06	1	600 mm
K060	1"	3	87K060PH06	1	600 mm
K060	1"	4	87K060PJ06	1	700 mm
K060	1"	5	87K060PQ06	1	700 mm
K060	1"	6	87K060PK06	1	850 mm
K060	1"	7	87K060PR06	1	850 mm
K060	1"	8	87K060PL06	1	850 mm
K060	1"	9	87K060PS06	1	1000 mm
K060	1"	10	87K060PM06	1	1000 mm
K060	1"	11	87K060PT06	1	1000 mm
K060	1"	12	87K060PU06	1	1200 mm

C3) FIXED POINT REGULATION MANIFOLDS FOR UNDERFLOOR HEATING SYSTEMS LOW AND HIGH TEMPERATURE - WITH BUILT-IN MIXING GROUP

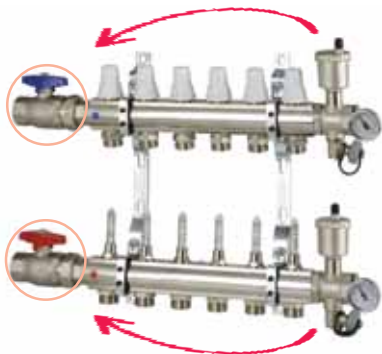
Art. K025 - Art. K026

Manifolds unit with memory flowmeters and valves with thermostatic option. It includes:

- 2 ball valves (art.215)
- Connection to the ball valve with gasket with plane seat and o-ring
- 2 brackets (art.208)
- 2 1" male/female intermediate fittings **with revolving connection** (art.204). Conical sealing gasket. Art.204 can be assembled between manifold and ball valve.
- 2 3/8" automatic air vents (art.707)
- 2 1/2" drain cocks (art.172)
- 2 1" thermometer caps with o-ring (art.185)
- 2 0-60° thermometers (art.206).

Suitable for 3/4" Euroconus or M24x1,5 fittings.

Choose thermostatic and electrothermic actuators with 28x1,5 connection thread.



WITH STRAIGHT BALL VALVE

ART.	HEAD CONNECT.	OUTLETS	CODE EUROCONUS	CODE M24X1,5	PACKAGING	LENGTH TOTAL COLLECTOR	BOX RECOMMENDED ART. 196
K025/K026	1"	2	87K025PG06	87K026PG06	1	295 mm	500 mm
K025/K026	1"	3	87K025PH06	87K026PH06	1	345 mm	500 mm
K025/K026	1"	4	87K025PJ06	87K026PJ06	1	395 mm	500 mm
K025/K026	1"	5	87K025PQ06	87K026PQ06	1	445 mm	700 mm
K025/K026	1"	6	87K025PK06	87K026PK06	1	495 mm	700 mm
K025/K026	1"	7	87K025PR06	87K026PR06	1	545 mm	700 mm
K025/K026	1"	8	87K025PL06	87K026PL06	1	595 mm	700 mm
K025/K026	1"	9	87K025PS06	87K026PS06	1	645 mm	850 mm
K025/K026	1"	10	87K025PM06	87K026PM06	1	695 mm	850 mm
K025/K026	1"	11	87K025PT06	87K026PT06	1	745 mm	850 mm
K025/K026	1"	12	87K025PU06	87K026PU06	1	795 mm	1000 mm
K025/K026	1"	13	87K025PV06	87K026PV06	1	845 mm	1000 mm
K025/K026	1"	14	87K025PW06	87K026PW06	1	895 mm	1200 mm
K025/K026	1"	15	87K025PY06	87K026PY06	1	945 mm	1200 mm



WITH ANGLE BALL VALVE

ART.	HEAD CONNECT.	OUTLETS	CODE EUROCONUS	CODE M24X1,5	PACKAGING	LENGTH TOTAL COLLECTOR	BOX RECOMMENDED ART. 196
K025/K026	1"	2	87K025PG06 225	87K026PG06 225	1	295 mm	500 mm
K025/K026	1"	3	87K025PH06 225	87K026PH06 225	1	345 mm	500 mm
K025/K026	1"	4	87K025PJ06 225	87K026PJ06 225	1	395 mm	500 mm
K025/K026	1"	5	87K025PQ06 225	87K026PQ06 225	1	445 mm	700 mm
K025/K026	1"	6	87K025PK06 225	87K026PK06 225	1	495 mm	700 mm
K025/K026	1"	7	87K025PR06 225	87K026PR06 225	1	545 mm	700 mm
K025/K026	1"	8	87K025PL06 225	87K026PL06 225	1	595 mm	700 mm
K025/K026	1"	9	87K025PS06 225	87K026PS06 225	1	645 mm	850 mm
K025/K026	1"	10	87K025PM06 225	87K026PM06 225	1	695 mm	850 mm
K025/K026	1"	11	87K025PT06 225	87K026PT06 225	1	745 mm	850 mm
K025/K026	1"	12	87K025PU06 225	87K026PU06 225	1	795 mm	1000 mm
K025/K026	1"	13	87K025PV06 225	87K026PV06 225	1	845 mm	1000 mm
K025/K026	1"	14	87K025PW06 225	87K026PW06 225	1	895 mm	1200 mm
K025/K026	1"	15	87K025PY06 225	87K026PY06 225	1	945 mm	1200 mm

TEMPERATURE SETTING page 103 / OTHER ACCESSORIES page 82

C3) FIXED POINT REGULATION MANIFOLDS FOR UNDERFLOOR HEATING SYSTEMS LOW AND HIGH TEMPERATURE - WITH BUILT-IN MIXING GROUP

Art. K031 - ART. K032

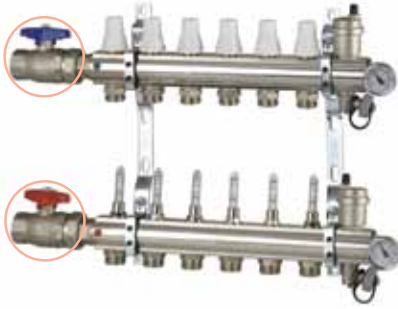
Manifolds unit with memory flowmeters and valves with thermostatic option.

It includes:

- 2 ball valves (art.215)
- Connection to the ball valve with gasket with plane seat and o-ring
- 2 brackets (art.208) with supports
- 2 1/2" automatic air vents (art.700)
- 2 1/2" drain cocks (art.172)
- 2 1" thermometer caps with o-ring (art.185)
- 2 0-60° thermometers (art.206).

Suitable for 3/4" Euroconus or M24x1,5 fittings.

Choose thermostatic and electrothermic actuators with 28x1,5 connection thread.



WITH STRAIGHT BALL VALVE



ART.	HEAD CONNECT.	OUTLETS	CODE EUROCONUS	CODE M24X1,5	PACKAGING	LENGTH TOTAL COLLECTOR	BOX RECOMMENDED ART. 196
K031/K032	1"	2	87K031PG06	87K032PG06	1	295 mm	500 mm
K031/K032	1"	3	87K031PH06	87K032PH06	1	345 mm	500 mm
K031/K032	1"	4	87K031PJ06	87K032PJ06	1	395 mm	500 mm
K031/K032	1"	5	87K031PQ06	87K032PQ06	1	445 mm	700 mm
K031/K032	1"	6	87K031PK06	87K032PK06	1	495 mm	700 mm
K031/K032	1"	7	87K031PR06	87K032PR06	1	545 mm	700 mm
K031/K032	1"	8	87K031PL06	87K032PL06	1	595 mm	700 mm
K031/K032	1"	9	87K031PS06	87K032PS06	1	645 mm	850 mm
K031/K032	1"	10	87K031PM06	87K032PM06	1	695 mm	850 mm
K031/K032	1"	11	87K031PT06	87K032PT06	1	745 mm	850 mm
K031/K032	1"	12	87K031PU06	87K032PU06	1	795 mm	1000 mm
K031/K032	1"	13	87K031PV06	87K032PV06	1	845 mm	1000 mm
K031/K032	1"	14	87K031PW06	87K032PW06	1	895 mm	1200 mm

WITH ANGLE BALL VALVE



ART.	HEAD CONNECT.	OUTLETS	CODE EUROCONUS	CODE M24X1,5	PACKAGING	LENGTH TOTAL COLLECTOR	BOX RECOMMENDED ART. 196
K031/K032	1"	2	87K031PG06 226	87K032PG06 226	1	295 mm	500 mm
K031/K032	1"	3	87K031PH06 226	87K032PH06 226	1	345 mm	500 mm
K031/K032	1"	4	87K031PJ06 226	87K032PJ06 226	1	395 mm	500 mm
K031/K032	1"	5	87K031PQ06 226	87K032PQ06 226	1	445 mm	700 mm
K031/K032	1"	6	87K031PK06 226	87K032PK06 226	1	495 mm	700 mm
K031/K032	1"	7	87K031PR06 226	87K032PR06 226	1	545 mm	700 mm
K031/K032	1"	8	87K031PL06 226	87K032PL06 226	1	595 mm	700 mm
K031/K032	1"	9	87K031PS06 226	87K032PS06 226	1	645 mm	850 mm
K031/K032	1"	10	87K031PM06 226	87K032PM06 226	1	695 mm	850 mm
K031/K032	1"	11	87K031PT06 226	87K032PT06 226	1	745 mm	850 mm
K031/K032	1"	12	87K031PU06 226	87K032PU06 226	1	795 mm	1000 mm
K031/K032	1"	13	87K031PV06 226	87K032PV06 226	1	845 mm	1000 mm
K031/K032	1"	14	87K031PW06 226	87K032PW06 226	1	895 mm	1200 mm

C3) FIXED POINT REGULATION MANIFOLDS FOR UNDERFLOOR HEATING SYSTEMS LOW AND HIGH TEMPERATURE - WITH BUILT-IN MIXING GROUP

Art. K021 - ART. K022

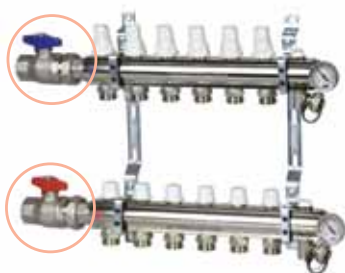
Manifolds unit with adjustment lockshields and valves with thermostatic option.

It includes:

- 2 ball valves (art.215)
- Connection to the ball valve with gasket with plane seat and o-ring
- 2 brackets (art.208) with anti-vibration supports
- 2 built-in manual air vents with o-ring (ns.art.705)
- 2 1/2" drain cocks (Ns.art.172)
- 2 1" thermometer caps with o-ring (art.185)
- 2 0-60° thermometers (art.206).

Suitable for 3/4" Euroconus or M24x1,5 fittings.

Choose thermostatic and electrothermic actuators with 28x1,5 connection thread.



WITH STRAIGHT BALL VALVE

ART.	HEAD CONNECT.	OUTLETS	CODE EUROCONUS	CODE M24X1,5	PACKAGING	LENGTH TOTAL COLLECTOR	BOX RECOMMENDED ART. 196
K021/K022	1"	2	87K021PG06	87K022PG06	1	295 mm	500 mm
K021/K022	1"	3	87K021PH06	87K022PH06	1	345 mm	500 mm
K021/K022	1"	4	87K021PJ06	87K022PJ06	1	395 mm	500 mm
K021/K022	1"	5	87K021PQ06	87K022PQ06	1	445 mm	700 mm
K021/K022	1"	6	87K021PK06	87K022PK06	1	495 mm	700 mm
K021/K022	1"	7	87K021PR06	87K022PR06	1	545 mm	700 mm
K021/K022	1"	8	87K021PL06	87K022PL06	1	595 mm	700 mm
K021/K022	1"	9	87K021PS06	87K022PS06	1	645 mm	850 mm
K021/K022	1"	10	87K021PM06	87K022PM06	1	695 mm	850 mm
K021/K022	1"	11	87K021PT06	87K022PT06	1	745 mm	850 mm
K021/K022	1"	12	87K021PU06	87K022PU06	1	795 mm	1000 mm
K021/K022	1"	13	87K021PV06	87K021PV06	1	845 mm	1000 mm
K021/K022	1"	14	87K021PW06	87K021PW06	1	895 mm	1200 mm
K021	1"1/4	2	87K021DG06	-	1	304 mm	500 mm
K021	1"1/4	3	87K021DH06	-	1	354 mm	500 mm
K021	1"1/4	4	87K021DJ06	-	1	404 mm	500 mm
K021	1"1/4	5	87K021DQ06	-	1	454 mm	700 mm
K021	1"1/4	6	87K021DK06	-	1	504 mm	700 mm
K021	1"1/4	7	87K021DR06	-	1	554 mm	700 mm
K021	1"1/4	8	87K021DL06	-	1	604 mm	700 mm
K021	1"1/4	9	87K021DS06	-	1	654 mm	850 mm
K021	1"1/4	10	87K021DM06	-	1	704 mm	850 mm
K021	1"1/4	11	87K021DT06	-	1	754 mm	850 mm
K021	1"1/4	12	87K021DU06	-	1	804 mm	1000 mm
K021	1"1/4	13	87K021DV06	-	1	854 mm	1000 mm
K021	1"1/4	14	87K021DW06	-	1	904 mm	1000 mm



WITH ANGLE BALL VALVE

ART.	HEAD CONNECT.	OUTLETS	CODE EUROCONUS	CODE M24X1,5	PACKAGING	LENGTH TOTAL COLLECTOR	BOX RECOMMENDED ART. 196
K021/K022	1"	2	87K021PG06 226	87K022PG06 226	1	295 mm	500 mm
K021/K022	1"	3	87K021PH06 226	87K022PH06 226	1	345 mm	500 mm
K021/K022	1"	4	87K021PJ06 226	87K022PJ06 226	1	395 mm	500 mm
K021/K022	1"	5	87K021PQ06 226	87K022PQ06 226	1	445 mm	700 mm
K021/K022	1"	6	87K021PK06 226	87K022PK06 226	1	495 mm	700 mm
K021/K022	1"	7	87K021PR06 226	87K022PR06 226	1	545 mm	700 mm
K021/K022	1"	8	87K021PL06 226	87K022PL06 226	1	595 mm	700 mm
K021/K022	1"	9	87K021PS06 226	87K022PS06 226	1	645 mm	850 mm
K021/K022	1"	10	87K021PM06 226	87K022PM06 226	1	695 mm	850 mm
K021/K022	1"	11	87K021PT06 226	87K022PT06 226	1	745 mm	850 mm
K021/K022	1"	12	87K021PU06 226	87K022PU06 226	1	795 mm	1000 mm
K021/K022	1"	13	87K021PV06 226	87K022PV06 226	1	845 mm	1000 mm
K021/K022	1"	14	87K021PW06 226	87K022PW06 226	1	895 mm	1200 mm

C3) FIXED POINT REGULATION MANIFOLDS FOR UNDERFLOOR HEATING SYSTEMS LOW AND HIGH TEMPERATURE - WITH BUILT-IN MIXING GROUP

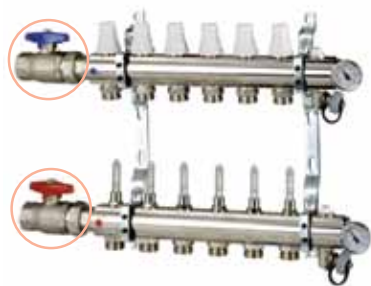
Art. K023 - ART. K024

Manifolds unit with memory flowmeters and valves with thermostatic option. It Includes:

- 2 ball valves with revolving connection and cockpit for thermometer (art.215)
- Connection to the ball valve with gasket with plane seat and o-ring
- 2 brackets (art.208) with anti-vibration supports
- 2 built-in manual air vents with o-ring (art.705)
- 2 1/2" drain cocks (art.172)
- 2 1" thermometer caps with o-ring (art.185)
- 2 0-60° thermometers (art.206).

Suitable for 3/4" Euroconus or M24x1,5 fittings.

Choose thermostatic and electrothermic actuators with 28x1,5 connection thread.



WITH STRAIGHT BALL VALVE

ART.	HEAD CONNECT.	OUTLETS	CODE EUROCONUS	CODE M24X1,5	PACKAGING	LENGTH TOTAL	BOX ART. 196
K023/K024	1"	2	87K023PG06	87K024PG06	1	295 mm	500 mm
K023/K024	1"	3	87K023PH06	87K024PH06	1	345 mm	500 mm
K023/K024	1"	4	87K023PJ06	87K024PJ06	1	395 mm	500 mm
K023/K024	1"	5	87K023PQ06	87K024PQ06	1	445 mm	700 mm
K023/K024	1"	6	87K023PK06	87K024PK06	1	495 mm	700 mm
K023/K024	1"	7	87K023PR06	87K024PR06	1	545 mm	700 mm
K023/K024	1"	8	87K023PL06	87K024PL06	1	595 mm	700 mm
K023/K024	1"	9	87K023PS06	87K024PS06	1	645 mm	850 mm
K023/K024	1"	10	87K023PM06	87K024PM06	1	695 mm	850 mm
K023/K024	1"	11	87K023PT06	87K024PT06	1	745 mm	850 mm
K023/K024	1"	12	87K023PU06	87K024PU06	1	795 mm	1000 mm
K023/K024	1"	13	87K023PV06	87K024PV06	1	845 mm	1000 mm
K023/K024	1"	14	87K023PW06	87K024PW06	1	895 mm	1200 mm
K023	1"1/4	2	87K023DG06	-	1	304 mm	500 mm
K023	1"1/4	3	87K023DH06	-	1	354 mm	500 mm
K023	1"1/4	4	87K023DJ06	-	1	404 mm	500 mm
K023	1"1/4	5	87K023DQ06	-	1	454 mm	700 mm
K023	1"1/4	6	87K023DK06	-	1	504 mm	700 mm
K023	1"1/4	7	87K023DR06	-	1	554 mm	700 mm
K023	1"1/4	8	87K023DL06	-	1	604 mm	700 mm
K023	1"1/4	9	87K023DS06	-	1	654 mm	850 mm
K023	1"1/4	10	87K023DM06	-	1	704 mm	850 mm
K023	1"1/4	11	87K023DT06	-	1	754 mm	850 mm
K023	1"1/4	12	87K023DU06	-	1	804 mm	1000 mm
K023	1"1/4	13	87K023DV06	-	1	854 mm	1000 mm
K023	1"1/4	14	87K023DW06	-	1	904 mm	1000 mm



WITH ANGLE BALL VALVE

ART.	HEAD CONNECT.	OUTLETS	CODE EUROCONUS	CODE M24X1,5	PACKAGING	LENGTH TOTAL	BOX ART. 196
K023/K024	1"	2	87K023PG06 226	87K024PG06 226	1	295 mm	500 mm
K023/K024	1"	3	87K023PH06 226	87K024PH06 226	1	345 mm	500 mm
K023/K024	1"	4	87K023PJ06 226	87K024PJ06 226	1	395 mm	500 mm
K023/K024	1"	5	87K023PQ06 226	87K024PQ06 226	1	445 mm	700 mm
K023/K024	1"	6	87K023PK06 226	87K024PK06 226	1	495 mm	700 mm
K023/K024	1"	7	87K023PR06 226	87K024PR06 226	1	545 mm	700 mm
K023/K024	1"	8	87K023PL06 226	87K024PL06 226	1	595 mm	700 mm
K023/K024	1"	9	87K023PS06 226	87K024PS06 226	1	645 mm	850 mm
K023/K024	1"	10	87K023PM06 226	87K024PM06 226	1	695 mm	850 mm
K023/K024	1"	11	87K023PT06 226	87K024PT06 226	1	745 mm	850 mm
K023/K024	1"	12	87K023PU06 226	87K024PU06 226	1	795 mm	1000 mm
K023/K024	1"	13	87K023PV06 226	87K024PV06 226	1	845 mm	1000 mm
K023/K024	1"	14	87K023PW06 226	87K024PW06 226	1	895 mm	1200 mm

C3) FIXED POINT REGULATION MANIFOLDS FOR UNDERFLOOR HEATING SYSTEMS LOW AND HIGH TEMPERATURE - WITH BUILT-IN MIXING GROUP

Art. K013 - Art. K014

Manifolds unit with memory flowmeters and valves with thermostatic option. Brackets with anti-vibration supports (art.208). The flow regulators allow to close and regulate the flow.

Suitable for 3/4" Euroconus or M24x1,5 fittings.

Choose electrothermic actuators with 28x1,5 connection thread.



ART.	HEAD CONNECT.	OUTLETS	CODE EUROCONUS	CODE M24X1,5	PACKAGING	LENGTH TOTAL COLLECTOR
K013/K014	1"	2	87K013PG06	87K014PG06	1	104 mm
K013/K014	1"	3	87K013PH06	87K014PH06	1	154 mm
K013/K014	1"	4	87K013PJ06	87K014PJ06	1	204 mm
K013/K014	1"	5	87K013PQ06	87K014PQ06	1	254 mm
K013/K014	1"	6	87K013PK06	87K014PK06	1	304 mm
K013/K014	1"	7	87K013PR06	87K014PR06	1	354 mm
K013/K014	1"	8	87K013PL06	87K014PL06	1	404 mm
K013/K014	1"	9	87K013PS06	87K014PS06	1	454 mm
K013/K014	1"	10	87K013PM06	87K014PM06	1	504 mm
K013/K014	1"	11	87K013PT06	87K014PT06	1	554 mm
K013/K014	1"	12	87K013PU06	87K014PU06	1	604 mm
K013/K014	1"	13	87K013PV06	87K014PV06	1	654 mm
K013/K014	1"	14	87K013PW06	87K014PW06	1	704 mm
K013/K014	1"	15	87K013PY06	87K013PY06	1	754 mm

Art. K005 - Art. K006

Manifolds unit with adjustment lockshields and valves with thermostatic option. Brackets with anti-vibration supports (art.208).

Suitable for 3/4" Euroconus or M24x1,5 fittings.

Choose electrothermic actuators with 28x1,5 connection thread.



ART.	HEAD CONNECT.	OUTLETS	CODE EUROCONUS	CODE M24X1,5	PACKAGING	LENGTH TOTAL COLLECTOR
K005/K006	1"	2	87K005PG06	87K006PG06	1	104 mm
K005/K006	1"	3	87K005PH06	87K006PH06	1	154 mm
K005/K006	1"	4	87K005PJ06	87K006PJ06	1	204 mm
K005/K006	1"	5	87K005PQ06	87K006PQ06	1	254 mm
K005/K006	1"	6	87K005PK06	87K006PK06	1	304 mm
K005/K006	1"	7	87K005PR06	87K006PR06	1	354 mm
K005/K006	1"	8	87K005PL06	87K006PL06	1	404 mm
K005/K006	1"	9	87K005PS06	87K006PS06	1	454 mm
K005/K006	1"	10	87K005PM06	87K006PM06	1	504 mm
K005/K006	1"	11	87K005PT06	87K006PT06	1	554 mm
K005/K006	1"	12	87K005PU06	87K006PU06	1	604 mm
K005/K006	1"	13	87K005PV06	87K006PV06	1	654 mm
K005/K006	1"	14	87K005PW06	87K006PW06	1	704 mm
K005/K006	1"	15	87K005PY06	87K006PY06	1	754 mm

Art. K009 - Art. K010

Manifolds unit with adjustment lockshields and valves with thermostatic option. Outlets for 1/2" air vent (art.707) and 1/2" drain cock (art.172). Brackets with anti-vibration supports (art.208).

Suitable for 3/4" Euroconus or M24x1,5 fittings.

Choose electrothermic actuators with 28x1,5 connection thread.



ART.	HEAD CONNECT.	OUTLETS	CODE EUROCONUS	CODE M24X1,5	PACKAGING	LENGTH TOTAL COLLECTOR
K009/K010	1"	2	87K009PG06	87K010PG06	1	154 mm
K009/K010	1"	3	87K009PH06	87K010PH06	1	204 mm
K009/K010	1"	4	87K009PJ06	87K010PJ06	1	254 mm
K009/K010	1"	5	87K009PQ06	87K010PQ06	1	304 mm
K009/K010	1"	6	87K009PK06	87K010PK06	1	354 mm
K009/K010	1"	7	87K009PR06	87K010PR06	1	404 mm
K009/K010	1"	8	87K009PL06	87K010PL06	1	454 mm
K009/K010	1"	9	87K009PS06	87K010PS06	1	504 mm
K009/K010	1"	10	87K009PM06	87K010PM06	1	554 mm
K009/K010	1"	11	87K009PT06	87K010PT06	1	604 mm
K009/K010	1"	12	87K009PU06	87K010PU06	1	654 mm
K009/K010	1"	13	87K009PV06	87K010PV06	1	704 mm
K009/K010	1"	14	87K009PW06	87K010PW06	1	754 mm

TEMPERATURE SETTING page 103 / OTHER ACCESSORIES page 82

C3) FIXED POINT REGULATION MANIFOLDS FOR UNDERFLOOR HEATING SYSTEMS LOW AND HIGH TEMPERATURE - WITH BUILT-IN MIXING GROUP

Art. 1001 - Art. 1002

Return manifold with manual valves and valves with thermostatic option. Male outlets. Interaxe: 50 mm. **Suitable for 3/4" Euroconus or M24x1,5 fittings. Choose electrothermic actuators with 28x1,5 connection thread.**



ART.	HEAD CONNECT.	OUTLETS	CODE EUROCONUS	CODE M24X1,5	PACKAGING	
1001/1002	1"	1	871001PF06	871002PF06	1	
1001/1002	1"	2	871001PG06	871002PG06	1	
1001/1002	1"	3	871001PH06	871002PH06	1	
1001/1002	1"	4	871001PJ06	871002PJ06	1	
1001/1002	1"	5	871001PQ06	871002PQ06	1	
1001/1002	1"	6	871001PK06	871002PK06	1	
1001/1002	1"	7	871001PR06	871002PR06	1	
1001/1002	1"	8	871001PL06	871002PL06	1	
1001/1002	1"	9	871001PS06	871002PS06	1	
1001/1002	1"	10	871001PM06	871002PM06	1	
1001/1002	1"	11	871001PT06	871002PT06	1	
1001/1002	1"	12	871001PU06	871002PU06	1	
1001/1002	1"	13	871001PV06	871002PV06	1	
1001/1002	1"	14	871001PW06	871002PW06	1	
1001/1002	1"	15	871001PY06	871002PY06	1	

Art. 1005 - Art. 1006

Delivery manifold with micrometric regulation lockshields. Male outlets. Interaxe: 50 mm. **Suitable for 3/4" Euroconus or M24x1,5 fittings.**



ART.	HEAD CONNECT.	OUTLETS	CODE EUROCONUS	CODE M24X1,5	PACKAGING	
1005/1006	1"	1	871005PF06	871006PF06	1	
1005/1006	1"	2	871005PG06	871006PG06	1	
1005/1006	1"	3	871005PH06	871006PH06	1	
1005/1006	1"	4	871005PJ06	871006PJ06	1	
1005/1006	1"	5	871005PQ06	871006PQ06	1	
1005/1006	1"	6	871005PK06	871006PK06	1	
1005/1006	1"	7	871005PR06	871006PR06	1	
1005/1006	1"	8	871005PL06	871006PL06	1	
1005/1006	1"	9	871005PS06	871006PS06	1	
1005/1006	1"	10	871005PM06	871006PM06	1	
1005/1006	1"	11	871005PT06	871006PT06	1	
1005/1006	1"	12	871005PU06	871006PU06	1	
1005/1006	1"	13	871005PV06	871006PV06	1	
1005/1006	1"	14	871005PW06	871006PW06	1	
1005/1006	1"	15	871005PY06	871006PY06	1	

C3) FIXED POINT REGULATION MANIFOLDS FOR UNDERFLOOR HEATING SYSTEMS LOW AND HIGH TEMPERATURE - WITH BUILT-IN MIXING GROUP

Art. 1013 - Art. 1014

Delivery manifold with flowmeters. Male outlets. Interaxe: 50 mm.

Suitable for 3/4" Euroconus or M24x1,5 fittings.



ART.	HEAD CONNECT.	OUTLETS	CODE EUROCONUS	CODE M24X1,5	PACKAGING
1013/1014	1"	1	871013PF06	871014PF06	1
1013/1014	1"	2	871013PG06	871014PG06	1
1013/1014	1"	3	871013PH06	871014PH06	1
1013/1014	1"	4	871013PJ06	871014PJ06	1
1013/1014	1"	5	871013PQ06	871014PQ06	1
1013/1014	1"	6	871013PK06	871014PK06	1
1013/1014	1"	7	871013PR06	871014PR06	1
1013/1014	1"	8	871013PL06	871014PL06	1
1013/1014	1"	9	871013PS06	871014PS06	1
1013/1014	1"	10	871013PM06	871014PM06	1
1013/1014	1"	11	871013PT06	871014PT06	1
1013/1014	1"	12	871013PU06	871014PU06	1
1013/1014	1"	13	871013PV06	871014PV06	1
1013/1014	1"	14	871013PW06	871014PW06	1
1013/1014	1"	15	871013PY06	871014PY06	1

Art. 1007 - Art. 1008

Return manifold with manual valves and valves with thermostatic option. Outlets for 1/2" air vent (art.707) and 1/2" drain cock (art.172). Male outlets. Interaxe: 50 mm.

Suitable for 3/4" Euroconus or M24x1,5 fittings.

Choose thermostatic and electrothermic actuators with 28x1,5 connection thread.



ART.	HEAD CONNECT.	OUTLETS	CODE EUROCONUS	CODE M24X1,5	PACKAGING
1007/1008	1"	2	871007PG06	871008PG06	1
1007/1008	1"	3	871007PH06	871008PH06	1
1007/1008	1"	4	871007PJ06	871008PJ06	1
1007/1008	1"	5	871007PQ06	871008PQ06	1
1007/1008	1"	6	871007PK06	871008PK06	1
1007/1008	1"	7	871007PR06	871008PR06	1
1007/1008	1"	8	871007PL06	871008PL06	1
1007/1008	1"	9	871007PS06	871008PS06	1
1007/1008	1"	10	871007PM06	871008PM06	1
1007/1008	1"	11	871007PT06	871008PT06	1
1007/1008	1"	12	871007PU06	871008PU06	1
1007/1008	1"	13	871007PV06	871008PV06	1
1007/1008	1"	14	871007PW06	871008PW06	1
1007	1"1/4	2	871007DG06	-	1
1007	1"1/4	3	871007DH06	-	1
1007	1"1/4	4	871007DJ06	-	1
1007	1"1/4	5	871007DQ06	-	1
1007	1"1/4	6	871007DK06	-	1
1007	1"1/4	7	871007DR06	-	1
1007	1"1/4	8	871007DL06	-	1
1007	1"1/4	9	871007DS06	-	1
1007	1"1/4	10	871007DM06	-	1
1007	1"1/4	11	871007DT06	-	1
1007	1"1/4	12	871007DU06	-	1
1007	1"1/4	13	871007DV06	-	1
1007	1"1/4	14	871007DW06	-	1

C3) FIXED POINT REGULATION MANIFOLDS FOR UNDERFLOOR HEATING SYSTEMS LOW AND HIGH TEMPERATURE - WITH BUILT-IN MIXING GROUP

Art. 1011 - Art. 1012

Delivery manifold with micrometric regulation lockshields. Outlets for 1/2" air vent (art.707) and 1/2" drain cock (art.172). Male outlets. Interaxe: 50 mm. **Suitable for 3/4" Euroconus or M24x1,5 fittings.**



ART.	HEAD CONNECT.	OUTLETS	CODE EUROCONUS	CODE M24X1,5	PACKAGING
1011/1012	1"	2	871011PG06	871012PG06	1
1011/1012	1"	3	871011PH06	871012PH06	1
1011/1012	1"	4	871011PJ06	871012PJ06	1
1011/1012	1"	5	871011PQ06	871012PQ06	1
1011/1012	1"	6	871011PK06	871012PK06	1
1011/1012	1"	7	871011PR06	871012PR06	1
1011/1012	1"	8	871011PL06	871012PL06	1
1011/1012	1"	9	871011PS06	871012PS06	1
1011/1012	1"	10	871011PM06	871012PM06	1
1011/1012	1"	11	871011PT06	871012PT06	1
1011/1012	1"	12	871011PU06	871012PU06	1
1011/1012	1"	13	871011PV06	871012PV06	1
1011/1012	1"	14	871011PW06	871012PW06	1
1011	1"1/4	2	871011DG06	-	1
1011	1"1/4	3	871011DH06	-	1
1011	1"1/4	4	871011DJ06	-	1
1011	1"1/4	5	871011DQ06	-	1
1011	1"1/4	6	871011DK06	-	1
1011	1"1/4	7	871011DR06	-	1
1011	1"1/4	8	871011DL06	-	1
1011	1"1/4	9	871011DS06	-	1
1011	1"1/4	10	871011DM06	-	1
1011	1"1/4	11	871011DT06	-	1
1011	1"1/4	12	871011DU06	-	1
1011	1"1/4	13	871011DV06	-	1
1011	1"1/4	14	871011DW06	-	1

Art. 1015 - Art. 1016

Delivery manifold with flowmeters. Outlets for 1/2" air vent (art.707) and 1/2" drain cock (art.172). Male outlets. Interaxe: 50 mm. **Suitable for 3/4" Euroconus or M24x1,5 fittings.**



ART.	HEAD CONNECT.	OUTLETS	CODE EUROCONUS	CODE M24X1,5	PACKAGING
1015/1016	1"	2	871015PG06	871016PG06	1
1015/1016	1"	3	871015PH06	871016PH06	1
1015/1016	1"	4	871015PJ06	871016PJ06	1
1015/1016	1"	5	871015PQ06	871016PQ06	1
1015/1016	1"	6	871015PK06	871016PK06	1
1015/1016	1"	7	871015PR06	871016PR06	1
1015/1016	1"	8	871015PL06	871016PL06	1
1015/1016	1"	9	871015PS06	871016PS06	1
1015/1016	1"	10	871015PM06	871016PM06	1
1015/1016	1"	11	871015PT06	871016PT06	1
1015/1016	1"	12	871015PU06	871016PU06	1
1015/1016	1"	13	871015PV06	871016PV06	1
1015/1016	1"	14	871015PW06	871016PW06	1
1015	1"1/4	2	871015DG06	-	1
1015	1"1/4	3	871015DH06	-	1
1015	1"1/4	4	871015DJ06	-	1
1015	1"1/4	5	871015DQ06	-	1
1015	1"1/4	6	871015DK06	-	1
1015	1"1/4	7	871015DR06	-	1
1015	1"1/4	8	871015DL06	-	1
1015	1"1/4	9	871015DS06	-	1
1015	1"1/4	10	871015DM06	-	1
1015	1"1/4	11	871015DT06	-	1
1015	1"1/4	12	871015DU06	-	1
1015	1"1/4	13	871015DV06	-	1
1015	1"1/4	14	871015DW06	-	1

C3) FIXED POINT REGULATION MANIFOLDS FOR UNDERFLOOR HEATING SYSTEMS LOW AND HIGH TEMPERATURE - WITH BUILT-IN MIXING GROUP

Art. 177

Insulators for 1" and 1"1/4 manifolds. For manifolds 1" up to 12 outlets, for manifolds 1"1/4 up to 15 outlets. The insulators can be cut, to insulate the manifolds carrying a lower outlet number. Holes on both sides with 50 mm interaxe.



ART.	HEAD CONNECT.	CODE EUROCONUS	PACKAGING (PAIR)
177	1"	87177AF66	1
177	1"1/4	87177AG66	1

C4) SINGLE AND COPLANAR JOINABLE MANIFOLDS FOR HEATING AND SANITARY SYSTEMS

Art. 1103

Single distribution manifold. Outlets for 1/2" air vent (art.707) and 1/2" drain cock (art.172). Female outlets. Interaxe: 50 mm.



ART.	HEAD CONNECT.	OUTLETS	CODE	PACKAGING
1103	1"	2	871103PG06	30
1103	1"	3	871103PH06	20
1103	1"	4	871103PJ06	20
1103	1"	5	871103PQ06	10
1103	1"	6	871103PK06	10
1103	1"	7	871103PR06	10
1103	1"	8	871103PL06	10
1103	1"	9	871103PS06	10
1103	1"	10	871103PM06	10
1103	1"	11	871103PT06	5
1103	1"	12	871103PU06	5
1103	1"	13	871103PV06	5
1103	1"	14	871103PW06	5
1103	1"	15	871103PY06	5

Art. 1104 - Art. 1105

Single distribution manifold with pre-assembled fittings. Male outlets. Interaxe: 50 mm. Suitable for 3/4" Euroconus or M24x1,5 fittings.




