



SYSTEM I-PERT

**PIPE PE-RT Type II
+
ACCESSORIES I-PERT**



CERTIFIED BY AENOR

CLASS / FIELD OF APPLICATION

CLASS 1: Hot water 60° C.

CLASS 2: Hot water 70° C.

CLASS 4: Underfloor heating / cooling and radiators at low temperature.

CLASS 5: Heating by radiators at high temperature.



DESIGN PRESSURE

Ø 16 : 1/8; 2/8; 4/8; 5/6
Ø 20, Ø 25, Ø 32, : 1/6; 2/6; 4/6; 5/4

In accordance with the UNE-EN ISO 22391 standard

OUR PE-RT TUBES Type II



CHARACTERISTICS:

Our PE-RT pipes are manufactured using PE-RT Type II (temperature resistant polyethylene), according to the UNE-EN ISO 22391 standard and are intended for use in hot and cold water installations inside inhabited buildings.

PERT (Polyethylene resistant to temperature):

The polymeric resin used for the manufacture of our tubes is composed of a copolymer of ethylene and octene of last generation that provides the pipeline with an increase in its long-term hydrostatic resistance. The use of PE-RT Type II (temperature resistant polyethylene) in the pipes also gives them the following properties:

- **Resistance to corrosion:**

The fact of manufacturing the pipe with PE-RT Type II (Polyethylene resistant to temperature) gives it great resistance to corrosion, both against external attack (protection against the environment, contact with building materials, etc.), as well as internal attack produced by corrosive waters.

- **Roughness:**

The low coefficient of Roughness that the pipe presents (0.0004 mm), decreases the loss of load in the installation achieving a reduction of the costs of pumping of the fluids transported in the same. It also helps to reduce the formation of scale.

- **Environment:**

ISOLTUBEX pipes manufactured with PE-RT Type II (Polyethylene resistant to temperature) are fully recyclable.



APPLICATIONS:

The applications of the pipeline I-PE-RT Type II are especially indicated for the distribution of sanitary water in indoor installations, of sanitary hot water both at a centralized and individual level.

ACCESSORIES PRESS FITTING FOR PIPE PE-RT TYPE II



CHARACTERISTICS:

The PRESS FITTING ISOLTUBEX accessories for PE-RT Type II pipes (temperature resistant polyethylene) have been designed from Ø16 to Ø32, developed with the aim of obtaining the maximum performance of resistance and safety in the hydraulic or heating installations.

The operation of joining PRESS FITTING ISOLTUBEX fittings with a PE-RT Type II (Temperature Resistant Polyethylene) tube must necessarily be carried out with an electric press that guarantees a thrust force of 32 Kn / cm² and adopts "RFz" type clamps or "RFlz", which will deform the stainless steel cap (AISI 304), irreversibly joined tube and accessory.

Our accessories are made with high quality brass; CW617N, according to UNE-EN-1254 standard.

The inspection holes located at one end of the stainless steel bushing allow us to verify that the tube has indeed been inserted to the end of the fitting.

The range of our PRESS FITTING accessories is very complete (Ø16 to Ø32).

The PRESS FITTING accessories are designed to build together with our PE-RT Type II pipes (temperature resistant polyethylene) the "I-PERT System".

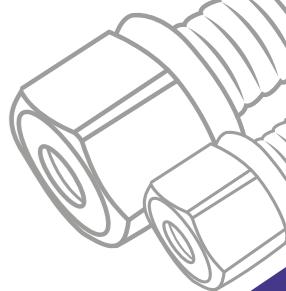
System certified by AENOR in accordance with the UNE-EN ISO-22391 standard.

PRESS FITTING accessories, are easily identifiable, our logo or our brand is indelibly marked, both in the body of the accessory, as in the stainless steel ferrules.



ADVANTAGE

1. Accessory of high quality brass CW617N, manufactured with calibrated bar for straight figures (union, reduction, etc.) or hot forging process for other figures (elbows, tees, etc.), ensuring a compact structure.
2. Very easy to install.
3. Perfect sealing, ensuring a long service life.
4. Plastic seal (holds the stainless steel cap to the brass body).
5. Attractive exterior appearance design.
6. Valid for cold water installations, A.C.S. and underfloor heating or radiators.



ASSEMBLY INSTRUCTIONS FOR Y-PERT SYSTEM

Before starting the assembly check that the tubes are not broken, bent, damaged or apparently not suitable for installation. It is also necessary to check that the accessories to be used appear without any dirt residues in any of their components or present any anomaly or deterioration that prevents their correct use.

