VASEN

POLYPROPYLENE
PIPES AND FITTINGS

MULTILAYER PERT-AL-PERT
PIPES AND FITTINGS

POLYETHYLENE FITTINGS
ELECTROFUSION / BUTT FUSION

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CATALOGUE

VASEN

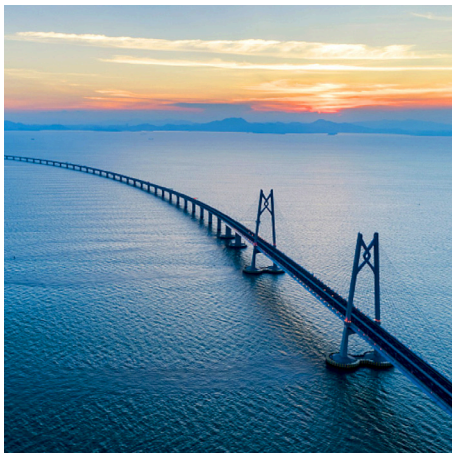
THE GREAT WORLD'S INFRASTRUCTURES. DO YOU KNOW WHAT THEY HAVE IN COMMON?

As a professional in the sector, you already know the quality of VASEN products. But you may not know that they are among the world market leaders and that their quality standards are at the level of the best European manufacturers.

120 More than 120 international accreditations

20 20 years of development

1999.10 Founded in October 1999

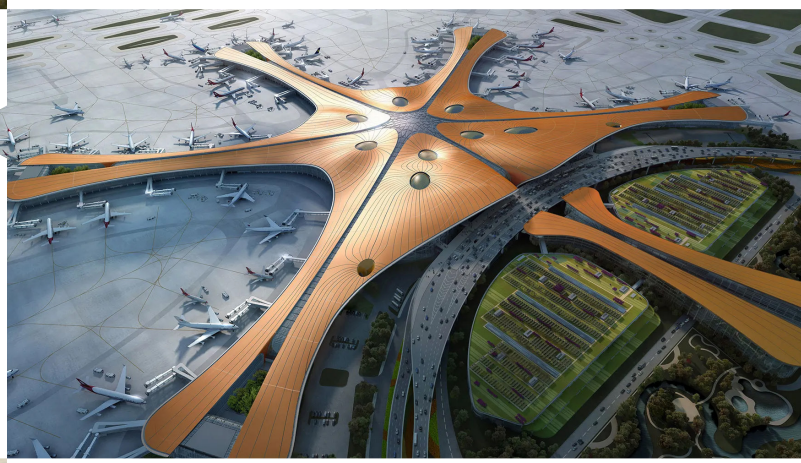


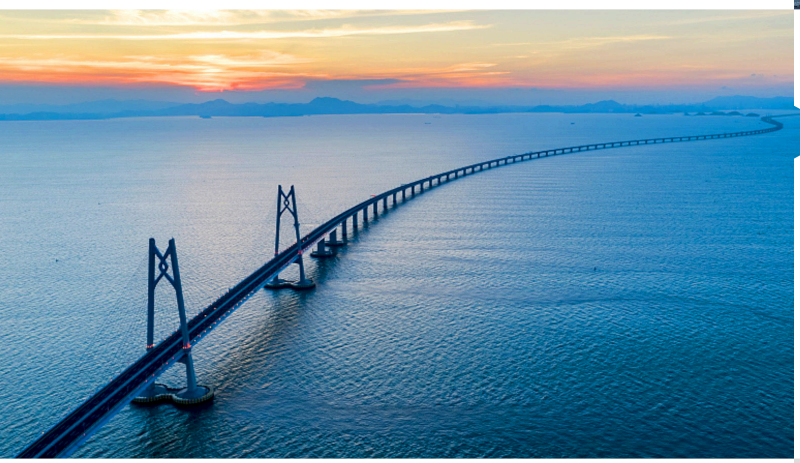
VALUE

Create value, quality of life.
VASEN focuses on improving the quality of human life and creating greater value with professionalism.

AHEAD

I&D in science and technology, beyond expectations VASEN specializes in creating more new products and constantly exceeding user expectations.





SPECIALTY

Professional quality.
VASEN is committed to the quality of its clients and constantly seeks excellence.

EXCELLENCE

Excellent service, superior experience.
VASEN adheres to the new height of service in the industry, making users feel attentive, safe and comfortable.

RELIABILITY

System support, high-quality life.
VASEN provides a systematic solution for high-end living.

INDEX

VASEN

POLYPROPYLENE
PIPES AND FITTINGS

CHARACTERISTICS

PP-R is short for polypropylene random copolymer, also named as polypropylene type 3.

In 1957, Italian firstly realized polypropylene industrial production. Due to its excellent heat-resistant, corrosion-resistant performance, it is deeply favored by the users. In late 1970s, polypropylene material has deemed to be the future direction of building cold and hot water supply pipeline. That is the first generation of polypropylene material, which named as PP-H, short for homo- polypropylene. However, though it has excellent heat-resistance (110ºC), pressure resistance (MRS = 10 MPa) performance, its poor low-temperature impact resistance makes it not suitable for the building cold and hot water supply pipeline.

Therefore, people tried to improve its low-temperature impact resistance through the modification of PP-H material. Then we have the second generation of polypropylene, which is obtained through the modification of PP-H material. Then we have the second generation of polypropylene, which is obtained through adding a certain amount of vinyl monomer during the polymerization process of polypropylene. It is named as PP-B or PP-H, wich is short for block copolymerized polypropylene. Although PP-B has a great change in low-temperature impact resistance, it sacrificed its heat resistance performance. PP-B can only apply in cold water pipeline or the hot water pipeline in low pressure condition.

In late 1980s, some European petrochemical corporations break the traditional polypropylene liquid-phase polymerization process, adopting the advanced gas phase polymerization technology, which synthesized random copolymer of polypropylene and ethylene. The random copolymer is named as polypropylene random copolymer, PP-R in short, wherein the ethylene content is less than 5%, which is randomly distributed in the polypropylene molecular chain. This PP-R material, which is created by the new polymerization process, taking into account the heat resistance of PP-H and the low-temperature impact properties of PP-B, is suitable for the manufacture of hot and cold water supply pipeline system inside the building.

ADVANTAGES

- **Light weight.** The density of the pipes is only 0.89-0.91 , which is only 1/9 of steel pipe and 1/10 of copper pipe. It makes handling and installation more convenient.
- **Good heat and pressure resistance.** The Vicat softening point reaches 131.3ºC. Its short-term operating temperature can up to 95ºC. And under the temperature of 80ºC, it still can bear some pressure for a long term. That´s the best choice for cold and hot water supply pipeline in buildings.
- **Long service life.** Under proper temperature (70ºC) and pressure (10), its service life can reach 50 years.
- **Good corrosion resistance.** VASEN PP-R pipes have excellent corrosion resistance to most inorganic ion and common chemical substances in buildings. It is anticorrosion and does not rust in long term use.
- **Reliable and convenient connections.** PP-R material has excellent melting welding performance. The pipes and fittings are made from the same material, joined together by melting welding. Compared to single pipe, the tensile vending and impact strength in joint are much higher, which prevents the danger of leakage, and this kind of connection method also makes the site installation reliable and convenient..
- **Nonpoisonous and harmless.** PP-R belongs to polyolefin, which is a kind of thermoplastics, whose molecule is only composed of carbon and hydrogen.
- **Good thermal and sound insulation properties.** The thermal conductivity coefficient of PP-R is 0.23 w/m ºC, which is only 1/200 of steel pipe (43-52 w/m ºC). No need to use insulating materials when used in hot water systems, which saves insulation materials and energy. And it has lower noise when delivery in pipeline system.
- **Better water passing capacity.** The smooth inner surface of PP-R pipes and fittings have lower friction, which ensure fast running of the water.
- **Environment-friendly building material.** During production, installation and application, no pollution will be caused to the environment. Meanwhile, the materials are recyclable, which can minimize resource wasting.

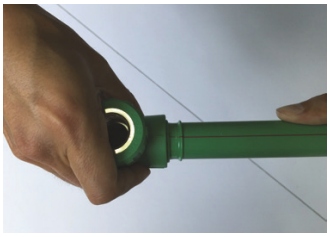
APPLICATION FIELDS

- **Portable water pipe networke** for cold and hot water supply in civil buildings, such as residence, hospitals, hotels, offices, schools and buildings on ship, etc.
- **Industrial pipe networks for foodstuff, chemical and electric industry,** e.g. for the transportation of some corrosive fluids (acid or alkaline water and ionized water, etc.)
- **Pipe networks for purified water and mineral water.**
- **Pipe networks for air conditioning equipment.**
- **Pipe networks for floor heating system.**
- **Pipe networks for rainwater utilization system.**
- **Pipe networks for swimming pool facilities.**
- **Pipe networks for agriculture and horticulture.**
- **Pipe networks for solar energy facilities.**

CONNECTION METHODS

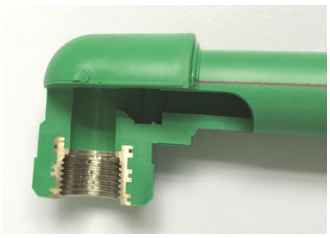
1.SOCKET FUSION WITH A HAND-HELD WELDING DEVICE

- **Cut the pipe.**
  Cut the ends of the pipes rectangular and deburr them thoroughly.

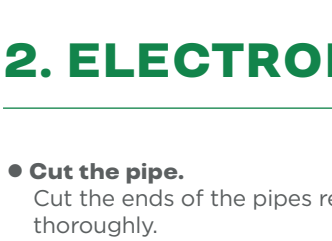


- **Measure welding depth.**
  Measure the vertical length between the fitting end and the limit circle (measure half length of the fittings if the without limit circle).

- **Cut the pipe.**
  Cut the pipe at right angles to the pipe axis. After cutting, make the surface free from burr and cutting debris. The pipe end connect with fittings should be clean, dry, oil-free.



- **Mark welding depth.**
  Use special gauge and pencil to measure the pipe end and mark the welding depth.
- **Heat pipe and fitting.**
  When the temperature of welding tool reach 260ºC (the green lamp flashing), insert the pipe and the fitting into the welding tool at the same time. The heating time refer to below table.



- **Align and weld-in.**
  After the required heating time quickly remove pipe and fitting from the welding tools. Joint them immediately, and without turning, until the marked welding depth is covered. Hold the pipe and the fitting tightly until reach the required welding time. Do not push the pipe too far or too close, as this would reduce the bore, even close the pipe, or make the connection unstable.
- **Pressure Test**
  When the whole system installation accomplished, carry out water pressure test, to ensure the connection is reliable.

PP-R PIPE & FITTING HEAT SOCKET FUSION TECHNICAL REQUIREMENT

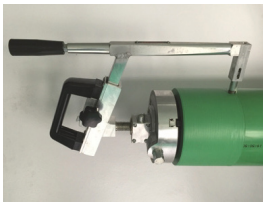
Dameters (mm)	Min. depth (mm)	Heating time (seg.)	Welding time (seg.)	Cooling time (min.)
20	11	5	4	3
25	12,5	7	4	3
32	14,6	8	4	4
40	17	12	6	4
50	20	18	6	5
63	23,9	24	6	6
75	27,5	30	10	8
90	32	40	10	8
110	38	50	15	10
125	41	55	15	12
160	46	60	15	15

▶ **Note:** This table is only applied in the situation that environment temperature is 20ºC. When the environment temperature is lower than 20ºC, the heating time should increase properly. If the environment temperature is less than 5ºC, the heating time should increase 50%.