ART.	HEAD CONNECT.	OUTLETS	CODE EUROCONUS	CODE M24X1,5	PACKAGING
1104/1105	1"	2	871104PG06	871105PG06	30
1104/1105	1"	3	871104PH06	871105PH06	20
1104/1105	1"	4	871104PJ06	871105PJ06	20
1104/1105	1"	5	871104PQ06	871105PQ06	10
1104/1105	1"	6	871104PK06	871105PK06	10
1104/1105	1"	7	871104PR06	871105PR06	10
1104/1105	1"	8	871104PL06	871105PL06	10
1104/1105	1"	9	871104PS06	871105PS06	10
1104/1105	1"	10	871104PM06	871105PM06	10
1104/1105	1"	11	871104PT06	871105PT06	5
1104/1105	1"	12	871104PU06	871105PU06	5
1104/1105	1"	13	871104PV06	871105PV06	5
1104/1105	1"	14	871104PW06	871105PW06	5
1104/1105	1"	15	871104PY06	871105PY06	5

C4) SINGLE AND COPLANAR JOINABLE MANIFOLDS FOR HEATING AND SANITARY SYSTEMS

Art. 1102

Single distribution manifold. 1/2" female side connections. Interaxe: 50 mm..




ART.	HEAD CONNECT.	OUTLETS	SIDE CONNECT. THREAD	CODE	PACKAGING 
1102	3/4	2	1/2	871102PA05	40
1102	3/4	3	1/2	871102PB05	30
1102	3/4	4	1/2	871102PC05	30
1102	3/4	5	1/2	871102PN05	20
1102	3/4	6	1/2	871102PD05	20
1102	3/4	7	1/2	871102PO05	20
1102	3/4	8	1/2	871102PE05	20
1102	3/4	9	1/2	871102PP05	10
1102	3/4	10	1/2	871102PF05	10
1102	1"	2	1/2	871102PG05	30
1102	1"	3	1/2	871102PH05	20
1102	1"	4	1/2	871102PJ05	20
1102	1"	5	1/2	871102PQ05	20
1102	1"	6	1/2	871102PK05	20
1102	1"	7	1/2	871102PR05	20
1102	1"	8	1/2	871102PL05	20
1102	1"	9	1/2	871102PS05	10
1102	1"	10	1/2	871102PM05	10
1102	1"	11	1/2	871102PT05	10
1102	1"	12	1/2	871102PU05	10
1102	1"	13	1/2	871102PV05	10
1102	1"	14	1/2	871102PW05	10
1102	1"	15	1/2	871102PY05	10
1102	1"1/4	2	1/2	871102DG05	30
1102	1"1/4	3	1/2	871102DH05	20
1102	1"1/4	4	1/2	871102DJ05	20
1102	1"1/4	5	1/2	871102DQ05	20
1102	1"1/4	6	1/2	871102DK05	20
1102	1"1/4	7	1/2	871102DR05	20
1102	1"1/4	8	1/2	871102DL05	20
1102	1"1/4	9	1/2	871102DS05	10
1102	1"1/4	10	1/2	871102DM05	10
1102	1"1/4	11	1/2	871102DT05	10
1102	1"1/4	12	1/2	871102DU05	10
1102	1"1/4	13	1/2	871102DV05	10
1102	1"1/4	14	1/2	871102DW05	10
1102	1"1/4	15	1/2	871102DY05	10

Art. 178

Insulators for 1" and 1"1/4 single bar manifolds. For manifolds 1" up to 12 outlets, for manifolds 1"1/4 up to 15 outlets. The insulators can be cut to insulate manifolds with a lower number of outlets. Suitable for distribution manifolds. Holes on one side with 50 mm interaxe.



ART.	HEAD CONNECT.	CODE EUROCONUS	PACKAGING (PAIR) 
178	1"	87178AF66	1
178	1"1/4	87178AG66	1

C4) SINGLE AND COPLANAR JOINABLE MANIFOLDS FOR HEATING AND SANITARY SYSTEMS

Art. 222 - Art. 223 - Art. 186

Male/Female fit-together single manifold, 1/2", 24x1,5 and Euroconus side male outlets. Art.222 and 223, interaxe 37,5 mm - art. 186 interaxe 50 mm.



ART.	HEAD CONNECT.	SIDE CONNECT. NR.	SIDE CONNECT.	CODE	PACKAGING
222	3/4	2	1/2	87222PA05	50
222	3/4	3	1/2	87222PB05	50
222	3/4	4	1/2	87222PC05	40
222	1"	2	1/2	87222PG05	50
222	1"	3	1/2	87222PH05	50
222	1"	4	1/2	87222PJ05	40
222	3/4	2	1/2	87222PA06	50
222	3/4	3	1/2	87222PB06	50
222	3/4	4	1/2	87222PC06	40
222	1"	2	1/2	87222PG06	50
222	1"	3	1/2	87222PH06	50
222	1"	4	1/2	87222PJ06	40
223	3/4	2	24x1,5	87223PA05	50
223	3/4	3	24x1,5	87223PB05	50
223	3/4	4	24x1,5	87223PC05	40
223	1"	2	24x1,5	87223PG05	50
223	1"	3	24x1,5	87223PH05	50
223	1"	4	24x1,5	87223PJ05	40
223	3/4	2	24x1,5	87223PA06	50
223	3/4	3	24x1,5	87223PB06	50
223	3/4	4	24x1,5	87223PC06	40
223	1"	2	24x1,5	87223PG06	50
223	1"	3	24x1,5	87223PH06	50
223	1"	4	24x1,5	87223PJ06	40
186	3/4	2	3/4	87186PA05	50
186	3/4	3	3/4	87186PB05	50
186	3/4	4	3/4	87186PC05	40
186	1"	2	3/4	87186PG05	50
186	1"	3	3/4	87186PH05	50
186	1"	4	3/4	87186PJ05	40
186	3/4	2	3/4	87186PA06	50
186	3/4	3	3/4	87186PB06	50
186	3/4	4	3/4	87186PC06	40
186	1"	2	3/4	87186PG06	50
186	1"	3	3/4	87186PH06	50
186	1"	4	3/4	87186PJ06	40

Art. 230 - Art. 232

Coplanar manifold. 1/2" and 24x1,5 side male outlets with interaxe 37,5. Distance between head outlets 50 mm.



ART.	HEAD CONNECT.	SIDE CONNECT. NR.	SIDE CONNECT.	CODE	PACKAGING
230	3/4	4x4	24x1,5	87230PC09	10
230	3/4	6x6	24x1,5	87230PD09	10
230	3/4	8x8	24x1,5	87230PE09	5
230	3/4	10x10	24x1,5	87230PF09	5
230	1"	4x4	24x1,5	87230PJ09	10
230	1"	6x6	24x1,5	87230PK09	10
230	1"	8x8	24x1,5	87230PL09	5
230	1"	10x10	24x1,5	87230PM09	5
232	3/4	4x4	1/2	87232PC09	10
232	3/4	6x6	1/2	87232PD09	10
232	3/4	8x8	1/2	87232PE09	5
232	3/4	10x10	1/2	87232PF09	5
232	1"	4x4	1/2	87232PJ09	10
232	1"	6x6	1/2	87232PK09	10
232	1"	8x8	1/2	87232PL09	5
232	1"	10x10	1/2	87232PM09	5

C4) SINGLE AND COPLANAR JOINABLE MANIFOLDS FOR HEATING AND SANITARY SYSTEMS

Art. 227 - Art. 228 - Art. 229

Fit-together single manifold with interception valves. 3/4" head connections with interaxe 37,5 mm. 1" head connections with interaxe 50 mm. 1/2" side outlets. It includes: hot/cold plates: one side red, the other side blue and double face plates with descriptions for sanitary and heating system in the following languages: Italian, Russian, English, Spanish, Greek, Hungarian.



ART.	DESCRIPTION	HEAD CONNECT.	SIDE CONNECT. NR.	SIDE CONNECT.	CODE	PACKAGING
227	3/4"x2 att.	3/4	2	1/2	87227PA06	50
227	3/4"x3 att.	3/4	3	1/2	87227PB06	25
227	3/4"x4 att.	3/4	4	1/2	87227PC06	25
227	1"x2 att.	1"	2	1/2	87227PG06	25
227	1"x3 att.	1"	3	1/2	87227PH06	25
228	3/4"x2 att.	3/4	2	24x1,5	87228PA06	50
228	3/4"x3 att.	3/4	3	24x1,5	87228PB06	25
228	3/4"x4 att.	3/4	4	24x1,5	87228PC06	25
228	1"x2 att.	1"	2	24x1,5	87228PG06	25
228	1"x3 att.	1"	3	24x1,5	87228PH06	25
229	1"x2 att.	1"	2	3/4	87229PG06	25
229	1"x3 att.	1"	3	3/4	87229PH06	25

Art. 213 - Art. 214

Fit-together coplanar manifold. Male.



ART.	HEAD CONNECT.	SIDE CONNECT. NR.	SIDE CONNECT.	CODE	PACKAGING	
213	3/4	2x2	24x1,5	87213PA05	1	5
213	3/4	2x2	24x1,5	87213PA06	1	5
214	3/4	2x2	1/2	87214PA05	1	5
214	3/4	2x2	1/2	87214PA06	1	5

C4) SINGLE AND COPLANAR JOINABLE MANIFOLDS FOR HEATING AND SANITARY SYSTEMS

Art. 210

Double fit-together coplanar manifold with interception valves. For heating and sanitary systems. With hot/cold plates: one side red - the other side blue. 1/2" male side connections.



ART.	HEAD CONNECT.	SIDE CONNECT. NR.	SIDE CONNECT.	CODE	PACKAGING	
210	3/4	2x2	1/2	87210PA05	1	5

Art. 211

Single fit-together coplanar manifold with interception valves. For heating and sanitary systems. With hot/cold plates: one side red - the other side blue. 1/2" male side outlets.

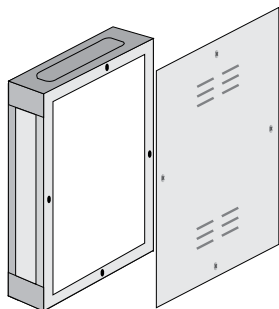


ART.	HEAD CONNECT.	SIDE CONNECT. NR.	SIDE CONNECT.	CODE	PACKAGING	
211	3/4	1x1	1/2	87211PX05	2	10

C5) BOXES FOR SINGLE, COPLANAR MANIFOLDS AND FOR UNDERFLOOR HEATING SYSTEMS

Art. 190

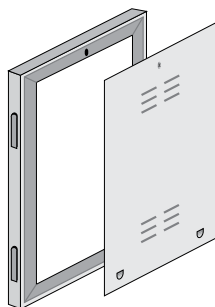
Box for manifolds art. 230, 232, 213, 214. Zinc plated, white painted sheet. With frame, bottom and brackets.



ART.	HEIGHT	WIDTH	DEPTH	CODE	PACKAGING
190	40	30	7	871900A09	5
190	50	30	7	871900B09	5
190	60	30	7	871900C09	5
190	70	30	7	871900D09	5

Art. 191

Door for manifolds with frame and brackets. Zinc plated, white painted sheet.



ART.	HEIGHT	WIDTH	DEPTH	CODE	PACKAGING
191	30	20	-	871910009	10
191	40	30	-	871910A09	20
191	50	30	-	871910B09	20
191	60	30	-	871910C09	20
191	70	30	-	871910D09	20

C5) BOXES FOR SINGLE, COPLANAR MANIFOLDS AND FOR UNDERFLOOR HEATING SYSTEMS

Art. 194

Plastic box for manifolds. With frame, bottom and supports to fix all ICMA manifolds. WITH SIDE REMOVABLE LOCKS.



ART.	HEIGHT	WIDTH	DEPTH	CODE	PACKAGING	
194	30	25	9	8719400Z0	5	
194	40	25	9	871940H20	5	
194	50	25	9	871940I20	5	
194	60	30	9	871940L20	5	

Art. 195

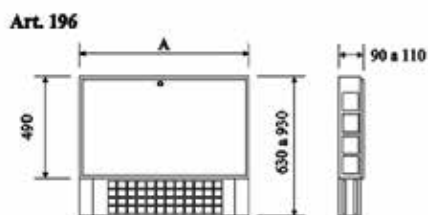
Plastic cover for manifolds. With frame and fixing screws.



ART.	HEIGHT	WIDTH	DEPTH	CODE	PACKAGING	
195	40	25	-	871950H20	20	
195	50	25	-	871950I20	20	
195	60	30	-	871950L20	20	

Art. 196

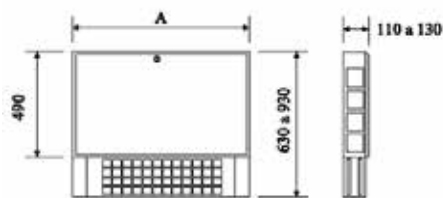
White RAL 9010 painted box for underfloor heating systems with lock. Adjustable height (from 630 mm to 930 mm) and depth (from 90 mm to 110 mm). It is possible to regulate the internal position of the manifold (up-down and laterally). **For manifolds without circulating pump.** Sheet frame and cover thickness 1 mm for a high constructive solidity.



ART.	SIZE A	CODE	PACKAGING	
196	500	871960E09	1	
196	700	871960F09	1	
196	850	871960K09	1	
196	1000	871960G09	1	
196	1200	871960H09	1	

Art. 197

White RAL 9010 painted box for underfloor heating systems with lock. Adjustable height (from 630 mm to 930 mm) and depth (from 110 mm to 150 mm). It is possible to regulate the internal position of the manifold (up-down and laterally). **For manifolds with circulating pump.** Sheet frame and cover thickness 1 mm for a high constructive solidity.



ART.	SIZE A	CODE	PACKAGING	
197	600	871970C09	1	
197	700	871970F09	1	
197	850	871970K09	1	
197	1000	871970G09	1	
197	1200	871970H09	1	

C6) ACCESSORIES FOR MANIFOLDS



Art. 203

Male end connection for manifolds. 3/8" female - 1/2" female outlets.

ART.	SIZE	CODE	PACKAGING		
203	3/4	87203AE05	100		
203	1"	87203AF05	100		
203	3/4	87203AE06	100		
203	1"	87203AF06	100		



Art. 268

Male terminal connection with anti-leakage gasket, 3/8"F and 1/2"F outlets.

ART.	SIZE	CODE	PACKAGING		
268	3/4	87268AE05	100		
268	1"	87268AF05	100		
268	1"1/4	87268AG05	100		
268	3/4"	87268AE06	100		
268	1"	87268AF06	100		
268	1"1/4	87268AG06	100		



Art. 202

Female end connection for manifolds. 3/8" female - 1/2" female outlets.

ART.	SIZE	CODE	PACKAGING		
202	3/4	87202AE05	100		
202	1"	87202AF05	100		
202	3/4	87202AE06	100		
202	1"	87202AF06	100		



Art. 199

Male terminal union. Revolving connection, built-in interception valve, 3/8" outlet and 1/2" outlet for drain cock.

ART.	SIZE	CODE	PACKAGING		
199	1"	87199AF06	50		
199	1"1/4	87199AG06	50		



Art. 174

1" adjustable by-pass. For underfloor manifolds. With revolving connection.

ART.	SIZE	CODE	PACKAGING		
174	1"	87174AF06	5		

C6) ACCESSORIES FOR MANIFOLDS



Art. 198

Male intermediate fitting with revolving connection. Used to join the manifolds.

ART.	SIZE	CODE	PACKAGING	
198	1"	87198AF06	100	
198	1"1/4	87198AG06	100	



Art. 209

Revolving terminal connection with automatic air vent and drain cock.

ART.	SIZE	CODE	PACKAGING	
209	1"	87209AF06	10	
209	1"1/4	87209AG06	10	



Art. 269

Terminal connection with anti-leakage gasket, automatic air vent and drain cock.

ART.	SIZE	CODE	PACKAGING	
269	1"	87269AF06	10	
269	1"1/4	87269AG06	10	



Art. 204

Male-female intermediate fitting. Revolving connection, built-in air vent and 1/2" outlet for drain cock.

ART.	SIZE	CODE	PACKAGING	
204	1"	87204AF06	10	



Art. 205

Male-female intermediate fitting. Revolving connection, automatic air vent, thermometer and drain cock.

ART.	SIZE	CODE	PACKAGING	
205	1"	87205AF06	10	

C6) ACCESSORIES FOR MANIFOLDS

Art. 206

Thermometer with spring clip, 40 mm diameter.



ART.	SIZE	CODE	PACKAGING	
206	0-60	872060060	10	
206	0-80	872060080	10	
206	0-120	872060120	10	

Art. 287

Thermometer with spring clip, 60 mm diameter.



ART.	SIZE	CODE	PACKAGING	
287	0-120	872870120	10	

Art. 207

Cockpit for thermometer art. 206 and art. 287.



ART.	SIZE	CODE	PACKAGING	
207	3/8	87207AC05	100	

Art. 208

Bracket complete with anti-vibration supports. Interaxe between the 2 manifolds: 210 mm.



ART.	SIZE	CODE	PACKAGING	
208	3/4"	87208AE06	50	
208	1"	87208AF06	50	
208	1"1/4	87208AG06	50	

Art. 171

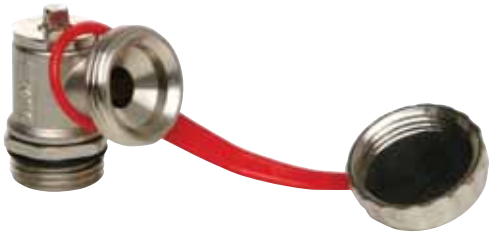
Thermometer holder connection for underfloor heating systems. For manifolds with 1/2" male and Euroconus outlets (thermometer not included).



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
171	24x1,5	24x1,5	871710006	10	50
171	3/4	3/4	87171AE06	10	50

C6) ACCESSORIES FOR MANIFOLDS

Art. 172
Drain cock.



ART.	SIZE	CODE	PACKAGING	
172	1/2	87172AD06	100	

Art. 201

Blind end cap for manifolds. Sizes: 3/4 female - 1" female - 1"1/4 female.



ART.	SIZE	CODE	PACKAGING	
201	3/4	87201AE05	10	
201	1"	87201AF05	10	
201	1"1/4	87201AG05	10	
201	3/4	87201AE06	10	
201	1"	87201AF06	10	
201	1"1/4	87201AG06	10	

Art. 173

End cap with o-ring.



ART.	SIZE	CODE	PACKAGING	
173	1"	87173AF06	100	
173	1"1/4	87173AG06	100	

Art. 185

Thermometer cap with gasket for manifold connections (thermometer art. 206 0-60° included).



ART.	SIZE	CODE	PACKAGING	
185	1"	87185AF06	100	

Art. 215

Full bore ball valve. Tail with o-ring and plane seat.



ART.	SIZE	COLOUR	CODE	PACKAGING	
215	3/4	RED	87215AE11	10	
215	3/4	BLUE	87215AE12	10	
215	1"	RED	87215AF11	10	
215	1"	BLUE	87215AF12	10	
215	1"1/4	RED	87215AG11	10	
215	1"1/4	BLUE	87215AG12	10	

C6) ACCESSORIES FOR MANIFOLDS

Art. 285

Ball valve. Tail with o-ring and plane seat.



ART.	SIZE	COLOUR	CODE	PACKAGING	
285	1"	BLACK	87285AF06	10	

Art. 216

Full bore ball valve with revolving connection. Tail with plane seat. With thermometer.



ART.	SIZE	COLOUR	CODE	PACKAGING	
216	1"	RED	87216AF11	10	
216	1"	BLUE	87216AF12	10	
216	1"1/4	RED	87216AG11	10	
216	1"1/4	BLUE	87216AG11	10	

Art. 225

Full bore angle ball valve. Tail with o-ring and plane seat.



ART.	SIZE	COLOUR	CODE	PACKAGING	
225	3/4"	RED	87225AE11	10	
225	3/4"	BLUE	87225AE12	10	
225	1"	RED	87225AF11	10	
225	1"	BLUE	87225AF12	10	

Art. 226

Full bore angle ball valve. Revolving connection. Tail with plane seat. With thermometer.



ART.	SIZE	COLOUR	CODE	PACKAGING	
226	1"	RED	87226AF11	10	
226	1"	BLUE	87226AF12	10	

C6) ACCESSORIES FOR MANIFOLDS

Art. 233

Male fitting for manifolds. To connect the copper or plastic pipe through art.90-92-98-100.



ART.	SIZE	CODE	PACKAGING	
233	1/2-1/2	87233AD05	10	100
233	3/4-1/2	87233LC05	10	100
233	1"-1/2	87233LE05	10	100
233	1/2-24x1,5	872330005	10	100
233	3/4-24x1,5	87233AE05	10	100
233	1"-24x1,5	87233AF05	10	100

Art. 236

Hollow end cap for manifolds. Size: 3/4 male for 3/8 female - 3/4 male for 1/2F - 1" male for 3/8 female - 1" male for 1/2 female - 1" male for 3/4 female.



ART.	SIZE	CODE	PACKAGING	
236	3/4-3/8	87236LB05	10	200
236	3/4-1/2	87236LC05	10	200
236	1"-3/8	87236LD05	10	200
236	1"-1/2	87236LE05	10	200
236	1"-3/4	87236LF05	10	200
236	3/4-3/8	87236LB06	10	200
236	3/4-1/2	87236LC06	10	200
236	1"-3/8	87236LD06	10	200
236	1"-1/2	87236LE06	10	200
236	1"-3/4	87236LF06	10	200

Art. 237

Male end plug for manifolds. Sizes 3/4 male - 1" male - 1"1/4 male.



ART.	SIZE	CODE	PACKAGING	
237	3/4	87237AE05	10	200
237	1"	87237AF05	10	200
237	1"1/4	87237AG05	10	200
237	3/4	87237AE06	10	200
237	1"	87237AF06	10	200
237	1"1/4	87237AG06	10	200

Art. 238

Blind cap for manifold's side outlets with EPDM gasket.



ART.	SIZE	CODE	PACKAGING	
238	3/8	87238AC05	10	200
238	1/2	87238AD05	10	200
238	24x1,5	872380005	10	200
238	3/4	87238AE05	10	200
238	3/8	87238AC06	10	200
238	1/2	87238AD06	10	200
238	24x1,5	872380006	10	200
238	3/4	87238AE06	10	200

C6) ACCESSORIES FOR MANIFOLDS

Art. 200

Hollow plug for manifolds. Outlets: 3/4 female for 3/8 female - 3/4 female for 1/2 female - 1" female for 3/8 female - 1" female for 1/2 female.



ART.	SIZE	CODE	PACKAGING	
200	3/4-3/8	87200LB05	10	200
200	3/4-1/2	87200LC05	10	200
200	1"-3/8	87200LD05	10	200
200	1"-1/2	87200LE05	10	200
200	3/4-3/8	87200LB06	10	200
200	3/4-1/2	87200LC06	10	200
200	1"-3/8	87200LD06	10	200
200	1"-1/2	87200LE06	10	200

Art. 217

Male fitting for manifolds. With o-ring. Mountable on the bar manifolds art. 1101, 1102, 1103, 1104, 1105.



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
217	1/2	24x1,5	87217RD06	10	200
217	1/2	3/4	87217LC06	10	200

Art. 234

Three-piece male/female eccentric. For coplanar manifolds. Plane connection to mount the motorized zone valves.



ART.	SIZE	CODE	PACKAGING	
234	3/4-3/4	87234LD06	10	50
234	1"-1"	87234LG06	10	50

Art. 235

Three-piece male eccentric. For coplanar manifolds. Plane connection to mount the motorized zone valves.



ART.	SIZE	CODE	PACKAGING	
235	3/4-3/4	87235LD06	10	50
235	3/4-1"	87235LE06	10	50
235	1"-1"	87235LG06	10	50

C7) FITTINGS FOR COPPER, PEX-AL-PEX, PEX PIPE

Art. 90

Patent-pending fitting SICURBLOC for copper pipe.



ART.	PIPE SIZE	CONNECTION THREAD	CODE	PACKAGING	
90	10	1/2"	81090FC06	5	250
90	12	1/2"	81090FD06	5	250
90	12,7	1/2"	81090CC06	5	250
90	14	1/2"	81090FE06	5	250
90	15	1/2"	81090FF06	5	250
90	16	1/2"	81090FG06	5	250
90	10	24x1,5	81090GB06	5	250
90	12	24x1,5	81090GC06	5	250
90	14	24x1,5	81090GD06	5	250
90	15	24x1,5	81090GE06	5	250
90	16	24x1,5	81090GF06	5	250
90	18	24x1,5	81090GG06	5	250

Art. 93

Euroconus fitting for copper pipe. With o-ring.



ART.	PIPE SIZE	CONNECTION THREAD	CODE	PACKAGING	
93	12	3/4"	81093HB06	5	250
93	14	3/4"	81093HC06	5	250
93	15	3/4"	81093HD06	5	250
93	16	3/4"	81093HE06	5	250
93	18	3/4"	81093HF06	5	250

Art. 98

Fitting for Pex and Pex-Al-Pex pipe.



ART.	PIPE SIZE	EXT. PIPE SIZE	INT. PIPE SIZE	CONNECTION THREAD	CODE	PACKAGING	
98	16x1,5	16	13	1/2"	81098GI06	5	250
98	14x2	14	10	1/2"	81098BN06	5	250
98	16x2	16	12	1/2"	81098GH06	5	250
98	16x2,2	16	11,6	1/2"	81098B006	5	250
98	16x2,25	16	11,5	1/2"	81098B006	5	250

Art. 100

Fitting for Pex and Pex-Al-Pex pipe.



ART.	PIPE SIZE	EXT. PIPE SIZE	INT. PIPE SIZE	CONNECTION THREAD	CODE	PACKAGING	
100	18x2,5	18	13	24X1,5	81100GG06	5	250
100	20x2,5	20	15	24X1,5	81100GK06	5	250
100	12x1,1	12	9,8	24X1,5	81100GB06	5	250
100	12X2	12	8	24X1,5	81100BM06	5	250
100	14X2	14	10	24X1,5	81100BN06	5	250
100	16X2	16	12	24X1,5	81100GH06	5	250
100	18X2	18	14	24X1,5	81100GJ06	5	250
100	20X2	20	16	24X1,5	81100BQ06	5	250
100	16X2,2	16	11,6	24X1,5	81100B006	5	250
100	16X2,25	16	11,5	24X1,5	81100B006	5	250
100	18X2,2	18	13,6	24X1,5	81100BP06	5	250
100	20X2,25	20	15,5	24X1,5	81100BR06	5	250
100	16X1,5	16	13	24X1,5	81100GI06	5	250
100	20X1,9	20	16,2	24X1,5	81100GN06	5	250
100	16X2,6 rehaus rautitan	16,2	11	24X1,5	81100GL06	5	250
100	17x2	17	13	24x1,5	81100BS06	5	250
100	20x2,9	20	14,2	24x1,5	81100GM06	5	250
100	25x2,5	20	15	1"	81100G006	5	250
100	26x3	20	14	1"	81100GP06	5	250

C7) FITTINGS FOR COPPER, PEX-AL-PEX, PEX PIPE

Art. 101

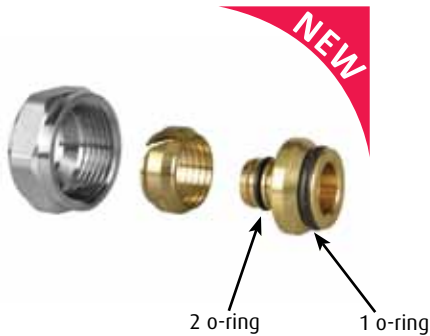
Fitting for Pex and Pex-Al-Pex pipe. Long nut and adapter with 3 o-rings.



ART.	PIPE SIZE	EXT. PIPE SIZE	INT. PIPE SIZE	CONNECTION THREAD	CODE	PACKAGING	
101	18x2,5	18	13	3/4"	81101GG06	5	250
101	20x2,5	20	15	3/4"	81101GK06	5	250
101	12x1,1	12	9,8	3/4"	81101GB06	5	250
101	12X2	12	8	3/4"	81101BM06	5	250
101	14X2	14	10	3/4"	81101BN06	5	250
101	16X2	16	12	3/4"	81101GH06	5	250
101	18X2	18	14	3/4"	81101GJ06	5	250
101	20X2	20	16	3/4"	81101BQ06	5	250
101	16X2,2	16	11,6	3/4"	81101BO06	5	250
101	16X2,25	16	11,5	3/4"	81101B006	5	250
101	18X2,2	18	13,6	3/4"	81101BP06	5	250
101	20X2,25	20	15,5	3/4"	81101BR06	5	250
101	16X1,5	16	13	3/4"	81101GI06	5	250
101	20X1,9	20	16,2	3/4"	81101GN06	5	250
101	16X2,6 rehaus rautitan	16,2	11	3/4"	81101GL06	5	250
101	17x2	17	13	3/4"	81101BS06	5	250
101	20x2,9	20	14,2	3/4"	81101GM06	5	250

Art. 119

Fitting for Pex and Pex-Al-Pex pipe. Short nut and adapter with 3 o-rings.



ART.	PIPE SIZE	EXT. PIPE SIZE	INT. PIPE SIZE	CONNECTION THREAD	CODE	PACKAGING	
119	16x2	16	12	3/4"	81119GH06	5	250
119	17x2	17	13	3/4"	81119BS06	5	250

Art. 116 - Art. 117

Wrench for fittings. Art. 116 Hexagon 24 - Hexagon 27 for 1/2" - 24x1,5 fittings. Art.117 Hexagon 27 - Hexagon 30 for 24x1,5 - 3/4" fittings.



ART.	SIZE	CODE	PACKAGING	
116	24-27	871160006	1	
117	27-30	871170006	1	

C8) MINI BALL VALVES

Art. 311

Female mini-ball valve. Black plastic handle. Pressed body.



ART.	SIZE	CODE	PACKAGING	
311	1/4	89311AB07	20	
311	3/8	89311AC07	20	
311	1/2	89311AD07	20	
311	3/4	89311AE07	15	

Art. 312

Male/female mini-ball valve. Black, plastic handle. Pressed body.



ART.	SIZE	CODE	PACKAGING	
312	1/4	89312AB07	20	
312	3/8	89312AC07	20	
312	1/2	89312AD07	20	
312	3/4	89312AE07	15	

C9) TOOLS TO ASSEMBLE VALVES, MANIFOLDS AND FITTINGS

Art. 111

Key.



ART.	CODE	PACKAGING	
111	871110006	1	

Art. 112

Key for tails.




ART.	CODE	PACKAGING	
112	871120006	1	

C9) TOOLS TO ASSEMBLE VALVES, MANIFOLDS AND FITTINGS

Art. 113

Key for the external hexagon of the patent-pending tail art.940.




ART.	CODE	PACKAGING	
113	871130006	 1	

Art. 114

Screwdriver for lockshields.



ART.	CODE	PACKAGING	
114	871140006	 1	

Art. 116

Wrench for fittings. One side Hexagon 24 for 1/2" fittings; the other side Hexagon 27 for 24x1,5 fittings.




ART.	CODE	PACKAGING	
116	871160006	 1	

Art. 117

Wrench for fittings. One side Hexagon 27 for 24x1,5 fittings; the other side Hexagon 30 for EUROCONUS fittings.



ART.	CODE	PACKAGING	
117	871170006	 1	

D) Components for Underfloor Heating Systems



D1

THERMAL-ACOUSTIC INSULATION



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D2

PEX AND MULTILAYER PIPES



pag. 96



D3

ACCESSORIES



pag. 97



D4

DEHUMIDIFIERS



pag. 101

N. B.

FOR MANIFOLDS, BOXES, PUMP GROUPS, VALVES AND FITTINGS FOR UNDERFLOOR HEATING SYSTEMS see Chapter C



D1) THERMAL-ACOUSTIC INSULATION

Art. P105



Thermoformed insulating panel in sintered expanded polystyrene foam, EPS pre-formed, CE marked in compliance with UNI EN 13163 standard, with thermoformed trampling leaf, thickness 600 micron with 22 mm embossed reliefs. It is suitable for pipes with 16 mm and 17 mm external diameter; it has multiple circuits with 50 mm pitch and overlapping edges to joint the panels firmly.

ART.	TOTAL THICKNESS	INSULATING THICKNESS	HEATED SURFACE (mm)	EPS	CODE	PACKAGING	
						N. PANELS	MQ
P105	32 mm	10 mm	1400x800	200	88P1053099	22	24,64
P105	42 mm	20 mm	1400x800	150	88P1054099	16	17,92
P105	52 mm	30 mm	1400x800	150	88P1055099	12	13,44
P105	62 mm	40 mm	1400x800	150	88P1056099	10	11,20
P105	72 mm	50 mm	1400x800	150	88P1057099	8	8,96

Art. P109



Flat insulating panel in rolls in EPS sintered expanded polystyrene foam, CE marked in compliance with UNI EN 13163 standard, laminated with a reflective film with a squared framework for providing 50 mm pitch and multiple circuits and with adhesive edges to fix the panels. Rolls are 10 m long. Suitable for 16-17-20 mm pipe.

ART.	THICKNESS	HEATED SURFACE (mm)	EPS	CODE	PACKAGING	
					N. PANELS	MQ
P109	20 mm	10.000x1.000	150	88P1090020	1	10
P109	30 mm	10.000x1.000	150	88P1090030	1	10
P109	40 mm	10.000x1.000	150	88P1090040	1	10

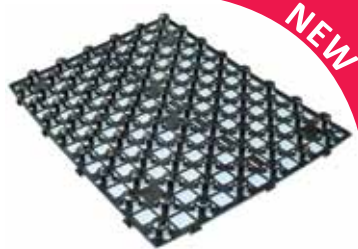
Art. P106



Thermal and acoustic insulating panel in EPS pre-formed sintered expanded polystyrene foam with double density (EPS200 + stretch), in compliance with EN 13163 Annex ZA standard. It is provided with a 600 micron walkable thermoformed shell with 22 mm reliefs. The edges are overlapping to joint the panels firmly. 50 mm pitch and multiple circuits. Suitable for 16-17 mm pipe.

ART.	TOTAL THICKNESS	INSULATING THICKNESS	ACOUSTIC INSULATION mm=dB	HEATED SURFACE (mm)	CODE	PACKAGING	
						N. PANELS	MQ
P106	47 mm	25 mm	50=31	1200x800	88P1065399	11	10,56
P106	57 mm	35 mm	50=32	1200x800	88P1066399	9	8,64

D1) THERMAL-ACOUSTIC INSULATION



Art. P107

Panel with hollow reliefs in recycled plastic including elastic EPS of blue colour, in compliance with Standard EN 13163.

The hollow reliefs allow the surface screed to wrap the panel, thus calculating the thickness of the screed from the base of the insulating panel and making it sufficient a height above the panel of only 10 mm.

Created to meet the growing demand for reduced thickness underfloor heating systems.

Benefits:

- Ideal for renovations
- Ideal for self-levelling screeds
- Low thickness
- Low thermal inertia

Suitable for 16mm and 17mm pipe; 50 mm pitch and multiple circuits.

ART.	TOTAL THICKNESS	INSULATING THICKNESS	HEATED SURFACE (mm)	EPS	STRUCTURE AND INSTALLATION	CODE	PACKAGING	
							N. PANELS	MQ
P107	30 mm	10 mm	800x600	250	Hollow reliefs and insulation	88P1072099	16	7,68



Art. P107A

Lowered panel with hollow reliefs in recycled plastic, no insulation, including an adhesive film for application on existing floor.

The hollow reliefs allow the surface screed to wrap the panel, thus calculating the thickness of the screed from the base of the insulating panel and making it sufficient a height above the panel of only 10 mm.

Created to meet the growing demand for reduced thickness underfloor heating systems.

Benefits:

- Ideal for renovations
- Ideal for self-levelling screeds
- Low thickness
- Low thermal inertia

Suitable for 16mm and 12mm pipe; 50 mm pitch and multiple circuits.