VERY IMPORTANT: THE USE OF DETERIORATED TUBES AND / OR ACCESSORIES, IN BAD CONDITION OR IN CONDITIONS OF CONSERVATION OR MAINTENANCE NOT SUITABLE FOR INSTALLATION, EXCLUDES THE WARRANTY. (see warranty page and general conditions)



All assembly processes in our channel YouTube



Cut the tube perpendicular to its length, using for it a tool that guarantees a clean and precise cut.



Insert the stainless steel cap into the tube, in the position that the inspection holes are located at the end of the tube.



The fitting must be inserted in the tube to its base so that the stainless steel cap is attached to the anti-electrolysis plastic gasket.

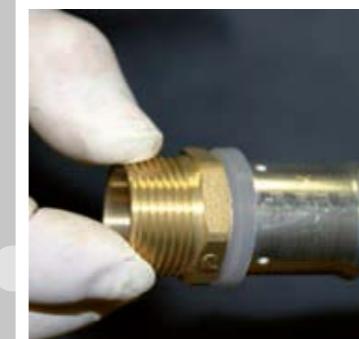


Position the pliers, of the measure corresponding to the tube, in the stainless steel cap, as close as possible to the electrolysis joint.

USE RFz and RFz JAWS.



ATTENTION. Isoltubex is not responsible for the problems that may arise from the use of inadequate jaws or in poor condition.



Proceed to the pressing: It is very important to use electric or battery presses, which guarantee a thrust force of 32 KN / cm². It is advisable to use only approved tools.

Remember, the machines and jaws have a limited life, check that your pressing equipment is in perfect working order and that the jaws have not suffered wear and tear due to use.

After pressing, remove the pliers, the connection has already been made.

Consult technical manual of your machine and jaws. Follow the manufacturer's instructions.



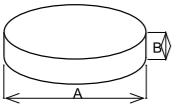


THESE TUBES TOGETHER WITH THE I-PERT ACCESSORIES, CONFORM THE ISOLTUBEX I-PERT SYSTEM, CERTIFICATE ISSUED BY AENOR ACCORDING TO THE UNE-EN ISO 22391 STANDARD.

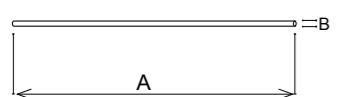
PIPE PE-RT Type II



WITH UV PROTECTION FOR EXTERIOR INSTALLATIONS
BLACK COLOR

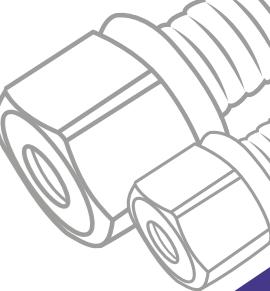


POLYETHYLENE TUBE RESISTANT TO THE TEMPERATURE
-NATURAL-



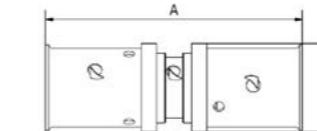
PE-RT PIPE IN ROLL

Reference	Ø Tube	Meters Rolls	Meters Roll		Weight Roll	PALET	
			A	B		nº Rolls	Weight
			mts.	cm	kg	uns.	kg
PERT16-R25	16 x 1,8	25	55,0	14,0	1,90	20	38,0
PERT16-R100	16 x 1,8	100	63,0	17,5	7,60	24	182,4
PERT16-R200	16 x 1,8	200	75,0	19,0	15,20	18	273,6
PERT20-R25	20 x 1,9	25	57,5	17,0	2,55	12	30,6
PERT20-R100	20 x 1,9	100	67,0	21,5	10,20	22	224,4
PERT20-R200	20 x 1,9	200	77,0	25,0	20,40	16	326,4
PERT25-R50	25 x 2,3	50	83,0	20,0	7,70	16	123,2
PERT32-R50	32 x 2,9	50	93,0	17,0	12,45	16	199,2



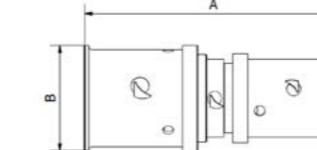
THESE TUBES TOGETHER WITH THE I-PERT ACCESSORIES, CONFORM THE ISOLTUBEX I-PERT SYSTEM, CERTIFICATE ISSUED BY AENOR ACCORDING TO THE UNE-EN ISO 22391 STANDARD.