2. ELECTROFUSIÓN

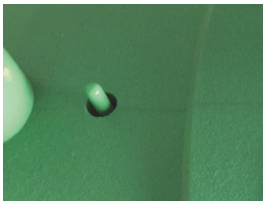
- **Cut the pipe.**
  Cut the ends of the pipes rectangular and deburr them thoroughly.
- **Measure welding depth.**
  Measure the vertical length between the fitting end and the limit circle (measure half length of the fittings if the without limit circle).
- **Mark welding depth.**
  Mark the depth of electrofusion fitting on the ends of the pipes.
- **Peel pipe end surfaces.**
  Peel the surface of the pipes up to the marks thoroughly with a peeling tool (0.1-0.2 mm thickness) and deburr. (It is a necessary procedure).
- **Clean up welding area.**
  Clean the welding area of the pipes and fitting with isopropanol, completely dry the fusion area with clean cloth.
  Do not touch the clean and dry fusion area of pipes or fittings with hands.











- **Mark welding depth.**
  Mark the depth of electrofusion fitting again on the ends of the pipes.

- **Insert into the fitting.**
  Push the electrofusion sockets on the clean and dry end of the pipe (up to the marked depth) and check the fitness. Clamp the pipes and fittings at the same axis, ensure not move during fusion.

- **Plug in the electrodes.**
  Attach the electrode plugs of the welding machine to the electrode of the fittings, to ensure fully contact.

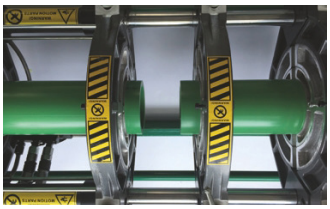
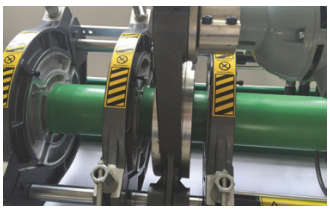
- **Electric weld.**
  Read the bar code on the fittings by scanning pen or input the welding parameter manually. Check the welding parameter showed on the machine, such as product type, voltage, heating, and cooling time. Press “Start” button to carry on welding. Do not move or stress pipe and fitting during the whole fusion process and cooling time.

- **Welding check.**
  After fusion process, check and see ifthe welding indicators are protruded (the welding indicators height vary with fit clearance).

Attention:

❶Input voltage deviation should be not more than 15%, output voltage allowed deviation is within 5%.

❷ The electrofusion machine without temperature compensation function should set compensation time.


3.BUTT FUSION

- **Clamp pipes.**
  Plastic pipes are aligned and fixed by means of the clamping elements.

- **Check welding parameters.**
  Set welding temperature to 240 5%, and test the pipe moving pressure.

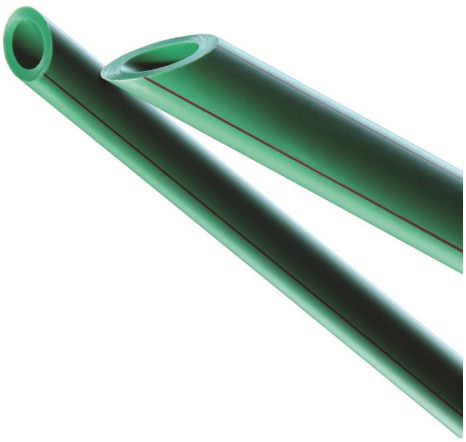
- **Mill pipe ends.**
  Use the milling machine for milling the pipe end to be plane-parallel. Check if the pipe match, if not, makes adjustment, to ensure the alignment tolerance less than 10%.

- **Heat up.**
  After the heating element has been positioned, the pipes are pushed onto the heating plate with a defined adjusting pressure.
  After reaching the specified bead height the pressure is reduced. This process marks the beginning of the heating time. This time is for heating up the pipe ends up to the right welding temperature.

- **Butt weld.**
  When heating time has expired, divide the machine slide, remove heating element quickly and join the pipes (by putting both parts of the slide together).

- **Hold pressure and cool down.**
  The pipes are fused with the required welding pressure and cooled down under pressure.

PIPE IN BAR PPR 80 SDR 6 / S 2,5 PN20



TUBO EN BARRA PPR 80 SDR 6 / S 2,5 PN20
TUBE EN BARRE PPR 80 SDR 6 / S 2,5 PN20
TUBO EM VARA PPR 80 SDR 6 / S 2,5 PN20

Ref.	DN x ESP. (mm)	L (m)	U/B	m/B
PPR.TB16	16 x 2.7	4.0	25	100
PPR.TB20	20 x 3.4	4.0	25	100
PPR.TB25	25 x 4.2	4.0	20	80
PPR.TB32	32 x 5.4	4.0	10	40
PPR.TB40	40 x 6.7	4.0	5	20
PPR.TB50	50 x 8.4	4.0	4	16
PPR.TB63	63 x 10.5	4.0	3	12
PPR.TB75	75 x 12.5	4.0	2	8
PPR.TB90	90 x 15.0	4.0	1	4
PPR.TB110	110 x 18.3	4.0	1	4
PPR.TB125 ▲	125 x 20.8	4.0	1	4
PPR.TB160 ▲	160 x 26.6	4.0	1	4

PIPE IN BAR FASER PPR 80 SDR 7 ,4 / S 3,2

TUBO EN BARRA FASER PPR 80 SDR 7,4 / S 3,2
TUBE EN BARRE FASER PPR 80 SDR 7,4 / S 3,2
TUBO EM VARA FASER PPR 80 SDR 7,4 / S 3,2

Ref.	DN x ESP. (mm)	L (m)	U/B	m/B
PPR.TBF20020	20 x 2.8	4.0	25	100
PPR.TBF20025	25 x 3.5	4.0	20	80
PPR.TBF20032	32 x 4.4	4.0	10	40
PPR.TBF20040	40 x 5.5	4.0	5	20
PPR.TBF20050	50 x 6.9	4.0	4	16
PPR.TBF20063	63 x 8.6	4.0	3	12
PPR.TBF20075	75 x 10.3	4.0	2	8
PPR.TBF20090	90 x 12.3	4.0	1	4
PPR.TBF20110	110 x 15.1	4.0	1	4
PPR.TBF20125	125 x 17.1	4.0	1	4
PPR.TBF20160	160 x 21.9	4.0	1	4

▲ Delivery time on request

DN: mm • U/B: Units per bag • m/B: Meters per box

VASEN

PIPE IN BAR CLIMA FASER PPR 80 SDR 11 / S 5

TUBO EN BARRA CLIMA FASER PPR 80 SDR 11 / S 5
TUBE EN BARRE CLIMA FASER PPR 80 SDR 11 / S 5
TUBO EM VARA CLIMA FASER PPR 80 SDR 11 / S 5

Ref.	DN x ESP. (mm)	L (m)	U/B	m/B
PPR.TBFC25	25 x 2.3	4.0	20	80
PPR.TBFC32	32 x 2.9	4.0	10	40
PPR.TBFC40	40 x3.7	4.0	5	20
PPR.TBFC50	50 x4.6	4.0	4	16
PPR.TBFC63	63 x 5.8	4.0	3	12
PPR.TBFC75	75 x 6.8	4.0	2	8
PPR.TBFC90	90 x 8.2	4.0	1	4
PPR.TBFC110	110 x 10	4.0	1	4
PPR.TBFC125	125 x 11.4	4.0	1	4
PPR.TBFC160	160 x 14.6	4.0	1	4

PIPE IN BAR FASER PPR 80 SDR 7 ,4 / S 3,2 UV

TUBO EN BARRA FASER PPR 80 SDR 7,4 / S 3,2 UV
TUBE EN BARRE FASER PPR 80 SDR 7,4 / S 3,2 UV
TUBO EM VARA FASER PPR 80 SDR 7,4 / S 3,2 UV

Ref.	DN x ESP. (mm)	L (m)	U/B	m/B
PPR.TBFUV20020	20 x 2.8	4.0	25	100
PPR.TBFUV20025	25 x 3.5	4.0	20	80
PPR.TBFUV20032	32 x 4.4	4.0	10	40
PPR.TBFUV20040	40 x 5.5	4.0	5	20
PPR.TBFUV20050	50 x 6.9	4.0	4	16
PPR.TBFUV20063	63 x 8.6	4.0	3	12

PIPE IN BAR PPR 80 SDR 11 / S 5 PN 10

TUBO EN BARRA PPR 80 SDR 11 / S 5 PN10
TUBE EN BARRE PPR 80 SDR 11 / S 5 PN10
TUBO EM VARA PPR 80 SDR 11 / S 5 PN10

Ref.	DN x ESP. (mm)	L (m)	U/B	m/B
PPR.TB200 ▲	200 x 18.2	4.0	1	4
PPR.TB250 ▲	250 x 22.7	4.0	1	4
PPR.TB315 ▲	315 x 28.6	4.0	1	4

▲ Delivery time on request

DN: mm • U/B: Units per bag • m/B: Meters per box

ELBOW 90°

CODO 90°
COUDE 90°
JOELHO 90°

Ref.	DN	U/B	U/C
PPR.C9016	16	10	400
PPR.C9020	20	10	400
PPR.C9025	25	10	240
PPR.C9032	32	10	140
PPR.C9040	40	8	80
PPR.C9050	50	4	40
PPR.C9063	63	3	18
PPR.C9075	75	2	18
PPR.C9090	90	1	9
PPR.C90110	110	1	5
PPR.C90125	125	1	4
PPR.C90160	160	1	4

ELBOW 45°

CODO 45°
COUDE 45°
JOELHO 45°

Ref.	DN	U/B	U/C
PPR.C4516	16	10	600
PPR.C4520	20	10	600
PPR.C4525	25	10	360
PPR.C4532	32	10	200
PPR.C4540	40	8	96
PPR.C4550	50	4	56
PPR.C4563	63	3	30
PPR.C4575	75	2	18
PPR.C4590	90	1	8
PPR.C45110	110	1	6
PPR.C45160	160	1	4

ELBOW 90° F/M

CODO 90° F/M
COUDE 90° F/M
JOELHO 90° F/M

Ref.	DN	U/B	U/C
PPR.CHM20 ●	20	50	300
PPR.CHM25 ●	25	50	200

● Material not VASEN

DN: mm • U/B: Units per bag • m/B: Meters per box

COUPLER

MANGUITO
MANCHON
UNIÃO

Ref.	DN	U/B	U/C
PPR.M16	16	10	720
PPR.M20	20	10	720
PPR.M25	25	10	400
PPR.M32	32	10	240
PPR.M40	40	10	150
PPR.M50	50	8	80
PPR.M63	63	6	48
PPR.M75	75	4	32
PPR.M90	90	2	24
PPR.M110	110	2	12
PPR.M125	125	2	8
PPR.M160	160	1	4

EQUAL TEE

TE IGUAL
TÉ EGAL
TÊ IGUAL

Ref.	DN	U/B	U/C
PPR.T16	16	10	360
PPR.T20	20	10	360
PPR.T25	25	10	200
PPR.T32	32	10	100
PPR.T40	40	6	60
PPR.T50	50	4	32
PPR.T63	63	2	18
PPR.T75	75	2	14
PPR.T90	90	1	8
PPR.T110	110	1	4
PPR.T125	125	1	4
PPR.T160	160	1	4

TEE CROSS

TE CRUZ
TÉ CROIX
TÊ CRUZ

Ref.	DN	U/B	U/C
PPR.CZ20	20	10	250
PPR.CZ25	25	10	150
PPR.CZ32	32	8	96
PPR.CZ40	40	4	48
PPR.CZ50	50	2	24
PPR.CZ63	63	1	14