ART.	TOTAL THICKNESS	HEATED SURFACE (mm)	STRUCTURE AND INSTALLATION	CODE	PACKAGING	
					N. PANELS	MQ
P107A	15 mm	1200x600	Hollow reliefs and insulation	88P1072099A	22	15,84

D2) PEX AND MULTILAYER PIPES

Art. P198

High Density Polyethylene Cross-linked PE-Xa pipe, consisting of three layers, manufactured according to the peroxides method and the EN ISO 15875 standard; with EVOH anti-oxygen barrier according to DIN 4726 standard. Max. Temperature 95 ° C, working pressure 6 bar, minimum bend radius 5xD; natural colour.



NEW →

ART.	SIZE (mm)	AMOUNT OF WATER l/m	CODE	PACKAGING	METERS FOR PALLET
P198	12x1,1	0,063	88P198GB20098	200 m	5000
P198	16x2	0,113	88P198GH20098	200 m	3800
P198	17x2	0,133	88P198BS20098	200 m	3800
P198	17x2	0,133	88P198BS40098	400 m	3200
P198	17x2	0,133	88P198BS60098	600 m	4800
P198	20x2	0,200	88P198BQ60098	600 m	4200

Art. P200

High Density Polyethylene Cross-linked PE-Xc HD pipe, consisting of five layers, manufactured in compliance with EN ISO 15875 and DIN 16892/93 standards; with ECOH anti-oxygen barrier according to DIN 4726 standard. Max. Temperature 90°C; working pressure 8 Bar; minimum bend radius 5xD; natural colour.



ART.	SIZE (mm)	AMOUNT OF WATER l/m	CODE	PACKAGING	METERS FOR PALLET
P200	16x2	0,113	88P200GH60099	600 m	2400
P200	17x2	0,133	88P200BS20099	200 m	2400
P200	17x2	0,133	88P200BS40099	400 m	2400
P200	17x2	0,133	88P200BS60099	600 m	2400

Art. P197

Multilayer Polyethylene **PERT-AL-PERT** pipe, manufactured in compliance with EN ISO 15875 standard; white colour; Working temperature 70°C, Working pressure 6 Bar, Max temperature 95°C. PERT Polyethylene: Polyethylene of raised temperature resistance. Butt-welded aluminium core.



ART.	SIZE (mm)	ALUMINIUM THICKNESS	AMOUNT OF WATER l/m	CODE	PACKAGING	METERS FOR PALLET
P197	16x2	0,20 mm	0,113	88P197GH10099	100 m	2200
P197	16x2	0,20 mm	0,113	88P197GH50099	500 m	6000
P197	20x2	0,20 mm	0,200	88P197BQ10099	100 m	1400
P197	20x2	0,20 mm	0,200	88P197BQ50099	500 m	2500
P197	26x3	0,30 mm	0,314	88P197GP05099	50 m	700
P197	32x3	0,60 mm	0,531	88P197GQ05099	50 m	500

Art. P193

Multilayer Cross-linked Polyethylene **PE-Xc/AL/PE-Xb** pipe, manufactured in compliance with EN ISO 15875 standard; suitable for sanitary and heating systems. Working temperature 70°C; 10 Bar pressure; max. temperature 95°C; in compliance with DVGW BT 0628 and AQ 3181 standards. Butt-welded aluminium core. The pipe inner part is made of PE-Xc, the external one of PE-Xb. The aluminium minimum thickness is 0,3 mm.



ART.	SIZE (mm)	ALUMINIUM THICKNESS	AMOUNT OF WATER l/m	CODE	PACKAGING	METERS FOR PALLET
P193	16x2	0,30 mm	0,113	88P193GH20099	200 m	2400
P193	16x2	0,30 mm	0,113	88P193GH50099	500 m	6000
P193	20x2	0,40 mm	0,200	88P193BQ10099	100 m	1400
P193	26x3	0,60 mm	0,314	88P193GP05099	50 m	600
P193	32x3	0,80 mm	0,531	88P193GQ05099	50 m	500

D3) ACCESSORIES



Art. P100

Insulating adhesive perimeter strip made of closed-cell polyethylene foam, suitable for the installation of radiant panels. It absorbs the thermal dilatations of the panel and the film prevents the cements mixture from seeping in the lower part of the panel. Available in 50 mt rolls only.

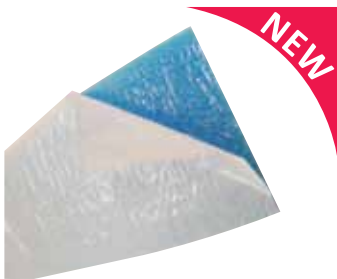
ART.	SIZE	CODE	PACKAGING	
P100	h. 150 mm	88P1000099	50 m	
P100	h. 250 mm	88P1002599	50 m	



Art. P108

Insulating adhesive perimeter strip made of closed-cell polyethylene foam, **L pre-formed and ideal for heat-insulating panels**. It absorbs the thermal dilatations of the panel and the film prevents the cements mixture from seeping in the lower part of the panel. Suitable for panel art. P106. Available in 25 mt rolls.

ART.	SIZE	THICKNESS	CODE	PACKAGING	
P108	h. 150 mm	8 mm	88P108FA99L	25 m	



Art. P118

Insulating adhesive perimeter strip for reduced thicknesses screeds in closed cell expanded polyethylene foam. It absorbs the thermal dilatations of the panel. Available in 20 m rolls.

ART.	SIZE	THICKNESS	CODE	PACKAGING	
P118	h. 80 mm	8 mm	88P118802099	20 m	



Art. P211

Polyethylene film. 0,10 mm Thickness. Available in 280 mq rolls. It is used below insulating panels to prevent moisture infiltration or in dry installations systems to avoid the friction between two different metals or components.

ART.	SIZE	CODE	PACKAGING	
P211	140x2 m	88P2110099	280 mq	



Art. P215

Polyamide 90° pipe bend for Ø 16-17-18-20 mm pipes; it can be placed during or after pipe installations and it is ideal for piping near manifolds.

ART.	SIZE (mm)	CODE	PACKAGING	
P215	16-18	88P215BG99	50	
P215	20	88P215BH99	50	

D3) ACCESSORIES

Art. P201

Impact-resistant plastic and self adhesive bar for Ø 16-17 and 20 mm pipes; 50 mm pitch and multiple circuits; 2 mt long.



ART.	PITCH	Ø PIPE	CODE	PACKAGING BOX	PACKAGING PALLET
P201	50	16-17	88P2011799	32 m	896 m
P201	50	20	88P2012099	32 m	896 m

Art. P216

Pipe fixing clip to be positioned between the reliefs. Suitable for thermoformed insulating panel art. P105 and P106.



ART.	Ø PIPE	CODE	PACKAGING
P216	16-17 mm	88P2160099	100 pcs.

Art. P202

Clip to manually fix Ø 16-17-20 mm pipes on flat panels.



ART.	SIZE	CODE	PACKAGING
P202	16-17-20 mm	88P2020099	500 pcs.

Art. P203

Clips to automatically fix the pipe. Made of plastic and adhesive-joined. Insertion with clip fixing tool. Ideal for flat panels.



ART.	PIPE SIZE	CODE	PACKAGING
P203	16-17-20 mm	88P2030099	300 pcs.

Art. P203 + Art. P204
= time saving

Art. P204

Pipe fixing tool with clips art. P203. It permits an upright position whilst, working minimizing fatigue.



ART.	CODE	PACKAGING
P204	88P2040099	1

D3) ACCESSORIES

Art. P214

Panel locking plug with 8 mm diameter for flat panels art.



ART.	Ø	CODE	PACKAGING	
P214	8 mm	88P2140099	100	

Art. P212

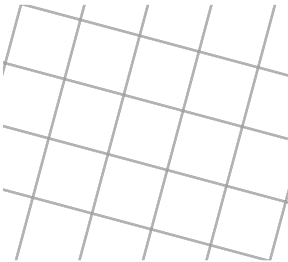
CLIP to be hooked to the grid with 3 mm wire, which enables to bury Ø 16-17-20 mm pipes in concrete.



ART.	Ø PIPE	CODE	PACKAGING	
P212	16-17-20 mm	88P2122099	1000	

Art. P219

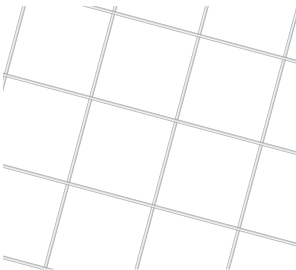
Glass fiber mesh. Size: 40x40 mm. Rolls: 50 mq, h=1 mt. It allows a better uniformity during the ripening step of the screed.



ART.		CODE	PACKAGING	
P219		88P2190099	50 mq	

Art. P208

Electrowelded mesh. Panel size 2x1 m, supplied in packages of 2 mq. It reinforces the concrete.



ART.	WIRE	MESH	CODE	PACKAGING	
P208	2 mm	70x70 mm	88P2080099	2 mq	
P208	3 mm	100x100 mm	88P2080399	2 mq	

Art. P205

Unwinder for pipes with max. 20 mm diameter and 600 mt. length. It can be supplied in a wooden case for housing and transportation.



ART.	CODE	PACKAGING	
P205	88P2050099	1	
P205 con cassa	88P2050098	1	

D3) ACCESSORIES



Art. P217

Expansion joint in expanded Polyethylene, density 50 kg/mc. H-shaped profile, adhesive stripe, red coloured. 2 mt. bar.

ART.	CODE	PACKAGING
P217	88P2170099	2 mt



Art. P207

Polypropylene fibers flakes to protect against plastic shrinkage cracks. The fibers must be added to the dry components before the mixture or to the ready dough in the cement mixer before casting; the minimum dosage recommended is a bag of 0.5 kg per m3 of concrete.

ART.	CODE	PACKAGING
P207	88P2070099	0,5 kg



Art. P206

Fluidising additive used to prepare cement mixtures. It reduces the use of water by 20-30%. It improves the density, thermal conductivity and workability of the screed. Dosage: 1 kg. per 100 kg. of cement. Chloride-free.

ART.	CODE	PACKAGING
P206	88P2061099	tank of 10 L.



Art. P226

Macro Synthetic Fiber made from extrusion of polypropylene-based synthetic polymers, with "wavy" profile, optimized for increasing the adhesion to cementitious matrix of the conglomerate. It reinforces concrete, increasing its ductility and toughness.

ART.	CODE	PACKAGING
P226	88P2260699	6 kg



Art. P220

Corrosion inhibitor liquid with bactericide to be used to fill in the system. It prevents carbonates to adhere and protects common metals from oxidation and corrosion. It contains a strong biocide able to considerably reduce the algae and biological products development in heating systems. Art. P220 forms a monomolecular protective film on the walls of the heating and cooling systems and removes the thermal and gaseous strains due to the coupling of different metals. Suitable for a good maintenance of the hydraulic circuit system. Dosage: 1,5% of the total water in the system.

ART.	DOSAGE	CODE	PACKAGING
P220	1,5 %	88P2200199	lt. 1

D4) DEHUMIDIFIERS

Art. P408-P409

Range of dehumidifiers for radiant air conditioning systems, in the versions for recessed wall mounting and for ceiling mounting.

Technical characteristics:

- Structure in galvanized steel plate
- Regenerative synthetic filter under G3 class
- Single-phase multispeed centrifugal fan
- Reciprocating hermetic compressor
- Ecological gas R134a
- Electronic led display board for management and control of all operating functions
- High silence level
- The models for ceiling mounting are also available in the cooling “-C” version

ART. P408



ART.	INSTALLATION	CONDENSED HUMIDITY l/24h	NOMINAL AIRFLOW RATE mc/h	AVAILABLE SENSITIVE POWER Watt	CODE	PACK.
P408-220	CEILING MOUNTING	22	220	-	88P408DHS220	1
P408-220C	CEILING MOUNTING	22	220	840	88P408DHS220C	1
P408-360	CEILING MOUNTING	36	360	-	88P408DHS360	1
P408-360C	CEILING MOUNTING	36	360	1340	88P408DHS360C	1

ART. P409



ART.	INSTALLATION	CONDENSED HUMIDITY l/24h	NOMINAL AIRFLOW RATE mc/h	AVAILABLE SENSITIVE POWER Watt	CODE	PACK.
P409-220C	RECESSED WALL	22	220	-	88P409DHP220	1

ACCESSORIES FOR WALL DEHUMIDIFIERS:

CODE	DESCRIPTION	PACK.
88P409220PWB	Recessed wall box	1
88P409220PPF	Front cover	1

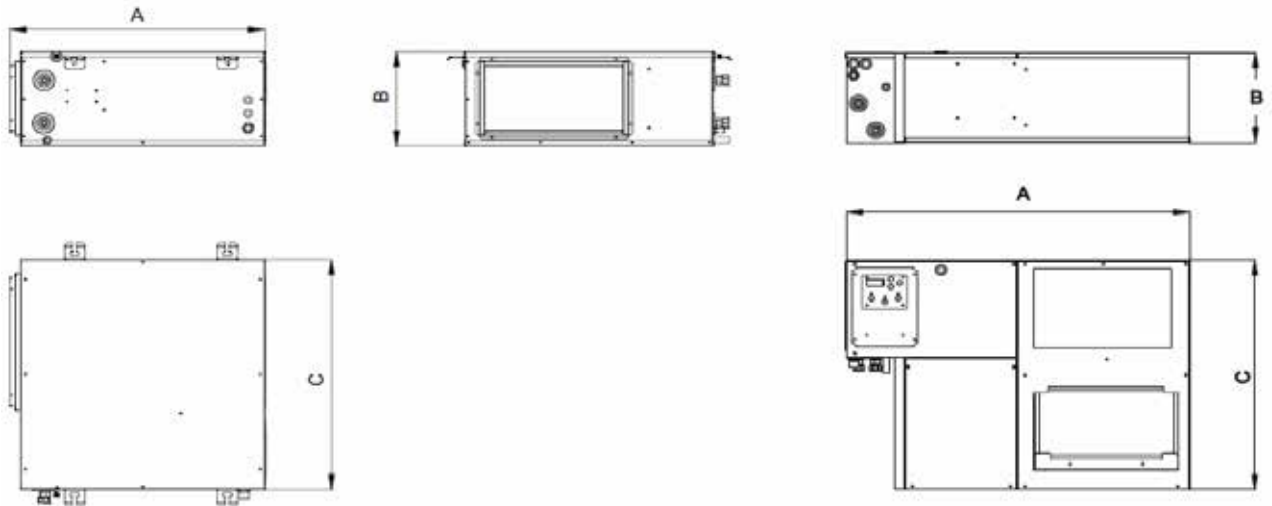
ACCESSORIES FOR DEHUMIDIFIERS:

ART.	CODE	DESCRIPTION	PACK.
P418	88P4180153	Recessed electronic humidistat	1

D4) DEHUMIDIFIERS

PERFORMANCE:

MODEL		P408-220	P408-220C	P408-360	P408-360C	P409-220P
Condensed humidity	l/24h	22		36		22
Evaporator capacity	W	1020		1480		1020
Heat load of water	W	870	1820	1540	2680	870
Nominal water flow rate	m ³ /h	0,34	0,39	0,46	0,55	0,34
Water pressure drop	kPa	3		10		3
Sensible cooling capacity	W	-	840	-	1340	-
Electrical supply	V/ph/Hz	230/1/50				
Total power input	W	350		580		350
Absorbed current	A	2,0		3,2		2,0
FAN						
Type		Double inlet centrifugal fan				
Available fan speeds		H / M / L				
Nominal fan speed set		M		M		M
Nominal airflow rate	m ³ /h	220		360		220
External static pressure	Pa	20		20		0
COMPRESSOR						
Type		Reciprocating hermetic				
Refrigerant	Type	R134a				
	Quantity	g	340	400	400	340
OPERATING RANGE						
Inlet air temperature	°C	15 ÷ 32				
Inlet water temperature (when dehumidifying)	°C	10 ÷ 21				
SOUND LEVEL						
Sound pressure level at 1 m	dB(A)	42		47		39



DHS	A (mm)	B (mm)	C (mm)	Peso (Kg)
220/220C	623	250	695	35
360/360C	623	270	795	40

DHP	A (mm)	B (mm)	C (mm)	Peso (Kg)
220	850	240	615	37

E) Regulation and control



WIRELESS CONTROL ROOM TEMPERATURE SYSTEMS

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NEW



WIRED CONTROL ROOM TEMPERATURE SYSTEMS

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NEW



WIRED CONTROL ROOM TEMPERATURE AND HUMIDITY SYSTEMS

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NEW

E1) WIRELESS CONTROL ROOM TEMPERATURE SYSTEMS



NEW

Art. P413

Battery-powered weekly electronic radio frequency chronothermostat. Setting range 2°C - 35°C; daily programs with 3 temperature levels. For Heating and Conditioning. To be combined with art. P414.

ART.	VOLTAGE	CODE	PACKAGING
P413	Battery power	88P4130199	1



NEW

Art. P414

Radiofrequency remote actuator with 6 channels on a DIN rail. It is designed to run air conditioning units, receiving control signals from thermostats and chronothermostats via radio frequency or wire. It has 6 relays to control up to 6 zone valves; an additional relay for the connection to the circulating pump automatically starts the circulating pump when at least one of the 6 outputs is active.

ART.	VOLTAGE	CODE	PACKAGING
P414	230 volt	88P4140653	1

E2) WIRED CONTROL ROOM TEMPERATURE SYSTEMS



Art. P308

Relay module, 6 or 12 ways, for underfloor heating systems. It receives the signal from the room thermostat and addresses it to the electrothermic actuator. It allows to rationalize the wire passage in the manifold box.

ART.	VOLTAGE	OUTLETS	CODE	PACKAGING
P308	230 volt	6	88P3080653	1
P308*	230 - 24 volt	6	88P3080654	1
P308	230 volt	12	88P3081253	1
P308*	230 - 24 volt	12	88P3081254	1
P308	230 - 24 volt	8	88P3080854P	1

* The codes marked by an asterisk are capable of receiving any power voltage. All actuators must bear the same power voltage.



NEW

Art. P410

Battery-powered daily digital chronothermostat with lock-in time band pointers. Setting range 5°C - 35°C. For Heating and Conditioning.


ART.	VOLTAGE	CODE	PACKAGING
P410	Battery power	88P4100199	1

E2) WIRED CONTROL ROOM TEMPERATURE SYSTEMS



Art. P411

Battery-powered weekly electronic chronothermostat. Setting range 0°C - 37,7°C; 3 temperature levels. For Heating and Conditioning.

ART.	VOLTAGE	CODE	PACKAGING	
P411	Battery power	88P4110199	 1	



Art. P412

Battery-powered weekly electronic chronothermostat. Setting range 2°C - 35°C; daily programs with 3 temperature levels. For Heating and Conditioning.

ART.	VOLTAGE	CODE	PACKAGING	
P412	Battery power	88P4120199	 1	



Art. P415


Chronothermostat with weekly programming and integrated GSM module. Thanks to the integrated GSM module you can manage the chronothermostat remotely by sending sms from your mobile phone. Setting range 2°C - 35°C; daily programs with 3 temperature levels. For Heating and Conditioning.

ART.	VOLTAGE	CODE	PACKAGING	
P415	230 volt	88P4150153	 1	



Art. P416

Electronic ambient thermostat with LCD display. Setting range 2°C - 35°C.

ART.	VOLTAGE	CODE	PACKAGING	
P416	Battery power	88P4160199	 1	

E2) WIRED CONTROL ROOM TEMPERATURE SYSTEMS



Art. P417

Flush-mounting thermostat with LCD display and battery-supply. The product is provided with frames, to make it suitable for plates of the most common domestic range. Setting range 2°C - 35°C. For Heating and Conditioning. The package contains white and anthracite grey frames.

ART.	VOLTAGE	CODE	PACKAGING
P417	Battery power	88P4170199	1



Art. P311

Electromechanical room thermostat with on-off signal light and switch. Setting range 5 ° C - 30 ° C.

ART.	VOLTAGE	CODE	PACKAGING
P311	230 volt	88P3110153	1

E3) WIRED CONTROL ROOM TEMPERATURE AND HUMIDITY SYSTEMS



Art. P418

Electronic flush-mounting humidistat with mains supply. The product is provided with frames, to make it suitable for plates of the most common domestic range. Setting range 30+90 RH. The package contains white and anthracite grey frames.

ART.	VOLTAGE	CODE	PACKAGING
P418	230 volt	88P4180153	1



Art. P419

Weekly programmable thermostat with built-in humidity sensor for temperature regulation and room humidity control. Temperature setting range 2°C - 35°C., humidity setting range 30+90 RH, daily programs with 3 temperature levels. For heating and air conditioning.

ART.	VOLTAGE	CODE	PACKAGING
P419	Battery power	88P4190199	1

F) Flow rate and temperature control valves



**BALANCING VALVES FOR HYDRAULIC CIRCUITS, HYDRAULIC
COMPENSATORS AND STUBS**

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THERMOSTATIC MIXERS, SHOCK ABSORBERS, MIXING VALVES

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***For solar THERMOSTATIC MIXING and DIVERTING
VALVES see chapter I***

F1) BALANCING VALVES FOR HYDRAULIC CIRCUITS, HYDRAULIC COMPENSATORS AND STUBS



Art. C298

Calibration and balancing valve for heating, cooling and sanitary systems. Equipped with a calibration display and antitampering setting lock. When the value of the valve is set, it can be opened or closed, but not at a higher kv value than the one set. PN20, max. working temperature 120°C, EPDM gaskets, brass body. 1" M e 1" F connections (revolving nut).

ART.	SIZE	DN	KVS	CODE	PACKAGING
C298	1" M-1" F	20	5,10	92C298AE05	1

Art. C299

Calibration and balancing valve for heating, cooling and sanitary systems. Equipped with a calibration display and antitampering setting lock. When the value of the valve is set, it can be opened or closed, but not at a higher kv value than the one set. PN20, max. working temperature 120°C, EPDM gaskets, brass body.



ART.	SIZE	DN	KVS	CODE	PACKAGING
C299	1/2"	15	3,55	92C299AD05	1
C299	3/4"	20	5,10	92C299AE05	1
C299	1"	25	8,80	92C299AF05	1
C299	1"1/4	32	14,10	92C299AG05	1
C299	1"1/2	40	19,50	92C299AH05	1
C299	2"	50	31,50	92C299AJ05	1

Art. C300

Calibration and balancing valve with threaded connections and self-sealing measuring sockets for heating, cooling and sanitary systems. Equipped with a calibration display and antitampering setting lock. When the value of the valve is set, it can be opened or closed, but not at a higher kv value than the one set. PN20, max. working temperature 120°C, EPDM gaskets, brass body.



ART.	SIZE	DN	KVS	CODE	PACKAGING
C300	1/2"	15	3,55	92C300AD05	1
C300	3/4"	20	5,10	92C300AE05	1
C300	1"	25	8,80	92C300AF05	1
C300	1"1/4	32	14,10	92C300AG05	1
C300	1"1/2	40	19,50	92C300AH05	1
C300	2"	50	31,50	92C300AJ05	1

F1) BALANCING VALVES FOR HYDRAULIC CIRCUITS, HYDRAULIC COMPENSATORS AND STUBS

Art. C301

Calibration and balancing valve with flanged connections and self-sealing measuring sockets for heating, cooling and sanitary systems. Flanged body in cast iron. Equipped with a calibration display and antitampering setting lock. When the value of the valve is set, it can be opened or closed, but not at a higher kv value than the one set. PN16, max. working temperature 120°C, EPDM gaskets.



ART.	DN	KVS	CODE	PACKAGING
C301	65	93,50	92C301AK05	1
C301	80	110,00	92C301AL05	1
C301	100	190,00	92C301AN05	1
C301	125	301,00	92C301AP05	1
C301	150	425,00	92C301AR05	1

Art. C302

Calibration and balancing valve with flanged connections and self-sealing measuring sockets for heating, cooling and sanitary systems. Flanged body in cast iron. PN16, max. working temperature 120°C, teflon and EPDM gaskets.



ART.	DN	KVS	CODE	PACKAGING
C302	200	600	92C302AS05	1
C302	250	1210	92C302AT05	1
C302	300	1521	92C302AU05	1

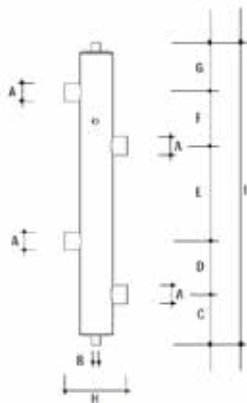
Art. C320

Pump delivery and pressure meter. Suitable for balancing of heating, cooling and sanitary circuits. The device can store and transfer data to an excel file via Bluetooth.



ART.	CODE	PACKAGING
C320	92C3200199	1

F1) BALANCING VALVES FOR HYDRAULIC CIRCUITS, HYDRAULIC COMPENSATORS AND STUBS

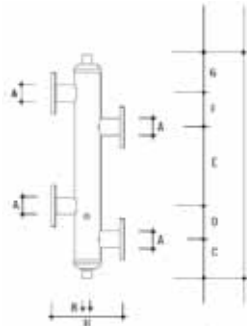


Art. C303

Hydraulic separator for heating systems. It is used to keep the primary and the secondary hydraulic circuits separated, allowing them to operate autonomously. Threaded female connections. Max. working pressure 10 bar, max. working temperature 100°C.

ART.	SIZE	CODE	PACKAGING
C303	1"	92C303AF06	1
C303	1"1/4	92C303AG06	1
C303	1"1/2	92C303AH06	1
C303	2"	92C303AJ06	1

ART.	A	B	C	D	E	F	G	H	I
C303	1"	3/8"	127	150	150	150	127	135	704
C303	1"1/4	3/8"	127	150	250	150	127	175	804
C303	1"1/2	3/8"	127	150	250	150	127	175	804
C303	2"	3/8"	127	150	350	150	127	201	904



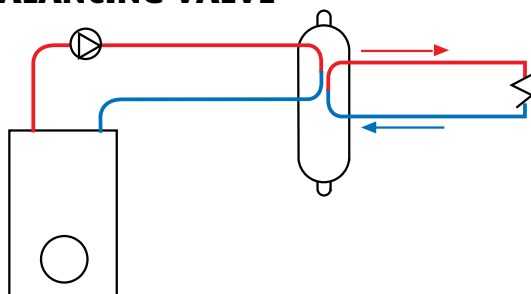
Art. C304

Hydraulic separator for heating systems. It is used to keep the primary and the secondary hydraulic circuits separated, allowing them to operate autonomously. Flanged connections. Max. working pressure 10 bar, max. working temperature 100°C.

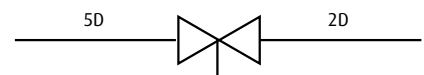
ART.	DN	CODE	PACKAGING
C304	50	92C304AJ06	1
C304	65	92C304AK06	1
C304	80	92C304AL06	1
C304	100	92C304AN06	1
C304	125	92C304AP06	1
C304	150	92C304AR06	1
C304	200	92C304AS06	1
C304	250	92C304AT06	1

ART.	A	B	C	D	E	F	G	H	I
C304	DN50	1/2"	163	150	350	150	172	314	985
C304	DN65	1/2"	163	150	350	150	172	314	985
C304	DN80	1/2"	222	200	300	200	231	340	1153
C304	DN100	1/2"	237	200	300	200	246	368	1183
C304	DN125	1"	303	300	600	300	303	623,9	1806
C304	DN150	1"	350	300	600	300	350	655,6	1900
C304	DN200	1"	448	350	650	350	398	706	2196
C304	DN250	1"	465	450	650	450	465	808	2480

HYDRAULIC SEPARATOR / BALANCING VALVE

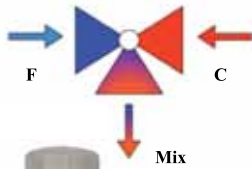


INSTALLATION SCHEME



For a correct installation of the balancing valve, leave a draft of pipe of length equal to 5 times the nominal diameter upstream the valve, equal to twice downstream. Such drafts must be linear, without curves or diameter changes to avoid turbulences which can compromise the regulations.

F2) THERMOSTATIC MIXERS, SHOCK ABSORBERS, MIXING VALVES

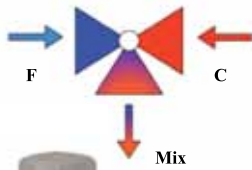


Art. 148

Thermostatic mixer, with tails on the three ways. Max. working pressure 10 bars, max. working temperature 85°C, temperature setting on mixed way 30-65°C. Side hot/cold water inlets, **lower mixed way.**



ART.	SIZE	Kv m ³ /h	CODE	PACKAGING	
148	1/2"	1,5	90148AD05	1	
148	3/4"	2	90148AE05	1	
148	1"	3	90148AF05	1	

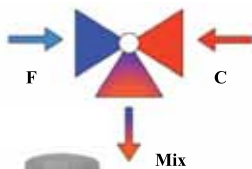


Art. 149

Thermostatic mixer with female connections. Max. working pressure 10 bars, max. working temperature 85°C, temperature setting on mixed way 30-65°C. Side hot/cold water inlets, **lower mixed way.**



ART.	SIZE	Kv m ³ /h	CODE	PACKAGING	
149	1/2"	1,5	90149AD05	1	
149	3/4"	2	90149AE05	1	
149	1"	3	90149AF05	1	

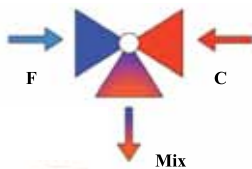


Art. 165

Thermostatic mixer with tails on the three ways, **check valve on hot/cold ways.** Max. working pressure 10 bars, max. working temperature 85°C. Temperature setting on mixed way 30-65°C. Side hot/cold water inlets, **lower mixed way.**



ART.	SIZE	Kv m ³ /h	CODE	PACKAGING	
165	3/4"	2	90165AE05	1	10



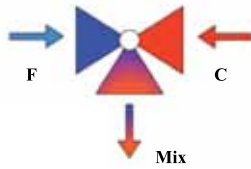
Art. 166

Thermostatic mixer with male connections. Max. working pressure 10 bars, max. working temperature 85°C, temperature setting on mixed way 30-65°C. Side hot/cold water inlets, **lower mixed way.**



ART.	SIZE	Kv m ³ /h	CODE	PACKAGING	
166	1"	2	90166AE05	1	10
166	1 1/4"	3	90166AF05	1	10

F2) THERMOSTATIC MIXERS, SHOCK ABSORBERS, MIXING VALVES

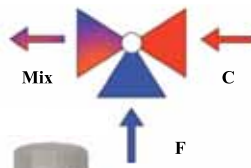


Art. 163

Thermostatic mixer for 22 mm diam. copper piping with fittings on the three ways. Max. working pressure 10 bars, max. working temperature 85°C, temperature setting on mixed way 30-65°C. Side hot/cold water inlets, **lower mixed way**.



ART.	SIZE	CODE	PACKAGING
163	22 mm	90163BJ05	1

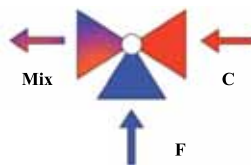


Art. 142

Thermostatic mixer, with tails on the three ways. Max. working pressure 10 bars, max. working temperature 85°C, temperature setting on mixed way 30-65°C. Hot water side inlet, cold water lower inlet, **side mixed way**.



ART.	SIZE	Kv m ³ /h	CODE	PACKAGING
142	1/2"	1,5	90142AD05	1
142	3/4"	2	90142AE05	1

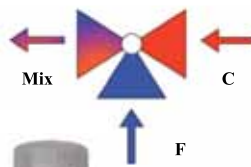


Art. 143

Thermostatic mixer with female connections. Max. working pressure 10 bars, max. working temperature 85°C, temperature setting on mixed way 30-65°C. Hot water side inlet, cold water lower inlet, **side mixed way**.



ART.	SIZE	Kv m ³ /h	CODE	PACKAGING
143	1/2"	1,5	90143AD05	1
143	3/4"	2	90143AE05	1



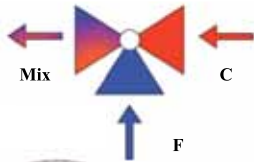
Art. 144

Thermostatic mixer, with tails on the three ways, **check valves on hot/cold water ways**. Max. working pressure 10 bars, max. working temperature 85°C, temperature setting on mixed way 30-65°C. Hot water side inlet, cold water lower inlet, **side mixed way**.



ART.	SIZE	Kv m ³ /h	CODE	PACKAGING
144	3/4"	2	90144AE05	1

F2) THERMOSTATIC MIXERS, SHOCK ABSORBERS, MIXING VALVES



Art. 145

Thermostatic mixer with male connections. Max. working pressure 10 bars, max. working temperature 85°C, temperature setting on mixed way 30-65°C. Hot water side inlet, cold water lower inlet, **side mixed way.**



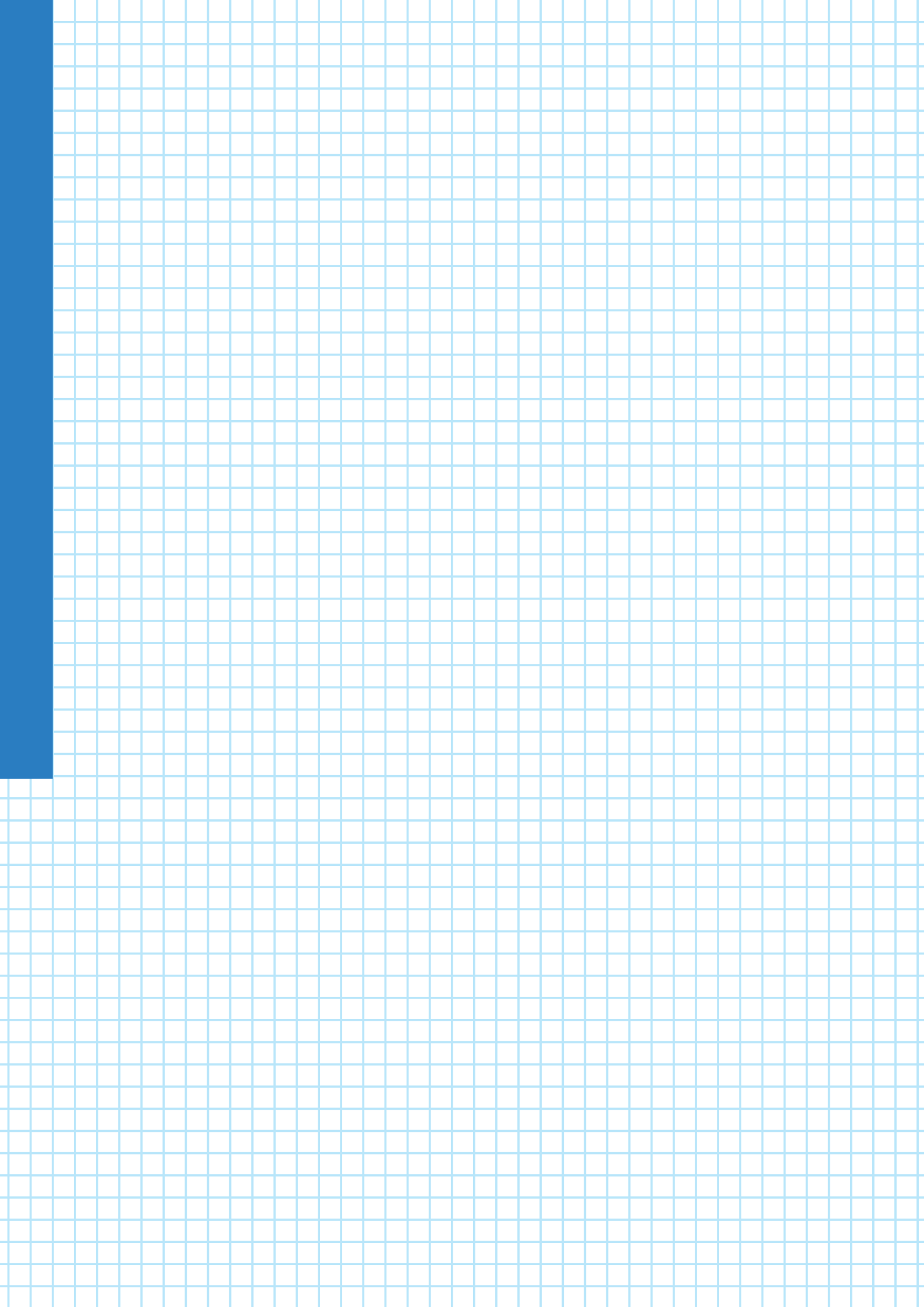
ART.	SIZE	Kv m ³ /h	CODE	PACKAGING	
145	1"	2	90145AF05	1	

Art. S119

Shock absorber, connection 1/2", in stainless steel, capacity 0-16 l.