ACCESSORIES I-PERT For tube 16x1.8, 20x1.9, 25x2.3, 32x2.9



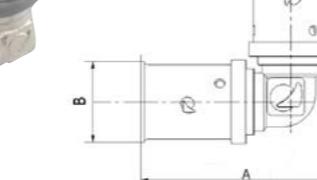
UNION

Reference	Measure	A	B	Weight	Box	Box
PU16	16	57,20	20,30	44	45	360
PU20	20	57,20	24,30	61	30	240
PU25	25	73,00	30,28	106	15	120
PU32	32	73,40	37,30	149	10	80



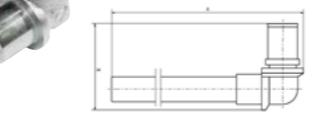
REDUCER

Reference	Measure	A	B	Weight	Box	Box
PR2016	20 - 16	57,20	24,30	55	37	296
PR2516	25 - 16	65,10	30,28	80	20	160
PR2520	25 - 20	65,10	30,28	86	20	160
PR3216	32 - 16	65,30	37,30	104	12	96
PR3220	32 - 20	65,30	37,30	114	12	96
PR3225	32 - 25	73,20	37,30	132	12	96



ELBOW

Reference	Measure	A	B	Weight	Box	Box
PC16	16	46,40	20,40	50	32	256
PC20	20	49,85	24,50	81	22	176
PC25	25	64,15	30,30	136	11	88
PC32	32	71,35	37,30	196	6	48



RADIATOR ELBOW

Reference	Measure	A	B	Weight	Box	Box
PCR1615	16 - 15	230,00	51,57	130	6	108



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ACCESSORIES I-PERT

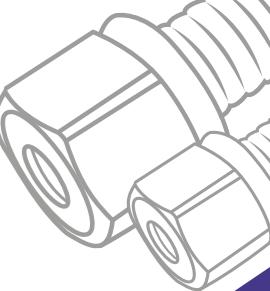
For tube 16x1.8, 20x1.9, 25x2.3, 32x2.9



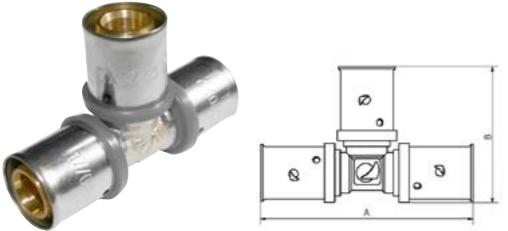
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ACCESSORIES I-PERT

For tube 16x1.8, 20x1.9, 25x2.3, 32x2.9



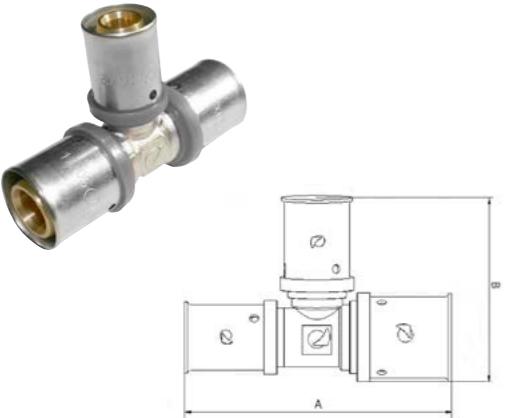
TEE



TEE

Reference	Measure	A	B	Weight		
PT16	16	71,20	45,75	75	20	160
PT20	20	75,20	49,75	107	14	112
PT25	25	98,00	64,14	192	6	48
PT32	32	105,40	71,05	273	4	32