REDUCED TEE

TE REDUCCIÓN
TÉ RÉDUIT
TÊ REDUZIDO

Ref.	DN	U/B	U/C
PPR.TRC2520	25–20–25	10	200
PPR.TRC3220	32–20–32	10	150
PPR.TRC3225	32–25–32	10	120
PPR.TRC4020	40–20–40	6	84
PPR.TRC4025	40–25–40	6	72
PPR.TRC4032	40–32–40	6	60
PPR.TRC5020	50–20–50	4	48
PPR.TRC5025	50–25–50	4	48
PPR.TRC5032	50–32–50	4	40
PPR.TRC5040	50–40–50	4	40
PPR.TRC6320	63–20–63	2	32
PPR.TRC6325	63–25–63	2	32
PPR.TRC6332	63–32–63	2	32
PPR.TRC6340	63–40–63	2	24
PPR.TRC6350	63–50–63	2	24
PPR.TRC7550	75–50–75	2	18
PPR.TRC7563	75–63–75	2	14
PPR.TRC9063	90–63–90	1	6
PPR.TRC9075	90–75–90	1	6
PPR.TRC11063	110–63–110	1	4
PPR.TRC11075	110–75–110	1	4
PPR.TRC11090	110–90–110	1	4
PPR.TRL2520	25–20–20	10	200
PPR.TRL2025	25–25–20	10	200
PPR.TRL3220	32–20–20	10	180
PPR.TRL3225	32–25–25	10	120
PPR.TDR322025	32–20–25	10	120
PPR.TDR322520	32–25–20	10	150

CAP

TAPÓN
BOUCHON
TAMPÃO

Ref.	DN	U/B	U/C
PPR.TAP16	16	20	1,000
PPR.TAP20	20	20	1,000
PPR.TAP25	25	20	600
PPR.TAP32	32	20	300
PPR.TAP40	40	20	200
PPR.TAP50	50	8	112
PPR.TAP63	63	8	64
PPR.TAP75	75	2	40
PPR.TAP90	90	2	28
PPR.TAP110	110	2	12
PPR.TAP125	125	1	16
PPR.TAP160	160	1	6

VASEN

REDUCER

MANGUITO REDUCCIÓN
MANCHON RÉDUIT
REDUÇÃO

Ref.	DN	U/B	U/C
PPR.MRD2016	20–16	10	72
PPR.MRD2520	25–20	10	720
PPR.MRD3220	32–20	10	480
PPR.MRD3225	32–25	10	400
PPR.MRD4020	40–20	10	300
PPR.MRD4025	40–25	10	300
PPR.MRD4032	40–32	10	250
PPR.MRD5020	50–20	10	200
PPR.MRD5025	50–25	10	200
PPR.MRD5032	50–32	10	160
PPR.MRD5040	50–40	10	150
PPR.MRD6320	63–20	10	150
PPR.MRD6325	63–25	10	150
PPR.MRD6332	63–32	8	96
PPR.MRD6340	63–40	8	80
PPR.MRD6350	63–50	8	64
PPR.MRD7550 ●	75–50	10	40
PPR.MRD7563	75–63	4	48
PPR.MRD9063	90–63	2	36
PPR.MRD9075	90–75	4	24
PPR.MRD1163	110–63	2	18
PPR.MRD1175	110–75	2	18
PPR.MRD1190	110–90	2	18
PPR.MRD1211 ●	125–110	1	4
PPR.MRD1611	160–110	1	4
PPR.MRD1612	160–125	1	4

PLUG WITH THREAD

TAPÓN CON ROSCA
BOUCHON À VIS
TAMPÃO COM ROSCA

Ref.	DN	U/B	U/C
PPR.TAPR20	20	20	1,000
PPR.TAPR25	25	20	800

● Material not VASEN

DN: mm • U/B: Units per bag • m/B: Meters per box

SADDLE

INJERTO
SELLE
DERIVAÇÃO SIMPLES

Ref.	DN	U/B	U/C
PPR.INJ5025	50–25	1	480
PPR.INJ6325	63–25	1	480
PPR.INJ7525	75–25	1	480
PPR.INJ9025	90–25	1	400
PPR.INJ9032	90–32	1	240
PPR.INJ11025	110–25	1	400
PPR.INJ11032	110–32	1	240

PPR REPAIR PARTS

PIEZAS REPARACIÓN PPR
PIÈCES DE RÉPARATION PPR
TACO DE REPARAÇÃO

Ref.	DN	U/B	U/C
PPR.REP711	7/11	10	500

STUB END

VALONA
COLLIER DE BRIDE
COLARINHO

Ref.	DN	U/B	U/C
PPR.VAL40	40	16	128
PPR.VAL50	50	10	100
PPR.VAL63	63	8	64
PPR.VAL75	75	4	40
PPR.VAL90	90	4	24
PPR.VAL110	110	2	20
PPR.BFVAL125*	125	1	1
PPR.BFVAL160*	160	1	1

*TOPE / BUTTFUSION / BOUT A BOUT / TOPO

DN: mm • U/B: Units per bag • m/B: Meters per box

FLANGE

BRIDA ACERO
BRIDE
FLANGE

Ref.	DN	U/B	U/C
PPR.BA40 ●	40	1	1
PPR.BA50 ●	50	1	1
PPR.BA63 ●	63	1	1
PPR.BA75 ●	75	1	1
PPR.BA90 ●	90	1	1
PPR.BA110 ●	110	1	1

FEMALE THREADED TEE

TE ROSCA HEMBRA
TÉ FILETÉ FEMELLE
TÊ ROSCA F~EMEA

Ref.	DN	U/B	U/C
PPR.TRH2012	20 1/2"	10	100
PPR.TRH2034	20 3/4"	10	80
PPR.TRH2512	25 1/2"	10	70
PPR.TRH2534	25 3/4"	10	60
PPR.TRH3234	32 3/4"	10	40
PPR.TRH321	32 1"	8	32
PPR.TRH401	40 1"	5	20
PPR.TRH40114 ●	40 1.1/4"	5	20

MALE THREADED TEE

TE ROSCA MACHO
TÉ FILETÉ MÂLE
TÊ ROSCA MACHO

Ref.	DN	U/B	U/C
PPR.TRM2012	20 1/2"	10	100
PPR.TRM2034	20 3/4"	10	60
PPR.TRM2512	25 1/2"	10	80
PPR.TRM2534	25 3/4"	10	60
PPR.TRM321	32 1"	8	24

● Material not VASEN

DN: mm • U/B: Units per bag • m/B: Meters per box

FEMALE THREADED ELBOW

CODO ROSCA HEMBRA
COUDE FILETÉ FEMELLE
JOELHO ROSCA FÊMEA

Ref.	DN	U/B	U/C
PPR.CRH2012	20 1/2"	10	100
PPR.CRH2034	20 3/4"	10	100
PPR.CRH2512	25 1/2"	10	100
PPR.CRH2534	25 3/4"	10	80
PPR.CRH3234	32 3/4"	5	60
PPR.CRH321	32 1"	5	40
PPR.CRH40114 ●	40 1.1/4"	10	20

MALE THREADED ELBOW

CODO ROSCA MACHO
COUDE FILETÉ MÂLE
JOELHO ROSCA MACHO

Ref.	DN	U/B	U/C
PPR.CRM2012	20 1/2"	10	100
PPR.CRM2034	20 3/4"	10	100
PPR.CRM2512	25 1/2"	10	100
PPR.CRM2534	25 3/4"	10	80
PPR.CRM3234	32 3/4"	10	60
PPR.CRM321	32 1"	10	30

PLATE ELBOW

CODO PLACA
COUDE MURAL FILETÉ FEMELLE
JOELHO ROSCA FÊMEA C/ PATER

Ref.	DN	U/B	U/C
PPR.CP2012	20 1/2"	10	100
PPR.CP2512	25 1/2"	5	75
PPR.CP2534	25 3/4"	5	50

● Material not VASEN

DN: mm • U/B: Units per bag • m/B: Meters per box

FEMALE THREADED TRANSITION

MANGUITO ROSCA HEMBRA
RACCORD D'ADAPTATION FEMELLE
UNIÃO ROSCA FÊMEA

Ref.	DN	U/B	U/C
PPR.MRH2012	20 1/2"	10	100
PPR.MRH2034	20 3/4"	10	100
PPR.MRH2512	25 1/2"	10	100
PPR.MRH2534	25 3/4"	10	80
PPR.MRH3234	32 3/4"	10	80
PPR.MRH321	32 1"	10	40
PPR.MRH40114	40 1.1/4"	4	24
PPR.MRH50112	50 1.1/2"	4	24
PPR.MRH632	63 2"	2	8
PPR.MRH75212	75 2.1/2"	2	6
PPR.MRH903 ●	90 3"	2	8
PPR.MRH110 ●	110 4"	1	3

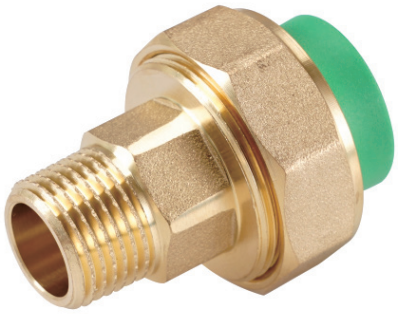
TRANSITION COUPLING FEMALE THREADED

ENLACE DESMONTABLE ROSCA HEMBRA
RACCORD UNION A SOUDE ET VISSER FEMELLE
UNIÃO DESMONTÁVEL ROSCA FÊMEA

Ref.	DN	U/B	U/C
PPR.EDRH2012	20 1/2"	10	80
PPR.EDRH2534	25 3/4"	10	60
PPR.EDRH321	32 1"	6	48
PPR.EDRH40114	40 1.1/4"	6	30
PPR.EDRH50112	50 1.1/2"	6	24
PPR.EDRH632	63 2"	4	16

COUPLING MALE THREADED TRANSITION

ENLACE DESMONTABLE ROSCA MACHO
RACCORD UNION A SOUDE ET VISSER MÂLE
UNIÃO DESMONTÁVEL ROSCA MACHO



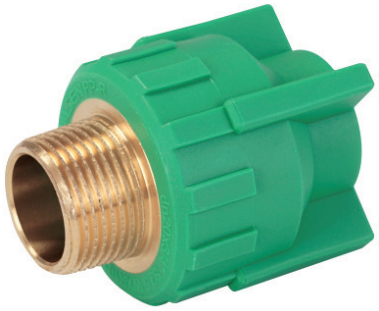
Ref.	DN	U/B	U/C
PPR.EDRM2012	20 1/2"	10	80
PPR.EDRM2534	25 3/4"	10	60
PPR.EDRM321	32 1"	6	48
PPR.EDRM40114	40 1.1/4"	6	24
PPR.EDRM50112	50 1.1/2"	6	24
PPR.EDRM632	63 2"	4	16

● Material not VASEN

DN: mm • U/B: Units per bag • m/B: Meters per box

TRANSITION MALE THREADED

ENTRONQUE ROSCA MACHO
RACCORD D'ADAPTATION MÂLE
UNIÃO ROSCA MACHO



Ref.	DN	U/B	U/C
PPR.ERM2012	20 1/2"	10	120
PPR.ERM2034	20 3/4"	10	80
PPR.ERM2512	25 1/2"	10	100
PPR.ERM2534	25 3/4"	10	80
PPR.ERM3234	32 3/4"	10	80
PPR.ERM321	32 1"	10	40
PPR.ERM40114	40 1.1/4"	4	24
PPR.ERM50112	50 1.1/2"	4	16
PPR.ERM632	63 2"	2	8
PPR.ERM75212	75 2.1/2"	2	6
PPR.ERM903	90 3"	2	8
PPR.ERM110 ●	110 4"	1	3

METAL COUPLING (PLASTIC/PLASTIC)