ART.	SIZE	CODE	PACKAGING	
S119	1/2"	91S119AD06	1	



G) Components for water distribution



PRESSURE REDUCERS FOR WATER

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FILTERS AND NON RETURN VALVES, GATE VALVES, DIRT SEPARATORS, CHECK AND FOOT VALVES

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MULTILAYER GAS PIPE AND *Sempigas*, FITTINGS WITH TH PROFILE

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Sempigas[®]



MULTILAYER PIPE AND *Sempiter* PRESS FITTINGS. MULTICLIP TH, H, U

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Sempiter[®]
Easy: Forever

MULTICLIP
TH - H - U

For further information on the unique characteristics of the Sempiter press fittings please read the introduction pages in chapter G4.



UNDER-SINK REGULATING VALVES

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EQUIPMENT FOR PRESS-FITTINGS *Sempiter* AND *Sempigas* AND MULTILAYER PIPING

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UNIVERSAL FITTING FOR MULTILAYER PIPE, PEX AND COPPER

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FITTINGS

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FITTINGS FOR COOLING SYSTEMS

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SCREW FITTINGS WITH O-RING SEAL FOR COPPER PIPING, FOR WATER AND GAS

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G1) PRESSURE REDUCERS FOR WATER

Art. 245

Pressure reducer with female tail connections. Two 1/4" connections for manometers. Piston technology, 18/10 inox steel. Max.inlet pressure 25 bar, adjustable outlet pressure from 1 bar to 6 bar (company setting 3 bar), max. working temperature 90°C. The product complies the EN1567 standard.



We suggest to install the pressure reducer with our art.50, at page 120

ART.	SIZE	CODE	PACKAGING	
245	1/2"	91245AD05	1	20
245	3/4"	91245AE05	1	10
245	1"	91245AF05	1	10
245	1" 1/4	91245AG05	1	5
245	1" 1/2	91245AH05	1	5
245	2"	91245AJ05	1	1

Art. 245 + Art. 243

Pressure reducer with female tail connections. Two 1/4" connections for manometers. Piston technology, 18/10 inox steel. Max.inlet pressure 25 bar, adjustable outlet pressure from 1 bar to 6 bar (company setting 3 bar), max. working temperature 90°C. With pressure gauge. The product complies the EN1567 standard.



We suggest to install the pressure reducer with our art.50, at page 120

ART.	SIZE	CODE	PACKAGING	
245+243	1/2"	91245AD05 243	1	20
245+243	3/4"	91245AE05 243	1	10
245+243	1"	91245AF05 243	1	10
245+243	1" 1/4	91245AG05 243	1	5
245+243	1" 1/2	91245AH05 243	1	5
245+243	2"	91245AJ05 243	1	1

Art. 246

Female pressure reducer. Two 1/4" connections for manometers. Piston technology, 18/10 inox steel. Max. inlet pressure 25 bar, adjustable outlet pressure from 1 bar to 6 bar (company setting 3 bar), max. working temperature 90°C. The product complies the EN1567 standard.



We suggest to install the pressure reducer with our art.50, at page 120

ART.	SIZE	CODE	PACKAGING	
246	1/2"	91246AD05	1	20
246	3/4"	91246AE05	1	10
246	1"	91246AF05	1	10
246	1"1/4	91246AG05	1	5
246	1"1/2	91246AH05	1	5
246	2"	91246AJ05	1	1
246	2"1/2	91246AK05	1	1

Art. 246 + Art. 243

Female pressure reducer. Two 1/4" connections for manometers. Piston technology, 18/10 inox steel. Max. inlet pressure 25 bar, adjustable outlet pressure from 1 bar to 6 bar (company setting 3 bar), max. working temperature 90°C. With pressure gauge. The product complies the EN1567 standard.



We suggest to install the pressure reducer with our art.50, at page 120

ART.	SIZE	CODE	PACKAGING	
246+243	1/2"	91246AD05 243	1	20
246+243	3/4"	91246AE05 243	1	10
246+243	1"	91246AF05 243	1	10
246+243	1"1/4	91246AG05 243	1	5
246+243	1"1/2	91246AH05 243	1	5
246+243	2"	91246AJ05 243	1	1
246+243	2"1/2	91246AK05 243	1	1

G1) PRESSURE REDUCERS FOR WATER



Art. 271

Pressure reducer with male tail connections. Two 1/4" connections for manometers. Piston technology, 18/10 inox steel. Max. inlet pressure 25 bar, adjustable outlet pressure from 1 bar to 6 bar (company setting 3 bar), max. working temperature 90°C. The product complies the EN1567 standard.



We suggest to install the pressure reducer with our art.50, at page 120

ART.	SIZE	CODE	PACKAGING	
271	1/2"	91271AD05	1	20
271	3/4"	91271AE05	1	10
271	1"	91271AF05	1	10
271	1" 1/4	91271AG05	1	5



Art. 271 + Art. 243

Pressure reducer with male tail connections. Two 1/4" connections for manometers. Piston technology, 18/10 inox steel. Max.inlet pressure 25 bar, adjustable outlet pressure from 1 bar to 6 bar (company setting 3 bar), max. working temperature 90°C. With pressure gauge. The product complies the EN1567 standard.



We suggest to install the pressure reducer with our art.50, at page 120

ART.	SIZE	CODE	PACKAGING	
271+243	1/2"	91271AD05 243	1	20
271+243	3/4"	91271AE05 243	1	10
271+243	1"	91271AF05 243	1	10
271+243	1" 1/4	91271AG05 243	1	5



Art. 247

Female pressure reducer. 1/4" connection for manometer. Piston technology, max.inlet pressure 16 bar, adjustable outlet pressure from 1 bar to 4 bar (company setting 3 bar), max. working temperature 90°C.



We suggest to install the pressure reducer with our art.50, at page 120

ART.	SIZE	CODE	PACKAGING	
247	1/2"	91247AD06	1	50
247	3/4"	91247AE06	1	50



Art. 248

Female pressure reducer. Piston technology, max.inlet pressure 16 bar, adjustable outlet pressure from 1 bar to 4 bar (company setting 3 bar), max. working temperature 90°C.



We suggest to install the pressure reducer with our art.50, at page 120

ART.	SIZE	CODE	PACKAGING	
248	1/2"	91248AD06	1	50
248	3/4"	91248AE06	1	50

G2) FILTERS AND NON RETURN VALVES, GATE VALVES, DIRT SEPARATORS, CHECK AND FOOT VALVES



Art. 750

Self-cleaning, female/female and male/male water filter, with extractable, filtering cartridge in stainless steel, pressure gauge and drain cock, with rubber connection. Filtering degree 100 µ. Max. working pressure 25 bars, Max. working temperature 90°C. The connections bear female/male thread on both sides, up to 1"1/4 female. The sizes 1"1/2 and 2" are available with female thread only. Replacement filtering cartridge art.752.

ART.	FEMALE SIZE	MALE SIZE	CODE	PACKAGING	
750	1/2"	3/4"	83750AD05	1	10
750	3/4"	1"	83750AE05	1	10
750	1"	1"1/4	83750AF05	1	10
750	1"1/4	1"1/2	83750AG05	1	10
750	1"1/2	-	83750AH05	1	5
750	2"	-	83750AJ05	1	5



Art. 751

Self-cleaning water filter with male unions. Extractable and filtering cartridge in stainless steel, pressure gauge and drain cock with rubber connection. Filtering degree 100 µ. Max. working pressure 25 bars. Max. working temperature 90°C. Replacement filtering cartridge art.752.

ART.	SIZE	CODE	PACKAGING	
751	1/2"	83751AD05	1	10
751	3/4"	83751AE05	1	10
751	1"	83751AF05	1	10
751	1"1/4	83751AG05	1	10



Art. 752

Cartridge for filter art. 750 and art. 751.

ART.	SIZE	CODE	PACKAGING	
752	1/2" - 3/4"	83752AD01	1	
752	1" - 1"1/4	83752AF01	1	
752	1"1/2 - 2"	83752AH01	1	



Art. 745

F/F dirt separator for heating/cooling systems, equipped with ball drain cock and rubber holder. Max. working pressure 10 bars, max. working temperature 110°C, stainless steel mesh.

ART.	SIZE	CODE	PACKAGING	
745	3/4"	82745AE05	1	10
745	1"	82745AF05	1	10
745	1"1/4	82745AG05	1	10
745	1"1/2	82745AH05	1	10



NEW

Art. 746

F-F dirt separator for heating and cooling systems provided with a removable magnetic cartridge to collect ferrous impurities and a drain cock with hose. Max. working pressure 10 bars, Max. working temperature 110°C, stainless steel mesh. Magnetic field strength of 10.500 Gauss.



ART.	SIZE	CODE	PACKAGING	
746	3/4"	82746AE05	1	10
746	1"	82746AF05	1	10
746	1"1/4	82746AG05	1	10
746	1"1/2	82746AH05	1	10

G2) FILTERS AND NON RETURN VALVES, GATE VALVES, DIRT SEPARATORS, CHECK AND FOOT VALVES

NEW



Art. 747

Compact dirt separator for under-boiler installation with a removable magnetic cartridge to collect ferrous impurities and a drain cock with hose. Max. working pressure 10 bars, Max. working temperature 110°C, stainless steel mesh. Magnetic field strength of 10.500 Gauss.



ART.	SIZE	FINISH	CODE	PACKAGING	
747	3/4"	BRASS	82747AE05	1	10
747	3/4"	NICKEL PLATED	82747AE06	1	10
747	3/4"	HIGH CHROME	82747AE07	1	10
747	3/4"	WHITE	82747AE13	1	10



Art. 748

Compact dirt separator for under-boiler installation with drain cock with hose. Max. working pressure 10 bars, Max. working temperature 110°C., stainless steel mesh.

ART.	SIZE	FINISH	CODE	PACKAGING	
748	3/4"	BRASS	82748AE05	1	10
748	3/4"	NICKEL PLATED	82748AE06	1	10
748	3/4"	HIGH CHROME	82748AE07	1	10
748	3/4"	WHITE	82748AE13	1	10

NEW

Art. 744

Magnetic candle for dirt separator art. 746. It can also be installed on the dirt separator art. 745 to be converted into a magnetic one. Magnetic field strength of 10.500 Gauss.



ART.	SIZE	CODE	PACKAGING
744	1/2"	82744AD05	1

NEW

Art. 749

Magnetic candle for dirt separator art. 747. It can also be installed on the dirt separator art. 748 to be converted into a magnetic one. Magnetic field strength of 10.500 Gauss.



ART.	SIZE	FINISH	CODE	CONF.
749	1/2"	BRASS	82749AD05	1
749	1/2"	NICKEL PLATED	82749AD06	1
749	1/2"	HIGH CHROME	82749AD07	1
749	1/2"	WHITE	82749AD13	1

G2) FILTERS AND NON RETURN VALVES, GATE VALVES, DIRT SEPARATORS, CHECK AND FOOT VALVES

Art. 50

Y strainer to hold impurity. Filter degree 400-500 micron. On demand: 200 µ.



ART.	SIZE	FILTER DEGREE	CODE	PACKAGING	
50	1/4"	200 µ	83050AB05200	20	200
50	3/8"	200 µ	83050AC05200	20	200
50	1/2"	200 µ	83050AD05200	20	200
50	3/4"	200 µ	83050AE05200	20	140
50	1"	200 µ	83050AF05200	10	70
50	1/4"	400 µ	83050AB05	20	200
50	3/8"	400 µ	83050AC05	20	200
50	1/2"	400 µ	83050AD05	20	200
50	3/4"	400 µ	83050AE05	20	140
50	1"	400 µ	83050AF05	10	70
50	1" 1/4	500 µ	83050AG05	10	50
50	1" 1/2	500 µ	83050AH05	5	30
50	2"	500 µ	83050AJ05	2	20
50	2" 1/2	500 µ	83050AK05	1	15
50	3"	500 µ	83050AL05	1	10
50	4"	500 µ	83050AN05	1	1

Art. 96

Y strainer to hold impurity with flat seat. Filter degree 400 micron. Recommended to protect domestic flowmeters.



ART.	SIZE	FILTER DEGREE	CODE	PACKAGING	
96	3/4"	400 µ	83096AE05	20	140
96	1"	400 µ	83096AF05	10	70

Art. 277

Ball valve with built-in strainer. Filter degree 400 micron. Revolving nut and flat seat. Male 3/4" / Female 1". Recommended to protect domestic flowmeters.



ART.	SIZE	COLOUR	CODE	PACKAGING
277	3/4"	BLACK	87277AE05	1

G2) FILTERS AND NON RETURN VALVES, GATE VALVES, DIRT SEPARATORS, CHECK AND FOOT VALVES

Art. 276

Ball valve with revolving nut and flat seat. Male 3/4" / Female 3/4".



ART.	SIZE	COLOUR	CODE	PACK.
276	3/4"x3/4"	RED	87276AE11	1
276	3/4"x3/4"	BLUE	87276AE12	1

Art. 53

Non return valve, "MONDIAL". Brass shutter.



ART.	SIZE	CODE	PACKAGING	
53	1/2"	83053AD05	1	250
53	3/4"	83053AE05	1	120
53	1"	83053AF05	1	80
53	1"1/4	83053AG05	1	70
53	1"1/2	83053AH05	1	50
53	2"	83053AJ05	1	25
53	2"1/2	83053AK05	1	18
53	3"	83053AL05	1	14
53	4"	83053AN05	1	8

Art. 118

Filter for non return valve.



ART.	SIZE	CODE	PACKAGING	
118	1/2"	83118AD05	1	250
118	3/4"	83118AE05	1	120
118	1"	83118AF05	1	80
118	1"1/4	83118AG05	1	70
118	1"1/2	83118AH05	1	50
118	2"	83118AJ05	1	25
118	2"1/2	83118AK05	1	18
118	3"	83118AL05	1	14
118	4"	83118AN05	1	8

Art. 40

Brass gate valve. Full bore passage PN 10.



ART.	SIZE	CODE	PACKAGING
40	1/4"	83040AB05	20
40	3/8"	83040AC05	20
40	1/2"	83040AD05	20
40	3/4"	83040AE05	20
40	1"	83040AF05	10
40	1"1/4	83040AG05	10
40	1"1/2	83040AH05	5
40	2"	83040AJ05	5
40	2"1/2	83040AK05	1
40	3"	83040AL05	1
40	4"	83040AN05	1

G2) FILTERS AND NON RETURN VALVES, GATE VALVES, DIRT SEPARATORS, CHECK AND FOOT VALVES

Art. 41

Brass gate valve. Full bore passage PN 20.



ART.	SIZE	CODE	PACKAGING	
41	1/2"	83041AD05	20	
41	3/4"	83041AE05	20	
41	1"	83041AF05	10	
41	1"1/4"	83041AG05	10	
41	1"1/2"	83041AH05	5	
41	2"	83041AJ05	5	
41	2"1/2"	83041AK05	1	
41	3"	83041AL05	1	
41	4"	83041AN05	1	

Art. 51

Check valve with metallic seat.



ART.	SIZE	CODE	PACKAGING	
51	3/8"	83051AC05	1	150
51	1/2"	83051AD05	1	150
51	3/4"	83051AE05	1	100
51	1"	83051AF05	1	100
51	1" 1/4"	83051AG05	1	60
51	1"1/2"	83051AH05	1	50
51	2"	83051AJ05	1	25
51	2" 1/2"	83051AK05	1	18
51	3"	83051AL05	1	10
51	4"	83051AN05	1	5

Art. 52

Check valve with rubber seat.



ART.	SIZE	CODE	PACKAGING	
52	3/8"	83052AC05	1	150
52	1/2"	83052AD05	1	150
52	3/4"	83052AE05	1	100
52	1"	83052AF05	1	100
52	1" 1/4"	83052AG05	1	60
52	1"1/2"	83052AH05	1	50
52	2"	83052AJ05	1	25
52	2" 1/2"	83052AK05	1	18
52	3"	83052AL05	1	10
52	4"	83052AN05	1	5

Art. 49

Brass foot valve with pattern filter.



ART.	SIZE	CODE	PACKAGING	
49	3/8"	83049AC05	1	
49	1/2"	83049AD05	1	200
49	3/4"	83049AE05	1	150
49	1"	83049AF05	1	100
49	1" 1/4"	83049AG05	1	60
49	1"1/2"	83049AH05	1	50
49	2"	83049AJ05	1	30
49	2" 1/2"	83049AK05	1	15
49	3"	83049AL05	1	15
49	4"	83049AN05	1	5

G3) MULTILAYER GAS PIPE AND *Sempigas*®, PRESS FITTINGS WITH TH PROFILE

ICMA presents a NEW range of press-fittings for GAS installations.

Icma SEMPIGAS fittings offer the highest safety in domestic gas installations, enabling to realize domestic gas and lpg supply systems SAFELY, SIMPLY AND QUICKLY.

The SEMPIGAS fittings **ADVANTAGES** are:

- *Quick and reliable installation compared to traditional systems*
- *High flow rate thanks to the low internal roughness of the fitting*
- *Complete range with many sizes*
- *High quality materials*

Icma SEMPIGAS fittings are available in 16 -20 - 26 sizes.

Technical features:

Gas category

Natural GAS and LPG

Max. operating pressure

0,5 bar

Temperature Range

from -20°C to +70°C

HIGH CORROSION RESISTANCE TO MARINE ENVIRONMENTS.

The SEMPIGAS fittings and piping system complies with UNI 11344: 2014 as certified by the KIWA Certification Body.



G3) MULTILAYER GAS PIPE AND *Sempigas*®, PRESS FITTINGS WITH TH PROFILE



Numero KIP-078495/012

Sostituisce KIP-078495/01

Emesso 14.05.2014

Prima Emissione 25.06.2013

Rapporto 130100797

Contratto K10-14

CERTIFICATO DI PRODOTTO KIWA-UNI PRODUCT CERTIFICATE KIWA-UNI

Kiwa Italia dichiara che i prodotti
Kiwa Italia hereby declare that the products

Sistemi di tubazioni multistrato metallo plastiche e raccordi per installazione interna per il trasporto del gas
Metal-plastic multilayer piping systems and fittings for indoor installation for the conveyance of gaseous fuels

Marchio del sistema/System Trade mark:

Icma Sempigas

composto da/made of:

Tubo multistrato/Multilayer Pipe:

PE-Xc/Al/PE-Xb

Raccordi/Fittings:

Brass press fittings

Model	Nominal dm and wall thickness	Layers Material	Type	Fittings
Icma Sempigas	Dn16x2,0 Al0,40	PE-Xc/Al/PE-Xb	MOP 0,5GAS	Brass press fittings profile TH
Icma Sempigas	Dn20x2,0 Al0,50	PE-Xc/Al/PE-Xb	MOP 0,5GAS	Brass press fittings profile TH
Icma Sempigas	Dn26x3,0 Al0,60	PE-Xc/Al/PE-Xb	MOP 0,5GAS	Brass press fittings profile TH

Sistema Costruito da/System Manufactured by:

Icma S.p.A.
Cuggiono (MI), Italia

In base ai test di tipo nonché alle ispezioni periodiche condotte da Kiwa possono essere ritenuti conformi ai requisiti del Documento Tecnico Ki - 0410 basato sulla normativa UNI 11344:2014 e quindi marcati Kiwa-UNI

Based upon type tests and on Kiwa's periodic factory inspections, the products can be considered to be in compliance with the requirement of Technical Document Ki - 0410, based on the standard UNI 11344:2014 and consequentially marked Kiwa-UNI

Il presente certificato viene rilasciato in accordo al Regolamento Kiwa Italia per la Certificazione di prodotto ed è composto da 1 pagina.

This certificate is issued in accordance with the Kiwa Italia regulations for Product Certification and consists of 1 pages

Kiwa Italia S.p.a.

Sede Legale:
Via c. Goldoni, 1
20129 Milano

Sede Amministrativa e operativa:
Via Treviso, 32/34
31020 San Vendemiano (TV)
www.kiwa.com



ISO N° 9454
SCR N° 0277

SGA N° 0490
PRD N° 0776

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

Kiwa Italia

Ing. Emanuele Ferrari
Product Certification Director.

kiwa 
IT-DT-Ki0410

G3) MULTILAYER GAS PIPE AND *Sempigas*®, PRESS FITTINGS WITH TH PROFILE

Art. P195

Multilayer Cross-linked Polyethylene PE-Xc/AL/PE-Xb gas pipe, manufactured in conformity with UNI/TS 11344 and certified by GASTEC and DVGW. Butt-welded aluminium core. The pipe inner part is made of PE-Xc, the external one of PE-Xb. Colour: yellow. **The aluminum high thickness prevents accidental perforations of the pipe.**



ART.	SIZE	THICK ALUMINUM	CODE	PACKAGING	METERS FOR BENCH
P195	16X2	0,40 mm	88P195GH05099	50 m	1000
P195	20x2	0,50 mm	88P195BQ05099	50 m	1000
P195	26x3	0,60 mm	88P195GP02599	25 m	525

Art. P194

Multilayer Cross-linked Polyethylene PE-Xc/AL/PE-Xb gas pipe with yellow sheath, manufactured in conformity with UNI/TS 11344 and certified by GASTEC and DVGW; Butt-welded aluminium core. The pipe inner part is made of PE-Xc, the external one of PE-Xb. **The aluminum high thickness prevents accidental perforations of the pipe.**



ART.	SIZE	THICK ALUMINUM	THICK SHEATH	CODE	PACKAGING	METERS FOR BENCH
P194	16X2	0,40 mm	19/25	88P194GH05099	50 m	1050
P194	20x2	0,50 mm	23/28	88P194BQ05099	50 m	900
P194	26x3	0,60 mm	28/34	88P194GP02599	25 m	450

Art. 450

SEMPIGAS® double straight press-fitting, with same or reduced size.



ART.	SIZE	SIZE	CODE	PACKAGING
450	16X2	16X2	81450GH06	50
450	20X2	20X2	81450BQ06	40
450	26X3	26X3	81450GP06	30
450	16X2	20X2	81450BQGH06	40
450	20X2	26X3	81450GPBQ06	20

Art. 451

SEMPIGAS® female straight press-fitting.



ART.	SIZE	SIZE	CODE	PACKAGING
451	1/2"	16X2	81451ADGH06	50
451	1/2"	20X2	81451ADBQ06	50
451	3/4"	20X2	81451AEBQ06	40
451	3/4"	26X3	81451AEGP06	30

G3) MULTILAYER GAS PIPE AND *Sempigas*®, PRESS FITTINGS WITH TH PROFILE

Art. 452
SEMPIGAS® male straight press-fitting.



ART.	SIZE	SIZE	CODE	PACKAGING	
452	1/2"	16X2	81452ADGH06	50	
452	1/2"	20X2	81452ADBQ06	50	
452	3/4"	20X2	81452AEBQ06	40	
452	3/4"	26X3	81452AEGP06	30	
452	1"	26X3	81452AFGP06	20	

Art. 453
SEMPIGAS® double elbow press-fitting.



ART.	SIZE	SIZE	CODE	PACKAGING	
453	16X2	16X2	81453GH06	50	
453	20X2	20X2	81453BQ06	40	
453	26X3	26X3	81453GP06	20	

Art. 454
SEMPIGAS® male elbow press-fitting.



ART.	SIZE	SIZE	CODE	PACKAGING	
454	1/2"	16X2	81454ADGH06	40	
454	1/2"	20X2	81454ADBQ06	40	
454	3/4"	20X2	81454AEBQ06	30	
454	3/4"	26X3	81454AEGP06	20	

Art. 455
SEMPIGAS® female elbow press-fitting.



ART.	SIZE	SIZE	CODE	PACKAGING	
455	1/2"	16X2	81455ADGH06	40	
455	1/2"	20X2	81455ADBQ06	40	
455	3/4"	20X2	81455AEBQ06	30	
455	3/4"	26X3	81455AEGP06	20	

Art. 456
SEMPIGAS® TEE press-fitting.



TEE	ART.	SIDE SIZE	CENTRAL SIZE	SIDE SIZE	CODE	PACKAGING	
	456	16X2	16X2	16X2	81456GH06	30	
	456	20X2	20X2	20X2	81456BQ06	20	
	456	26X3	26X3	26X3	81456GP06	10	
	456	20X2	20X2	16X2	81456BQBQGH06	20	
	456	20x2	20X2	26X3	81456BQBQGP06	10	
	456	20X2	16X2	20X2	81456BQGH06	20	
	456	16X2	16X2	20X2	81456GGHQB06	20	
	456	16X2	16X2	26X3	81456GGHGP06	15	
	456	26X3	20X2	26X3	81456GPBQGP06	10	
	456	26X3	16X2	26X3	81456GPGHGP06	10	

G3) MULTILAYER GAS PIPE AND *Sempigas*®, PRESS FITTINGS WITH TH PROFILE

Art. 458
SEMPIGAS® female TEE press-fitting.



ART.	SIZE	SIZE	CODE	PACKAGING	
458	1/2"	16x2	81458ADGH06	20	
458	1/2"	20x2	81458ADBQ06	20	
458	3/4"	20x2	81458AEBQ06	15	
458	3/4"	26x3	81458AEGP06	10	

Art. 459
SEMPIGAS® press-fitting for wall plate fixing.



ART.	SIZE	SIZE	HEIGHT	CODE	PACKAGING	
459	1/2"	16x2	57	81459ADGH06	20	
459	1/2"	20x2	57	81459ADBQ06	20	

Art. 460
SEMPIGAS® press-fitting with rotating nut for plane seat connections.



ART.	SIZE	SIZE	CODE	PACKAGING	
460	1/2"	16x2	81460ADGH06	10	
460	3/4"	16x2	81460AEGH06	10	
460	3/4"	20x2	81460AEBQ06	10	

Art. 461
SEMPIGAS® press-fitting with gas meter connection and rotating nut pierced for plumbing.



ART.	SIZE	SIZE	CODE	PACKAGING	
461	1/2"	16x2	81461ADGH06	40	
461	3/4"	16x2	81461AEGH06	30	
461	3/4"	20x2	81461AEBQ06	30	
461	7/8"	20x2	81461AQBQ06	20	
461	1"	32x3	81461AFGQ06	10	

Art. 462
SEMPIGAS® press-fitting with gas meter connection, rotating nut pierced for plumbing and air vent valve.



ART.	SIZE	SIZE	CODE	PACKAGING	
462	3/4"	16x2	81462AEGH06	20	
462	3/4"	20x2	81462AEBQ06	20	
462	7/8"	20x2	81462AQBQ06	20	

G3) MULTILAYER GAS PIPE AND *Sempigas*[®], PRESS FITTINGS WITH TH PROFILE



NEW

Art. 463

SEMPIGAS[®] press-fitting with gas meter connection, rotating nut pierced for plumbing and pressure check outlet.

ART.	SIZE	SIZE	CODE	PACKAGING	
463	3/4"	16x2	81463AEGH06	20	
463	3/4"	20x2	81463AEBQ06	20	
463	7/8"	20x2	81463AQBQ06	20	



NEW

Art. 464

SEMPIGAS[®] elbow press-fitting with gas meter connection and rotating nut pierced for plumbing.

ART.	SIZE	SIZE	CODE	PACKAGING	
464	1/2"	16x2	81464ADGH06	40	
464	1/2"	20x2	81464ADBQ06	40	
464	3/4"	16x2	81464AEGH06	30	
464	3/4"	20x2	81464AEBQ06	30	



NEW

Art. 465

SEMPIGAS[®] elbow press-fitting with gas meter connection, rotating nut pierced for plumbing and air vent valve.

ART.	SIZE	SIZE	CODE	PACKAGING	
465	3/4"	16x2	81465AEGH06	20	
465	3/4"	20x2	81465AEBQ06	20	
465	7/8"	20x2	81465AQBQ06	20	



NEW

Art. 466

SEMPIGAS[®] elbow press-fitting with gas meter connection, rotating nut pierced for plumbing and pressure check outlet.

ART.	SIZE	SIZE	CODE	PACKAGING	
466	3/4"	16x2	81466AEGH06	20	
466	3/4"	20x2	81466AEBQ06	20	
466	7/8"	20x2	81466AQBQ06	20	

G4) MULTILAYER PIPE AND *Sempiter*®, PRESS FITTINGS. MULTICLIP TH, H, U

ICMA presents a series of pressed fittings for hot water and heating systems designed and conceived to provide an ongoing guarantee of the utmost:

- HYGIENE
- SAFETY IN INSTALLATION

HYGIENE

Every one of us is exposed to a variety of sources of pollution every day, and the home environment offers all kinds of sources of contamination, often underestimated, which can strike anyone indiscriminately, including precisely the categories of people who need to avoid contamination (children, seniors, pregnant women). For instance, children absorb pollutants with greater intensity than adults. But there is something simple we can do to help solve the problem.

The **SEMPITER**® series differs from conventional products in that it implements measures for protecting users' health through careful selection of materials and processes with the aim of preventing potentially hazardous substances from being released into drinking water. The brass commonly used contains lead, zinc and arsenic, substances which are gradually released into drinking water due to chemical reactions.

SEMPITER® is a special chemical treatment applied to pipe fittings to prevent all forms of interaction with water at any point in the fitting, unlike other systems such as sealing with tin. The **SEMPITER**® treatment is distributed evenly in even the most difficult points of the product. The **SEMPITER**® series blocks transfer of lead, zinc, arsenic and all substances present in the brass, inhibiting all electrolytic chemical processes forever, as tests of ageing conducted in independent laboratories have proven that the **SEMPITER**® process does not degrade with the passage of time.

The system therefore offers maximum protection of drinking water no matter what material is used. Hygiene is also guaranteed using sealing o-rings made of EPDM Perox certified for use with drinking water, and no grease is used in product assembly.



G4) MULTILAYER PIPE AND *Sempiter*, PRESS FITTINGS. MULTICLIP TH, H, U

SAFE INSTALLATION

While the above explains the hygienic reasons for preferring SEMPITER® pipe fittings, there are also important technical reasons for choosing our pipe fittings:

- >> AISI 304 DIN EN 10088-2 stainless steel bushing subjected to a solubilisation process resistant to the aggression of alkalis of cement and chalk dioxide.
- >> Large inspection opening on the gold strike plate to accentuate the contrast between the pipe and the fitting and facilitate visual inspection of the pipe position prior to pressing.
- >> Application of "zero defect" o-rings, controlled using rules from the automotive industry. Final inspection of the presence of o-rings in 100% of the o-rings applied.
- >> EPDM Perox o-rings mix permitting use of the same product in hot water and heating systems without worrying about dripping.
- >> Very high resistance to corrosion of the materials employed, with a surface hardness of more than 500 Vickers, even greater than chrome-plating or high resistance steel
- >> Very low surface roughness and inspection for sharp corners while work is underway to prevent lime scale build-up.
- >> Product solidity. The **SEMPITER®** treatment makes it possible to achieve the health standards other manufacturers achieve using composite plastic materials, but without giving up the security of brass.

In the SEMPITER® series the fitting will leak if not pressed, preventing errors in installation. This result can only be obtained with very precise mechanical processing, which very few companies can obtain.

Sempiter® : THE SYSTEM

SEMPITER® pipe fittings with MULTIFIVE pipes come together to great a **SAFE, QUICK, CONVENIENT** presstogether system which can be used in combination with all ICMA products: manifolds, valves and products for heating systems, tap water distribution and refrigeration systems.

The **SEMPITER®** system guarantees:

- >> Pressing of pipe fittings with grippers with a TH, H, U profile
- >> Resistance to chemical and electrolytic corrosion
- >> Low load loss due to reduced surface roughness
- >> Non-toxicity
- >> Hermetic seal
- >> Conformity to all European standards governing pipes and pipe fittings in distribution grids and specifically:

UNI EN 712	Pull-out test
UNI EN 713	Test of resistance to internal pressure during folding
UNI EN 1254-3	Fittings for plastic pipes with compression terminals
UNI-EN 12293	Tests on thermal cycles
UNI-EN 12294	Vacuum test
UNI-EN 12295	Test on pressure cycles

For all threading on **SEMPITER®** pipe fittings, we recommend use of liquid teflon rather than hemp, especially in combination with materials with different thermal dilations (such as ferrous materials), as required by standard ISO 21003, and in no case do we recommend installation with products with conical threading.

and what's more... it's recyclable!

If you make a mistake pressing or need to replace a pipe fitting due to a change in system configuration, **ICMA guarantees that it will recycle the pipe fitting and take it back for 50% of its purchase price! Contact our sales representatives for more information on recycling procedures.**

G4) MULTILAYER PIPE AND *Sempiter*®, PRESS FITTINGS. MULTICLIP TH, H, U

Art. P197

Multilayer Polyethylene **PERT-AL-PERT** pipe, manufactured in compliance with EN ISO 15875 standard; white colour; Working temperature 70°C, Working pressure 6 Bar, Max temperature 95°C. PERT Polyethylene: Polyethylene of raised temperature resistance. Butt-welded aluminium core. I diametri 40, 50 e 63 sono disponibili in barre da 5 mt confezionate in un tubo a perdere.



NEW
NEW
NEW

ART.	SIZE (mm)	THICK ALUMINUM	WATER CONTENT l/m	CODE	PACKAGING	METRI PER FASCIO	METERS FOR BENCH
P197	16x2	0,20 mm	0,113	88P197GH10099	100 m		2200 m
P197	16x2	0,20 mm	0,113	88P197GH50099	500 m		6000 m
P197	20x2	0,20 mm	0,200	88P197BQ10099	100 m		1400 m
P197	20x2	0,20 mm	0,200	88P197BQ50099	500 m		2500 m
P197	26x3	0,30 mm	0,314	88P197GP05099	50 m		600 m
P197	32x3	0,60 mm	0,531	88P197GQ05099	50 m		500 m
P197	40x3,5	0,50 mm	0,854	88P197GS05099	5 m (1 barra)	20 m	
P197	50x4	0,50 mm	1,385	88P197GT05099	5 m (1 barra)	10 m	
P197	63x4,5	0,50 mm	2,290	88P197GU05099	5 m (1 barra)	15 m	

Art. P193

Multilayer Cross-linked Polyethylene **PE-Xc/AL/PE-Xb** pipe, manufactured in compliance with EN ISO 15875 standard; suitable for sanitary and heating systems. Working temperature 70°C; 10 Bar pressure; max. temperature 95°C; **in compliance with DVGW BT 0628 and AQ 3181 standards.** Butt-welded aluminium core. The pipe inner part is made of PE-Xc, the external one of PE-Xb. The aluminium minimum thickness is 0,3 mm.



ART.	SIZE (mm)	THICK ALUMINUM	WATER CONTENT l/m	CODE	PACKAGING	METERS FOR BENCH
P193	16x2	0,30 mm	0,113	88P193GH20099	200 m	2400
P193	16x2	0,30 mm	0,113	88P193GH50099	500 m	6000
P193	20x2	0,40 mm	0,200	88P193BQ10099	100 m	1400
P193	26x3	0,60 mm	0,314	88P193GP05099	50 m	600
P193	32x3	0,80 mm	0,531	88P193GQ05099	50 m	500

Art. P196

Multilayer Polyethylene **PERT-AL-PERT pipe with closed-cell expanded polyethylene white sheat** with scratch-resistant external finishing, manufactured in conformity with EN ISO 15875; Working temperature 70°C, Working pressure 6 Bar, Max temperature 95°C. PERT polyethylene: polyethylene of raised temperature resistance. Butt-welded aluminium core.