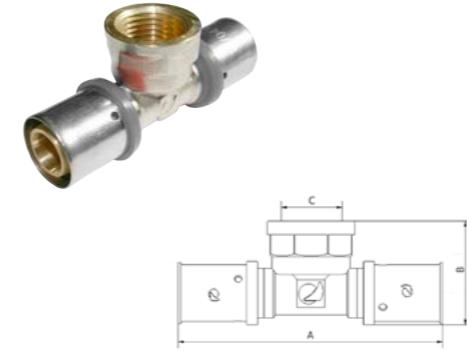
REDUCER TEE



REDUCER TEE

Reference	Measure	A	B	Weight		
PTR162016	16 - 20 - 16	73,20	46,75	91	18	144
PTR162516	16 - 25 - 16	81,20	55,15	110	10	80
PTR201616	20 - 16 - 16	71,20	49,75	89	18	144
PTR201620	20 - 16 - 20	71,20	49,75	96	14	112
PTR202016	20 - 20 - 16	76,20	49,75	102	18	144
PTR202520	20 - 25 - 20	80,20	64,62	152	8	64
PTR251616	25 - 16 - 16	84,10	54,80	110	8	64
PTR251620	25 - 16 - 20	84,10	54,80	127	10	80
PTR251625	25 - 16 - 25	91,00	54,80	150	10	80
PTR252016	25 - 20 - 16	85,10	55,15	132	9	72
PTR252020	25 - 20 - 20	84,10	54,75	134	9	72
PTR252025	25 - 20 - 25	92,00	55,25	160	10	80
PTR252520	25 - 25 - 20	88,60	64,15	165	8	64
PTR253225	25 - 32 - 25	101,00	67,35	234	8	64
PTR321632	32 - 16 - 32	96,40	62,25	204	7	56
PTR322032	32 - 20 - 32	96,40	62,25	220	5	40
PTR322520	32 - 25 - 20	89,80	69,15	182	5	40
PTR322525	32 - 25 - 25	98,70	69,15	225	5	40
PTR322532	32 - 25 - 32	98,40	71,15	240	5	40
PTR323225	32 - 32 - 25	102,70	89,85	249	5	40

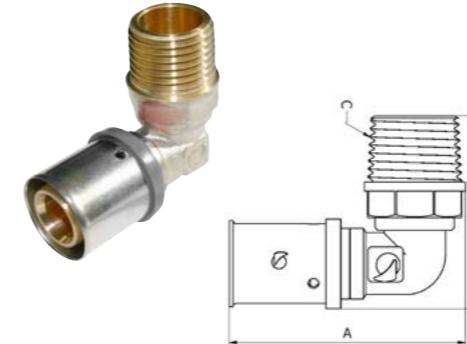
FEMALE TEE



FEMALE TEE

Reference	Measure	A	B	C	Weight		
PTH1612	16 - 1/2"	83,20	33,15	G1/2	104	16	128
PTH2012	20 - 1/2"	83,20	37,15	G1/2	120	12	96
PTH2034	20 - 3/4"	89,20	37,15	G3/4	155	10	80
PTH2512	25 - 1/2"	99,00	41,64	G1/2	171	8	64
PTH2534	25 - 3/4"	105,00	41,64	G3/4	205	7	56
PTH251	25 - 1"	113,00	41,64	G1	167	5	40
PTH321	32 - 1"	113,40	49,15	G1	227	3	24

MALE ELBOW



MALE ELBOW

Reference	Measure	A	B	C	Weight		
PCM1612	16 - 1/2"	53,10	43,65	R1/2	73	25	200
PCM2012	20 - 1/2"	52,60	46,99	R1/2	85	20	160
PCM2512	25 - 1/2"	60,50	50,15	R1/2	121	14	112
PCM2534	25 - 3/4"	65,00	53,15	R3/4	128	12	96
PCM321	32 - 1"	70,20	64,15	R1	196	6	48



FEMALE ELBOW

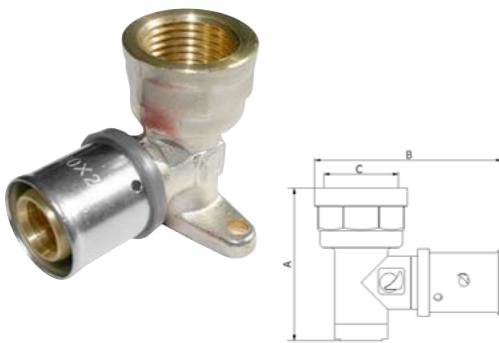
Reference	Measure	A	B	C	Weight		
PCH1612	16 - 1/2"	55,60	29,50	G1/2	71	30	240
PCH1634	16 - 3/4"	61,10	32,00	G3/4	83	18	144
PCH2012	20 - 1/2"	55,60	33,00	G1/2	86	22	176
PCH2034	20 - 3/4"	60,00	33,00	G3/4	91	15	120
PCH2512	25 - 1/2"	63,50	36,50	G1/2	109	12	96
PCH2534	25 - 3/4"	69,00	36,50	G3/4	127	10	80
PCH251	25 - 1"	75,00	37,50	G1	145	8	64
PCH321	32 - 1"	76,50	43,00	G1	187	8	64



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ACCESSORIES I-PERT

For tube 16x1.8, 20x1.9, 25x2.3, 32x2.9



WALL PLATED FEMALE ELBOW

Reference	Measure	A	B	C	Weight	Box	Box
PCSH1612	16 - 1/2"	46,00	55,60	G1/2	107	14	112
PCSH2012	20 - 1/2"	46,00	55,60	G1/2	120	12	96
PCH2534	25 - 3/4"	47,50	69,50	G3/4	152	10	80

∅ mm mm g uns. uns.