ENLACE DESMONTABLE SOLDAR-SOLDAR
RACCORD UNION A SOUDE
UNIÃO METÁLICA SOLDAE -SOLDAR

Ref.	DN	U/B	U/C
PPR.EDSS20	20	5	60
PPR.EDSS25	25	5	60
PPR.EDSS32	32	5	60
PPR.EDSS40	40	2	24
PPR.EDSS50	50	2	24
PPR.EDSS63	63	2	16

NUT ADAPTER

ENLACE TUERCA LOCA
RACCORD DROIT AVEC ECROU FEMELLE
UNIÃO ROSCA LOUCA

Ref.	DN	U/B	U/C
PPR.ETL2012	20 1/2"	30	150
PPR.ETL2034	20 3/4"	25	150
PPR.ETL2534	25 3/4"	20	60
PPR.ETL251	25 1"	20	60
PPR.ETL321	32 1"	10	60
PPR.ETL32114 ●	32 1.1/4"	10	50

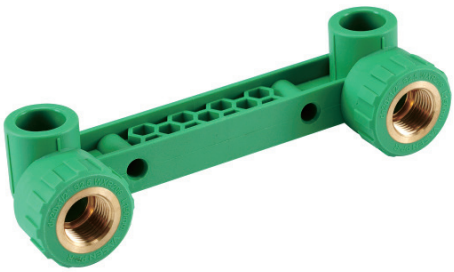
● Material not VASEN

DN: mm • U/B: Units per bag • m/B: Meters per box

INTEGRATED FEMALE THREAD TEE

COLECTOR DE CONEXIÓN
FEMELLE INTÉGRÉ FILET TÉ
COLETOR

Ref.	DN	U/B	U/C
PPR.COLC20	20 1/2"	5	30
PPR.COLC25	25 1/2"	5	20



FEMALE CROSS PIPE

SALVATUBOS HEMBRA
RACCORD DE CROISEMENT FEMELLE
SALVATUBOS FÊMEA

Ref.	DN	U/B	U/C
PPR.ST20	20	10	200
PPR.ST25	25	10	120
PPR.ST32	32	10	60

MALE CROSS PIPE

SALVATUBOS MACHO
RACCORD DE CROISEMENT FEMELLE
SALVATUBOS MACHO

Ref.	DN	U/B	U/C
PPR.STC20	20	10	130
PPR.STC25	25	10	100
PPR.STC32	32	6	54
PPR.STC40 ●	40	5	25

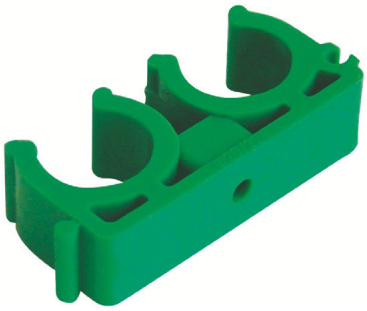
SINGLE CLAMP

ABRAZADERA SIMPLE
CLAMP SIMPLE
ABRAÇADEIRA SIMPLES

Ref.	DN	U/B	U/C
PPR.AS20	20	20	1,600
PPR.AS25	25	20	1,440
PPR.AS32	32	20	960
PPR.AS40 ●	40	100	500

DOUBLE CLAMP

ABRAZADERA DOBLE
CLAMP DOUBLE
ABRAÇADEIRA DUPLA



Ref.	DN	U/B	U/C
PPR.AD20 ●	20	100	500
PPR.AD25 ●	25	50	500
PPR.AD32 ●	32	50	500

● Material not VASEN

DN: mm • U/B: Units per bag • m/B: Meters per box

BALL VALVE

VÁLVULA DE BOLA
ROBINET D'ARRET
VÁLVUKA DE ESFERA

Ref.	DN	U/B	U/C
PPR.VB20 ●	20	10	50
PPR.VB25 ●	25	10	40
PPR.VB32 ●	32	5	20
PPR.VB40 ●	40	4	15
PPR.VB50 ●	50	1	8
PPR.VB63 ●	63	1	5
PPR.VB75 ●	75	1	5

STEERING WHEEL CUTTING VALVE

VÁLVULA DE CORTE CON VOLANTE
ROBINET D'ARRET AVEC VOLANT
VÁLVULA DE CORTE C/ VOLANTE

Ref.	DN	U/B	U/C
PPR.VV20	20	1	35
PPR.VV25	25	1	25
PPR.VV32	32	1	15
PPR.VV40	40	1	10

DEMOUNTABLE BALL VALVE

VÁLVULA DE BOLA DESMONTABLE
ROBINET A BILLE DEMONTABLE
VÁLVULA DE ESFERA DESMONTÁVEL

Ref.	DN	U/B	U/C
PPR.VBD20	20	1	25
PPR.VBD25	25	1	20
PPR.VBD32	32	1	12
PPR.VBD40	40	1	6
PPR.VBD50	50	1	3
PPR.VBD63	63	1	2

CHROME CUTTING VALVE

VÁLVULA DE CORTE MANDO CROMADO
ROBINET D'ARRET CHROME
VÁLVULA DE CORTE CROMADA

Ref.	DN	U/B	U/C
PPR.VCR20	20	1	20
PPR.VCR25	25	1	20
PPR.VCR32	32	1	15

● Material not VASEN

DN: mm • U/B: Units per bag • m/B: Meters per box

CONCEALED VALVE

VÁLVULA DE CORTE PARA EMPOTRAR
ROBINET D'ARRÊT A ENCASTRER
VÃVULA DE CORTE OCULTA

Ref.	DN	U/B	U/C
PPR.VE20	20	1	30
PPR.VE25	25	1	25
PPR.VE32	32	1	20

CONCEALED VALVE BODY

CUERPO LLAVE
CORPS DE ROBINET
CAIXA DE PASSADOR

Ref.	DN	U/B	U/C
PPR.VECU20	20 1/2"	10	100
PPR.VECU25	25 3/4"	10	100
PPR.VECU32	32 3/4"	5	50

VALVE CORE PART AND EXTENSION

MOLDURA LLAVE Y ALARGADOR
PARTIE CENTRALE DE LA RONBINET ET EXTENSION
CASTELO DE VÁLVULA DE CORTE E ALARGADOR

Ref.	DN	U/B	U/C
PPR.VEMOL20	20 1/2"	1	100
PPR.VEMOL2532	25 – 32 3/4"	1	100
PPR.ALARG2032	20 – 25 – 32	1	250

VALVE CHROMED UPPER PART

LLAVE EMBELLECEDOR
PARTIE SUPERIEURE CHROME DE LA ROBINET
TUBO P/ CASTELO E ESPELHO

Ref.	DN	U/B	U/C
PPR.VEEMB202532	20 – 25 – 32	1	50

ELECTROFUSION COUPLER

MANGUITO ELECTROSOLDABLE
MANCHON D'ÉLECTROFUSION
UNIÃO ELECTROSSOLDÁVEL

Ref.	DN	U/B	U/C
PPR.EFM25	25	1	80
PPR.EFM32	32	1	70
PPR.EFM40	40	1	60
PPR.EFM50	50	1	40
PPR.EFM63	63	1	25
PPR.EFM75	75	1	20
PPR.EFM90	90	1	10
PPR.EFM110	110	1	5
PPR.EFM125	125	1	10
PPR.EFM160	160	1	6

ELECTROFUSION REDUCER

MANGUITO REDUCCIÓN ELECTROSOLDABLE
MANCHON RÉDUCTION D'ÉLECTROFUSION
REDUÇÃO ELECTROSSOLDÁVEL

Ref.	DN	U/B	U/C
PPR.EFMR6332	63–32	1	30
PPR.EFMR6340	63–40	1	30
PPR.EFMR6350	63–50	1	30
PPR.EFMR7563	75–63	1	30
PPR.EFMR9063	90–63	1	10
PPR.EFMR9075	90-75	1	10
PPR.EFMR11063	110–63	1	6
PPR.EFMR11075	110–75	1	6
PPR.EFMR11090	110–90	1	6
PPR.EFMR12590	125–90	1	10
PPR.EFMR125110	125–110	1	10
PPR.EFMR16090	160–90	1	6
PPR.EFMR160110	160–110	1	6
PPR.EFMR160125	160–125	1	6

ELECTROFUSION ELBOW 90°

CODO 90° ELECTROSOLDABLE
COUDE 90° D'ÉLECTROFUSION
CURVA 90° ELECTROSSOLDÁVEL

Ref.	DN	U/B	U/C
PPR.EFC9063	63	1	10
PPR.EFC9075	75	1	10
PPR.EFC9090	90	1	5
PPR.EFC90110	110	1	8
PPR.EFC90125	125	1	6
PPR.EFC90160	160	1	4

DN: mm • U/B: Units per bag • m/B: Meters per box

ELECTROFUSION ELBOW 45°

CODO 45° ELECTROSOLDABLE
COUDE 45° D'ÉLECTROFUSION
CURVA 45° ELECTROSSOLDÁVEL

Ref.	DN	U/B	U/C
PPR.EFC4563	63	1	18
PPR.EFC4575	75	1	10
PPR.EFC4590	90	1	6
PPR.EFC45110	110	1	10
PPR.EFC45125	125	1	6
PPR.EFC45160	160	1	4

ELECTROFUSION TEE

TE ELECTROSOLDABLE
TÉ D'ÉLECTROFUSION
TÊ ELECTROSSOLDÁVEL

Ref.	DN	U/B	U/C
PPR.EFT63	63	1	10
PPR.EFT75	75	1	7
PPR.EFT90	90	1	10
PPR.EFT110	110	1	8
PPR.EFT125	125	1	5
PPR.EFT160	160	1	2

BUTT FUSION ELBOW 90° SDR 11

CODO 90° A TOPE SDR 11
COUDE 90° SDR 11 BOUT A BOUT
CURVA A 90° TOPO A TOPO SDR 11

Ref.	DN	U/B	U/C
PPR.BFC90200 ▲	200	1	1
PPR.BFC90250 ▲	250	1	1
PPR.BFC90315 ▲	315	1	1

BUTT FUSION ELBOW 45° SDR 11

CODO 45° A TOPE SDR 11
COUDE 45° SDR 11 BOUT A BOUT
CURVA A 45° TOPO A TOPO SDR 11

Ref.	DN	U/B	U/C
PPR.BFC45200 ▲	200	1	1
PPR.BFC45250 ▲	250	1	1
PPR.BFC45315 ▲	315	1	1

BUTT FUSION TEE SDR 11

TE A TOPE SDR 11
TÉ SDR 11 BOUT A BOUT
TÊ TOPO A TOPO SDR 11

Ref.	DN	U/B	U/C
PPR.BFT200 ▲	200	1	1
PPR.BFT250 ▲	250	1	1
PPR.BFT315 ▲	315	1	1

BUTT FUSION CAP SDR 11

TAPÓN A TOPE SDR 11
BOUCHON SDR 11 BOUT A BOUT
TAMPÃO TOPO A TOPO SDR 11

Ref.	DN	U/B	U/C
PPR.BFTAP200 ▲	200	1	1
PPR.BFTAP250 ▲	250	1	1
PPR.BFTAP315 ▲	315	1	1

▲ Delivery time on request

DN: mm • U/B: Units per bag • m/B: Meters per box

BUTT FUSION STUB END SDR 11

VALONA A TOPE SDR 11
COLLIER DE BRIDE SDR 11 BOUT A BOUT
COLARINHO TOPO A TOPO SDR 11

Ref.	DN	U/B	U/C
PPR.BFVAL200 ▲	200	1	1
PPR.BFVAL250 ▲	250	1	1
PPR.BFVAL315 ▲	315	1	1

BUTT FUSION REDUCER SDR 11

REDUCCION A TOPE SDR 11
RÉDUCTION SDR 11 BOUT A BOUT
REDUÇÃO TOPO A TOPO SDR 11

Ref.	DN	U/B	U/C
PPR.BFMRD200160 ▲	200–160	1	1
PPR.BFMRD250160 ▲	250–160	1	1
PPR.BFMRD250200 ▲	250–200	1	1
PPR.BFMRD3120 ▲	315–200	1	1
PPR.BFMRD3125 ▲	315–250	1	1