ART.	SIZE	THICK ALUMINUM	INSULATION THICKNESS	WATER CONTENT l/m	CODE	PACKAGING	METERS FOR BENCH
P196	16x2	0,20 mm	6	0,113	88P196GH05006	50 m	750
P196	16x2	0,20 mm	6	0,113	88P196GH10006	100 m	1000
P196	20x2	0,20 mm	6	0,200	88P196BQ05006	50 m	550
P196	20x2	0,20 mm	6	0,200	88P196BQ10006	100 m	900
P196	26x3	0,50 mm	10	0,314	88P196GP05010	50 m	450
P196	32x3	0,60 mm	10	0,531	88P196GQ02510	25 m	250

Art. P190

Multilayer Cross-linked Polyethylene **PE-Xc/AL/PE-Xb** pipe with closed-cell expanded polyethylene white sheat with scratch-resistant external finishing; manufactured in conformity with EN ISO 15875; suitable for sanitary and heating systems. Working temperature 70°C; 10 Bar pressure; max. temperature 95°C; **it complies with DVGW BT 0628 and AQ 3181 standards.** Butt-welded aluminium core. The pipe inner part is made of PE-Xc, the external one of PE-Xb. The aluminium minimum thickness is 0,3 mm.



ART.	SIZE	THICK ALUMINUM	INSULATION THICKNESS	WATER CONTENT l/m	CODE	PACKAGING	METERS FOR BENCH
P190	16x2	0,30 mm	6	0,113	88P190GH05006	50 m	750
P190	20x2	0,40 mm	6	0,200	88P190BQ05006	50 m	550
P190	26x3	0,60 mm	10	0,314	88P190GP05010	50 m	450
P190	32x3	0,80 mm	10	0,531	88P190GQ02510	25 m	250

G4) MULTILAYER PIPE AND *Sempiter*, PRESS FITTINGS. MULTICLIP TH, H, U



Art. 400
SEMPITER® double straight press-fitting, with same or reduced size.

ART.	SIZE	SIZE	CODE	PACKAGING
400	16X2	16X2	81400GH06	50
400	20X2	20X2	81400BQ06	40
400	26X3	26X3	81400GP06	30
400	32X3	32X3	81400GQ06	10
400	40X3,5	40X3,5	81400GS06	1
400	50X4	50X4	81400GT06	1
400	63X4,5	63X4,5	81400GU05	1
400	20X2	16X2	81400BQGH06	40
400	26X3	16X2	81400GPGH06	20
400	26X3	20X2	81400GPBQ06	20
400	32X3	16X2	81400GQGH06	20
400	32X3	20X2	81400GQBQ06	15
400	32X3	26X3	81400GQP06	15



Art. 401
SEMPITER® female straight press-fitting.

ART.	SIZE	SIZE	CODE	PACKAGING
401	1/2"	16X2	81401ADGH06	50
401	1/2"	20X2	81401ADBQ06	50
401	3/4"	16X2	81401AEGH06	40
401	3/4"	20X2	81401AEBQ06	40
401	3/4"	26x3	81401AEGP06	30
401	1"	26x3	81401AFGP06	20
401	1"	32x3	81401AFGQ06	15
401	1"1/4	32x3	81401AGGQ06	5
401	1"1/4	40X3,5	81401AGGS06	1
401	1"1/2	50X4	81401AHGT06	1



Art. 402
SEMPITER® male straight press-fitting.

ART.	SIZE	SIZE	CODE	PACKAGING
402	1/2"	16X2	81402ADGH06	50
402	1/2"	20X2	81402ADBQ06	50
402	3/4"	16X2	81402AEGH06	40
402	3/4"	20X2	81402AEBQ06	40
402	3/4"	26x3	81402AEGP06	30
402	1"	26x3	81402AFGP06	20
402	1"	32x3	81402AFGQ06	15
402	1"1/4	32x3	81402AGGQ06	5
402	1"1/4	40X3,5	81402AGGS06	1
402	1"1/2	50X4	81402AHGT06	1
402	2"	63x4,5	81402AJGU05	1



Art. 403
SEMPITER® double elbow press-fitting.

ART.	SIZE	SIZE	CODE	PACKAGING
403	16X2	16X2	81403GH06	50
403	20X2	20X2	81403BQ06	40
403	26X3	26X3	81403GP06	20
403	32X3	32X3	81403GQ06	10
403	40X3,5	40X3,5	81403GS06	1
403	50X4	50X4	81403GT06	1
403	63X4,5	63X4,5	81403GU05	1

G4) MULTILAYER PIPE AND *Sempiter*®, PRESS FITTINGS. MULTICLIP TH, H, U

Art. 404
SEMPITER® male elbow press-fitting.



ART.	SIZE	SIZE	CODE	PACKAGING
404	1/2"	16X2	81404ADGH06	40
404	1/2"	20X2	81404ADBQ06	40
404	3/4"	16X2	81404AEGH06	30
404	3/4"	20X2	81404AEBQ06	30
404	3/4"	26X3	81404AEGP06	20
404	1"	26X3	81404AFGP06	20
404	1"	32X3	81404AFGQ06	10
404	1"1/4	32X3	81404AGGQ06	5
404	1"1/4	40X3,5	81404AGGS06	1
404	1"1/2	50X4	81404AHGT06	1
404	2"	63X4,5	81404AJGU05	1

Art. 405
SEMPITER® female elbow press-fitting.



ART.	SIZE	SIZE	CODE	PACKAGING
405	1/2"	16X2	81405ADGH06	40
405	1/2"	20X2	81405ADBQ06	40
405	3/4"	16X2	81405AEGH06	30
405	3/4"	20X2	81405AEBQ06	30
405	3/4"	26X3	81405AEGP06	20
405	1"	26X3	81405AFGP06	15
405	1"	32X3	81405AFGQ06	10
405	1"1/4	32X3	81405AGGQ06	5
405	1"1/4	40X3,5	81405AGGS06	1
405	1"1/2	50X4	81405AHGT06	1

Art. 406
SEMPITER® TEE press-fitting.



ART.	SIDE SIZE	CENTRAL SIZE	SIDE SIZE	CODE	PACKAGING
406	16X2	16X2	16X2	81406GH06	30
406	20X2	20X2	20X2	81406BQ06	20
406	26X3	26X3	26X3	81406GP06	10
406	32X3	32X3	32X3	81406GQ06	10
406	40X3,5	40X3,5	40X3,5	81406GS06	1
406	50X4	50X4	50X4	81406GT06	1
406	63X4,5	63X4,5	63X4,5	81406GU05	1
406	20x2	16x2	20x2	81406BQGH06	20
406	26X3	16X2	26X3	81406GPGHP06	10
406	26X3	20X2	26X3	81406GPBQGP06	10
406	32X3	16X2	32X3	81406GQGH06	10
406	32X3	20X2	32X3	81406GQBQGP06	10
406	32X3	26X3	32X3	81406GQGP06	10
406	16X2	20X2	16X2	81406GHBQGH06	20
406	20X2	26X3	20X2	81406BQGPBQ06	10
406	26X3	32X3	26X3	81406GPGQP06	10
406	20X2	20X2	16X2	81406BQBQGH06	20
406	26X3	26X3	16X2	81406GPGPH06	10
406	26X3	26X3	20X2	81406GPGPBQ06	10
406	32X3	32X3	20X2	81406GQGBQ06	5
406	32X3	32X3	26X3	81406GQGQP06	5
406	16X2	16X2	20X2	81406GHGH06	20
406	16X2	16X2	26X3	81406GHGH06	15
406	20X2	16X2	26X3	81406BQGH06	15
406	16X2	20X2	26X3	81406GHBQGP06	15
406	20X2	20X2	26X3	81406BQBQGP06	10
406	20X2	26X3	32X3	81406BQGP06	10
406	26X3	20X2	32X3	81406GPBQ06	10
406	20X2	20X2	32X3	81406BQBQ06	10
406	26X3	26X3	32X3	81406GPGQ06	10
406	50X4	40X3,5	50X4	81406GTGSGT06	1
406	63	40	63	81406GUGSGU05	1
406	63	50	63	81406GUGTGU05	1

G4) MULTILAYER PIPE AND *Sempiter*, PRESS FITTINGS. MULTICLIP TH, H, U

Art. 407
SEMPITER® male TEE press-fitting.



ART.	SIZE	SIZE	CODE	PACKAGING	
407	1/2"	16X2	81407ADGH06	20	
407	1/2"	20X2	81407ADBQ06	20	
407	3/4"	16X2	81407AEGH06	15	
407	3/4"	20X2	81407AEBQ06	15	
407	3/4"	26x3	81407AEGP06	10	
407	1"	26x3	81407AFGP06	10	
407	1"	32x3	81407AFGQ06	10	
407	1"1/4	32x3	81407AGGQ06	5	
407	1"1/4	40X3,5	81407AGGS06	1	
407	1"1/2	50X4	81407AHGT06	1	

Art. 408
SEMPITER® female TEE press-fitting.



ART.	SIZE	SIZE	CODE	PACKAGING	
408	1/2"	16X2	81408ADGH06	20	
408	1/2"	20X2	81408ADBQ06	20	
408	3/4"	16X2	81408AEGH06	20	
408	3/4"	20X2	81408AEBQ06	15	
408	3/4"	26x3	81408AEGP06	10	
408	1"	26x3	81408AFGP06	10	
408	1"	32x3	81408AFGQ06	10	
408	1"1/4	32x3	81408AGGQ06	5	
408	1"1/4	40X3,5	81408AGGS06	1	
408	1"1/2	50X4	81408AHGT06	1	

Art. 410
SEMPITER® press-fitting for wall plate fixing.



ART.	SIZE	SIZE	HEIGHT	CODE	PACKAGING	
410	1/2"	16X2	52,5	81410ADGH06	20	
410	1/2"	20X2	52,5	81410ADBQ06	20	

Art. 411
Wall bracket with set of 6 screws.



ART.	WHEELBASE	CODE	PACKAGING	
411	75-150	814117506	10	

G4) MULTILAYER PIPE AND *Sempiter*®, PRESS FITTINGS. MULTICLIP TH, H, U

Art. 412

Kit consisting of SEMPITER® wall plate press-fitting and bracket for wall mounting.



ART.	SIZE	SIZE	WHEELBASE	CODE	PACKAGING
412	1/2"	16X2	75-150	81412ADGH7506	10
412	1/2"	20X2	75-150	81412ADBQ7506	10

Art. 415

SEMPITER® press-fitting, with revolving nut for manifolds and valves branch connections.



ART.	SIZE	SIZE	CODE	PACKAGING
415	1/2"	16x2	81415ADGH06	10
415	24x1,5	16x2	81415RAGH06	10
415	24x1,5	20x2	81415RABQ06	10
415	3/4" euroconus	16x2	81415AEGH06	10
415	3/4" euroconus	20x2	81415AEBQ06	10

Art. 416

SEMPITER® press-fitting with revolving nut for plane seat connections.



NEW →

NEW →

NEW →

NEW →

ART.	SIZE	SIZE	CODE	PACKAGING
416	1/2"	16X2	81416ADGH06	10
416	1/2"	20X2	81416ADBQ06	10
416	3/4"	16X2	81416AEGH06	10
416	3/4"	20X2	81416AEBQ06	10
416	3/4"	26X3	81416AEGP06	10
416	1"	26X3	81416AFGP06	10
416	1"	32X3	81416AFGQ06	10

Art. 417

SEMPITER® end plug.



ART.	SIZE	CODE	PACKAGING
417	16X2	81417GH06	10
417	20x2	81417BQ06	10
417	26X3	81417GP06	10
417	32X3	81417GQ06	10

G4) MULTILAYER PIPE AND *Sempiter*, PRESS FITTINGS. MULTICLIP TH, H, U

Art. 409

SEMPITER® full bore cock for built-in installation. Screw with shutter with conical seal in EPDM Perox. Compact model.



ART.	SIZE	CODE	PACKAGING	
409	16X2	81409GH06	10	
409	20X2	81409BQ06	10	

Art. 413

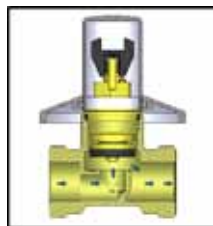
SEMPITER® full bore cock for built-in installation. Plane seat in EPDM Perox.



ART.	SIZE	CODE	PACKAGING	
413	16X2	81413GH06	10	
413	20X2	81413BQ06	10	
413	20x2-16x2	81413BQGH06	10	

Art. 515

Full bore cock for built-in installation with female connections and plane seat.



ART.	SIZE	CODE	PACKAGING	
515	1/2"	81515AD06	10	
515	3/4"	81515AE06	10	

Art. 414

Extension for built-in cock for our articles 413 and 515.



ART.	SIZE	CODE	PACKAGING	
414		81414GH06	10	

G5) UNDER-SINK REGULATING VALVES



Art. 516

Angle regulating valve, shutter-type, **with filter**, adjustable connection for copper tubing and chromed steel rosette.

ART.	SIZE	CODE	PACKAGING	
516	1/2" - 10 mm	90516AD07	1	



Art. 517

Angle regulating valve, shutter-type, adjustable connection for copper tubing and chromed steel rosette.

ART.	SIZE	CODE	PACKAGING	
517	1/2" - 10 mm	90517AD07	1	



Art. 518

Angle regulating valve, shutter-type, **with filter**, flat seat connection for flexible pipe and chromed steel rosette.

ART.	SIZE	CODE	PACKAGING	
518	3/8"-1/2"	90518AC07	1	
518	1/2"-1/2"	90518AD07	1	



Art. 519

Angle regulating valve, shutter-type, flat seat connection for flexible pipe and chromed steel rosette.

NEW → ATTACCO 3/4" PER LAVATRICE →

ART.	SIZE	CODE	PACKAGING	
519	1/2"-3/8"	90519AC07	1	
519	1/2"-1/2"	90519AD07	1	
519	1/2"-3/4"	90519AE07	1	



Art. 520

Angle regulating valve, shutter-type, fixed connection for copper tubing and chromed steel rosette.

ART.	SIZE	CODE	PACKAGING	
520	1/2"-10 mm	90520AC07	1	

G6) EQUIPMENT FOR PRESS-FITTINGS *Sempiter* AND *Sempigas* AND MULTILAYER PIPING



Art. 420

Electro-mechanic press-fitting machine, with NI-CD 14,4V-2,4AH battery, for pipes up to diameter 32, crimping force 16 kN, automatic reverse stroke upon pressing completion, warning light of pressing end, maintenance every 15.000 cycles.

ART.		CODE	PACKAGING	
420		81420GH20	1	

Art. 421

Inserts TH profile, 16-20-26-32 for electro-mechanic press-fitting machine art. 420.



ART.	SIZE	CODE	PACKAGING	
421	16	81421GH20	1	
421	20	81421BQ20	1	
421	26	81421GP20	1	
421	32	81421GQ20	1	



Art. 430

Manual press-fitting machine, TH profile, 16-20-26-32 diameters. Inserts included. Supplied in a case.

ART.		CODE	PACKAGING	
430		81430GH20	1	



Art. 424

Shears for plastic pipes up to diameter 42.

ART.		CODE	PACKAGING	
424		81424GH20	1	



Art. 427

Gauge - deburring tool 16-20-26-32.

ART.	SIZE	CODE	PACKAGING	
427	16	81427GH20	1	
427	20	81427BQ20	1	
427	26	81427GP20	1	
427	32	81427GQ20	1	



Art. 429

Bending spring for pipes 16-20-26-32.

ART.	SIZE	SIZE	CODE	PACKAGING	
429	16	2	81429GH20	1	
429	20	2	81429BQ20	1	
429	26	3	81429GP20	1	
429	32	3	81429GQ20	1	

G7) UNIVERSAL FITTING FOR MULTILAYER PIPE, PEX AND COPPER

Art. 530 - Art. 540
Double straight fitting.



ART.	SIZE	CODE	PACKAGING	
530	14x2	81530ADBN06	1	50
530	16x2	81530ADGH06	1	50
540	20X2	81540RABQ06	1	50

Art. 531 - Art. 541 - Art. 591
Male straight fitting.



ART.	SIZE	CODE	PACKAGING	
531	1/2"M-14x2	81531ADBN06	1	50
531	1/2"M-16x2	81531ADGH06	1	50
541	1/2"M-20X2	81541RDBQ06	1	50
531	3/4"M-16x2	81531AEGH06	1	50
541	3/4"M-20X2	81541REBQ06	1	50
541	1"M-16X2	81541RFGH06	1	50
541	1"M-20X2	81541RFBQ06	1	50
591	3/4"M-26X3	81591AEGP06	1	50
591	1"M-26X3	81591AFGP06	1	50
591	1"M-32X3	81591AFGQ06	1	50
591	1"1/4M-32X3	81591AGGQ06	1	50

Art. 532 - Art. 542
Female straight fitting.



ART.	SIZE	CODE	PACKAGING	
532	1/2"F-14X2	81532ADBN06	1	50
532	1/2"F-16X2	81532ADGH06	1	50
532	3/4"F-16X2	81532AEGH06	1	50
542	3/4"F-20X2	81542REBQ06	1	50
542	1"F-16X2	81542RFGH06	1	50
542	1"F-20X2	81542RFBQ06	1	50

Art. 533 - Art. 543
Double elbow.



ART.	SIZE	CODE	PACKAGING	
533	14X2	81533ADBN06	1	50
533	16X2	81533ADGH06	1	50
543	20X2	81543RABQ06	1	50

Art. 534 - Art. 544 - Art. 594
Male elbow.



ART.	SIZE	CODE	PACKAGING	
534	1/2"M-14X2	81534ADBN06	1	50
534	1/2"M-16X2	81534ADGH06	1	50
544	1/2"M-20x2	81544RDBQ06	1	50
534	3/4"M-16X2	81534AEGH06	1	50
544	3/4"M-20X2	81544REBQ06	1	50
594	3/4"M-26X3	81594AEGP06	1	50
594	1"M-26X3	81594AFGP06	1	50
594	1"M-32X3	81594AFGQ06	1	50
594	1"1/4M-32X3	81594AGGQ06	1	50

G7) UNIVERSAL FITTING FOR MULTILAYER PIPE, PEX AND COPPER

Art. 535 - Art. 545

Female elbow.



ART.	SIZE	CODE	PACKAGING	
535	1/2"F-14X2	81535ADBN06	1	50
535	1/2"F-16X2	81535ADGH06	1	50
545	1/2"F-20X2	81545RDBQ06	1	50
545	3/4"F-16X2	81545REGH06	1	50
545	3/4"F-20X2	81545REBQ06	1	50

Art. 536 - Art. 546

TEE fitting.



ART.	SIZE	CODE	PACKAGING	
536	14X2	81536RABN06	1	50
536	16X2	81536RAGH06	1	50
546	20X2	81546RABQ06	1	50

Art. 537 - Art. 547

Male TEE fitting.



ART.	SIZE	CODE	PACKAGING	
537	1/2"M-14X2	81537ADBN06	1	50
537	1/2"M-16X2	81537ADGH06	1	50
547	1/2"M-20X2	81547RDBQ06	1	50
537	3/4"M-16X2	81537AEGH06	1	50
547	3/4"M-20X2	81547REBQ06	1	50

Art. 538 - Art. 548

Female TEE fitting.



ART.	SIZE	CODE	PACKAGING	
538	1/2"F-14X2	81538ADBN06	1	50
538	1/2"F-16X2	81538ADGH06	1	50
548	1/2"F-20X2	81548RDBQ06	1	50
548	3/4"F-16X2	81548REGH06	1	50
548	3/4"F-20X2	81548REBQ06	1	50

Art. 539 - Art. 549

Flanged elbow.



ART.	SIZE	CODE	PACKAGING	
539	1/2"F-14X2	81539ADBN06	1	50
539	1/2"F-16X2	81539ADGH06	1	50
549	1/2"F-20X2	81549RABQ06	1	50

G7) UNIVERSAL FITTING FOR MULTILAYER PIPE, PEX AND COPPER

Art. 500
Double straight fitting.



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING
500	1/2"	1/2"	81500AD06	10
500	24x1,5	24x1,5	81500RA06	10
500	1"	1"	81500AF06	10

Art. 501
Male straight fitting.



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING
501	3/8" M-1/2"	1/2"	81501LA06	10
501	1/2" M-1/2"	1/2"	81501AD06	10
501	3/4" M-1/2"	1/2"	81501LC06	10
501	3/8" M-24x1,5	24x1,5	81501RC06	10
501	1/2" M-24x1,5	24x1,5	81501RD06	10
501	3/4" M-24x1,5	24x1,5	81501RE06	10
501	1" M-24x1,5	24x1,5	81501RF06	10
501	3/4" M-1"	1"	81501LE06	10
501	1" M-1"	1"	81501AF06	10

Art. 502
Female straight fitting.



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING
502	3/8" F-1/2"	1/2"	81502LA06	10
502	1/2" F-1/2"	1/2"	81502AD06	10
502	3/4" F-1/2"	1/2"	81502LC06	10
502	3/8" F-24x1,5	24x1,5	81502RC06	10
502	1/2" F-24x1,5	24x1,5	81502RD06	10
502	3/4" F-24x1,5	24x1,5	81502RE06	10
502	1" F-24x1,5	24x1,5	81502RF06	10
502	3/4" F-1"	1"	81502LE06	10
502	1" F-1"	1"	81502AF06	10

Art. 503
Double elbow.



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING
503	1/2"	1/2"	81503AD06	10
503	24x1,5	24x1,5	81503RA06	10

Art. 504
Male elbow.



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING
504	3/8" M-1/2"	1/2"	81504LA06	10
504	1/2" M-1/2"	1/2"	81504AD06	10
504	3/4" M-1/2"	1/2"	81504LC06	10
504	3/8" M-24x1,5	24x1,5	81504RC06	10
504	1/2" M-24x1,5	24x1,5	81504RD06	10
504	3/4" M-24x1,5	24x1,5	81504RE06	10

G7) UNIVERSAL FITTING FOR MULTILAYER PIPE, PEX AND COPPER

Art. 505
Female elbow.



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
505	3/8" F-1/2"	1/2"	81505LA06	10	
505	1/2" F-1/2"	1/2"	81505AD06	10	
505	3/8" F-24x1,5	24x1,5	81505RC06	10	
505	1/2" F-24x1,5	24x1,5	81505RD06	10	
505	3/4" F-24x1,5	24x1,5	81505RE06	10	

Art. 506
TEE fitting.



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
506	1/2"	1/2"	81506AD06	10	
506	24x1,5	24x1,5	81506RA06	10	

Art. 507
Male TEE fitting.



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
507	3/8" M-1/2"	1/2"	81507LA06	10	
507	1/2" M-1/2"	1/2"	81507AD06	10	
507	3/4" M-1/2"	1/2"	81507LC06	10	
507	3/8" M-24x1,5	24x1,5	81507RC06	10	
507	1/2" M-24x1,5	24x1,5	81507RD06	10	
507	3/4" M-24x1,5	24x1,5	81507RE06	10	

Art. 508
Female TEE fitting.




ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING	
508	3/8" F-1/2"	1/2"	81508LA06	10	
508	1/2" F-1/2"	1/2"	81508AD06	10	
508	3/8" F-24x1,5	24x1,5	81508RC06	10	
508	1/2" F-24x1,5	24x1,5	81508RD06	10	
508	3/4" F-24x1,5	24x1,5	81508RE06	10	

G7) UNIVERSAL FITTING FOR MULTILAYER PIPE, PEX AND COPPER

Art. 509

Cross.




ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING 	
509	1/2"	1/2"	81509AD06	10	
509	24x1,5	24x1,5	81509RA06	10	

Art. 510

Flanged elbow.




ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING 	
510	1/2"	1/2"	81510AD06	10	
510	1/2"	24x1,5	81510RD06	10	

Art. 511

105° elbow.




ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING 	
511	1/2"	1/2"	81511AD06	10	
511	1/2"	24x1,5	81511RD06	10	

Art. 513

100° extended elbow.



ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING 	
513	1/2"	1/2"	81513AD06	10	

G8) FITTINGS



NEW

Art. 1200
Female-female elbow.

ART.	SIZE	BRASS FINISH CODE	CHROME FINISH CODE	PACKAGING	
1200	1/2"F-1/2"F	811200AD05	811200AD06	10	100
1200	3/4"F-3/4"F	811200AE05	811200AE06	10	100
1200	1"F-1"F	811200AF05	811200AF06	10	50
1200	1"1/4F-1"1/4F	811200AG05	811200AG06	5	40
1200	1"1/2F-1"1/2F	811200AH05	811200AH06	1	20
1200	2"F-2"F	811200AJ05	811200AJ06	1	10



NEW

Art. 1201
Male-female elbow.

ART.	SIZE	BRASS FINISH CODE	CHROME FINISH CODE	PACKAGING	
1201	1/2"M-1/2"F	811201AD05	811201AD06	10	100
1201	3/4"M-3/4"F	811201AE05	811201AE06	10	70
1201	1"M-1"F	811201AF05	811201AF06	10	50
1201	1"1/4M-1"1/4F	811201AG05	811201AG06	5	30
1201	1"1/2M-1"1/2F	811201AH05	811201AH06	1	10
1201	2"M-2"F	811201AJ05	811201AJ06	1	10



NEW

Art. 1202
Female TEE fitting.

ART.	SIZE	BRASS FINISH CODE	CHROME FINISH CODE	PACKAGING	
1202	1/2"F	811202AD05	811202AD06	10	100
1202	3/4"F	811202AE05	811202AE06	10	70
1202	1"F	811202AF05	811202AF06	10	50
1202	1"1/4F	811202AG05	811202AG06	5	30
1202	1"1/2F	811202AH05	811202AH06	1	10
1202	2"F	811202AJ05	811202AJ06	1	10



NEW

Art. 1203
Female TEE reduction fitting.

ART.	SIZE	BRASS FINISH CODE	CHROME FINISH CODE	PACKAGING	
1203	1/2"F-3/8"F-1/2"F	811203ADACAD05	811203ADACAD06	10	100
1203	3/4"F-1/2"F-3/4"F	811203AEADAE05	811203AEADAE06	10	70
1203	1"F-3/4"F-1"F	811203AFAEAF05	811203AFAEAF06	10	50

BRASS VERSION



CHROME VERSION

Art. 808
Three pieces elbow radiator union. With o-ring.

ART.	SIZE	BRASS FINISH CODE	CHROME FINISH CODE	PACKAGING	
808	3/8"	85808AC05	85808AC06	30	150
808	1/2"	85808AD05	85808AD06	20	100
808	3/4"	85808AE05	85808AE06	10	100
808	1"	85808AF05	85808AF06	1	40
808	1"1/4	85808AG05	85808AG06	1	25
808	1"1/2	85808AH05	85808AH06	1	1
808	2"	85808AJ05	85808AJ06	1	1

G8) FITTINGS

BRASS VERSION



CHROME VERSION

Art. 818

Three pieces straight radiator union. With o-ring.

ART.	SIZE	BRASS FINISH CODE	CHROME FINISH CODE	PACKAGING	
818	3/8"	85818AC05	85818AC06	30	150
818	1/2"	85818AD05	85818AD06	20	100
818	3/4"	85818AE05	85818AE06	10	100
818	1"	85818AF05	85818AF06	1	40
818	1 1/4"	85818AG05	85818AG06	1	25
818	1 1/2"	85818AH05	85818AH06	1	1
818	2"	85818AJ05	85818AJ06	1	1

Art. 789

Bocchettone sede piana femmina-femmina attacco circolatore completo di calotta e guarnizione.



ART.	SIZE	BRASS FINISH CODE	PACKAGING
789	1/2" F - 1" F	82789AD05	1
789	3/4" F - 1 1/2" F	82789AE05	1
789	1" F - 1 1/2" F	82789AF05	1

Art. 792

Male-female flat seat union with gasket and nut.



ART.	SIZE	CODE	PACKAGING	
792	1/2" M-3/4" F	82792AD05	1	50
792	3/4" M-1" F	82792AE05	1	50
792	1" M-1 1/4" F	82792AF05	1	40
792	1 1/4" M-1 1/2" F	82792AG05	1	20

Art. 1210

Nipples. Extended version for 1/2" size available, code 1210L.



ART.	SIZE	BRASS FINISH CODE	CHROME FINISH CODE	PACKAGING	
1210	3/8"	811210AC05	811210AC06	10	500
1210	1/2"	811210AD05	811210AD06	10	400
1210L	1/2"	811210AD05L	811210AD06L	10	400
1210	3/4"	811210AE05	811210AE06	5	200
1210	1"	811210AF05	811210AF06	5	100
1210	1 1/4"	811210AG05	811210AG06	1	25
1210	1 1/2"	811210AH05	811210AH06	1	20
1210	2"	811210AJ05	811210AJ06	1	12

Art. 1211

Reduction nipples.



ART.	SIZE	BRASS FINISH CODE	CHROME FINISH CODE	PACKAGING	
1211	3/8"-1/2"	811211ACAD05	811211ACAD06	10	400
1211	1/2"-3/4"	811211ADAE05	811211ADAE06	10	200
1211	1/2"-1"	811211ADAF05	811211ADAF06	10	100
1211	3/4"-1"	811211AEAF05	811211AEAF06	5	100
1211	3/4"-1 1/4"	811211AEAG05	811211AEAG06	1	25
1211	1"-1 1/4"	811211AFAG05	811211AFAG06	1	25
1211	1"-1 1/2"	811211AFAH05	811211AFAH06	1	50
1211	1 1/4"-1 1/2"	811211AGAH05	811211AGAH06	1	20
1211	1 1/2"-2"	811211AHAJ05	811211AHAJ06	1	12

G8) FITTINGS



NEW

Art. 1212
Male-female reduction fitting.

ART.	SIZE	BRASS FINISH CODE	CHROME FINISH CODE	PACKAGING	
1212	1/2" M-3/8" F	811212ACAD05	811212ACAD06	10	250
1212	3/4" M-3/8" F	811212ACAE05	811212ACAE06	10	200
1212	1" M-3/8" F	811212ACAF05	811212ACAF06	10	100
1212	3/4" M-1/2" F	811212ADAE05	811212ADAE06	10	200
1212	1" M-1/2" F	811212ADAF05	811212ADAF06	10	100
1212	1" 1/4 M-1/2" F	811212ADAG05	811212ADAG06	10	70
1212	1" 1/2 M-1/2" F	811212ADAH05	811212ADAH06	1	50
1212	2" M-1/2" F	811212ADAJ05	811212ADAJ06	1	20
1212	1" M-3/4" F	811212AEAF05	811212AEAF06	10	100
1212	1" 1/4 M-3/4" F	811212AEAG05	811212AEAG06	1	70
1212	1" 1/2 M-3/4" F	811212AEAH05	811212AEAH06	1	50
1212	2" M-3/4" F	811212AEAJ05	811212AEAJ06	1	20
1212	1" 1/4 M-1" F	811212AFAG05	811212AFAG06	10	70
1212	1" 1/2 M-1" F	811212AFAH05	811212AFAH06	1	50
1212	2" M-1" F	811212AFAJ05	811212AFAJ06	1	20
1212	1" 1/2 M-1" 1/4 F	811212AGAH05	811212AGAH06	1	50
1212	2" M-1" 1/4 F	811212AGAJ05	811212AGAJ06	1	20
1212	2" M-1" 1/2 F	811212AHAJ05	811212AHAJ06	1	20
1212	2" 1/2 M-1" 1/2 F	811212AHAK05	811212AHAK06	1	10
1212	2" 1/2 M-2" F	811212AJAK05	811212AJAK06	1	10



NEW

Art. 1213
Female sleeve fitting.

ART.	SIZE	BRASS FINISH CODE	CHROME FINISH CODE	PACKAGING	
1213	3/8"	811213AC05	811213AC06	10	250
1213	1/2"	811213AD05	811213AD06	10	250
1213	3/4"	811213AE05	811213AE06	10	200
1213	1"	811213AF05	811213AF06	10	150
1213	1" 1/4	811213AG05	811213AG06	1	100
1213	1" 1/2	811213AH05	811213AH06	1	50
1213	2"	811213AJ05	811213AJ06	1	20



NEW

Art. 1214
Female-female reduction sleeve fitting.

ART.	SIZE	BRASS FINISH CODE	CHROME FINISH CODE	PACKAGING	
1214	3/8"-1/2"	811214ACAD05	811214ACAD06	10	250
1214	1/2"-3/4"	811214ADAE05	811214ADAE06	10	200
1214	1/2"-1"	811214ADAF05	811214ADAF06	10	200
1214	3/4"-1"	811214AEAF05	811214AEAF06	10	200
1214	3/4"-1" 1/4	811214AEAG05	811214AEAG06	10	100
1214	1"-1" 1/4	811214AFAG05	811214AFAG06	1	100
1214	1"-1" 1/2	811214AFAH05	811214AFAH06	1	50
1214	1"-2"	811214AFAJ05	811214AFAJ06	1	20
1214	1" 1/4-1" 1/2	811214AGAH05	811214AGAH06	1	50
1214	1" 1/4-2"	811214AGAJ05	811214AGAJ06	1	20
1214	1" 1/2-2"	811214AHAJ05	811214AHAJ06	1	20
1214	2"-2" 1/2	811214AJAK05	811214AJAK06	1	20



NEW

Art. 1215
Male-female reduction ring nut.

ART.	SIZE	BRASS FINISH CODE	PACKAGING	
1215	1/2" M-3/8" F	811215ADAC05	10	750
1215	3/4" M-1/2" F	811215AEAD05	10	500
1215	1" M-1/2" F	811215AFAD05	10	300
1215	1" M-3/4" F	811215AFAE05	10	300
1215	1" 1/4 M-1" F	811215AGAF05	5	200
1215	1" 1/2 M-1" F	811215AHAF05	5	50

G8) FITTINGS

Art. 237

Male end plug for manifolds. Sizes 3/4 male - 1" male - 1"1/4 male.



ART.	SIZE	BRASS FINISH CODE	CHROME FINISH CODE	PACKAGING			
237	1/2"	87237AD05	87237AD06	10	200		
237	3/4"	87237AE05	87237AE06	10	200		
237	1"	87237AF05	87237AF06	10	200		
237	1"1/4	87237AG05	87237AG06	10	200		

Art. 201

Blind end cap for manifolds. Sizes: 3/4 female - 1" female - 1"1/4 female.



ART.	SIZE	BRASS FINISH CODE	CHROME FINISH CODE	PACKAGING			
201	3/4"	87201AE05	87201AE06	10	200		
201	1"	87201AF05	87201AF06	10	200		
201	1"1/4	87201AG05	87201AG06	10	200		

Art. 238

Blind cap for manifold's side outlets with EPDM gasket.



ART.	SIZE	BRASS FINISH CODE	CHROME FINISH CODE	PACKAGING			
238	3/8	87238AC05	87238AC06	10	200		
238	1/2	87238AD05	87238AD06	10	200		
238	24x1,5	872380005	872380006	10	200		
238	3/4	87238AE05	87238AE06	10	200		

Art. 236

Hollow end cap for manifolds. Size: 3/4 male for 3/8 female - 3/4 male for 1/2 F - 1" male for 3/8 female - 1" male for 1/2 female - 1" male for 3/4 female.



ART.	SIZE	BRASS FINISH CODE	CHROME FINISH CODE	PACKAGING			
236	3/4-3/8	87236LB05	87236LB06	10	200		
236	3/4-1/2	87236LC05	87236LC06	10	200		
236	1"-3/8	87236LD05	87236LD06	10	200		
236	1"-1/2	87236LE05	87236LE06	10	200		
236	1"-3/4	87236LF05	87236LF06	10	200		

Art. 521

Female hose part.



ART.	SIZE	DIAMETER	CODE	PACKAGING			
521	1/2 F	10	81521BCAD05	10	500		
521	1/2 F	14	81521BEAD05	10	500		

G8) FITTINGS

Art. 522

Male hose part.



ART.	SIZE	DIAMETER	CODE	PACKAGING	
522	1/2 M	10	81522BCAD05	10	600
522	1/2 M	14	81522BEAD05	10	600

Art. 19

Male-female extender in turned brass.