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ACCESSORIES I-PERT

For tube 16x1.8, 20x1.9, 25x2.3, 32x2.9



FEMALE UNION

Reference	Measure	A	B	C	Weight	Box	Box
PEH1612	16-1/2"	43,60	28,00	G1/2	54	40	320
PEH2012	20-1/2"	43,60	28,00	G1/2	61	35	280
PEH2034	20-3/4"	43,60	33,00	G3/4	67	30	240
PEH2512	25-1/2"	51,50	28,00	G1/2	82	20	160
PEH2534	25-3/4"	51,50	33,00	G3/4	95	20	160
PEH251	25-1"	52,50	41,00	G1	117	12	96
PEH3234	32-3/4"	51,70	33,00	G3/4	107	16	128
PEH321	32-1"	52,70	41,00	G1	131	12	96

∅ mm mm g uns. uns.

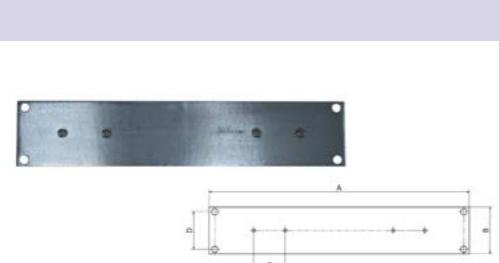
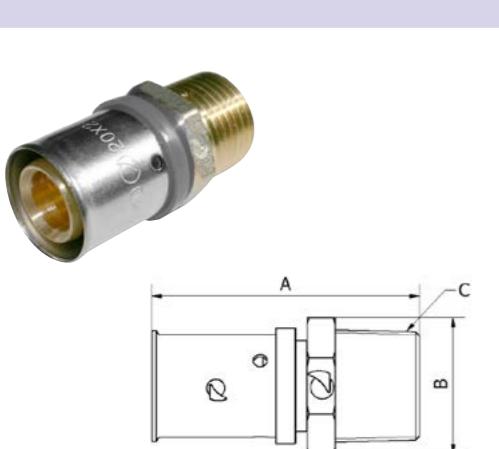


PLATE FOR WALL PLATED FEMALE ELBOW

Reference	A	B	C	D	Weight	Box	Box
PLACA	255,00	50,00	34,00	40,00	236	10	100

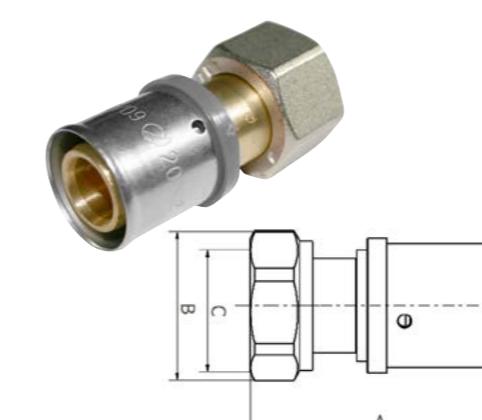
mm mm mm mm g uns. uns.



MALE UNION

Reference	Measure	A	B	C	Weight	Box	Box
PEM1612	16 - 1/2"	46,60	26,00	R1/2	50	50	400
PEM1634	16 - 3/4"	47,60	31,00	R3/4	64	40	320
PEM2012	20 - 1/2"	46,60	26,00	R1/2	57	40	320
PEM2034	20 - 3/4"	47,60	31,00	R3/4	70	35	280
PEM2512	25 - 1/2"	54,50	26,00	R1/2	75	16	128
PEM2534	25 - 3/4"	55,50	31,00	R3/4	93	18	144
PEM251	25 - 1"	56,50	39,00	R1	114	16	128
PEM3234	32 - 3/4"	55,70	31,00	R3/4	105	12	96
PEM321	32 - 1"	56,70	39,00	R1	129	14	112

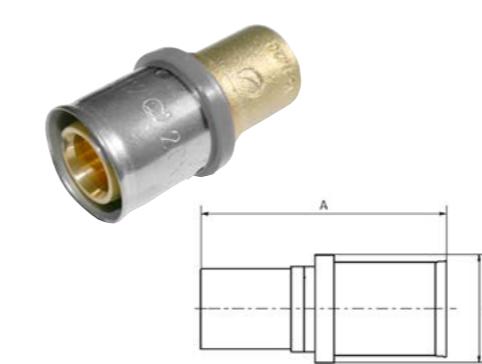
∅ mm mm g uns. uns.