▲ Delivery time on request

DN: mm • U/B: Units per bag • m/B: Meters per box

ELECTROFUSION MACHINE

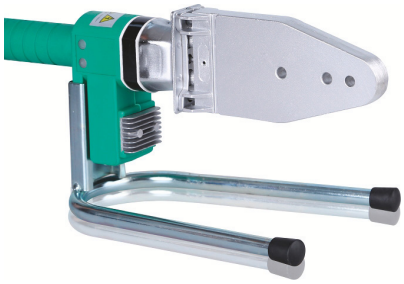
MÁQUINA DE SOLDAR ELECTROFUSIÓN
MACHINE D'ÉLECTROFUSION
MÁQUINA DE ELECTROSSOLDADURA

Ref.	DN	U/B	U/C
SPE 16 ●	Con scaner 20–160 mm	Ø20–Ø160	1

WELDING MACHINE

MÁQUINA DE SOLDAR
MACHINE DE SOUDAGE
POLIFUSORA

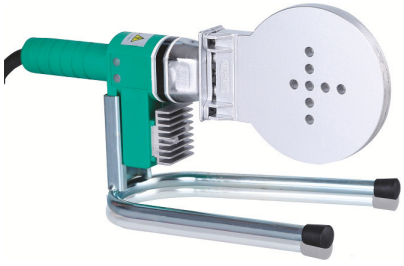
Ref.	DN	U/B	U/C
PPR.THJ63	20, 25, 32, 40,50, 63 mm	Ø16–Ø63	1



WELDING MACHINE

MÁQUINA DE SOLDAR
MACHINE DE SOUDAGE
POLIFUSORA

Ref.	DN	U/B	U/C
PPR.THJ110	75, 90, 110 mm	Ø20–Ø110	1



WELDING MACHINE

MÁQUINA DE SOLDAR
MACHINE DE SOUDAGE
POLIFUSORA

Ref.	DN	U/B	U/C
PPR.THJ160	No incluidas	Ø20–Ø160	1

● Material not VASEN

DN: mm • U/B: Units per bag • m/B: Meters per box

WELDING TOOL

MATRIZ DE SOLDADURA
OUTIL DE SOUDAGE
MATRIZ DE SOLDADURA

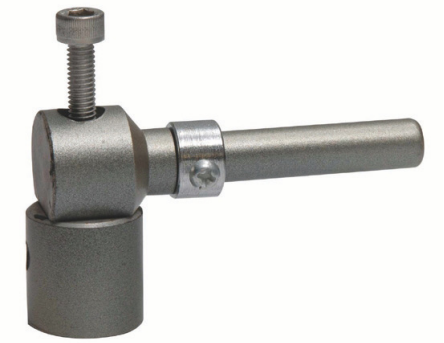
Ref.	DN	U/B
PPR.MS16	16	1
PPR.MS20	20	1
PPR.MS25	25	1
PPR.MS32	32	1
PPR.MS40	40	1
PPR.MS50	50	1
PPR.MS63	63	1
PPR.MS75	75	1
PPR.MS90	90	1
PPR.MS110	110	1
PPR.MS125	125	1
PPR.MS160	160	1

SADDLE WELDING TOOL

MATRIZ DE SOLDADURA PARA INJERTO
OUTIL DE SOUDAGE DE SELLE
MATRIZ DE SOLDADURA P/ DERIVAÇÃO

Ref.	DN	U/B
PPR.MSI5025	50–25	1
PPR.MSI6325	63–25	1
PPR.MSI7525	75–25	1
PPR.MSI9025	90–25	1
PPR.MSI9032	90–32	1
PPR.MSI11025	110–25	1
PPR.MSI11032	110–32	1

REPAIR TOOL



MATRIZ DE REPARACIÓN
OUTIL DE RÉPARATION
MATRIZ DE REPARAÇÃO

Ref.	DN	U/B
PPR.MSR7	7	1
PPR.MSR11	11	1

SADDLE DRILLING

TALADRO INJERTO
DRILL DE SELLE
BROCA DE DERIVAÇÃO

Ref.	DN	U/B
PPR.TALI25	25	1
PPR.TALI32	32	1

CUTTER

TIJERAS CORTATUBOS
CISEAUX
TESOURA

Ref.	DN	U/B
PPR.TIS	16–40	1

VASEN

AENOR
Producto Certificado

MULTILAYER PERT-AL-PERT
PIPES AND FITTINGS

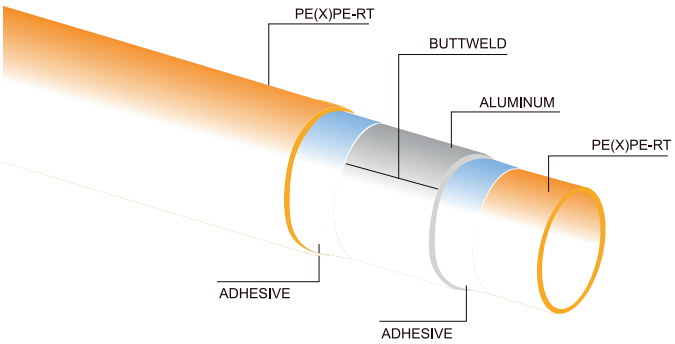
CHARACTERISTICS

Over the past 50 years, traditional pipes and fittings have come a long way. From welded copper pipes and fittings to compression brass fittings and in more recent times pushfit systems. Advancement in technology, materials and application taking one step forward at a time. The introduction
of press tubing and fittings dates back 20 years. The need for
a lighter, safer and more practical way of plumbing compared
to traditional copper was necessary.
Press-fitting technology and multilayer pipe were seen as the
way to proceed. Offering more than 50% speed in installation
time and 30% less accessories required when compared to other conventional systems.
With the increasing demand for high quality multilayer pipe and pressure fittings, VASEN introduces the press-fitting system. A full range of multilayer pipe and pressure fittings. This system is available in high quality brass: CW617N.

ADVANTAGES

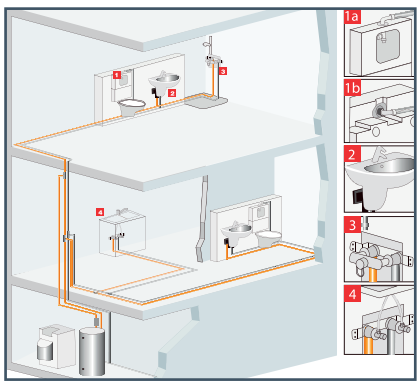
VASEN multilayer pipe is composed of 5 layers that are made up of an inner and outer layer of PERT, a central layer of aluminum, joined together by two layers of adhesive. The aluminum layer is butt welded to give a complete oxygen barrier. Compared to other traditional systems, the VASEN system offers significant advantages.
Quick and safe installation.

- Easy pipe installation, simply bend and tighten, therefore fewer accessories.
- No welding or threading.
- No copper, no theft.
- Free of corrosion.
- No guesswork, the press tool will know the degree of tension.
- High pressure and temperature resistance.
- Resistance to stress cracking and fracturing, as well as impact shock.
- Effective response to water hammer that may occur.
- Light weight, which makes it easy to install and transport.
- Easy bending without loss of rigidity.
- Can be used with all types of water.
- Smooth interior surface, thus avoiding scale build-up.
- Resistant to corrosion.
- Very low thermal expansion; much lower than in plastic pipes.
- Minimum expansion length.
- Resistant to pressure and temperature.
- They do not alter the taste or smell of the water.
- They do not conduct electricity.
- Excellent acoustic insulation.

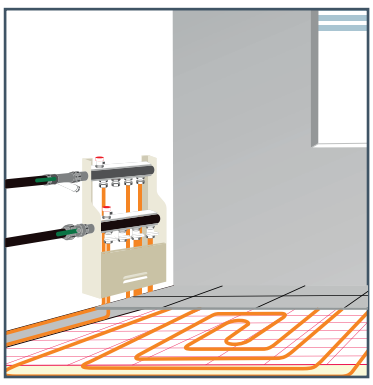


APPLICATION FIELDS

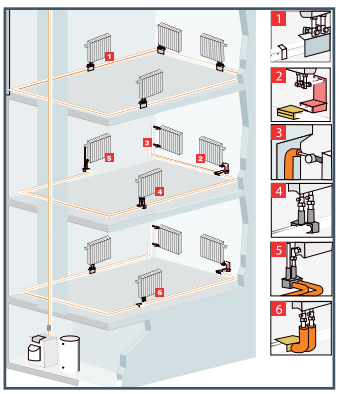
VASEN multilayer system can be used for potable water, underfloor heating and all general plumbing, heating and cooling installations in residential, industrial and commercial environments.



Hot and cold water



Underfloor heating



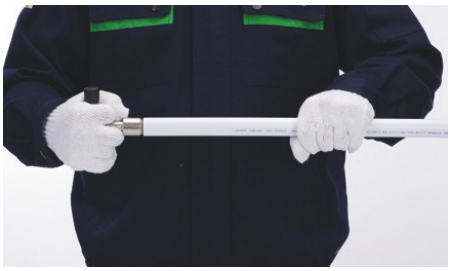
Radiators

CONNECTION METHODS

CUTTING AND CALIBRATE

- **Cutting the pipe.**
  The cut must be completely perpendicular to the pipe, using a special scissors for cutting multilayer pipe. A cut with a certain obliqueness can cause the union to be incorrect.

- **Calibration to round the tube.**
  When cutting, the multilayer pipe can be slightly deformed due to its internal layers, so it is necessary to round the pipe using a caliper that chamfered the end of the pipe.
  A reamer is used for this, in such a way that it is inserted into the pipe (depending on the diameter), rotated and pushed to remove burrs and rough or cutting edges. Incorrect calibration causes damage to the O-ring on insert.



1. PRESS FITTINGS

Inserting the pipe into the accessory
The pipe is inserted up to the top of the accessory. To verify this maneuver, the multilayer accessories have holes through which it can be seen the blank pipe , indicating that it has been performed correctly.

Pressing
First of all, make sure that the clamp used is the correct one according to the accessory and pipe. The jaw placement is on the metal cap, right next to the white piece (cap-holder), under no circumstances on it. After pressing, remove the clamp and inspect the gasket to ensure complete press.

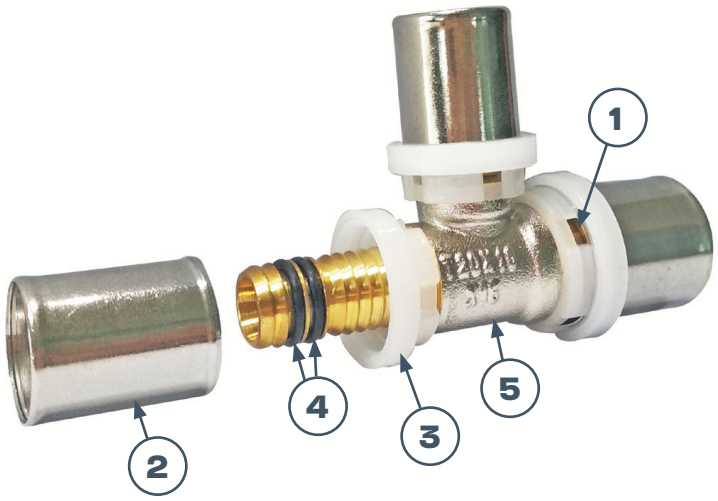
2. COMPRESSION FITTINGS

Inserting the pipe into the accessory
The pipe is inserted up to the top of the accessory.