ART.	SIZE	BRASS FINISH CODE	PACKAGING
19	3/8"x10	81019AC01005	10
19	3/8"x15	81019AC01505	10
19	3/8"x20	81019AC02005	10
19	3/8"x30	81019AC03005	10
19	3/8"x40	81019AC04005	10
19	3/8"x50	81019AC05005	10
19	3/8"x60	81019AC06005	10
19	3/8"x80	81019AC08005	10
19	3/8"x100	81019AC10005	10
19	1/2"x10	81019AD01005	10
19	1/2"x15	81019AD01505	10
19	1/2"x20	81019AD02005	10
19	1/2"x25	81019AD02505	10
19	1/2"x30	81019AD03005	10
19	1/2"x40	81019AD04005	10
19	1/2"x50	81019AD05005	10
19	1/2"x60	81019AD06005	10
19	1/2"x80	81019AD08005	10
19	1/2"x100	81019AD10005	10
19	3/4"x10	81019AE01005	10
19	3/4"x15	81019AE01505	10
19	3/4"x20	81019AE02005	10
19	3/4"x25	81019AE02505	10
19	3/4"x30	81019AE03005	10
19	3/4"x40	81019AE04005	10
19	3/4"x50	81019AE05005	10
19	3/4"x60	81019AE06005	10
19	3/4"x80	81019AE08005	10
19	3/4"x100	81019AE10005	10
19	1"x10	81019AF01005	10
19	1"x15	81019AF01505	10
19	1"x20	81019AF02005	10
19	1"x30	81019AF03005	10
19	1"x40	81019AF04005	10
19	1"x50	81019AF05005	10
19	1"x80	81019AF08005	10

Art. 20

Reduced male-female extender in turned brass.



ART.	SIZE	BRASS FINISH CODE	PACKAGING
20	3/8" M-1/2" F	81020ACAD05	10
20	1/2" M-3/4" F	81020ADAE05	10
20	3/4" M-1" F	81020AEAF05	10

G8) FITTINGS



NEW

Art. 1200
Chromed female-female elbow.

ART.	SIZE	CODE	PACKAGING	
1200	1/2" F-1/2" F	811200AD07	10	100
1200	3/4" F-3/4" F	811200AE07	10	100
1200	1" F-1" F	811200AF07	10	50



NEW

Art. 1201
Chromed male-female elbow.

ART.	SIZE	CODE	PACKAGING	
1201	1/2" M-1/2" F	811201AD07	10	100
1201	3/4" M-3/4" F	811201AE07	10	70
1201	1" M-1" F	811201AF07	10	50



NEW

Art. 1202
Chromed female TEE fitting.

ART.	SIZE	CODE	PACKAGING	
1202	1/2" F	811202AD07	10	100
1202	3/4" F	811202AE07	10	70
1202	1" F	811202AF07	10	50



NEW

Art. 1210
Chromed nipples. Extended version for 1/2" size available, code 1210L.

ART.	SIZE	CODE	PACKAGING	
1210	3/8"	811210AC07	10	500
1210	1/2"	811210AD07	10	400
1210L	1/2"	811210AD07L	10	400
1210	3/4"	811210AE07	5	200
1210	1"	811210AF07	5	100



NEW

Art. 1211
Chromed reduction nipples.

ART.	SIZE	CODE	PACKAGING	
1211	3/8"-1/2"	811211ACAD07	10	400
1211	1/2"-3/4"	811211ADAE07	10	200
1211	1/2"-1"	811211ADAF07	10	100
1211	3/4"-1"	811211AEAF07	5	100

G8) FITTINGS



NEW

Art. 1212

Chromed male-female reduction fitting.

ART.	SIZE	CODE	PACKAGING	
1212	1/2" M-3/8" F	811212ADAC07	10	250
1212	3/4" M-3/8" F	811212AEAC07	10	200
1212	3/4" M-1/2" F	811212AEAD07	10	200
1212	1" M-3/8" F	811212AFAC07	10	100
1212	1" M-1/2" F	811212AFAD07	10	100
1212	1" M-3/4" F	811212AFAE07	10	100



NEW

Art. 1213

Chromed female sleeve fitting.

ART.	SIZE	CODE	PACKAGING	
1213	3/8"	811213AC07	10	250
1213	1/2"	811213AD07	10	250
1213	3/4"	811213AE07	10	200
1213	1"	811213AF07	10	150



NEW

Art. 1214

Chromed female-female reduction sleeve fitting.

ART.	SIZE	CODE	PACKAGING	
1214	3/8"-1/2"	811214ACAD07	10	250
1214	1/2"-3/4"	811214ADAE07	10	200
1214	1/2"-1"	811214ADAF07	10	200
1214	3/4"-1"	811214AEAF07	10	200

G8) FITTINGS

Art. 19

Chromed male-female extender in turned brass.



ART.	SIZE	CHROMED CODE	PACKAGING
19	3/8"x10	81019AC01006	10
19	3/8"x15	81019AC01506	10
19	3/8"x20	81019AC02006	10
19	3/8"x30	81019AC03006	10
19	3/8"x40	81019AC04006	10
19	3/8"x50	81019AC05006	10
19	3/8"x60	81019AC06006	10
19	3/8"x80	81019AC08006	10
19	3/8"x100	81019AC10006	10
19	1/2"x10	81019AD01006	10
19	1/2"x15	81019AD01506	10
19	1/2"x20	81019AD02006	10
19	1/2"x25	81019AD02506	10
19	1/2"x30	81019AD03006	10
19	1/2"x40	81019AD04006	10
19	1/2"x50	81019AD05006	10
19	1/2"x60	81019AD06006	10
19	1/2"x80	81019AD08006	10
19	1/2"x100	81019AD10006	10
19	3/4"x10	81019AE01006	10
19	3/4"x15	81019AE01506	10
19	3/4"x20	81019AE02006	10
19	3/4"x25	81019AE02506	10
19	3/4"x30	81019AE03006	10
19	3/4"x40	81019AE04006	10
19	3/4"x50	81019AE05006	10
19	3/4"x60	81019AE06006	10
19	3/4"x80	81019AE08006	10
19	3/4"x100	81019AE10006	10
19	1"x10	81019AF01006	10
19	1"x15	81019AF01506	10
19	1"x20	81019AF02006	10
19	1"x30	81019AF03006	10
19	1"x40	81019AF04006	10
19	1"x50	81019AF05006	10
19	1"x80	81019AF08006	10

Art. 20

Chromed reduced male-female extender in turned brass.



ART.	SIZE	CHROMED CODE	PACKAGING
20	3/8"M-1/2"F	81020ACAD06	10
20	1/2"M-3/4"F	81020ADAE06	10
20	3/4"M-1"F	81020AEAF06	10

G9) FITTINGS FOR COOLING SYSTEMS

Art. 620

Union for fitting.



ART.	SIZE	CODE	PACKAGING	
620	1/4"	81620AB05	10	
620	3/8"	81620AC05	10	
620	1/2"	81620AD05	10	
620	5/8"	81620AI05	10	
620	3/4"	81620AE05	10	

Art. 621

Reducing union for fitting.



ART.	SIZE	CODE	PACKAGING	
621	1/4"-3/8"	81621ABAC05	10	
621	3/8"-1/2"	81621ACAD05	10	

Art. 622

Blind union (cap).



ART.	SIZE	CODE	PACKAGING	
622	1/4"	81622AB05	10	
622	3/8"	81622AC05	10	
622	1/2"	81622AD05	10	
622	5/8"	81622AI05	10	

Art. 623

Copper gasket.



ART.	SIZE	CODE	PACKAGING	
623	1/4"	81623AB05	10	
623	3/8"	81623AC05	10	
623	1/2"	81623AD05	10	
623	5/8"	81623AI05	10	
623	3/4"	81623AE05	10	

Art. 624

Sealing cap.



ART.	SIZE	CODE	PACKAGING	
624	1/4"	81624AB05	10	
624	3/8"	81624AC05	10	
624	1/2"	81624AD05	10	
624	5/8"	81624AI05	10	
624	3/4"	81624AE05	10	

G9) FITTINGS FOR COOLING SYSTEMS

Art. 625

Double straight fitting.



ART.	SIZE	CODE	PACKAGING	
625	1/4"	81625AB05	10	
625	3/8"	81625AC05	10	
625	1/2"	81625AD05	10	
625	5/8"	81625AI05	10	
625	3/4"	81625AE05	10	

Art. 626

Reducing straight fitting.



ART.	SIZE	CODE	PACKAGING	
626	1/4" - 3/8"	81626ABAC05	10	
626	1/4" - 1/2"	81626ABAD05	10	
626	1/4" - 5/8"	81626ABAI05	10	
626	3/8" - 1/2"	81626ACAD05	10	
626	3/8" - 5/8"	81626ACAI05	10	
626	1/2" - 5/8"	81626ADAI05	10	
626	1/2" - 3/4"	81626ADAE05	10	
626	5/8" - 3/4"	81626AIAE05	10	

Art. 627

Male-Female straight fitting.



ART.	SIZE	CODE	PACKAGING	
627	1/4" M-3/8" F	81627ABAC05	10	
627	3/8" M-1/2" F	81627ACAD05	10	
627	1/2" M-3/8" F	81627ADAC05	10	

Art. 628

Double elbow fitting.



ART.	SIZE	CODE	PACKAGING	
628	1/4"	81628AB05	10	
628	3/8"	81628AC05	10	
628	1/2"	81628AD05	10	
628	5/8"	81628AI05	10	
628	3/4"	81628AE05	10	

Art. 629

TEE fitting.



ART.	SIZE	CODE	PACKAGING	
629	1/4"	81629AB05	10	
629	3/8"	81629AC05	10	
629	1/2"	81629AD05	10	
629	3/4"	81629AE05	10	

G10) SCREW FITTINGS WITH O-RING SEAL FOR COPPER PIPING, FOR WATER AND GAS

The series 570 fittings can be used in sanitary water distribution systems (for heating or gas distribution systems)

The special HNBR seal, complying with standard EN 682, is suited for pipes containing gas or hot/cold fluids; fittings comply with standard EN1254/2.

Benefits:

- one single fitting for all installations, one single gasket.
- reduction of the references to manage.
- reduction of the financial investments for the management of a double stock.



Art. 570
Double straight fitting.

ART.	SIZE	SCREW FITTINGS WITH O-RING SEAL FOR COPPER PIPING, FOR WATER AND GAS	CODE	PACKAGING	
570	12	1/2"	81570ADFD05	5	50
570	14	24x1,5	81570RAGD05	5	50
570	15	24x1,5	81570RAGE05	5	50
570	16	24x1,5	81570RAGF05	5	50
570	18	3/4"	81570HFFH05	5	50
570	22	30x1,5	81570MJMJ05	5	50



Art. 571
Male straight fitting.

ART.	SIZE	SCREW FITTINGS WITH O-RING SEAL FOR COPPER PIPING, FOR WATER AND GAS	CODE	PACKAGING	
571	1/2"M-12	1/2"	81571ADFD05	5	50
571	1/2"M-14	24x1,5	81571RDGD05	5	50
571	1/2"M-15	24x1,5	81571RDGE05	5	50
571	1/2"M-16	24x1,5	81571RDGF05	5	50
571	3/4"M-12	1/2"	81571LCFD05	5	50
571	3/4"M-14	24x1,5	81571REGD05	5	50
571	3/4"M-15	24x1,5	81571REGE05	5	50
571	3/4"M-16	24x1,5	81571REGF05	5	50
571	3/4"M-18	3/4"	81571AEHF05	5	50
571	3/4"M-22	30x1,5	81571AEMJ05	5	50
571	1"M-18	3/4"	81571AFHF05	5	50
571	1"M-22	30x1,5	81571AFMJ05	5	50



Art. 572
Female straight fitting.

ART.	SIZE	SCREW FITTINGS WITH O-RING SEAL FOR COPPER PIPING, FOR WATER AND GAS	CODE	PACKAGING	
572	1/2"F-12	1/2"	81572ADFD05	5	50
572	1/2"F-14	24x1,5	81572RDGD05	5	50
572	1/2"F-15	24x1,5	81572RDGE05	5	50
572	1/2"F-16	24x1,5	81572RDGF05	5	50
572	3/4"F-12	1/2"	81572LCFD05	5	50
572	3/4"F-14	24x1,5	81572REGD05	5	50
572	3/4"F-15	24x1,5	81572REGE05	5	50
572	3/4"F-16	24x1,5	81572REGF05	5	50
572	3/4"F-18	3/4"	81572AEHF05	5	50
572	3/4"F-22	30x1,5	81572AEMJ05	5	50
572	1"F-22	30x1,5	81572AFMJ05	5	50



Art. 575
Double elbow.

ART.	SIZE	SCREW FITTINGS WITH O-RING SEAL FOR COPPER PIPING, FOR WATER AND GAS	CODE	PACKAGING	
575	12	1/2"	81575ADFD05	5	50
575	14	24x1,5	81575RAGD05	5	50
575	15	24x1,5	81575RAGE05	5	50
575	16	24x1,5	81575RAGF05	5	50
575	18	3/4"	81575HFFH05	5	50
575	22	30x1,5	81575MJMJ05	5	50

G10) SCREW FITTINGS WITH O-RING SEAL FOR COPPER PIPING, FOR WATER AND GAS

Art. 576
Male elbow.



ART.	SIZE	SCREW FITTINGS WITH O-RING SEAL FOR COPPER PIPING, FOR WATER AND GAS	CODE	PACKAGING	
576	1/2" M-12	1/2"	81576ADFD05	5	50
576	1/2" M-14	24x1,5	81576RDGD05	5	50
576	1/2" M-15	24x1,5	81576RDGE05	5	50
576	1/2" M-16	24x1,5	81576RDGF05	5	50
576	3/4" M-12	1/2"	81576LCFD05	5	50
576	3/4" M-14	24x1,5	81576REGD05	5	50
576	3/4" M-15	24x1,5	81576REGE05	5	50
576	3/4" M-16	24x1,5	81576REGF05	5	50
576	3/4" M-18	3/4"	81576AEHF05	5	50
576	3/4" M-22	30x1,5	81576AEMJ05	5	50

Art. 577
Female elbow.



ART.	SIZE	SCREW FITTINGS WITH O-RING SEAL FOR COPPER PIPING, FOR WATER AND GAS	CODE	PACKAGING	
577	1/2" F-12	1/2"	81577ADFD05	5	50
577	1/2" F-14	24x1,5	81577RDGD05	5	50
577	1/2" F-15	24x1,5	81577RDGE05	5	50
577	1/2" F-16	24x1,5	81577RDGF05	5	50
577	3/4" F-12	1/2"	81577LCFD05	5	50
577	3/4" F-14	24x1,5	81577REGD05	5	50
577	3/4" F-15	24x1,5	81577REGE05	5	50
577	3/4" F-16	24x1,5	81577REGF05	5	50
577	3/4" F-18	3/4"	81577AEHF05	5	50
577	3/4" F-22	30x1,5	81577AEMJ05	5	50

Art. 580
TEE fitting.



ART.	SIZE	SCREW FITTINGS WITH O-RING SEAL FOR COPPER PIPING, FOR WATER AND GAS	CODE	PACKAGING	
580	12	1/2"	81580ADFD05	5	50
580	14	24x1,5	81580RAGD05	5	50
580	15	24x1,5	81580RAGE05	5	50
580	16	24x1,5	81580RAGF05	5	50
580	18	3/4"	81580HFFH05	5	50
580	22	30x1,5	81580MJMJ05	5	50

Art. 581
Male TEE fitting.

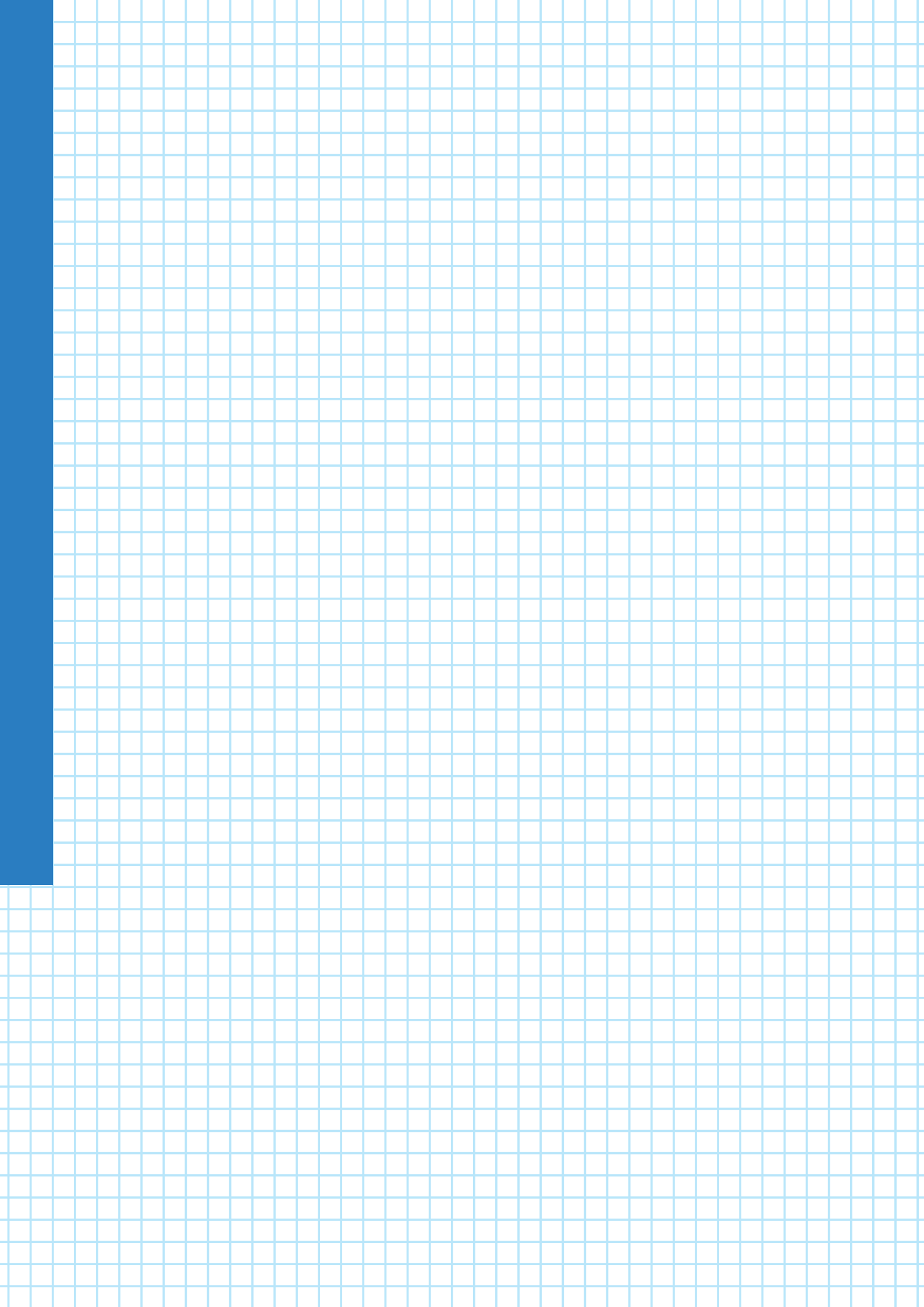


ART.	SIZE	SCREW FITTINGS WITH O-RING SEAL FOR COPPER PIPING, FOR WATER AND GAS	CODE	PACKAGING	
581	1/2" M-12	1/2"	81581ADFD05	5	50
581	1/2" M-14	24x1,5	81581RDGD05	5	50
581	1/2" M-15	24x1,5	81581RDGE05	5	50
581	1/2" M-16	24x1,5	81581RDGF05	5	50
581	3/4" M-12	1/2"	81581LCFD05	5	50
581	3/4" M-14	24x1,5	81581REGD05	5	50
581	3/4" M-15	24x1,5	81581REGE05	5	50
581	3/4" M-16	24x1,5	81581REGF05	5	50

Art. 582
Female TEE fitting.



ART.	SIZE	SCREW FITTINGS WITH O-RING SEAL FOR COPPER PIPING, FOR WATER AND GAS	CODE	PACKAGING	
582	1/2" F-12	1/2"	81582ADFD05	5	50
582	1/2" F-14	24x1,5	81582RDGD05	5	50
582	1/2" F-15	24x1,5	81582RDGE05	5	50
582	1/2" F-16	24x1,5	81582RDGF05	5	50
582	3/4" F-12	1/2"	81582LCFD05	5	50
582	3/4" F-14	24x1,5	81582REGD05	5	50
582	3/4" F-15	24x1,5	81582REGE05	5	50
582	3/4" F-16	24x1,5	81582REGF05	5	50
582	3/4" F-18	3/4"	81582AEHF05	5	50
582	3/4" F-22	30x1,5	81582AEMJ05	5	50



H) Components for central heating systems (supplied with gas, gas-oil and bio-fuel)



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H2 MANUAL AND AUTOMATIC AIR VENTS AND DRAIN COCKS

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H6 DRAUGHT REGULATORS

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H7 FLOW AND PRESSURE SWITCHES, THERMOSTATS, INAIL INSTRUMENTS UNIT

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H8 GAUGES, THERMOMETERS, THERMOMANOMETERS, VALVES FOR GAUGES, CURL

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H1) PRESSURE SAFETY SYSTEMS



Art. 241

Female membrane safety valve. Calibration pressure to be specified. PN 10, max. working temperature 110°C, opening overpressure 20%, closing pressure 20%.

The product complies the Ped. 2014/68/UE norm - categoria IV D.M.1.12.75, D.Lgs.25.02.2000. CE n. 0425 approval.



ART.	SIZE	ATM.	CODE	PACKAGING	
241	1/2"	1,5	91241ADAC	1	50
241	1/2"	1,8	91241ADBC	1	50
241	1/2"	2	91241ADAD	1	50
241	1/2"	2,5	91241ADAE	1	50
241	1/2"	3	91241ADAF	1	50
241	1/2"	3,5	91241ADAG	1	50
241	1/2"	4	91241ADAH	1	50
241	1/2"	5	91241ADAL	1	50
241	1/2"	6	91241ADAN	1	50
241	1/2"	7	91241ADAP	1	50
241	1/2"	8	91241ADAQ	1	50
241	1/2"	9	91241ADAR	1	50
241	1/2"	10	91241ADAS	1	50
241	3/4"	1,5	91241AEAC	1	50
241	3/4"	1,8	91241AEBC	1	50
241	3/4"	2	91241AEAD	1	50
241	3/4"	2,5	91241AEAE	1	50
241	3/4"	3	91241AEAF	1	50
241	3/4"	3,5	91241AEAG	1	50
241	3/4"	4	91241AEAH	1	50
241	3/4"	5	91241AEAL	1	50
241	3/4"	6	91241AEAN	1	50
241	3/4"	7	91241AEAP	1	50
241	3/4"	8	91241AEAQ	1	50
241	3/4"	9	91241AEAR	1	50
241	3/4"	10	91241AEAS	1	50
241	1"	1,5	91241AFAC	1	50
241	1"	1,8	91241AFBC	1	50
241	1"	2	91241AFAD	1	50
241	1"	2,5	91241AFAE	1	50
241	1"	3	91241AFAF	1	50
241	1"	3,5	91241AFAG	1	50
241	1"	4	91241FAFH	1	50
241	1"	5	91241AFAL	1	50
241	1"	6	91241AFAN	1	50
241	1"	7	91241AFAP	1	50
241	1"	8	91241AFAQ	1	50
241	1"	9	91241AFAR	1	50
241	1"	10	91241AFAS	1	50

H1) PRESSURE SAFETY SYSTEMS



Art. 242

Male/Female membrane safety valve. Calibration pressure to be specified. PN 10, max.working temperature 110°C, opening overpressure 20%, closing pressure 20%.

The product complies the Ped. 2014/68/UE norm - categoria IV D.M.1.12.75, D.Lgs.25.02.2000. CE n. 0425 approval.



ART.	SIZE	ATM.	CODE	PACKAGING	
242	1/2"	1,5	91242ADAC	1	50
242	1/2"	1,8	91242ADBC	1	50
242	1/2"	2	91242ADAD	1	50
242	1/2"	2,5	91242ADAE	1	50
242	1/2"	3	91242ADAF	1	50
242	1/2"	3,5	91242ADAG	1	50
242	1/2"	4	91242ADAH	1	50
242	1/2"	5	91242ADAL	1	50
242	1/2"	6	91242ADAN	1	50
242	1/2"	7	91242ADAP	1	50
242	1/2"	8	91242ADAQ	1	50
242	1/2"	9	91242ADAR	1	50
242	1/2"	10	91242ADAS	1	50
242	3/4"	1,5	91242AEAC	1	50
242	3/4"	1,8	91242AEBC	1	50
242	3/4"	2	91242AEAD	1	50
242	3/4"	2,5	91242AEAE	1	50
242	3/4"	3	91242AEAF	1	50
242	3/4"	3,5	91242AEAG	1	50
242	3/4"	4	91242AEAH	1	50
242	3/4"	5	91242AEAL	1	50
242	3/4"	6	91242AEAN	1	50
242	3/4"	7	91242AEAP	1	50
242	3/4"	8	91242AEAQ	1	50
242	3/4"	9	91242AEAR	1	50
242	3/4"	10	91242AEAS	1	50

Art. 251

Female membrane safety valve. 1/4" connection for pressure gauge. Calibration pressure to be specified. PN 10, max.working temperature 110°C, opening overpressure 20%, closing pressure 20%.

The product complies the Ped. 2014/68/UE norm - categoria IV D.M.1.12.75, D.Lgs.25.02.2000. CE n.0425 approval.



ART.	SIZE	ATM.	CODE	PACKAGING	
251	1/2"	1,5	91251ADAC	1	50
251	1/2"	1,8	91251ADBC	1	50
251	1/2"	2	91251ADAD	1	50
251	1/2"	2,5	91251ADAE	1	50
251	1/2"	3	91251ADAF	1	50
251	1/2"	3,5	91251ADAG	1	50
251	1/2"	4	91251ADAH	1	50
251	1/2"	5	91251ADAL	1	50
251	1/2"	6	91251ADAN	1	50
251	1/2"	7	91251ADAP	1	50
251	1/2"	8	91251ADAQ	1	50
251	1/2"	9	91251ADAR	1	50
251	1/2"	10	91251ADAS	1	50

H1) PRESSURE SAFETY SYSTEMS



Art. 252

Male/Female membrane safety valve. 1/4" connection for pressure gauge. Calibration pressure to be specified. PN 10, max. working temperature 110°C, opening overpressure 20%, closing pressure 20%.

The product complies the Ped. 2014/68/UE norm - categoria IV D.M.1.12.75, D.Lgs.25.02.2000. CE n.0425 approval.

ART.	SIZE	ATM.	CODE	PACKAGING	
252	1/2"	1,5	91252ADAC	1	50
252	1/2"	1,8	91252ADBC	1	50
252	1/2"	2	91252ADAD	1	50
252	1/2"	2,5	91252ADAE	1	50
252	1/2"	3	91252ADAF	1	50
252	1/2"	3,5	91252ADAG	1	50
252	1/2"	4	91252ADAH	1	50
252	1/2"	5	91252ADAL	1	50
252	1/2"	6	91252ADAN	1	50
252	1/2"	7	91252ADAP	1	50
252	1/2"	8	91252ADAQ	1	50
252	1/2"	9	91252ADAR	1	50
252	1/2"	10	91252ADAS	1	50

Art. 253

Female membrane safety valve with 1/4" connection for pressure gauge. Equipped with a pre-mounted pressure gauge. Calibration pressure to be specified. PN 10, max. working temperature 110°C, opening overpressure 20%, closing pressure 20%.

The product complies the Ped. 2014/68/UE norm - categoria IV D.M.1.12.75, D.Lgs.25.02.2000. CE n. 0425 approval.



ART.	SIZE	ATM.	CODE	PACKAGING	
253	1/2"	1,5	91253ADAC	1	50
253	1/2"	1,8	91253ADBC	1	50
253	1/2"	2	91253ADAD	1	50
253	1/2"	2,5	91253ADAE	1	50
253	1/2"	3	91253ADAF	1	50
253	1/2"	3,5	91253ADAG	1	50
253	1/2"	4	91253ADAH	1	50
253	1/2"	5	91253ADAL	1	50
253	1/2"	6	91253ADAN	1	50
253	1/2"	7	91253ADAP	1	50
253	1/2"	8	91253ADAQ	1	50
253	1/2"	9	91253ADAR	1	50
253	1/2"	10	91253ADAS	1	50

Art. 260

Membrane safety valve. Fixed setting. Body and nut made of CW617N brass. PN 10. Overpressure 10%. Closing difference 20%. Max. temperature 140°C. FF connections.

INAIL approved and set - The product complies the PED. 2014/68/UE norm - CE n. 1115 approval.



ART.	INLET SIZE	OUTLET SIZE	ATM.	CODE	PACKAGING
260	1/2	3/4"	2,5	91260ADAE	1
260	1/2	3/4"	3	91260ADAF	1
260	1/2	3/4"	3,5	91260ADAG	1
260	1/2	3/4"	4	91260ADAH	1
260	1/2	3/4"	6	91260ADAN	1
260	3/4	1"	2,5	91260AEAE	1
260	3/4	1"	3	91260AEAF	1
260	3/4	1"	3,5	91260AEAG	1
260	3/4	1"	4	91260AEAH	1
260	3/4	1"	6	91260AEAN	1
260	1"	1"1/4	2,5	91260AFAE	1
260	1"	1"1/4	3	91260AFAF	1
260	1"	1"1/4	3,5	91260AFAG	1
260	1"	1"1/4	4	91260FAFH	1
260	1"	1"1/4	6	91260AFAN	1

H1) PRESSURE SAFETY SYSTEMS

Art. 254

Female angle safety valve. With spring and conveyed discharge. Adjustable. 0-8 bar. Metallic seat. PN16.



ART.	SIZE	ATM.	CODE	PACKAGING
254	3/8"	adjustable	91254AC05	1
254	1/2"	adjustable	91254AD05	1
254	3/4"	adjustable	91254AE05	1
254	1"	adjustable	91254AF05	1
254	1" 1/4	adjustable	91254AG05	1
254	1" 1/2	adjustable	91254AH05	1
254	2"	adjustable	91254AJ05	1
254	2" 1/2	adjustable	91254AK05	1
254	3"	adjustable	91254AL05	1

Art. 256

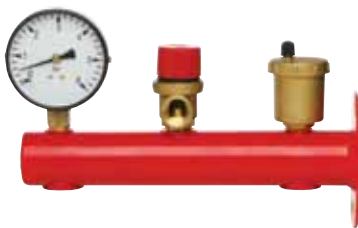
Female angle safety valve. With spring and conveyed discharge. Adjustable. 0-8 bar. Rubber seat. PN16.



ART.	SIZE	ATM.	CODE	PACKAGING
256	3/8"	adjustable	91256AC05	1
256	1/2"	adjustable	91256AD05	1
256	3/4"	adjustable	91256AE05	1
256	1"	adjustable	91256AF05	1
256	1" 1/4	adjustable	91256AG05	1
256	1" 1/2	adjustable	91256AH05	1
256	2"	adjustable	91256AJ05	1
256	2" 1/2	adjustable	91256AK05	1
256	3"	adjustable	91256AL05	1

Art. GS01

Pre-assembled safety group. Automatic air vent (art. 707), 1/2" safety valve (art. 242), pressure gauge (art. 244). 3/4" F lower connections, brackets for wall-fixing. PN10, max. working temperature 110°C, opening overpressure 20%, closing pressure 20%. Safety valve CE n. 0425 approval.



ART.	SAFETY VALVE	MANOMETER	CODE	PACKAGING
GS01	242 1/2"-3	244 1/4" 0-6	91GS010020	1
GS01	242 1/2"-6	244 1/4" 0-10	91GS01AN10	1

Art. GS02

Pre-assembled safety group. Automatic air vent (art. 709), 1/2" safety valve 3 bar (art. 242), pressure gauge 0-6 bar (art. 257 1/4"). 1" F lower connections. PN 10, max. working temperature 110°C, opening overpressure 20%, closing pressure 20%. Safety valve CE n. 0425 approval.



ART.	CODE	PACKAGING
GS02	91GS020020	1

H1) PRESSURE SAFETY SYSTEMS



Art. GS08

Safety valve for MF water heaters. Set calibration 8 Bars ± 0,5. Calibration at 6,7 and 11 bars on demand.

ART.	SIZE	PRESSURE	CODE	PACKAGING
GS08	1/2"		91GS08AD06	300
GS08	3/4"		91GS08AE06	150



Art. GS09

Safety valve for MF water heaters. Set calibration 8 Bars ± 0,5. Calibration at 6,7 and 11 bars on demand.

ART.	SIZE	PRESSURE	CODE	PACKAGING
GS09	1/2"		91GS09AD06	250
GS09	3/4"		91GS09AE06	125



Art. GS10

Free release safety valve, calibration 6 Bars, adjustment 0 to 16 Bars. Metal seat, PN16, working temperature 0-200°C. Calibration pressure ± 20%.

ART.	SIZE	PRESSURE	CODE	PACKAGING
GS10	1/4"	Adjustable	91GS10AB05	1
GS10	3/8"	Adjustable	91GS10AC05	1
GS10	1/2"	Adjustable	91GS10AD05	1
GS10	3/4"	Adjustable	91GS10AE05	1
GS10	1"	Adjustable	91GS10AF05	1
GS10	1"1/4	Adjustable	91GS10AG05	1
GS10	1"1/2	Adjustable	91GS10AH05	1
GS10	2"	Adjustable	91GS10AJ05	1



Art. GS11

Free release safety valve, calibration 6 Bars, setting 0 to 16 Bars. Teflon seat, PN16, working temperature 0-120°C. Calibration pressure ± 20%.

ART.	SIZE	PRESSURE	CODE	PACKAGING
GS11	1/4"	Adjustable	91GS11AB05	1
GS11	3/8"	Adjustable	91GS11AC05	1
GS11	1/2"	Adjustable	91GS11AD05	1
GS11	3/4"	Adjustable	91GS11AE05	1
GS11	1"	Adjustable	91GS11AF05	1
GS11	1"1/4	Adjustable	91GS11AG05	1
GS11	1"1/2	Adjustable	91GS11AH05	1
GS11	2"	Adjustable	91GS11AJ05	1

H2) MANUAL AND AUTOMATIC AIR VENTS AND DRAIN COCKS



Art. 740

High capacity deaerator, for heating/conditioning systems, with side connections. Max. working pressure 10 bars. Max. temperature 160°C.

ART.	SIZE	CODE	PACKAGING
740	3/4"	82740AE05	1
740	1"	82740AF05	1
740	1"1/4	82740AG05	1
740	1"1/2	82740AH05	1

H2) MANUAL AND AUTOMATIC AIR VENTS AND DRAIN COCKS



Art. 5111

High capacity deaerator with radial connector. Max. working pressure 10 bars, max. temperature 160°.

ART.	SIZE	CODE	PACKAGING	
5111	1/2"	93S111AD05	1	
5111	3/4"	93S111AE05	1	



Art. 745

F/F dirt separator for heating/cooling systems, equipped with ball drain cock and rubber holder. Max. working pressure 10 bars, max. working temperature 110°C, stainless steel mesh.

ART.	SIZE	CODE	PACKAGING	
745	3/4"	82745AE05	1	10
745	1"	82745AF05	1	10
745	1"1/4	82745AG05	1	10
745	1"1/2	82745AH05	1	10



NEW

Art. 746

F-F dirt separator for heating and cooling systems provided with a removable magnetic cartridge to collect ferrous impurities and a drain cock with hose. Max. working pressure 10 bars, Max. working temperature 110°C, stainless steel mesh. Magnetic field strength of 10.500 Gauss.



ART.	SIZE	CODE	PACKAGING	
746	3/4"	82746AE05	1	10
746	1"	82746AF05	1	10
746	1"1/4	82746AG05	1	10
746	1"1/2	82746AH05	1	10



NEW

Art. 747

Compact dirt separator for under-boiler installation with a removable magnetic cartridge to collect ferrous impurities and a drain cock with hose. Max. working pressure 10 bars, Max. working temperature 110°C, stainless steel mesh. Magnetic field strength of 10.500 Gauss.



ART.	SIZE	FINISH	CODE	PACKAGING	
747	3/4"	BRASS	82747AE05	1	10
747	3/4"	NICKEL PLATED	82747AE06	1	10
747	3/4"	HIGH CHROME	82747AE07	1	10
747	3/4"	WHITE	82747AE13	1	10



Art. 748

Compact dirt separator for under-boiler installation with drain cock with hose. Max. working pressure 10 bars, Max. working temperature 110°C., stainless steel mesh.