DESMOUNTABLE FEMALE UNION

Reference	Measure	A	B	C	Weight	Box	Box
RM1612	16 - 1/2"	52,60	28,00	G1/2	68	48	384
RM1634	16 - 3/4"	50,00	33,00	G3/4	75	30	240
RM2012	20 - 1/2"	52,60	28,00	G1/2	76	30	240
RM2034	20 - 3/4"	53,60	33,00	G3/4	88	24	192
RM2534	25 - 3/4"	61,50	33,00	G3/4	160	18	144
RM251	25 - 1"	68,00	41,00	G1	113	14	112
RM321	32 - 1"	68,20	41,00	G1	184	14	112
RM32114	32 - 1 1/4"	68,70	51,10	G11/4	228	10	80

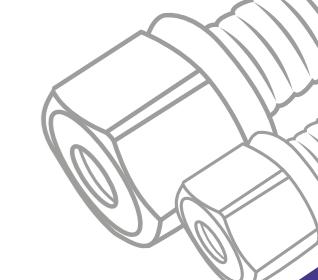
∅ mm mm g uns. uns.



ADAPTER COPPER - PERT

Reference	Measure	A	B	Weight	Box	Box
PADC12P16	CU12 - MC16	46,10	20,30	29	50	400
PADC15P16	CU15 - MC16	46,10	20,30	32	50	400
PADC18P16	CU18 - MC16	46,60	20,30	45	50	400
PADC15P20	CU15 - MC20	46,60	24,30	43	20	160
PADC18P20	CU18 - MC20	46,60	24,30	52	45	360
PADC18P25	CU18 - MC25	54,50	30,30	66	20	160
PADC22P20	CU22 - MC20	46,60	24,30	58	20	160
PADC22P25	CU22 - MC25	54,50	30,30	75	20	160
PADC28P25	CU28 - MC25	54,50	30,38	77	18	144
PADC28P32	CU28 - MC32	54,70	37,30	98	16	128

∅ mm mm g uns. uns.



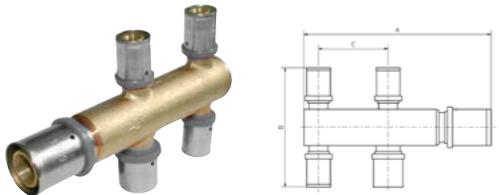


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ACCESSORIES I-PERT

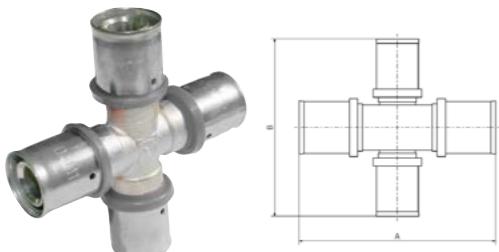
For tube 16x1.8, 20x1.9, 25x2.3, 32x2.9

DISTRIBUTOR



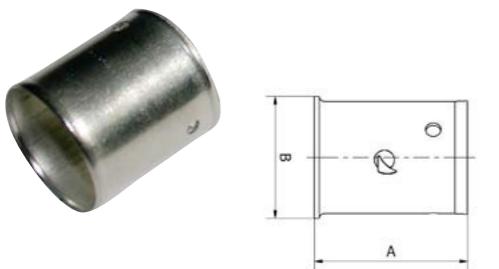
Reference	Measure	A	B	C	Weight		
D2020161616	20 20-16-16-16	136	89,20	52	343	3	24
D2520161616	25 20-16-16-16	140	89,20	52	389	3	24