Tighten the bolts
For the installation of compression fittings, the seal is carried out simply by tightening a nut with a norma wrench. This operation causes the deformation of a compression ring which compresses the multilayer pipe which is inserted into it.

TECHNICAL SPECIFICATIONS

		DIAMETER X THICKNESS (mm)			
SPECIFICATIONS	Unit.	16 x 2.0	20 x2.0	25 x 2.5	32 x 3.0
External diameter	mm	16	20	25	32
Internal diameter	mm	12	16	20	26
Thickness	mm	2	2	2,5	3
Aluminum layer thickness	mm	0,21	0,25	0,3	0,35
Volume water content	l/m	0,113	0,201	0,314	0,531
Unladen weight	Kg/m	0,104	0,108	0,16	0,403
Coil length	m		25/50/100		50
Bar length	m	4	4	4	4
Manual bend radius	mm	80	100	100	–
Radius of curvature with internal spring	mm	45	60	60	–
Thermal conduction coefficient	w/mk	0,43	0,43	0,43	0,43
Linear thermal expansion coefficient	mm/m·K	0,026	0,026	0,026	0,026
Internal surface roughness of the pipe	mm	0,007	0,007	0,007	0,007
DIN4726 oxygen diffusion, 40 ° C	mg/ld	0	0	0	0
Maximum operating temperature	°C	95	95	95	95
Minimum operating temperature	°C	–10	–10	–10	–10
Peak temperature (maximum duration 1h)	°C	110	110	110	110
Maximum operating pressure	bar	6	6	6	6
Brass body	CW617N according to EN ISO 21003				
Bushings	304 grade stainless steel				
O-rings	EPDM				
Profile type	Type U/RF				



1. Pipe introduction check hole
2. Grade 304 stainless steel bushing
3. Cap-holder for clamping
4. EPDM O-rings
5. Brass body CW617N

PROFILE TYPE – U/RF

PIPE IN COILS

TUBO EN ROLLO
TUBE EN BOBINE
TUBO EM ROLO

Ref.	DN x ESP. (mm)	L (m)	U/B	m/B
MPF.TR1625	16 X 2.0	25	1	25
MPF.TR1600	16 X 2.0	100	1	100
MPF.TR1620	16 X 2.0	200	1	200
MPF.TR2025	20 X 2.0	25	1	25
MPF.TR2000	20 X 2.0	100	1	100
MPF.TR2550	25 X 2.5	50	1	100
MPF.TR3250	32 X 3.0	50	1	50

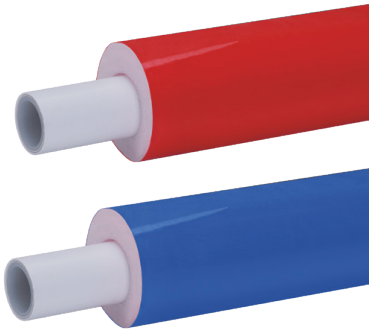
PIPE IN BARS

TUBO EN BARRA
TUBE EN BARRE
TUBO EM BARRA

Ref.	DN x ESP. (mm)	L (m)	U/B	m/B
MPF.TB164	16 X 2.0	4.0	25	100
MPF.TB204	20 X 2.0	4.0	25	100
MPF.TB254	25 X 2.5	4.0	20	80
MPF.TB324	32 X 3.0	4.0	10	40
MPF.TB404	40 X 4.0	4.0	5	20
MPF.TB504	50 X 4.5	4.0	4	16
MPF.TB634	63 X 6.0	4.0	3	12

INSULATED TUBE IN COIL – BLUE / RED

TUBO AISLADO EN ROLLO – AZUL/ROJO
TUBE ISOLÉ EN BOBINE – BLEU / ROUGE
TUBO ISOLADO EM ROLO – AZUL / VERMELHO



Ref.	DN x ESP. - AIS. (mm)	L (m)	U/B	m/B
MPF.TRAA1650	16 X 2.0 - 6	50	1	50
MPF.TRAA2050	20 X 2.0 - 6	50	1	50
MPF.TRAA2525	25 X 2.5 - 9	25	1	25
MPF.TRAA3225	32 X 3.0 - 9	25	1	25
MPF.TRAR1650	16 X 2.0 - 6	50	1	50
MPF.TRAR2050	20 X 2.0 - 6	50	1	50
MPF.TRAR2525	25 X 2.5 - 9	25	1	25
MPF.TRAR3225	32 X 3.0 - 9	25	1	25

STRAIGHT CONNECTOR

MANGUITO
MANCHON
UNIÃO

Ref.	DN	U/c	U/C
MPF.M16	16	25	200
MPF.M20	20	25	200
MPF.M25	25	12	96
MPF.M32	32	10	80
MPF.M40	40	1	60
MPF.M50	50	1	36
MPF.M63	63	1	15

REDUCER

REDUCCIÓN
REDUCTION
REDUÇÃO

Ref.	DN	U/c	U/C
MPF.MRD2016	20–16	22	176
MPF.MRD2516	25–16	15	120
MPF.MRD2520	25–20	18	144
MPF.MRD3220	32–20	12	96
MPF.MRD3225	32–25	12	96
MPF.MRD4025	40–25	1	70
MPF.MRD4032	40–32	1	65
MPF.MRD5032	50–32	1	50
MPF.MRD5040	50–40	1	40
MPF.MRD6340	63–40	1	18
MPF.MRD6350	63–50	1	18

ELBOW 90°

CODO 90°
COUDE 90°
CURVA 90°

Ref.	DN	U/c	U/C
MPF.C16	16	25	200
MPF.C20	20	16	128
MPF.C25	25	10	80
MPF.C32	32	8	64
MPF.C40	40	1	36
MPF.C50	50	1	24
MPF.C63	63	1	10

RADIATOR ELBOW 90°

CODO 90° RADIADOR
COUDE 90° RADIATEUR
CURVA 90° RADIADOR

Ref.	DN	U/c	U/C
MPF.CRA16	16	1	60

EQUAL TEE

TE IGUAL
TÉ ÉGAL
TÊ IGUAL

Ref.	DN	U/c	U/C
MPF.T16	16	18	144
MPF.T20	20	12	96
MPF.T25	25	7	56
MPF.T32	32	5	40
MPF.T40	40	1	25
MPF.T50	50	1	17
MPF.T63	63	1	6

REDUCED TEE

TE REDUCCIÓN
TÉ RÉDUCCION
TÊ REDUÇÃO

Ref.	DN	U/c	U/C
MPF.TR162016	16–20–16	15	120
MPF.TR201616	20–16–16	12	96
MPF.TR201620	20–16–20	12	96
MPF.TR202016	20–20–16	12	96
MPF.TR251625	25–16–25	10	80
MPF.TR252020	25–20–20	10	80
MPF.TR252520	25–25–20	7	56
MPF.TR252025	25–20–25	7	56
MPF.TR321632	32–16–32	7	56
MPF.TR322032	32–20–32	6	48
MPF.TR322525	32–25–25	6	48
MPF.TR322532	32–25–32	5	40
MPF.TR402540	40–25–40	1	28
MPF.TR403240	40–32–40	1	28
MPF.TR502550	50–25–50	1	20
MPF.TR503250	50–32–50	1	21
MPF.TR504050	50–40–50	1	18
MPF.TR634063	63–40–63	1	9
MPF.TR635063	63–50–63	1	8

FEMALE STRAIGHT CONNECTOR

MANGUITO ROSCA HEMBRA
COUPLEUR FILETAGE FEMELLE
UNIÃO ROSCA FÊMEA

Ref.	DN	U/c	U/C
MPF.MRH1612	16×1/2	27	216
MPF.MRH2012	20×1/2	25	200
MPF.MRH2034	20×3/4	15	120
MPF.MRH2534	25×3/4	15	120
MPF.MRH251	25×1	12	96
MPF.MRH321	32×1	12	96
MPF.MRH401	40x1	1	64
MPF.MRH40114	40x1 1/4	1	70
MPF.MRH40112	40x1 1/2	1	60
MPF.MRH50112	50x1 1/2	1	48
MPF.MRH632	63x2	1	22

MALE STRAIGHT CONNECTOR

ENTRONQUE ROSCA MACHO
COUPLEUR FILETAGE MALE
UNIÃO ROSCA MACHO

Ref.	DN	U/c	U/C
MPF.ERM1612	16×1/2	28	224
MPF.ERM2012	20×1/2	25	200
MPF.ERM2034	20×3/4	24	192
MPF.ERM201	20×1	15	120
MPF.ERM2534	25×3/4	18	144
MPF.ERM251	25×1	15	120
MPF.ERM321	32×1	13	104
MPF.ERM32114	32×1 1/4	8	64
MPF.ERM40114	40×1 1/4	1	65
MPF.ERM50112	50x1 1/2	1	48
MPF.ERM632	63x2	1	22

FEMALE ELBOW

CODO ROSCA HEMBRA
COUDE FILETAGE FEMELLE
CURVA ROSCA FÊMEA

Ref.	DN	U/c	U/C
MPF.CRH1612	16×1/2	20	160
MPF.CRH2012	20×1/2	18	144
MPF.CRH2034	20×3/4	15	120
MPF.CRH2534	25×3/4	10	80
MPF.CRH251	25X1	8	64
MPF.CRH321	32×1	7	56

MALE ELBOW

CODO ROSCA MACHO
COUDE FILETAGE MALE
CURVA ROSCA MACHO

Ref.	DN	U/c	U/C
MPF.CRM1612	16X1/2	25	200
MPF.CRM2012	20×1/2	20	160
MPF.CRM2034	20X34	18	144
MPF.CRM2534	25×3/4	12	96
MPF.CRM321	32×1	8	64

PLATE ELBOW

CODO PLACA
COUDE PLAQUE
CURVA COM PATER

Ref.	DN	U/c	U/C
MPF.CP1612	16×1/2	12	96
MPF.CP2012	20×1/2	10	80

FEMALE TEE

TE ROSCA HEMBRA
TE FILETAGE FEMELLE
TE ROSCA FÊMEA

Ref.	DN	U/c	U/C
MPF.TRH1612	16×1/2	15	120
MPF.TRH2012	20×1/2	12	96
MPF.TRH2512	25X1/2	8	64
MPF.TRH2534	25X3/4	6	48
MPF.TRH3234	32X3/4	5	40
MPF.TRH321	32X1	4	32

FEMALE THREADED MOBILE CONNECTOR

MANGUITO ROSCA HEMBRA MOVIL
COUPLEUR FILETAGE FEMELLE MOBILE
UNIÃO ROSCA FÊMEA MÓVEL

Ref.	DN	U/c	U/C
MPF.MM1612	16×1/2	25	200
MPF.MM2034	20X3/4	20	160
MPF.MM2534	25X34	16	128
MPF.MM321	32X1	11	88

END CAP

TAPÓN
BOUCHON
TAMPÃO

Ref.	DN	U/c	U/C
MPF.TAP16	16	40	320
MPF.TAP20	20	30	240

MANIFOLD

COLECTOR
COLLECTEUR
COLETOR

Ref.	DN	U/c	U/C
MPF.C2T3412	3/4"x1/2"-2	10	80
MPF.C3T3412	3/4"x1/2"-3	6	48
MPF.C4T3412	3/4"x1/2"-4	6	48