ART.	SIZE	FINISH	CODE	PACKAGING	
748	3/4"	BRASS	82748AE05	1	10
748	3/4"	NICKEL PLATED	82748AE06	1	10
748	3/4"	HIGH CHROME	82748AE07	1	10
748	3/4"	WHITE	82748AE13	1	10

H2) MANUAL AND AUTOMATIC AIR VENTS AND DRAIN COCKS

NEW



Art. 744

Magnetic candle for dirt separator art. 746. It can also be installed on the dirt separator art. 745 to be converted into a magnetic one. Magnetic field strength of 10.500 Gauss.

ART.	SIZE	CODE	PACK.
744	1/2"	82744AD05	1

NEW



Art. 749

Magnetic candle for dirt separator art. 747. It can also be installed on the dirt separator art. 748 to be converted into a magnetic one. Magnetic field strength of 10.500 Gauss.

ART.	SIZE	FINISH	CODE	PACK.
749	1/2"	BRASS	82749AD05	1
749	1/2"	NICKEL PLATED	82749AD06	1
749	1/2"	HIGH CHROME	82749AD07	1
749	1/2"	WHITE	82749AD13	1

Art. 721

Air separator. 5 Female threaded connections to hold instruments (DN 3/8" ÷ 1/2"). Painted cast iron body.



ART.	SIZE	CODE	PACKAGING
721	1"	82721AF09	1
721	1" 1/4	82721AG09	1
721	1" 1/2	82721AH09	1
721	2"	82721AJ09	1

Art. 700

Automatic floating air vent. Compact model.



ART.	SIZE	CODE	PACKAGING	
700	3/8"	82700AC05	25	250
700	1/2"	82700AD05	25	250
700	3/8"	82700AC06	25	250
700	1/2"	82700AD06	25	250

Art. 700 + 710

Automatic floating air vent with check valve. Packed together. Compact model.



ART.	SIZE	CODE	PACKAGING	
700+710	3/8"	82700AC05 710	25	250
700+710	1/2"	82700AD05 710	25	250
700+710	3/8"	82700AC06 710	25	250
700+710	1/2"	82700AD06 710	25	250

H2) MANUAL AND AUTOMATIC AIR VENTS AND DRAIN COCKS



Art. 707

Automatic floating air vent. Regular size.

ART.	SIZE	CODE	PACKAGING			
707	3/8"	82707AC05	16	160		
707	1/2"	82707AD05	16	160		
707	3/4"	82707AE05	16	160		
707	3/8"	82707AC06	16	160		
707	1/2"	82707AD06	16	160		
707	3/4"	82707AE06	16	160		

Art. 707 + Art. 710

Automatic floating air vent with check valve. Packed together. Regular size.



ART.	SIZE	CODE	PACKAGING			
707+710	3/8"	82707AC05 710	1	50		
707+710	1/2"	82707AD05 710	1	50		

Art. 708

Automatic floating air vent. Big size. Manual use also available.



ART.	SIZE	CODE	PACKAGING			
708	3/8"	82708AC05	10	100		
708	1/2"	82708AD05	10	100		
708	3/8"	82708AC06	10	100		
708	1/2"	82708AD06	10	100		

Art. 709

Automatic floating air vent. Very small outside diameter particularly suitable for coplanar manifolds. Manual use also available.



ART.	SIZE	CODE	PACKAGING			
709	3/8"	82709AC05	25	250		
709	1/2"	82709AD05	25	250		
709	3/8"	82709AC06	25	250		
709	1/2"	82709AD06	25	250		

Art. 715

Angle automatic floating air vent. Nickel plated. Manual use also available.



ART.	SIZE	CODE	PACKAGING		
715	3/8"	82715AC06	100		
715	1/2"	82715AD06	100		
715	3/4"	82715AE06	100		

H2) MANUAL AND AUTOMATIC AIR VENTS AND DRAIN COCKS



Art. 719

Automatic floating air vent. Lateral discharge.

ART.	SIZE	CODE	PACKAGING			
719	3/8"	82719AC05	16	160		
719	1/2"	82719AD05	16	160		
719	3/8"	82719AC06	16	160		
719	1/2"	82719AD06	16	160		

Art. 710

Check valve for art. 700 - 707 - 708 - 709.



ART.	SIZE	CODE	PACKAGING		
710	3/8"	82710AC05	500		
710	1/2"	82710AD05	750		
710	3/8"	82710AC06	500		
710	1/2"	82710AD06	750		

Art. 711

Drain cock. Body made of nickel plated brass, revolving knob made of nylon. EPDM O-ring. 1/2" thread.



ART.	SIZE	CODE	PACKAGING		
711	1/2"	82711AD06	500		

Art. 135

Drain cock for boilers, ball valve with lever, hose and cap.



ART.	SIZE	CODE	PACKAGING		
135	1/2" M x Ø 15	90135AD05	1		

Art. 146

Ball valve drain cock for boiler. PN 10.



ART.	SIZE	CODE	PACKAGING		
146	1/2"	90146AD05	100		

H2) MANUAL AND AUTOMATIC AIR VENTS AND DRAIN COCKS



Art. 150
Drain cock for boiler. PN 10.

ART.	SIZE	CODE	PACKAGING
150	3/8"	90150AC05	100
150	1/2"	90150AD05	100
150	3/4"	90150AE05	50



Art. 152
Drain cock for boilers. Swivel and hose connection (without plug and chain) PN 10.

ART.	SIZE	CODE	PACKAGING
152	3/8"	90152AC05	100
152	1/2"	90152AD05	100
152	3/4"	90152AE05	50

H3) FUEL INTERCEPTION VALVES



Art. 602
Liquid and gaseous fuel interception valve. Manual resetting. Liquid expansion thermostatic element. Capillary lenght: 5 m. Temperature setting: 97°C ± 3°C. PN 6. Sensor side max. temperature 120°C. Valve side max. temperature 50°C. INAIL approved and set - The product complies the PED 2014/68/UE norm.

ART.	SIZE	CODE	PACKAGING
602	1/2"	90602AD05	1
602	3/4"	90602AE05	1
602	1"	90602AF05	1
602	1" 1/4	90602AG05	1
602	1" 1/2	90602AH05	1
602	2"	90602AJ05	1
602	DN65	90602AK05	1
602	DN80	90602AL05	1
602	DN100	90602AN05	1

H4) AUTOMATIC FILLING GROUPS



Art. 249
Heavy model filling group with stop cock and filter. 1/4" connection for gauge. Check valve. Max. inlet pressure 20 bar, adjustable outlet pressure from 1 to 6 bar (factory setting 1,5 bar), max. working temperature 90°C.

ART.	SIZE	CODE	PACKAGING
249	1/2"	91249AD05	1 50



We suggest to install the filling group with art. 50 at page 120



Art. 249 + Art. 244
Heavy model filling group with stop cock and filter. 1/4" connection for gauge. Check valve. Max. inlet pressure 20 bar, adjustable outlet pressure from 1 to 6 bar (factory setting 1,5 bar), max. working temperature 90°C. With gauge.

ART.	SIZE	CODE	PACKAGING
249+244	1/2"	91249AD05 244	1 50



We suggest to install the filling group with art. 50 at page 120

H4) AUTOMATIC FILLING GROUPS



Art. 250

Filling group with stop cock and filter. 1/4" connection for gauge. Check valve. Max. inlet pressure 16 bar, adjustable outlet pressure from 1 to 4 bar (factory setting 1,5 bar), max. working temperature 90°C.



ART.	SIZE	CODE	PACKAGING	
250	1/2"	91250AD05	1	50

We suggest to install the filling group with art. 50 at page 120



Art. 250 + Art. 244

Filling group with stop cock and filter. 1/4" connection for gauge. Check valve. Max. inlet pressure 16 bar, adjustable outlet pressure from 1 to 4 bar (factory setting 1,5 bar), max. working temperature 90°C. With gauge.



ART.	SIZE	CODE	PACKAGING	
250+244	1/2"	91250AD05 244	1	50

We suggest to install the filling group with art. 50 at page 120

H5) FLUIDS SUPPLY/DISCHARGE SYSTEMS



Art. 605

The double safety thermal drain valve prevents heat generators, such as biomass-fired boilers, from the overheating. When the temperature reaches 95°C the valve opens to release excess hot water. Opening temperature 95°C, Max. capacity: 93 KW - 80000 Kcal/h, max. water flow 2000 kg/h, 1/2" cockpit connection, 152 mm cockpit length.

PLEASE NOTE: the double safety consists of 2 thermostatic elements with 2 capillaries. In case of malfunction or accidental break of an element, the other one ensures the opening.

ART.	SIZE	CODE	PACKAGING
605	3/4"	90605AE05	1



Art. 608

Thermal drain valve. It prevents heat generators, such as biomass-fired boilers, from the overheating. When the temperature reaches 95°C the valve opens to release excess hot water. Opening temperature 95°C, Max. capacity: 93 KW - 80000 Kcal/h, max. water flow 2000 kg/h, 1/2" cockpit connection.

ART.	SIZE	CODE	PACKAGING
608	3/4"	90608AE05	1



Art. 606

Thermic drain valve. **INAIL approved**. Manual resetting and optical signal. Temperature setting 95°C, IP40.

TECHNICAL FEATURES:

Drainage potentiality:

- 1"1/4 176.750 Kcal/h equal to 7.070 l/h

- 1"1/2 318.200 Kcal/h equal to 12.728 l/h

ART.	SIZE	CODE	PACKAGING
606	1"1/4	90606AG05	1
606	1"1/2	90606AH05	1

H5) FLUIDS SUPPLY/DISCHARGE SYSTEMS



Art. 267

Thermal release valve. It prevents overheating in thermal generators, such as biomass-fired boilers. When the temperature of 95°C is reached, the valve opens, enabling hot water in excess to be discharged, and letting cold water flow into the boiler. Opening temperature 95°C, max. capacity: 93 KW - 80000 kcal/h, max. water flow 2000kg/h, cockpit connection 1/2.

ART.	SIZE	CODE	PACKAGING
267	3/4"	90267AE05	1

Art. 266

The temperature and pressure relief valve discharges the hot water contained in a storage tank when the temperature is over 100°C or when the pressure is exceeding valve set value. The valve closes when the pressure and/or the temperature decreases within the set tolerances. The valve starts opening at a temperature between 98°C and 100°C.



ART.	SIZE	ATM	CODE	PACKAGING
266	1/2" Mx 1/2" F	3	91266ADAF	1
266	1/2" Mx 1/2" F	6	91266ADAN	1
266	1/2" Mx 1/2" F	8	91266ADAQ	1
266	3/4" Mx 3/4" F	3	91266AEAF	1
266	3/4" Mx 3/4" F	6	91266AEAN	1
266	3/4" Mx 3/4" F	8	91266AEAQ	1

Art. 131

Male anti-condensation valve. Working temperature range 45°/55°/60°/70°. It automatically regulates at the set value the temperature of the water returning to the generator.



NEW

ART.	CONNECTIONS	CALIBRATION	CODE	PACKAGING
131	1" 1/4	45°	90131AF0545	1
131	1" 1/4	55°	90131AF0555	1
131	1" 1/4	60°	90131AF0560	1
131	1" 1/4	70°	90131AF0570	1
131	1" 1/2	45°	90131AG0545	1
131	1" 1/2	55°	90131AG0555	1
131	1" 1/2	60°	90131AG0560	1
131	1" 1/2	70°	90131AG0570	1

Art. 132

Anti-condensation valve with unions on the 3 ways. Working temperature range 45°/55°/60°/70°.

It automatically regulates at the set value the temperature of the water returning to the generator.



ART.	CONNECTIONS	CALIBRATION	CODE	PACKAGING
132	1"	45°	90132AF0545	1
132	1"	55°	90132AF0555	1
132	1"	60°	90132AF0560	1
132	1"	70°	90132AF0570	1
132	1" 1/4	45°	90132AG0545	1
132	1" 1/4	55°	90132AG0555	1
132	1" 1/4	60°	90132AG0560	1
132	1" 1/4	70°	90132AG0570	1

Art. 133

Female anti-condensation valve. Working temperature range 45°/55°/60°/70°. It automatically regulates at the set value the temperature of the water returning to the generator.

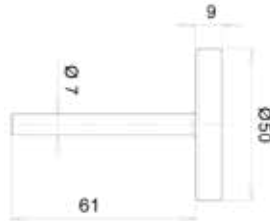


ART.	CONNECTIONS	CALIBRATION	CODE	PACKAGING
133	1"	45°	90133AF0545	1
133	1"	55°	90133AF0555	1
133	1"	60°	90133AF0560	1
133	1"	70°	90133AF0570	1
133	1" 1/4	45°	90133AG0545	1
133	1" 1/4	55°	90133AG0555	1
133	1" 1/4	60°	90133AG0560	1
133	1" 1/4	70°	90133AG0570	1

H5) FLUIDS SUPPLY/DISCHARGE SYSTEMS

Art. 134

Anti-condensation valve thermometer, 7 mm holder diameter, 0-120°C.



ART.	°C	CODE	PACKAGING
134	0-120	871340120	1

H6) DRAUGHT REGULATORS

Art. 147

Draught regulator for wood, carbon and multi-fuel boilers. Temperature regulation range 30-100°C. The draught regulator controls the flow of the air and modulates the fire intensity according to the request of the system.



TECHNICAL FEATURES:

- Wax thermostatic element: high precision and power
- Metallic body
- High temperature proof handwheel
- Regulating scale 30° ÷ 100°C
- Chain lenght: 1200 mm.
- 120° bended standard lever; from 120 mm to 145 mm; hain stroke 6 mm./10°C; force 0,850 Kg.
- 3/4" conical connection to the boiler; vertical or horizontal positioning

ART.	SIZE	CONNECTION THREAD	CODE	PACKAGING
147	3/4"	3/4"	90147AE06	1

H7) FLOW AND PRESSURE SWITCHES, THERMOSTATS, INAIL INSTRUMENTS UNIT

Art. 603

Manual resetting pressure switch with graduated scale for heating systems. Available in two versions:

- 1) Maximum (or safety) pressure switch: Pressure range: 1 - 5 bars, factory setting 3 bars. Contacts: 16A (10)A - 250V. IP44 protection degree. Max. fluid temperature 110°C.
- 2) Minimum pressure switch: Pressure range: 0,5 - 1,7 bars, factory setting 0,9 bars. Contacts: 16A (10)A - 250V. IP44 protection degree. Max. fluid temperature 110°C. The product complies with the PED 2014/68/UE norm.



ART.	SIZE	CODE	PACKAGING
603 MAX	1/4"	90603AB53	1
603 MIN	1/4"	90603AB05MIN	1

Art. 604

Flow switch for liquids. Suitable for pipes from DN 1" to DN 8". Aluminium body. Brass connection. Microswitch: 16(5)A. Max. working pressure: 10 bar. Max. working temperature: 120°C. Room temperature: 60°C. Protection degree IP64. The product complies with the 2006/95/CE norm.



ART.	SIZE	CODE	PACKAGING
604	1"	90604AF05	1

H7) FLOW AND PRESSURE SWITCHES, THERMOSTATS, INAIL INSTRUMENTS UNIT



Art. 610

Contact control thermostat, with two-metal sensor, setting range $0 \div 90^{\circ}\text{C}$, IP40, contacts capacity 16 (4) A 250 V~, 6 (1)A 400 V~, differential $6 \pm 2^{\circ}\text{C}$. CE approved.

ART.	CODE	PACKAGING
610	9061009053	1



Art. 611

Immersion thermostat, with switching contact. Bulb with cockpit, connection thread $1/2''$, 100 mm long included, setting range $0 \div 90^{\circ}\text{C}$, IP40, contact capacity 16 (4) A 250 V~, 6 (1)A 400V~, differential $6 \pm 2^{\circ}\text{C}$. CE and INAIL approved.

ART.	CODE	PACKAGING
611	9061109053	1



Art. 612

Immersion safety thermostat, fixed calibration, manual reset and positive safety device. Calibration valve 100°C . Bulb with cockpit, connection $1/2''$, 100 mm long included, contacts capacity 16 (4) A 250 V~, 6 (1)A 400 V~, CE approved.

ART.	CODE	PACKAGING
612	9061209053	1



Art. 613

Immersion control and safety thermostat (with manual reset). Setting range $0 \div 90^{\circ}\text{C}$ (differential $6 \pm 2^{\circ}\text{C}$), fixed calibration valve 100°C . Bulb with cockpit, connection thread $1/2''$ 100 mm long included, contacts capacity 16 (4) A 250 V~, 6 (1)A 400 V~, CE approved.

ART.	CODE	PACKAGING
613	9061309053	1



Art. 614

INAIL instrument holding stub for central heating systems. Instruments holding stub in galvanized steel, provided with safety thermostat, safety pressure switch, pressure gauge with cock and curl, thermometer, tap thread $1/2''$ for fuel on/off valve, cockpit thread $1/2''$ for INAIL inspection and connection thread $1/2''$ for INAIL safety valve (not supplied). Available with double - minimum and maximum - pressure switch.

ART.	MAX.PRES. SWITCH	MIN.PRES. SWITCH	SIZE	CODE	PACKAGING
614	•		1" 1/2	90614AH09	1
614	•		DN 50	90614AJ09	1
614	•		DN 65	90614AK09	1
614	•		DN 80	90614AL09	1
614	•		DN 100	90614AN09	1
614	•	•	1" 1/2	90614AH09MIN	1
614	•	•	DN 50	90614AJ09MIN	1
614	•	•	DN 65	90614AK09MIN	1
614	•	•	DN 80	90614AL09MIN	1
614	•	•	DN 100	90614AN09MIN	1

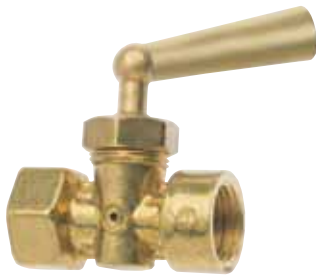
H8) GAUGES, THERMOMETERS, THERMOMANOMETERS, VALVES FOR GAUGES, CURL



Art. 158

Female gauge tap. PN 16. Max.working temperature 110°C.

ART.	SIZE	CODE	PACKAGING	
158	1/4"	90158AB05	100	
158	3/8"	90158AC05	100	
158	1/2"	90158AD05	50	



Art. 151

Female gauge tap. PN 16. Suitable for steam up to 140°C. Metallic gasket for high temperature.

ART.	SIZE	CODE	PACKAGING	
151	1/4"	90151AB05	100	
151	3/8"	90151AC05	100	
151	1/2"	90151AD05	50	



Art. 159

Three-way gauge tap. INAIL approved. PN16. Max.working temperature 110°C.

ART.	SIZE	CODE	PACKAGING	
159	1/4"	90159AB05	100	
159	3/8"	90159AC05	100	
159	1/2"	90159AD05	50	



Art. 160

Gauge tap. male-female connections. PN 16. Max.working temperature 110°C.

ART.	SIZE	CODE	PACKAGING	
160	1/4"	90160AB05	100	
160	3/8"	90160AC05	100	
160	1/2"	90160AD05	50	



Art. 153

Male/Female revolving curl for pressure gauge. Nickel plated. PN 25. Max.working temperature 200°C.

ART.	SIZE	CODE	PACKAGING	
153	1/4"	90153AB06	1	
153	3/8"	90153AC06	1	
153	1/2"	90153AD06	1	

H8) GAUGES, THERMOMETERS, THERMOMANOMETERS, VALVES FOR GAUGES, CURL

Art. 243

1/4" gauge. Back connection. Ø 63. When ordering please specify the operating pressure.



ART.	SIZE	ATM.	CODE	PACKAGING
243	1/4"	0 - 4	91243AB04	1
243	1/4"	0 - 6	91243AB06	1
243	1/4"	0 - 10	91243AB10	1

Art. 244

1/4" gauge. Radial connection. Ø 63. When ordering please specify the operating pressure.



ART.	SIZE	ATM.	CODE	PACKAGING
244	1/4"	0 - 4	91244AB04	1
244	1/4"	0 - 6	91244AB06	1
244	1/4"	0 - 10	91244AB10	1

Art. 257

0 - 6 bar gauge. Radial connection. **Max. pressure indication. Ø 63. INAIL approved.**



ART.	SIZE	ATM.	CODE	PACKAGING
257	1/4"	0 - 4	91257AB04	1
257	1/4"	0 - 6	91257AB06	1
257	1/4"	0 - 10	91257AB10	1

Art. 263

0 - 6 bar gauge. Back connection **with red hand for maximum pressure indication. Ø 63. INAIL approved.**



ART.	SIZE	ATM.	CODE	PACKAGING
263	1/4"	0 - 4	91263AB04	1
263	1/4"	0 - 6	91263AB06	1
263	1/4"	0 - 10	91263AB10	1

Art. 255

Radial connection gauge. Ø 80. When ordering please specify the operating pressure. **INAIL approved.**



ART.	SIZE	ATM.	CODE	PACKAGING
255	3/8"	0 - 4	91255AC04	1
255	3/8"	0 - 6	91255AC06	1
255	3/8"	0 - 10	91255AC10	1
255	3/8"	0 - 16	91255AC16	1
255	1/2"	0 - 4	91255AD04	1
255	1/2"	0 - 6	91255AD06	1
255	1/2"	0 - 10	91255AD10	1
255	1/2"	0 - 16	91255AD16	1

H8) GAUGES, THERMOMETERS, THERMOMANOMETERS, VALVES FOR GAUGES, CURL



Art. 282

Membrane gauge for gas with 1/4 radial connection. Ø 63.

ART.	SIZE	ATM. mbar	CODE	PACKAGING
282	1/4"	0 - 60	91282AB060	1
282	1/4"	0 - 100	91282AB100	1
282	1/4"	0 - 150	91282AB150	1
282	1/4"	0 - 250	91282AB250	1
282	1/4"	0 - 400	91282AB400	1
282	1/4"	0 - 600	91282AB600	1



Art. 283

Glycerine gauge with 1/4 radial connection. Max. operating temperature 160°C. Ø 63.

ART.	SIZE	ATM. mbar	CODE	PACKAGING
283	1/4"	0 - 6	91283AB06	1
283	1/4"	0 - 10	91283AB10	1
283	1/4"	0 - 16	91283AB16	1



Art. 258

Thermomanometer with check valve. Radial connection, temperature range 0 ÷ 120°C, pressure scale 0 ÷ 4 bar or 0 ÷ 6 bar. Pressure precision: CL 1,6. Temperature precision: CL 2.IP 34 protection degree.

ART.	SIZE	ATM.	°C	CODE	PACKAGING	
258	1/2"	0 - 4	0 - 120	91258AD04120	1	50
258	1/2"	0 - 6	0 - 120	91258AD06120	1	50
258	1/2"	0 - 10	0 - 120	91258AD10120	1	50



Art. 259

Thermomanometer with check valve. Back connection, temperature range 0 ÷ 120°C, pressure scale 0 ÷ 4 bar or 0 ÷ 6 bar. Pressure precision: CL 1,6. Temperature precision: CL 2.IP 34 protection degree.

ART.	SIZE	ATM.	°C	CODE	PACKAGING	
259	1/2"	0 - 4	0 - 120	91259AD04120	1	50
259	1/2"	0 - 6	0 - 120	91259AD06120	1	50
259	1/2"	0 - 10	0 - 120	91259AD10120	1	50



Art. 287

Thermometer with spring clip, 60 mm diameter.

ART.	SIZE	CODE	PACKAGING
287	0-120	872870120	10



Art. 207

Cockpit for thermometer art. 287.

ART.	SIZE	CODE	PACKAGING
207	3/8	87207AC05	100

I) Products and components for solar systems



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NEW



TEMPERATURE HYDRONIC REGULATION FOR SOLAR SYSTEMS

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SAFETY EQUIPMENTS FOR SOLAR SYSTEMS

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I1) PRE-ASSEMBLED GROUPS FOR SOLAR SYSTEMS

Art. S001

Delivery and return circulation group for primary circuits of solar systems. The flow goes from the solar panel to the boiler. It includes: interception ball valves with thermometers, pump for solar plants, air vent group, 6 bar safety valve, filling and drain taps to wash the system before filling, 0-12 Lt/min flowmeter to regulate the flow, antigravity check valve, gauge, thermal-proof shell. Suitable for fluids with up to 50% of glycol. Max working temperature 140°C.



- PWM signal cable not included. To be purchased separately (see page 201) when connecting to a PWM signal controller.



ART.	SIZE	PUMP	CIRCULATOR CONTROL SIGNAL		PWM SIGNAL CABLE	CODE	PACKAGING
			ON/OFF	PWM			
S001	3/4"	Wilo ST 20/6	√	X	X	93S001AE05	1
S001	3/4"	Grundfos 15/6	√	X	X	93S001AE05G	1
S001	3/4"	UPM3 15-75 • CIRCOL. ELETTRONICO	√	√	NOT INCLUDED	93S001S163	1
S001	3/4"	Wilo RSTG 15/7.5 CIRCOL. ELETTRONICO	√	√	INCLUDED	93S001S164	1
S001	3/4"	Wilo Yonos Para ST 15/6 CIRCOL. ELETTRONICO	√	X	X	93S001S165	1

Art. S002

Return circulation group for primary circuits of solar systems. The flow goes from the solar panel to the boiler. It includes: interception ball valves with thermometers, pump for solar plants, 6 bar safety valve, filling and drain taps to wash the system before filling, 0-12 Lt/min flowmeter to regulate the flow, anti-gravity check valve, gauge, thermal-proof shell. Suitable for fluids with up to 50% of glycol. Max working temperature 140°C.



- PWM signal cable not included. To be purchased separately (see page 201) when connecting to a PWM signal controller.



ART.	SIZE	PUMP	CIRCULATOR CONTROL SIGNAL		PWM SIGNAL CABLE	CODE	PACKAGING
			ON/OFF	PWM			
S002	3/4"	Wilo ST 20/6	√	X	X	93S002AE05	1
S002	3/4"	Grundfos 15/6	√	X	X	93S002AE05G	1
S002	3/4"	UPM3 15-75 • CIRCOL. ELETTRONICO	√	√	NOT INCLUDED	93S002S163	1
S002	3/4"	Wilo RSTG 15/7.5 CIRCOL. ELETTRONICO	√	√	INCLUDED	93S002S164	1
S002	3/4"	Wilo Yonos Para ST 15/6 CIRCOL. ELETTRONICO	√	X	X	93S002S165	1

11) PRE-ASSEMBLED GROUPS FOR SOLAR SYSTEMS

Art. S003

Delivery and return solar station for primary circuits of solar systems **with integrated controller**. The flow goes from the solar panel to the boiler. It includes: interception ball valves with thermometers, pump for solar plants, air vent group, 6 bar safety valve, filling and drain taps to wash the system before filling, 0-12 lt/min flowmeter to regulate the flow, anti-gravity check valve, gauge, thermal-proof shell. Suitable for fluids with up to 50% of glycol. Max working temperature 140°C. **It can be integrated with the microprocessor units art. S301 or art. S302**. Both have probes with all pump electronic connections and pre-connected temperature sensors. The solar controller art. S302 PWM is also available; combined with PWM circulators, ensures a high energy saving reducing electrical consumption.



ART.	SIZE	PUMP	CIRCULATOR CONTROL SIGNAL		PWM SIGNAL CABLE	CODE	PACKAGING
			ON/OFF	PWM			
S003+S301	3/4"	Wilo ST 20/6	√	X	X	93S003AE05 S301	1
S003+S302	3/4"	Wilo ST 20/6	√	X	X	93S003AE05 S302	1
S003+S301	3/4"	Grundfos 15/6	√	X	X	93S003AE05GS301	1
S003+S302	3/4"	Grundfos 15/6	√	X	X	93S003AE05GS302	1
S003+S301	3/4"	UPM3 15-75 CIRCOL. ELETTRONICO	√	√	NOT INCLUDED	93S003S163S301	1
S003+S302	3/4"	UPM3 15-75 CIRCOL. ELETTRONICO	√	√	NOT INCLUDED	93S003S163S302	1
S003+S302 PWM	3/4"	UPM3 15-75 CIRCOL. ELETTRONICO	√	√	INCLUDED	93S003S163S302P	1
S003+S301	3/4"	Wilo RSTG 15/7.5 CIRCOL. ELETTRONICO	√	√	INCLUDED	93S003S164S301	1
S003+S302	3/4"	Wilo RSTG 15/7.5 CIRCOL. ELETTRONICO	√	√	INCLUDED	93S003S164S302	1
S003+S302 PWM	3/4"	Wilo RSTG 15/7.5 CIRCOL. ELETTRONICO	√	√	INCLUDED	93S003S164S302P	1
S003+S301	3/4"	Wilo Yonos Para ST 15/6 CIRCOL. ELETTRONICO	√	X	X	93S003S165S301	1
S003+S302	3/4"	Wilo Yonos Para ST 15/6 CIRCOL. ELETTRONICO	√	X	X	93S003S165S302	1



Art. S004

Return circulation group for primary circuits of solar systems **with integrated controller**. The flow goes from the solar panel to the boiler. It includes: interception ball valves, pump for solar plants, air vent group, 6 bar safety valve, filling and drain taps to wash the system before filling, 0-12 lt/min flowmeter to regulate the flow, anti-gravity check valve, gauge, thermal-proof shell. Suitable for fluids with up to 50% of glycol. Max working temperature 140°C. **It can be integrated with the microprocessor units art. S301 or art. S302**. Both have probes with all pump electronic connections and pre-connected temperature sensors. The solar controller art. S302 PWM is also available; combined with PWM circulators, ensures a high energy saving reducing electrical consumption.



ART.	SIZE	PUMP	CIRCULATOR CONTROL SIGNAL		PWM SIGNAL CABLE	CODE	PACKAGING
			ON/OFF	PWM			
S004+S301	3/4"	Wilo ST 20/6	√	X	X	93S004AE05 S301	1
S004+S302	3/4"	Wilo ST 20/6	√	X	X	93S004AE05 S302	1
S004+S301	3/4"	Grundfos 15/6	√	X	X	93S004AE05GS301	1
S004+S302	3/4"	Grundfos 15/6	√	X	X	93S004AE05GS302	1
S004+S301	3/4"	UPM3 15-75 CIRCOL. ELETTRONICO	√	√	NOT INCLUDED	93S004S163S301	1
S004+S302	3/4"	UPM3 15-75 CIRCOL. ELETTRONICO	√	√	NOT INCLUDED	93S004S163S302	1
S004+S302 PWM	3/4"	UPM3 15-75 CIRCOL. ELETTRONICO	√	√	INCLUDED	93S004S163S302P	1
S004+S301	3/4"	Wilo RSTG 15/7.5 CIRCOL. ELETTRONICO	√	√	INCLUDED	93S004S164S301	1
S004+S302	3/4"	Wilo RSTG 15/7.5 CIRCOL. ELETTRONICO	√	√	INCLUDED	93S004S164S302	1
S004+S302 PWM	3/4"	Wilo RSTG 15/7.5 CIRCOL. ELETTRONICO	√	√	INCLUDED	93S004S164S302P	1
S004+S301	3/4"	Wilo Yonos Para ST 15/6 CIRCOL. ELETTRONICO	√	X	X	93S004S165S301	1
S004+S302	3/4"	Wilo Yonos Para ST 15/6 CIRCOL. ELETTRONICO	√	X	X	93S004S165S302	1



1) PRE-ASSEMBLED GROUPS FOR SOLAR SYSTEMS



Art. TAS001

Delivery and return circulation group for primary circuits of solar systems. The flow goes from the solar panel to the boiler. It includes: interception ball valves with thermometers, pump for solar plants, Wilo Para 15/1-7 or Grundfos 15/6, air vent group, 6 bar safety valve, filling and drain taps to wash the system before filling, 0-12 lt/min flowmeter to regulate the flow, antigravity check valve, gauge, thermal-proof shell. Suitable for fluids with up to 50% of glycol. Max working temperature 140°C.

- PWM signal cable not included. To be purchased separately (see page 201) when connecting to a PWM signal controller.



ART.	SIZE	PUMP	CIRCULATOR CONTROL SIGNAL		PWM SIGNAL CABLE	CODE	PACKAGING
			ON/OFF	PWM			
TAS001	3/4"	Wilo ST 20/6	√	X	X	TAS001AE05	1
TAS001	3/4"	Grundfos 15/6	√	X	X	TAS001AE05G	1
TAS001	3/4"	UPM3 15-75 CIRCOL. ELETTRONICO	√	√	NOT INCLUDED	TAS001S163	1
TAS001	3/4"	Wilo RSTG 15/7.5 CIRCOL. ELETTRONICO	√	√	INCLUDED	TAS001S164	1
TAS001	3/4"	Wilo Yonos Para ST 15/6 CIRCOL. ELETTRONICO	√	X	X	TAS001S165	1

Art. TAS003

Delivery and return solar station for primary circuits of solar systems with integrated controller. The flow goes from the solar panel to the boiler. It includes: interception ball valves with thermometers, pump for solar plants, air vent group, 6 bar safety valve, filling and drain taps to wash the system before filling, 0-12 lt/min flowmeter to regulate the flow, anti-gravity check valve, gauge, thermal-proof shell. Suitable for fluids with up to 50% of glycol. Max working temperature 140°C. It is integrated **with the microprocessor unit art. S306**. It has probes with all pump electronic connections and preconnected temperature sensors.

- PWM signal cable not included. To be purchased separately (see page 201) when connecting to a PWM signal controller.



ART.	SIZE	PUMP	CIRCULATOR CONTROL SIGNAL		PWM SIGNAL CABLE	CODE	PACKAGING
			ON/OFF	PWM			
TAS003	3/4"	Wilo ST 20/6	√	X	X	TAS003AE05	1
TAS003	3/4"	Grundfos 15/6	√	X	X	TAS003AE05G	1
TAS003	3/4"	UPM3 15-75 CIRCOL. ELETTRONICO	√	√	NOT INCLUDED	TAS003S163	1
TAS003	3/4"	Wilo RSTG 15/7.5 CIRCOL. ELETTRONICO	√	√	INCLUDED	TAS003S164	1
TAS003	3/4"	Wilo Yonos Para ST 15/6 CIRCOL. ELETTRONICO	√	X	X	TAS003S165	1

12) ELECTRONIC REGULATORS FOR SOLAR SYSTEMS



Art. S301

Microprocessor control unit for solar systems with backlit LCD display, 2 inputs for temperature sensors, 1 on-off output for pump control. The price includes 2 PT1000 temperature sensors with 1,5 mt. silicon cable.

ART.	CODE	PACKAGING	
S301	93S3010201	1	



Art. S302

Microprocessor control unit for solar systems with backlit LCD display, 3 inputs for temperature sensors, 1 modulating TRIAC output for pump control. A version with pump control with PWM signal is also available. The price includes 2 PT1000 temperature sensors with 1,5 mt. silicon cable.

ART.	CODE	PACKAGING	
S302	93S3020301	1	
S302 PWM	93S3020301PWM	1	



Art. S304

Microprocessor control unit for solar systems with backlit LCD display, 6 inputs for temperature sensors and 3 outputs, 2 modulating TRIAC outputs for pump control and 1 on-off output for a switching valve control. The price includes 2 PT1000 temperature sensors with 1,5 mt. silicon cable.

ART.	CODE	PACKAGING	
S304	93S3040603	1	



Art. S306

Microprocessor control unit for solar systems with backlit display, 3 inputs for temperature sensors, 1 modulating TRIAC output for pump control. The price includes 1 solar panel sensor and 1 boiler sensor with 2 mt. silicon cable.

ART.	CODE	PACKAGING	
S306	93S3060301	1	



Art. S307

Microprocessor control unit for solar systems with 3 inputs for temperature sensors and 2 outputs, 1 for pump control and 1 potential-free contact for a supplementary function. The price includes 2 NTC sensors.

ART.	CODE	PACKAGING	
S307	93S3070302	1	



NEW

Art. S308

Microprocessor control unit for solar systems with backlit LCD display, 5 inputs for temperature sensors, 2 modulating TRIAC output for pump control and 1 on-off output for a switching valve control. The price includes 2 PT1000 temperature sensors with 1,5 mt. silicon cable. **TRIAC outputs can also control pumps with PWM signal.**

ART.	CODE	PACKAGING	
S308	93S3080502	1	

12) ELECTRONIC REGULATORS FOR SOLAR SYSTEMS

Art. S310

PT1000 temperature sensor with 1,5 mt. silicon cable. Working temperature range -50°C + 200°C.