CROSS



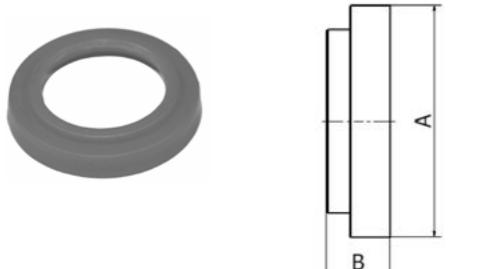
Reference	Measure	A	B	Weight		
PDC25202020	25-20-20-20	90,40	82,50	196	5	40
PDC25201616	25-20-16-16	86,48	78,55	164	5	40
PDC20201616	20-20-16-16	78,55	78,55	128	10	80
PDC20202020	20-20-20-20	82,50	82,50	147	10	80
PDC20162016	20-16-20-16	82,50	74,60	119	10	80

INOX RING



Reference	Measure	A	B	Weight		
CI16	16	24,14	18,17	7	-	100
CI20	20	23,90	22,70	10	-	100
CI25	25	31,60	28,12	17	-	50
CI32	32	31,70	34,80	22	-	30

ELECTROLYSIS JOINT



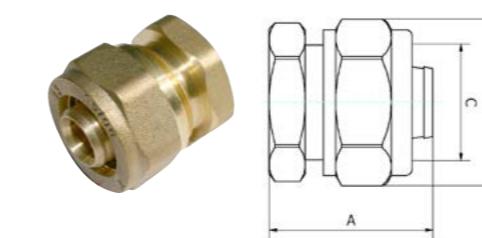
Reference	Measure	A	B	Weight		
JE16	16	20,40	5,50	0,50	-	100
JE20	20	24,30	5,50	0,50	-	100
JE25	25	30,30	5,50	0,50	-	100
JE32	32	37,30	6,00	1,00	-	100

VALVES AND HANDLES FOR VALVES

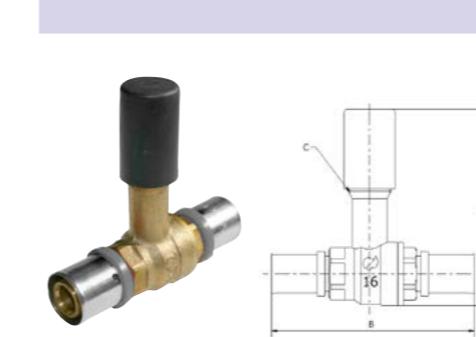
ACCESSORIES I-PERT

For tube 16x1.8, 20x1.9, 25x2.3, 32x2.9

RECOVERABLE PLUG

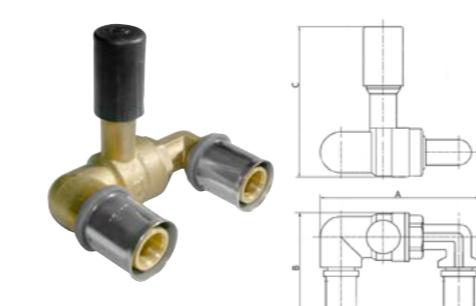


Reference	Measure	A	B	C	Weight		
TAP16R	16 \varnothing	27,00	25,00	G3/4	65 g	48 uns.	384 uns.



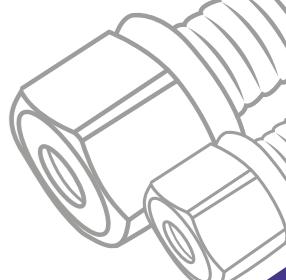
BALL VALVE

Reference	Mea-sure	A	B	C	Weight		
PVAL16	16	90,00	93,20	M20 X 1,25	249 g	5 uns.	40 uns.
PVAL20	20	90,00	93,20	M20 X 1,25	276 g	5 uns.	40 uns.
PVAL25	25	93,00	115,00	M20 X 1,25	380 g	5 uns.	40 uns.
PVAL32	32	97,50	117,40	M20 X 1,25	468 g	4 uns.	32 uns.



U-BALL VALVE

Reference	Measure	A	B	C	Weight		
VALU16	16 \varnothing	94,45	59,50	89,20	388 g	4 uns.	32 uns.
VALU20	20	95,50	59,70	89,40	380 g	4 uns.	32 uns.
VALU25	25	99,80	67,80	90,24	445 g	4 uns.	32 uns.