EUROCONO FOR MULTILAYER PIPING

EUROCONO
EUROCONO POUR TUYAUTERIE MULTICOUCHE
EUROCONO PARA TUBO MULTICAMADA

Ref.	DN	U/c	U/C
MPF.ADAP16	16x1/2"	45	360

EMBEDDED BALL VALVE

VÁLVULA BOLA EMPOTRAR
VANNE A BOULE ENCASTRÉ
VÁLVULA DE BOLA DE ENCASTRAR

Ref.	DN	U/c	U/C
MPF.VE16	16	7	56
MPF.VE20	20	6	48
MPF.VE25	25	5	40
MPF.VE32	32	4	32

"U" BALL VALVE

VÁLVULA BOLA "U"
VANNE A BOULE "U"
VÁLVULA DE BOLA "U"

Ref.	DN	U/c	U/C
MPF.VU16	16	1	1
MPF.VU20	20	1	1
MPF.VU25	25	1	1

FLUSH VALVE EXTENSION

ALARGADOR PARA VÁLVULA DE EMPOTRAR
EXTENSION VANNE ENCASTRÉE
ALARGADOR PARA VÁLVULA DE ENCASTRAR

Ref.	DN	U/c	U/C
MPF.ALARG1620	16–20	1	1
MPF.ALARG2532	25–32	1	1

HANDLE FOR FLUSH VALVE

REG. MANETA PARA VÁLVULA DE EMPOTRAR C/FLORÓN RÉGULATION
LEVIER POUR VANNE ENCASTRÉE
MANETE P/ VÁLVULA DE ENCASTRAR

Ref.	DN	U/c	U/C
MPF.RM1620	16–20	1	50
MPF.RM2532	25–32	1	50

KNOB HANDLE FOR FLUSH VALVE

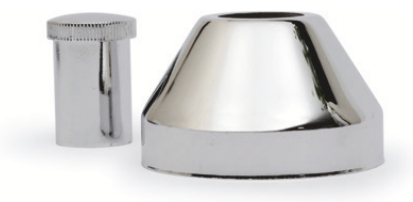
REG. POMO PARA VÁLVULA DE EMPOTRAR C/FLORÓN RÉGULATION
POIGNÉE POR VANNE ENCASTRÉE
MANIPULO P/ VÁLVULA DE ENCASTRAR

Ref.	DN	U/c	U/C
MPF.RP1620	16–20	1	50
MPF.RP2532	25–32	1	50

HIDDEN HANDLE FOR FLUSH VALVE

REG. OCULTA PARA VÁLVULA DE EMPOTRAR C/FLORÓN RÉGULATION
CACHÉ POUR VANNE ENCASTRÉE
MANIPULO OCULTO P/ VÁLVULA DE ENCASTRAR

Ref.	DN	U/c	U/C
MPF.RO1620	16–20	1	50
MPF.RO2532	25–32	1	50



STRAIGHT CONNECTOR

MANGUITO
MANCHON
UNIÃO

Ref.	DN	U/c	U/C
MCF.M16	16	20	160
MCF.M20	20	15	120
MCF.M25	25	10	80
MCF.M32	32	6	48

REDUCER

REDUCCIÓN
REDUCTION
REDUÇÃO

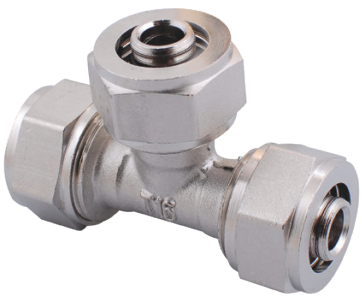
Ref.	DN	U/c	U/C
MCF.MRD2016	20–16	20	160
MCF.MRD2516	25–16	10	80
MCF.MRD2520	25–20	10	80
MCF.MRD3220	32–20	8	64
MCF.MRD3225	32–25	7	56

ELBOW 90°

CODO 90°
COUDE 90°
CURVA 90°

Ref.	DN	U/c	U/C
MCF.C16	16	20	160
MCF.C20	20	10	80
MCF.C25	25	8	64
MCF.C32	32	5	40

EQUAL TEE



TE IGUAL
TÉ ÉGAL
TÊ IGUAL

Ref.	DN	U/c	U/C
MCF.T16	16	15	120
MCF.T20	20	8	64
MCF.T25	25	6	48
MCF.T32	32	4	32

REDUCED TEE

TE REDUCCIÓN
TÉ RÉDUCCION
TÊ REDUÇÃO

Ref.	DN	U/c	U/C
MCF.TR162016	16–20–16	10	80
MCF.TR201616	20–16–16	10	80
MCF.TR201620	20–16–20	10	80
MCF.TR202016	20–20–16	10	80
MCF.TR251625	25–16–25	7	56
MCF.TR252020	25–20–20	7	56
MCF.TR252520	25–25–20	6	48
MCF.TR252025	25–20–25	6	48
MCF.TR321632	32–16–32	4	32
MCF.TR322032	32–20–32	4	32
MCF.TR322532	32–25–32	4	32

FEMALE STRAIGHT CONNECTOR

MANGUITO ROSCA HEMBRA
COUPLEUR FILETAGE FEMELLE
UNIÃO ROSCA FÊMEA

Ref.	DN	U/c	U/C
MCF.MRH1612	16×1/2	25	200
MCF.MRH2012	20×1/2	20	160
MCF.MRH2034	20×3/4	15	120
MCF.MRH2534	25×3/4	10	80
MCF.MRH251	25×1	10	80
MCF.MRH321	32×1	7	56

MALE STRAIGHT CONNECTOR

ENTRONQUE ROSCA MACHO
COUPLEUR FILETAGE MALE
UNIÃO ROSCA MACHO

Ref.	DN	U/c	U/C
MCF.ERM1612	16×1/2	25	200
MCF.ERM2012	20×1/2	15	120
MCF.ERM2034	20×3/4	15	120
MCF.ERM2534	25×3/4	15	120
MCF.ERM251	25×1	12	96
MCF.ERM321	32×1	10	80

DN: mm • U/B: Units per bag • m/B: Meters per bag

FEMALE ELBOW

CODO ROSCA HEMBRA
COUDE FILETAGE FEMELLE
CURVA ROSCA FÊMEA

Ref.	DN	U/c	U/C
MCF.CRH1612	16×1/2	15	120
MCF.CRH2012	20×1/2	15	120
MCF.CRH2034	20×3/4	10	80
MCF.CRH2534	25×3/4	8	64
MCF.CRH321	32×1	6	48

MALE ELBOW

CODO ROSCA MACHO
COUDE FILETAGE MALE
CURVA ROSCA MACHO

Ref.	DN	U/c	U/C
MCF.CRM1612	16X1/2	20	160
MCF.CRM2012	20×1/2	20	160
MCF.CRM2034	20X3/4	15	120
MCF.CRM2534	25×3/4	10	80

PLATE ELBOW

CODO PLACA
COUDE PLAQUE
CURVA COM PATER

Ref.	DN	U/c	U/C
MCF.CP1612	16×1/2	15	120
MCF.CP2012	20×1/2	10	80

FEMALE TEE

TE ROSCA HEMBRA
TE FILETAGE FEMELLE
TE ROSCA FÊMEA

Ref.	DN	U/c	U/C
MCF.TRH1612	16×1/2	15	120
MCF.TRH2012	20×1/2	10	80

EXTERIOR SPRING

MUELLE EXTERIOR
RESSORT EXTÉRIEUR
MOLA EXTERIOR

Ref.	DN	U/c	U/C
MPF.CVE16	16	1	50
MPF.CVE20	20	1	50
MPF.CVE25	25	1	25
MPF.CVE32	32	1	20

PIPE CUTER

CORTATUBOS
CUT TUYAUX
CORTA TUBOS

Ref.	DN	U/c	U/C
MPF.TIS	16 –20–25–32	1	20

SCARIATOR

ESCARIADOR
SCARIATOR
ESCARIADOR

Ref.	DN	U/c	U/C
MPF.ESC1625	16-20-25	1	25
MPF.ESC2032	20-25-32	1	25
MPF.ESC1632	16-20-25-32	1	25

VASEN

ACCESORIOS DE POLIETILENO
ELECTROSOLDABLES / TOPE

CARACTERÍSTICAS

General

La industria del plástico tiene más de 100 años, pero el polietileno no se inventó hasta los años 30. Desde su descubrimiento en 1933, el polietileno (PE) ha crecido para ser uno de los materiales termoplásticos más ampliamente usados y reconocidos del mundo. La resina moderna de PE de hoy es altamente mejorada para aplicaciones mucho más rigurosas, como tuberías de gas y agua a alta presión, membranas de vertederos, depósitos de carburantes de automoción y otras aplicaciones exigentes.

Los polímeros que consisten solo de carbón e hidrógeno se llaman poliolefinas. El polietileno (PE) pertenece a este grupo. Es un termoplástico semicristalino. El polietileno es el polímero estándar más conocido. La fórmula química es (CH2-CH2)n. Es un hidrocarburo respetuoso con el medioambiente.

Tipos de materiales PE

Las propiedades físicas de los materiales PE son específicas para cada grado o tipo y pueden ser modificadas en variaciones de densidad y en distribución de peso molecular.
Un gran número de grados de materiales de polietileno son usados en sistemas de tubería y accesorios y las propiedades específicas son entalladas para la aplicación particular.

Los tipos más generales de materiales de PE son los que se indican a continuación.

PE de baja densidad (PEBD)

La densidad de PEBD varía entre 0,910 y 0,940 g/cm3 y expone gran flexibilidad y retención de propiedades a baja temperatura. El mayor uso del PEBD en tuberías es en la microirrigación o en aplicaciones de tubo de goteo de riego con medidas de hasta 32 mm de diámetro.
Los materiales de PEBD pueden ser modificados con elastómeros (modificado elásticamente) para mejorar los valores de resistencia a grietas de tensión ambiental (ESCR, de sus siglas en inglés) en aplicaciones de microirrigación, donde las tuberías operan en ambientes desprotegidos mientras llevan productos químicos agrícolas.

PE de media densidad (MDPE)

La resina en base MDPE se manufactura usando un proceso de polimerización a baja presión y la cadena estructural con limitada ramificación lateral resulta en un material con un rango de densidad entre 0,930 y 0,940 g/cm3. Los materiales MDPE se califican como PE63 y PE80.

Los materiales MDPE proveen tuberías con propiedades mejoradas cuando se comparan con los antiguos materiales de alta densidad usados en tuberías.

Estas propiedades incluyen vida, flexibilidad, ductilidad, resistencia al crecimiento lento y a la propagación de grietas. Estas propiedades de los materiales MDPE son utilizadas en redes de gas, bobinas de tuberías de pequeños diámetros, bobinas de irrigación móviles y aplicaciones de redes de agua.

PE de alta densidad (PEAD)

Las resinas en base PEAD son producidas en un proceso a baja presión, resultando en una cadena estructural con ramificaciones laterales pequeñas y un rango de densidad de material entre 0,930 y 0,960 g/cm3. El PEAD se califica como PE80 o PE100 de acuerdo con ISO4427.

El PEAD es ampliamente usado en aplicaciones a presión y a no presión, tales como abastecimiento de agua, drenajes, desagües y alcantarillados en tuberías de hasta 2500 mm de diámetro. La rigidez incrementada del PEAD es usada para sacar ventaja en aplicaciones tales como conductos eléctricos y de comunicaciones, drenajes del subsuelo, alcantarillado y agua superficial.

CAMPOS DE APLICACIÓN

- **Redes de tuberías de agua potable** para abastecimiento de agua a ciudades y municipios.
- **Redes de distribución de gas.**
- **Redes de saneamiento.**
- **Drenaje de aguas pluviales.**
- **Redes de tuberías para instalaciones de piscinas.**
- **Redes de tuberías para calefaccion y aire acondicionado.** Los sistemas de tuberías y accesorios VASEN de PEAD se utilizan en aplicaciones de geotermia.
- **Redes de tuberías para riego.**
- **Transporte de sólidos en suspensión** en la industria minera, etc.