ART.	CODE	PACKAGING
S310	93S3100106	1

Art. S311

NTC temperature sensor.



ART.	MAX. TEMPERATURE	CODE	PACKAGING
S311	110°	93S3110106	1
S311	200°	93S3110206	1

13) TEMPERATURE HYDRONIC REGULATION FOR SOLAR SYSTEMS



Art. S100

Thermostatic mixer for solar systems. Male threaded tails, max. working pressure 10 bars, max. working temperature 100°C. Temperature setting on mixed way 30-60°C. Side hot/cold water inlets, **lower mixed way**.



ART.	SIZE	Kv m ³ /h	CODE	PACKAGING	
				1	10
S100	1/2"	1,5	93S100AD05	1	10
S100	3/4"	2	93S100AE05	1	10
S100	1"	3	93S100AF05	1	10



Art. S101

Thermostatic mixer for solar systems. Female threaded tails, max. working pressure 10 bars, max. working temperature 100°C. Temperature setting on mixed way 30-60°C. Side hot/cold water inlets, **lower mixed way**.



ART.	SIZE	Kv m ³ /h	CODE	PACKAGING	
				1	10
S101	1/2"	1,5	93S101AD05	1	10
S101	3/4"	2	93S101AE05	1	10
S101	1"	3	93S101AF05	1	10



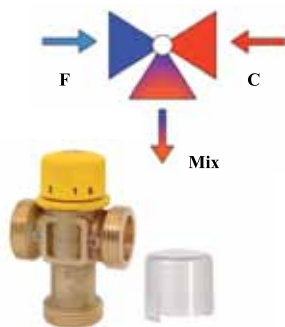
Art. S102

Thermostatic mixer for solar systems. Male threaded tails, **with check valve for high temperatures**, max. working pressure 10 bars, max. working temperature 100°C. Temperature setting on mixed way 30-60°C. Side hot/cold water inlets, **lower mixed way**.



ART.	SIZE	Kv m ³ /h	CODE	PACKAGING
S102	3/4"	2	93S102AE05	1 10

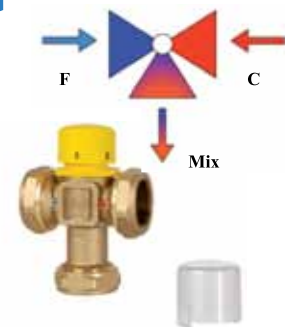
13) TEMPERATURE HYDRONIC REGULATION FOR SOLAR SYSTEMS



Art. S103

Thermostatic mixer with male tails. Max. working pressure 10 bars, max. working temperature 100°C. Temperature setting on mixed way 30-60°C. Side hot/cold inlets, **lower mixed way**.

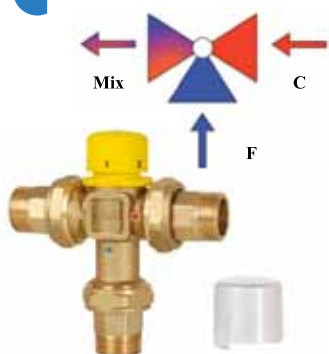
ART.	SIZE	Kv m ³ /h	CODE	PACKAGING	
S103	1"	2	93S103AE05	1	10



Art. S113

Thermostatic mixer for 22 mm diam. copper piping with fittings on the 3 ways. Max. working pressure 10 bars, max. working temperature 100 °C. Temperature setting on mixed way 30-60°C. Side hot/cold water inlets, **lower mixed way**.

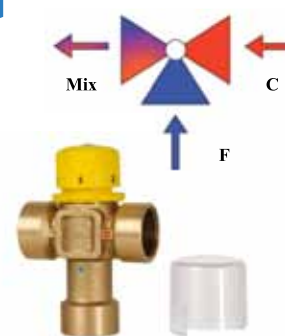
ART.	SIZE	ATTACKS	Kv m ³ /h	CODE	PACKAGING	
S113	3/4"	22 mm	2	93S113BJ05	1	10



Art. S107

Thermostatic mixer for solar systems. Male threaded tails, max. working pressure 10 bars, max. working temperature 100°C. Temperature setting on mixed way 30-60°C. **Side mixed way**, hot water side inlet, cold water lower inlet.

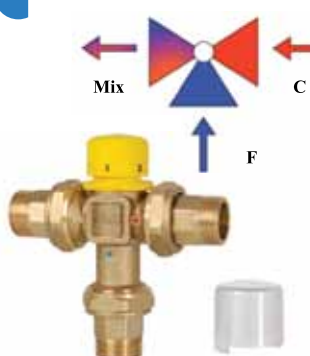
ART.	SIZE	Kv m ³ /h	CODE	PACKAGING	
S107	1/2"	1,5	93S107AD05	1	10
S107	3/4"	2	93S107AE05	1	10



Art. S108

Thermostatic mixer for solar systems. Female threaded tails, max. working pressure 10 bars, max. working temperature 100°C. Temperature setting on mixed way 30-60°C. **Side mixed way**, hot water side inlet, cold water lower inlet.

ART.	SIZE	Kv m ³ /h	CODE	PACKAGING	
S108	1/2"	1,5	93S108AD05	1	10
S108	3/4"	2	93S108AE05	1	10

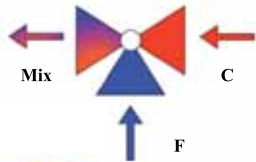


Art. S109

Thermostatic mixer for solar systems. Male threaded tails, **with check valve for high temperatures**, max. working pressure 10 bars, max. working temperature 100°C. Temperature setting on mixed way 30-60°C. **Side mixed way**, hot waterside inlet, cold water lower inlet.

ART.	SIZE	Kv m ³ /h	CODE	PACKAGING	
S109	3/4"	2	93S109AE05	1	10

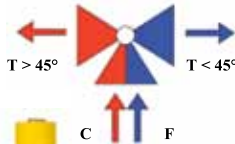
13) TEMPERATURE HYDRONIC REGULATION FOR SOLAR SYSTEMS



Art. S112

Thermostatic mixer with male connections. Max. working pressure 10 bars, Max. working temperature setting range 100°C. Temperature setting on mixed way 30-60°C. **Side mixed way**, hot water side inlet, cold water lower inlet.

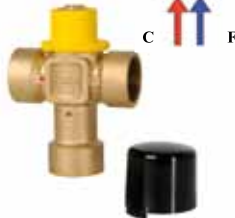
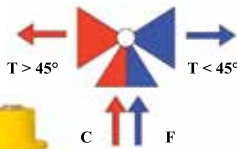
ART.	SIZE	Kv m ³ /h	CODE	PACKAGING	
S112	1"	2	93S112AE05	1	10



Art. S105

Diverting thermostatic valve. Male threaded tails, max. working pressure 10 bars, max. working temperature 100°C. 45°C temperature deviation. Inlet from lower way, deviation on side way.

ART.	SIZE	Kvs		CODE	PACKAGING	
		T us.>45°	T us.<45°			
S105	1/2"	1,3	1,2	93S105AD05045	1	10
S105	3/4"	1,6	1,4	93S105AE05045	1	10



Art. S106

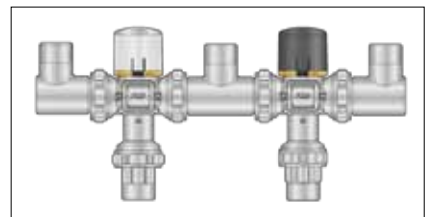
Diverting thermostatic valve. Female threaded connections, max. working pressure 10 bars, max. working temperature 100°C. 45°C temperature deviation. Inlet from lower way, deviation on side way.

ART.	SIZE	Kvs		CODE	PACKAGING	
		T us.>45°	T us.<45°			
S106	1/2"	1,3	1,2	93S106AD0545	1	10
S106	3/4"	1,6	1,4	93S106AE0545	1	10



Art. S170

Integration kit between the solar panel and the boiler for the production of hot sanitary water. The kit includes one 45°C diverting valve and one mixing valve; temperature setting 30-60°C. Check valve are included in the fittings. On demand, the protection shell art. S172 is available.



ART.	SIZE	Kvs	CODE	PACKAGING	
S170	3/4"	1,2	93S170AE0645	1	10

Art. S172

Protection shell for art. S170 and S171.



ART.	CODE	PACKAGING
S172	93S172AE66	1

14) SAFETY EQUIPMENTS FOR SOLAR SYSTEMS



Art. S120

Fixed setting (6 bars) safety valve for solar systems, female connections, max. working temperature 160°. *The product complies the Ped. 2014/68/UE norm - categoria IV D.M.1.12.75, D.Lgs.25.02.2000. CE n. 0425 approval.*



ART.	SIZE	CODE	PACKAGING	
S120	1/2"	93S120ADAN	1	10
S120	3/4"	93S120AEAN	1	10



Art. S121

Fixed setting (6 bars) safety valve for solar systems, with increased discharge, female connections, max. working temperature 160°. *The product complies the Ped. 2014/68/UE norm - categoria IV D.M.1.12.75, D.Lgs.25.02.2000. CE n. 0425 approval.*



ART.	SIZE	CODE	PACKAGING	
S121	1/2"-3/4"	93S121AEAN	1	10



Art. 740

High capacity deaerator, for solar systems. Max. working pressure 10 bars. Max. temperature 160°C.

ART.	SIZE	CODE	PACKAGING	
740	3/4"	82740AE05	1	10
740	1"	82740AF05	1	10
740	1"1/4	82740AG05	1	10
740	1"1/2	82740AH05	1	10



Art. S111

High efficiency automatic air vent valve for solar systems, with oil-free mechanism. The oilfree operation prevents the impurities of the fluid from depositing on the venting device. Max. working pressure 10 bars, max. temperature 160°C.

ART.	SIZE	CODE	PACKAGING
S111	1/2"	93S111AD05	1
S111	3/4"	93S111AE05	1



Art. S110

Air vent valve for solar systems. Max. working pressure 10 bars, max. temperature 130°C.

ART.	SIZE	CODE	PACKAGING
S110	1/2"	93S110AD05	1

I4) SAFETY EQUIPMENTS FOR SOLAR SYSTEMS



Art. S141

Fixing kit for expansion vessel consisting of a bracket, a connection pipe to the solar station, double check valve. It enables replacing the expansion vessel without emptying the system. Available with 1000 mm connection pipe, for shock-proof curl-siphon installation.

ART.	SIZE	PIPE LENGHT MM	CODE	PACKAGING
S141	3/4"	500	93S141AE05	1
S141	3/4"	1000	93S141AE10	1



Art. S142

Double check valve. It enables replacing the expansion vessel without emptying the system.

ART.	SIZE	CODE	PACKAGING
S142	3/4"	93S142AE05	1



Art. S131

Expansion kit for solar systems, consisting of an expansion vessel art. S130 and by the fixing kit art. S141. The 1000 mm pipe enables installation with shock-proof siphon.

ART.	SIZE	PIPE LENGHT MM	CODE	PACKAGING
S131	12 lt	500	93S131AE12500	1
S131	18 lt	500	93S131AE18500	1
S131	24 lt	500	93S131AE24500	1
S131	35 lt	500	93S131AE35500	1
S131	50 lt	500	93S131AE50500	1
S131	12 lt	1000	93S131AE121000	1
S131	18 lt	1000	93S131AE181000	1
S131	24 lt	1000	93S131AE241000	1
S131	35 lt	1000	93S131AE351000	1
S131	50 lt	1000	93S131AE501000	1



Art. S130

Expansion vessel for solar systems. Max. temperature 140°C.

ART.	SIZE	CODE	PACKAGING
S130	12 lt	93S130AE12	1
S130	18 lt	93S130AE18	1
S130	24 lt	93S130AE24	1
S130	35 lt	93S130AE35	1
S130	50 lt	93S130AE50	1



Art. 237

Male end plug.

ART.	SIZE	CODE	PACKAGING
237	3/4	87237AE05	10

J) Spare parts

J1) SPARE PARTS



Handwheel for TULIP-shaped valves with thermostatic option (3 components)
 White for art. 840, 841, 842, 843, 844, 845, 852, 853.
 Chromed for art. 1110, 1111, 1112, 1113.

COLOUR	CODE	
white	82950AC20	
chromed	82950AC07	



Handwheel for valves with thermostatic option.
 White for art. 970, 971, 972, 973, 974, 975, 966, 967, 869.
 Chromed for art. 930, 931, 934, 935.

COLOUR	CODE	
white	82984AC20	
chromed	82984AC07	

Protection cap for thermostatic valve.



SIZE	CODE	
3/8 - 1/2 - 3/4	05774AC34 for thread M28 05778AD34 for thread M30	



Handwheel for manual TULIP-shaped valves (3 components).
 White for art. 846, 847, 848, 849, 850, 851.

COLOUR	CODE	
white	01941AC22	



Handwheel for art. 921, 941 924, 944, 951 and 954. With white handwheel cover.

COLOUR	CODE	
white	01921AC22	

J1) SPARE PARTS



6 mm square ribbed handwheel. For art. 836, 832, 826, 828, 802, 812.

COLOUR	CODE	
white	01802AC22	



Plastic cap for art.922, 925, 942, 945, 962, 965, 822, 825, 862, 865.

SIZE	CODE	
3/8-1/2	05942AC38	



Plastic cap for art. 827 - 829 - 805 - 815 - 162 - 165.

SIZE	CODE	
3/8 - 1/2 - 3/4	05805AC38	



Handwheel for art.886.

COLOUR	CODE	
white	01886AC22	



Handwheel for art. 856.

COLOUR	CODE	
white	01856AC22	

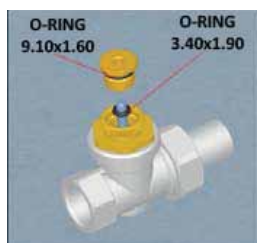
J1) SPARE PARTS



Flowmeter for art. K063

CODE	
873040006	

2 spare o-rings for thermostatic insert.



CODE	
CA012970AC05	

Protection cap for manifolds with valves with thermostatic option.



SIZE	CODE	PREZZO €
1"	01170AE38	3,18
1"1/4	01181AE38	3,18

Thermostatic insert with valve for manifolds



SIZE	CONNECTION	CODE	
1"	M24x1,5	871750006	
1"	3/4 Euroconus	87175AE06	
1"1/4	3/4 Euroconus	87181AE06	

Thermostatic insert and lockshield with micrometric adjustment.



SIZE	CONNECTION	CODE	
1"	M24x1,5	871760006	
1"	3/4 Euroconus	87176AE06	
1"1/4	3/4 Euroconus	87182AE06	

J1) SPARE PARTS

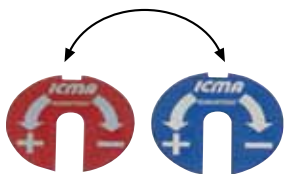


Handwheel for art. 210 - 211 - 227 - 228 - 229.

COLOUR	CODE	
white	01225AE22	



Hot/cold plate for art. 76: one side red - the other side blue.



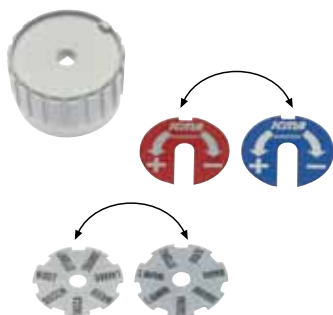
CODE	
03227AE50	



Double face plate with descriptions for sanitary and heating system. For art.76



LANGUAGE	CODE	
ITALIAN	03227AE51	
HUNGARIAN	03227AE52	
RUSSIAN	03227AE59	
GREEK	03227AE60	
SPANISH	03227AE61	



Kit including:
Handwheel for Art. 210 - 211 - 227 - 228 - 229.
Hot/cold plate: one side red - the other side blue for Art. 76.
Double face plate with descriptions for sanitary and heating system for art. 76.

LANGUAGE	OUTLETS	CODE	
ITALIAN	2	CSA2272IT	
HUNGARIAN	2	CSA2272UN	
RUSSIAN	2	CSA2272RU	
GREEK	2	CSA2272GR	
SPANISH	2	CSA2272SP	
ITALIAN	3	CSA2273IT	
HUNGARIAN	3	CSA2273UN	
RUSSIAN	3	CSA2273RU	
GREEK	3	CSA2273GR	
SPANISH	3	CSA2273SP	



Cap for art. 875 - 877



SIZE	CODE	
1/2	05875AD06	



J1) SPARE PARTS

Gasket for cap for art. 875 - 877



SIZE	CODE	
1/2	53875AC46	

Screw 7 MA for art. 820 - 823 - 860 - 863.



CODE	
02860AC06	

Screw 4 MAX30 for art. 856.



CODE	
02856AC06	

Screw 4 MAX10 for art. 921 - 924 - 951 - 954 - 941 - 944 - 826 - 828 - 812 - 161 - 886 - 888 - 164 - 249 - 250.



CODE	
02802AC06	

"O" ring for radiator union art. 72 and art. 940.



SIZE	CODE	
3/8	P10000140	
1/2	P10000240	
3/4	P10000340	
1"	P10000440	
1" 1/4	P10000540	

J1) SPARE PARTS

Radiator union.



SIZE	CODE	
3/8	45808AC06	
1/2	45808AD06	
3/4	45808AE06	
1"	45808AF06	
1" 1/4	45808AG06	

Nut.



SIZE	CODE	
3/8	46808AC06	
1/2	46808AD06	
3/4	46808AE06	
1"	46808AF06	
1" 1/4	46808AG06	

Gasket for the seat of the radiator union art. 940.



SIZE	CODE	
3/8	51940AC41	
1/2	51940AD41	

Nut for art. 940.



SIZE	CODE	
3/8-1/2	46940AD06	

Shutter guide for art. 856.



SIZE	CODE	
1/2	40856AD31	

J1) SPARE PARTS



Shutter guide for art. 886.

SIZE	CODE	
1/2	40886AD31	



Probe.

SIZE	CODE	
1/2	32856AD20	
3/4	32856AE20	
1"	32886AF20	



Support for probe. For single pipe radiator connection.

SIZE	CODE	
1/2	31891AD31	
3/4	31891AE31	
1"	31886AF31	



Tail for single pipe radiator union.

SIZE	CODE	
right thread 1/2	45886AD06	
3/4	45886AE06	
1"	45886AF06	
left thread 3/4	45886AS06	
1"	45886AT06	



Gasket for single pipe radiator union.

SIZE	CODE	
1/2 - 3/4 - 1"	14886AD01	

J1) SPARE PARTS

Nut for single pipe system.



SIZE	CODE	
1/2 - 3/4 - 1"	46886AD06	



Upper connection for art. 880.

SIZE	CODE	
1/2	42880AD06	



Plug for art. 880

SIZE	CODE	
3/8	05880AD06	



Lower connection for art. 880.

SIZE	CODE	
1/2	41880AD06	



Patent-pending diaphragm for art. 880.

CODE	
43880AD20	

J1) SPARE PARTS

Ø 15 nut for art. 880.



SIZE	CODE	
1/2x15	52320GE06	

Ø 15 olive for art. 880.



SIZE	CODE	
15	S2880AD45	



Patent-pending external connection for single pipe valve. It includes art. 30 - 31 - 32 - 33 - 34- 35. All in one package.

SIZE	CODE	
1/2	81880AD06	

Plug and chain for art. 150.



SIZE	CODE	
3/8	90155AC05	
1/2	90155AD05	
3/4	90155AE05	

Plug and chain for art. 146 and art. 144.



SIZE	CODE	
1/2	90156AD05	

J1) SPARE PARTS

Screw 4 Mx8 for Art. 210 - 211 - 227 - 228 - 229 - 231.



CODE
02210AE06

Nut for art. 887.



SIZE	CODE
1"	46887AD06

Lower connection for art. 887.



SIZE	CODE
1/2	41887AD06

Patent-pending diaphragm for art. 887.



SIZE	CODE
1/2	43887AD28

Key for art. 887.



CODE
81039AD32

J1) SPARE PARTS



Shutter guide for art. 887.

CODE	
40887AD28	



Chromed sealing tail.

SIZE	CODE	
1/2	45927AD07	



Blocking ring for electrothermic actuators art. 981 - 982 - 983 - 978 - 979 - 980.

SIZE	CODE	
M28x1,5	22009AY06	
M30X1,5	22010AZ06	

Line for manifolds with box.



CODE	
111960E06	

Gasket for single-pipe tail art. 891 - 856.



SIZE	CODE	
1/2 - 3/4	14891AD41	

J1) SPARE PARTS



Probe holder for single-pipe tail art. 890 - 894

SIZE	CODE	
1/2 - 3/4	31890AD31	



Nut, tail and gasket for ball valves art. 215, 225, 216, 226.

SIZE	CODE	
1"	87265AF06	



Patent-pending external connection for single pipe valve art. 887, all in one package.

SIZE	CODE	
1/2	81881AD06	



Cap for plastic box art. 194.

SIZE	CODE	
31	061940020	
40	061940H20	
50	061940I20	
60	061940L20	



Key for tamper-proof shell.

CODE	
82998AC06	

J1) SPARE PARTS

Tail for single-pipe valve art. 891.



SIZE	CODE	
1/2	45891AD06	
3/4	45891AE06	

Matching ring for the installation of electrothermic actuator on TULIP-shaped valves.



CODE	
22023AY20	

Flowmeter for manifolds of underfloor heating systems, provided with connection/fitting.



SIZE	CODE	
0-4 3/4	87168AE06	
0-4 - 24x1,5	871680006	
0-8	87180AE06	

Bushing with plastic ring for Sempiter and Sempigas fittings.



SIZE	PRODUCT RANGE	CODE	
16x2	Sempiter	C22400GH250	
20x2	Sempiter	C22400BQ250	
26x3	Sempiter	C22400GP250	
32x3	Sempiter	C22400GQ250	
40x3,5	Sempiter	C22400GS06	
50x4	Sempiter	C22400GT06	
16x2	Sempigas	C22400GH25G	
20x2	Sempigas	C22400BQ25G	
26x3	Sempigas	C22400GP25G	

O'ring for Sempiter and Sempigas fittings.



SIZE	PRODUCT RANGE	CODE	
16x2 (8,5x1,5)	Sempiter	CP10010743	
20x2 (13x1,5)	Sempiter	CP10010843	
26x3 (15x2)	Sempiter	CP10010943	
32x3 (21x2)	Sempiter	CP10011043	
40x3,5	Sempiter	CP10012043	
50x4	Sempiter	CP10013043	
16x2 (8,5x1,5)	Sempigas	CP10010750	
20x2 (13x1,5)	Sempigas	CP10010850	
26x3 (15x2)	Sempigas	CP10010950	

J1) SPARE PARTS

Art. 789

Female-female plane seat union with nut and gasket. It can be used on asynchronous and electronic pumps.



ART.	SIZE	BRASS CODE	PACKAGING
789	1/2" F - 1" F	82789AD05	1
789	3/4" F - 1" 1/2 F	82789AE05	1
789	1" F - 1" 1/2 F	82789AF05	1

Art. P320-P321

Circulator for closed loop heating systems, distance between centers 130 mm.

NOT FOR SALE IN THE EU



SIZE	FEATURES	MODEL	CODE
1" 1/2	25/40	Grundfos	88P3200153
1" 1/2	25/65	Grundfos	88P3210153
1" 1/2	25/40	Wilo	88P3200153W
1" 1/2	25/60	Wilo	88P3210153W

Art. P326

Electronic circulator Grundfos UPS2 for heating systems.



SIZE	FEATURES	CODE
1" 1/2	25/60	88P3260153

Art. P327

WILO YONOS PARA RS 25 / 7.5 RKA pump for electronic heating systems. Variable ΔP , constant ΔP .



SIZE	FEATURES	CODE
1" 1/2	25/7,5	88P3270153

Art. P328

Grundfos UPM3 HYBRID 25-70 electronic circulator, 130 mm centre distance. Proportional pressure, constant pressure, constant curves, AUTO ADAPT, PWM signal. POWER SUPPLY CABLE INCLUDED. The pump can be controlled via PWM signal. PWM signal cable **NOT INCLUDED**.



SIZE	FEATURES	CODE
1" 1/2	25/70	88P3280153

J1) SPARE PARTS



Art. P330

WILO Yonos Para RS 25/6 130 RKA electronic pump. Variable ΔP , constant ΔP .



SIZE	FEATURES	CODE	
1"1/2	25/6	88P3300153	



Art. S160

Circulation pump for solar systems, distance between centers 130 mm. NOT FOR SALE IN THE EU.

SIZE	FEATURES	CODE	
1"	15/60	88S1600199G	
1"	20/60	88S1600199	



Art. S163

Grundfos UPM3 15-75 electronic pump for solar systems. Constant curves. POWER SUPPLY CABLE INCLUDED. PWM signal cable **NOT INCLUDED**.



SIZE	FEATURES	CODE	
1"	15/75	88S1630199	



Art. S164

Circulator for solar systems WILo Yonos Para RSTG15-75 pump for solar systems, distance 130 mm. It can be controlled via PWM signal. Power supply and signal included. Variable ΔP , constant speed.



SIZE	FEATURES	CODE	
1"	15/75	88S1640199	



Art. S165

WILo Yonos Para ST 15/6 RKC electronic pump for solar systems. Power supply cable included. Variable ΔP , constant speed.



SIZE	FEATURES	CODE	
1"	15-6	88S1650199	

J1) SPARE PARTS



Linear connector for UPM3 pump power supply. 1 mt length. For pumps art. P328 and S163.

CODE	
C65P3280153	



PWM signal connector for UPM3 pump. 1 mt length. For pumps art. P328 and S163.

CODE	
C64P3280153	



Delivery group for solar stations, consisting of a ball valve with thermometer, deaerator and manual vent valve.

SIZE	CODE	
3/4"	GMS001AE05	



Deaerator for solar stations. 0-ring with revolving ring at one side, and G3/4" F on the other side.

SIZE	CODE	
3/4"	93725AE05	



Flowmeter for solar systems. Capacity 0-12 l/min, seal with cap and gasket, plane seat on one side and G3/4" F on the other side.

SIZE	PORTATA	CODE	
3/4"	0-12 l/min	93741AE05	

J1) SPARE PARTS

Fitting provided with pressure gauge 0-10 bars, loading/unloading cock, connection G1/2 for safety valve, connection G3/4" for expansion vessel. Seal with gasket, plane seat on one side and G3/4"F on the other side.



SIZE	CODE	
3/4"	93742AE05	

Ball valve for solar systems, for primary circuit of delivery/return piping with built-in thermometer and brass check valve. Seal with cap and gasket, plane seat at one side and G3/4"F on the other side.



SIZE	DESCRIPTION	CODE	
3/4"	DELIVERY	93733AE0535	
3/4"	RETURN	93733AE0536	

Delivery/return group fixing kit, consisting of screw M8x35 TE and washer 8,5x24.5x2.



CODE	
93KES00106	

GENERAL SALES CONDITIONS

> ORDERS

All orders are subject to our confirmation and do not bind ICMA to the delivery, even partial, of the ordered material. In case of payment difficulties, ICMA has the right to suspend the deliveries to the buyer.

> PRICES

Unless otherwise specified, valid prices are those in force at the time of the order. Prices are meant for goods delivered EX-WORKS Cuggiono.

> SHIPMENTS

Goods are carried at buyer's risk and danger. ICMA is not liable for any shortages occurred during the travel. In case of damages occurred during the transport, ICMA will accept the return of the damaged goods, only if the buyer has expressed reservations on the transport's paper and has informed ICMA within eight solar days.

> WARRANTY

All our products have a 2-year guarantee starting from the date of purchase at ICMA. This guarantee binds us only to replace the faulty pieces, which must be returned to our factory, and not to any damage or reimbursement of expenses. We are absolutely not responsible for faults owing to any tampering of the materials supplied by us during their utilisation or installation.

> CLAIMS

No complaints will be considered after 30 days from invoice date.

> RETURNS

Returned goods are not accepted without our previous authorization. Goods have to be returned free destination to our factory in Cuggiono. The value of the returned goods is declassified depending on the time elapsed from the delivery date:

within 6 months: 15%

within 12 months: 20%

within 24 months: 50%

We do not accept returned goods of underfloor heating systems.

After 6 months from sale, no replacement for articles 260 and 602 is accepted.

> PAYMENT

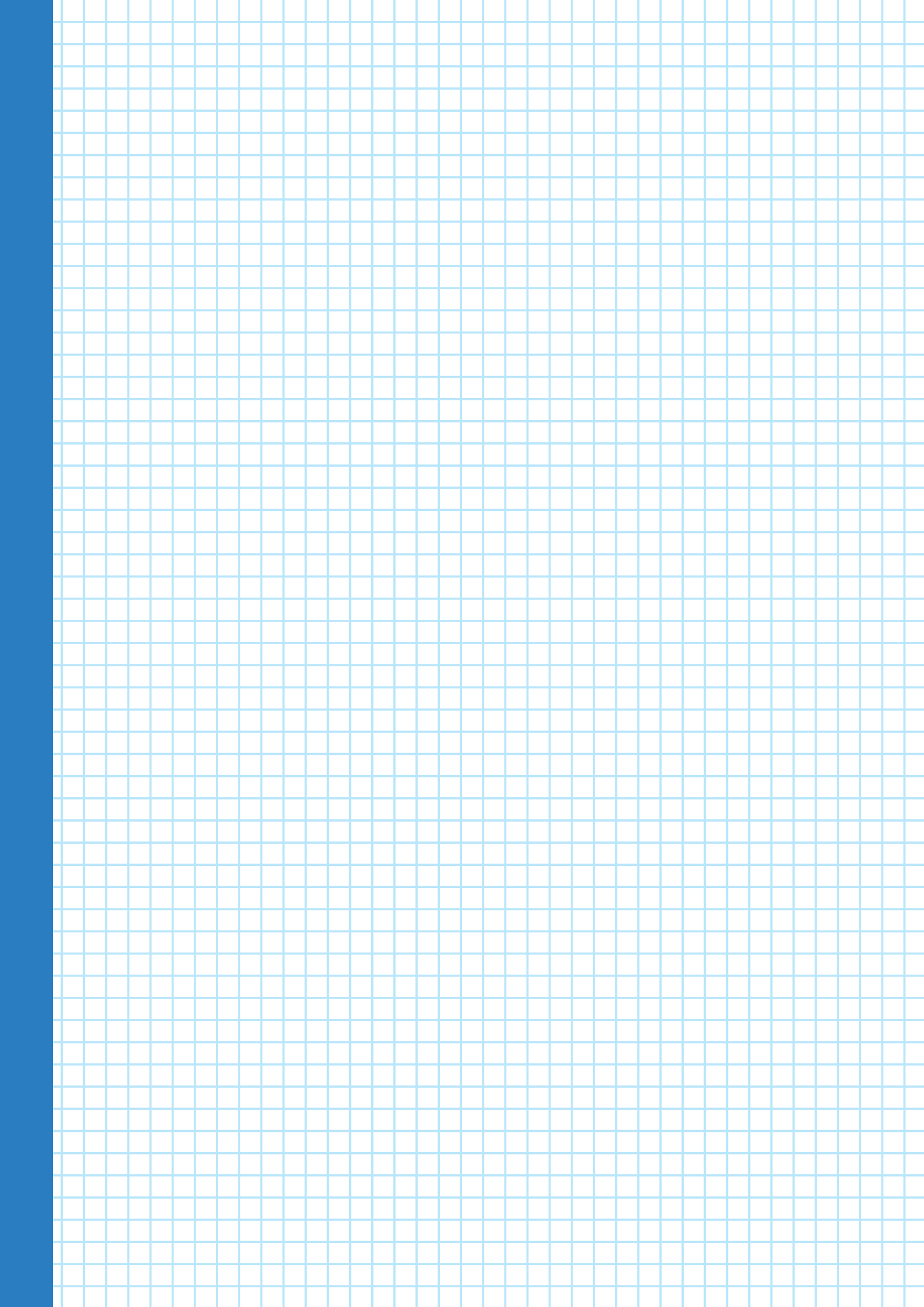
The terms are those established in the commercial offer. In case of delay of payments Euribor interest rate plus additional 3% will be charged. Should the goods be delivered before payment of all owing amounts, these goods remain the property of ICMA until payment has been settled in full.

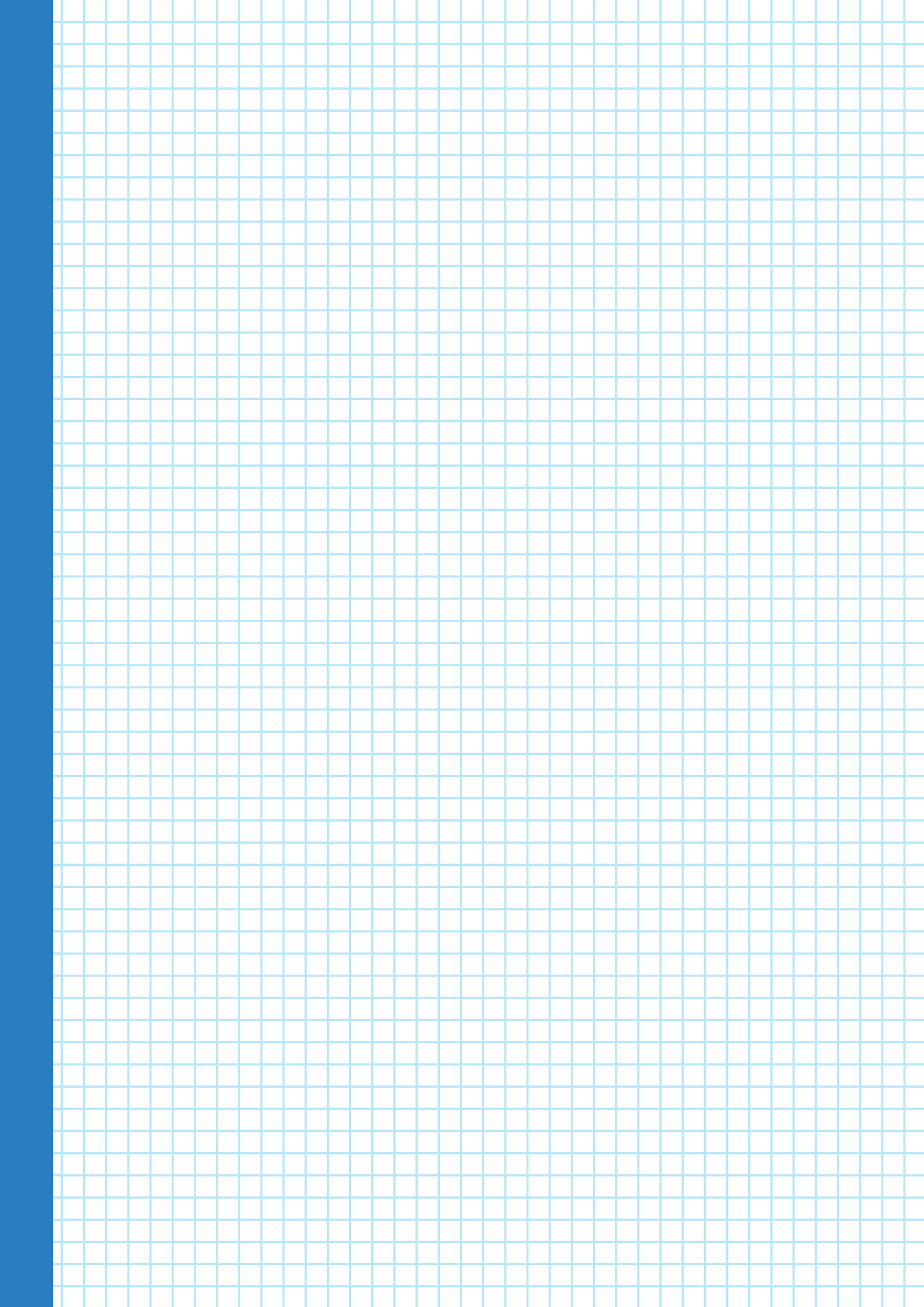
> CHANGES

ICMA retains the right to introduce any necessary technical modification without prior notice.

> CONTROVERSY

The competent court for any controversy is the Court of Milan, detached section of Rho.







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