VALVES AND HANDLES FOR VALVES

ACCESSORIES I-PERT

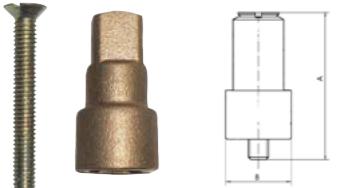
For tube 16x1.8, 20x1.9, 25x2.3, 32x2.9

IMPLEMENTS AND TOOLS

ACCESSORIES I-PERT

For tube 16x1.8, 20x1.9, 25x2.3, 32x2.9

EXTENSION



Reference	Measure	A	B	Weight		
ALAR	20	30,00	13,00	18	125	1000

mm mm mm g uns. uns.

ROUND HANDLE AND SHIELD
FOR VALVES Ref. PVAL / PVALU

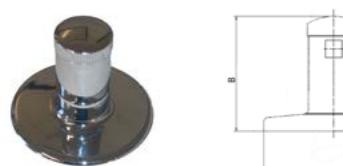
Reference	A	B	Weight		
MR	70,00	68,00	122	5	150

mm mm g uns. uns.

LEVER HANDLE AND SHIELD
FOR VALVES Ref. PVAL / PVALU

Reference	A	B	C	Weight		
MP	70,00	57,00	62,00	126	5	150

mm mm mm g uns. uns.

OCCULT HANDLE AND SHIELD
FOR VALVES Ref. PVAL / PVALU

Reference	A	B	Weight		
MO	69,00	52,50	98	5	150

mm mm g uns. uns.

SCISSORS



Reference	For tubes	Long	Width	Deep	Weight		
TJ1632	Ø16 until Ø32	10,5	23,0	2,5	544	-	1

cm cm cm cm g uns. uns.



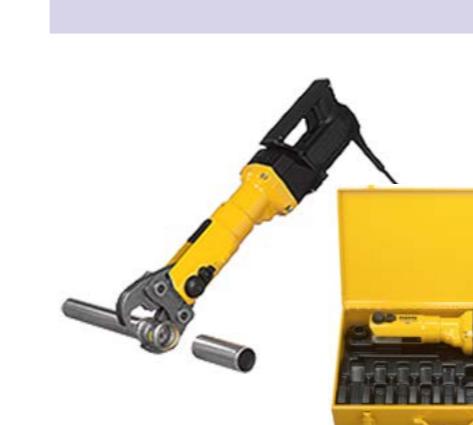
Clamps "RFIz"

Adaptable to the majority of radial presses existing in the market

JAWS "RFIz" and "U"

Reference	Measure	Long	Width	Deep	Weight		
RFIz 16	16	9,5	14,5	4,5	1834	-	1
RFIz 20	20	9,5	14,5	4,5	1818	-	1
RFIz 25	25	10	15,5	4,5	2112	-	1
RFIz 32	32	10	14,4	4,5	1824	-	1

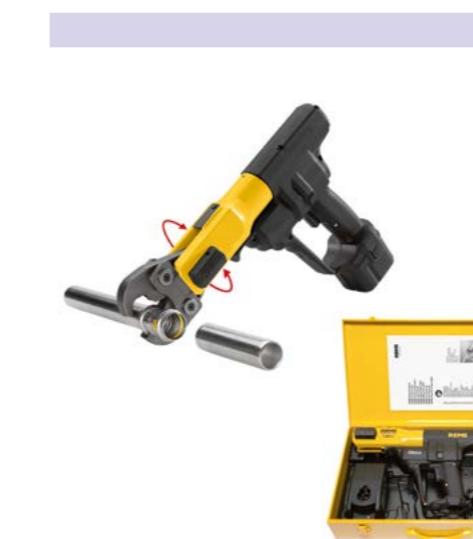
∅ mm mm mm g uns.



POWER PRESS

Reference	Characteristics	
572111	Electro-mechanical actuating machine with maintenance-free gear with sliding clutch for safety. Proven universal motor, 230V, 50-60Hz, 500W. The pressing tongs remain closed until the recoil connection, therefore, possibility of visually checking the correct pressing. Packed in tough metal case. The machine does not include jaws. Thrust force 32kN.	1

uns.



AKKU PRESS

Reference	Characteristics	
571014	Electro-hydraulic actuating machine with gear. Optimal weight distribution for one-handed operation. Rotating press holder. Piston pump with robust planetary gear. Powerful motor by accumulation of 12V 12V, 2Ah accumulator. Fast charger 230V, 50W. Automatic Circuit Control (ACC): Automatic recoil after completing the pressing process. Optical indicator after 10,000 pressings. Packed in tough metal case. The machine does not include jaws. Thrust force 32kN	1

uns.