VENTAJAS

- **Peso ligero.**
  La densidad de la tubería y accesorios es de sólo 0,93-0,96 g/cm3. El peso de la tubería de PEAD es mucho menor que la de hormigón, hierro o acero. Los sistemas de tuberías de PEAD son fáciles de manejar e instalar y la reducción en mano de obra y requerimientos de equipos puede resultar en ahorros de instalación.
- **Flexibilidad**.
  En algunos casos la flexibilidad de la tubería podría eliminar notablemente el uso de accesorios y reducir enormemente el coste de la instalación. La tubería de PEAD puede ser curvada a un radio mínimo entre 20 y 40 veces el diámetro de la tubería, el cual depende principalmente del SDR de la tubería.
- **Químicamente inertes y buena resistencia a la corrosión.**
  Las tuberías y accesorios **VASEN** de PEAD tienen una excelente resistencia a la corrosión contra la mayoría de las sustancias químicas en sistemas de suministro de agua potable, riego, saneamiento y drenaje. El PEAD es anticorrosivo y no se oxida a largo plazo.
- **Inodoro e insípido.**
- **Aislante eléctrico.**
  El PEAD es un conductor eléctrico y no se deteriora, oxida o corroe por acción electrolítica.
- **Buen aislante térmico.**
- **Bajo coeficiente de fricción.**
- **Resistencia a la abrasión.**
  La alta resistencia a la abrasión, la flexibilidad, el peso ligero y la robustez de las tuberías y accesorios VASEN de PEAD ha llevado a su amplio uso en aplicaciones como transporte de desechos de la minería.
- **Facilidad de instalación y unión.**
  Por electrofusión o soldadura a tope.
- **Reciclable.**
- **Larga vida útil.**
  Cuando la temperatura de trabajo es de 20 °C su vida útil es de 50 años.

CONNECTION METHODS

1. ELECTROFUSION

- **Cut the pipe.**
  Cut the ends of the pipes rectangular and deburr them thoroughly.

- **Measure welding depth.**
  Measure the vertical length between the fitting end and the limit circle (measure half length of the fittings if the without limit circle).

- **Mark welding depth.**
  Mark the depth of electrofusion fitting on the ends of the pipes.

- **Peel pipe end surface.**
  Peel the surface of the pipes up to the marks thoroughly with a peeling tool (0.1-0.3 mm thickness), and deburr. (It is a necessary procedure).

- **Clean up welding area.**
  Clean the welding area of the pipes and fitting with isopropanol, completely dry the fusion area with clean cloth. Do not touch the clean and dry fusion area of pipes or fittings with hands.

- **Mark welding depth**
  Mark the depth of electrofusion fitting again on the ends of the pipes.

- **Insert into the fitting.**
  Push the electrofusion sockets on the clean and dry end of the pipe (up to the marked depth) and check the fitness. Clamp the pipes and fittings at the same axis, ensure not move during fusion.

- **Plug in the electrodes.**
  Attach the electrode plugs of the welding machine to the electrode of the fittings, to ensure fully contact.

- **Electric weld.**
  Read the bar code on the fittings by scanning pen or input the welding parameter manually. Check the welding parameter showed on the machine, such as product type, voltage, heating and cooling time. Press “Start” button to carry on welding. Do not move or stress pipe and fitting during the whole fusion process and cooling time.

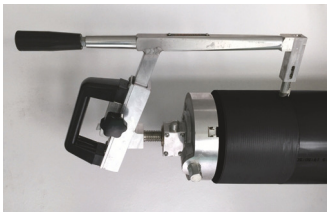
- **Welding check.**
  After fusion process, check and see if the welding indicators are protruded (the welding indicators height vary with fit clearance).

Atention:

❶ Input voltage deviation should be not more than 15%, output voltage allowed deviation is within 5%.

❷ The electrofusion machine without temperature compensation function should set compensation time.

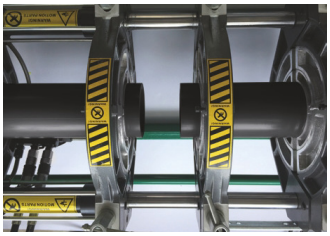


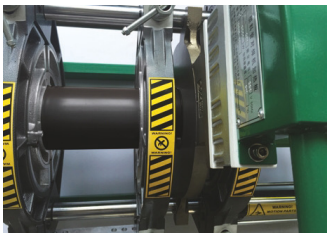


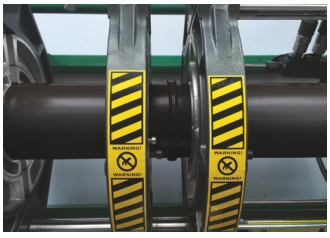




2.BUTT FUSION







- **Clamp pipes and fittings.**
  Plastic pipes and fittings are aligned and fixed by means of the clamping elements.

- **Check welding parameter.**
  Set welding temperature to 225 5ºC, and test the pipe moving pressure.

- **Mill pipe ends.**
  Use the milling machine for milling the pipe end to be plane-parallel. Check if the pipe match, if not, makes adjustment, to ensure the alignment tolerance less than 10%.

- **Heat up.**
  After the heating element has been positioned, the pipes are pushed onto the heating plate with a defined adjusting pressure.

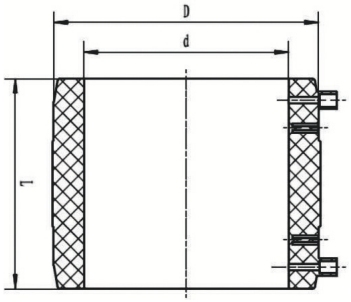
  After reaching the specified bead height the pressure is reduced. This process marks the beginning of the heating time. This time is for heating up the pipe ends up to the right welding temperature.

- **Butt weld.**
  When heating time has expired, divide the machine slide, remove heating element quickly and join the pipes (by putting both parts of the slide together).

- **Hold pressure and cool down.**
  The pipes are fused with the required welding pressure and cooled down under pressure.

ELECTROFUSION COUPLER PE100

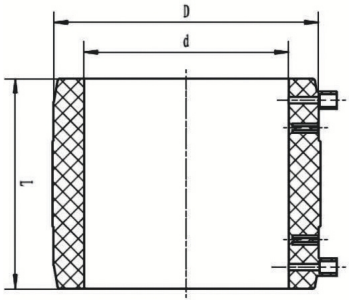
MANGUITO ELECTROSOLDABLE PE100
MANCHON ÉLECTROSOUDABLE PE100
UNIÃO ELECTROSSOLDÁVEL PE100 °



Ref.	d mm	D mm	L mm	SDR Min/Max	PN bar	U/C	Kg/Uni.
DAEMAN020	20	32	73	11 - 17.6	16	80	0.063
DAEMAN025	25	40	70	11 - 17.6	16	60	0.070
DAEMAN032	32	47	77	11 - 17.6	16	50	0.090
DAEMAN040	40	56	85	11 - 17.6	16	40	0.123
DAEMAN050	50	68	94	11 - 17.6	16	40	0.168
DAEMAN063	63	81	113	11 - 17.6	16	30	0.243
DAEMAN075	75	96	125	11 - 17.6	16	20	0.365
DAEMAN090	90	116	160	11 - 17.6	16	10	0.670
DAEMAN110	110	141	155	11 - 17.6	16	16	0.656
DAEMAN125	125	159	160	11 - 17.6	16	10	0.930
DAEMAN140	140	177	165	11 - 17.6	16	10	1.538
DAEMAN160	160	203	170	11 - 17.6	16	6	1.800
DAEMAN180	180	230	180	11 - 17.6	16	5	1.860
DAEMAN200	200	254	195	11 - 17.6	16	3	2.833
DAEMAN225	225	279	210	11 - 17.6	16	3	4.500
DAEMAN250	250	312	220	11 - 17.6	16	2	5.350
DAEMAN280	280	348	260	11 - 17.6	16	2	7.250
DAEMAN315	315	392	285	11 - 17.6	16	1	8.800
DAEMAN355	355	429	290	11 - 17.6	16	1	8.300
DAEMAN400	400	455	400	11 - 17.6	16	1	11.200

ELECTROFUSION CAP PE100

TAPÓN ELECTROSOLDABLE PE100
BOUCHON ÉLECTROSOUDABLE PE100
TAMPÃO ELECTROSSOLDÁVEL PE100



Ref.	d mm	D mm	L	SDR Min/Max	PN	U/C	Kg/Uni.
DAETAP020 ●	20	30	70	11 - 17.6	16	50	0.05
DAETAP025	25	40	79	11 - 17.6	16	50	0.082
DAETAP032	32	47	95	11 - 17.6	16	50	0.1
DAETAP040	40	56	98	11 - 17.6	16	50	0.152
DAETAP050	50	68	118.5	11 - 17.6	16	40	0.43
DAETAP063	63	81	140	11 - 17.6	16	50	0.332
DAETAP075	75	96	157	11 - 17.6	16	36	0.483
DAETAP090	90	116	188	11 - 17.6	16	18	0.928
DAETAP110	110	141	202	11 - 17.6	16	10	1.12
DAETAP125	125	159	206	11 - 17.6	16	6	1.625
DAETAP160	160	203	219	11 - 17.6	16	3	2.933
DAETAP200	200	254	289	11 - 17.6	16	1	4.75

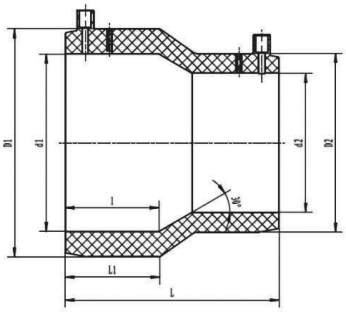
● Material not VASEN

DN: mm • U/B: Units per bag • U/C: Units per box

VASEN

ELECTROFUSION REDUCER PE100

REDUCCIÓN ELECTROSOLDABLE PE100
MANCHON RÉDUIT ÉLECTROSOUDABLE PE100
REDUÇÃO ELECTROSSOLDÁVEL PE100



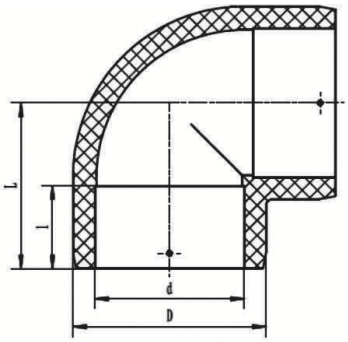
Ref.	d1-d2 mm	D1 mm	D2 mm	L mm	SDR Min/Max	PN bar	U/C	Kg/Uni.
DAERE2520 ●	25-20	34	29	69	11 - 17.6	16	60	0.040
DAERE3220 ●	32-20	47	29	76	11 - 17.6	16	60	0.050
DAERE3225	32-25	47	40	90	11 - 17.6	16	60	0.093
DAERE4025 ●	40-25	56	40	89	11 - 17.6	16	50	0.100
DAERE4032	40-32	56	47	95	11 - 17.6	16	50	0.120
DAERE5025 ●	50-25	68	40	100	11 - 17.6	16	40	0.140
DAERE5032	50-32	68	47	108	11 - 17.6	16	40	0.158
DAERE5040	50-40	68	56	107	11 - 17.6	16	40	0.160
DAERE6325 ●	63-25	81	40	102	11 - 17.6	16	30	0.180
DAERE6332	63-32	81	47	126	11 - 17.6	16	30	0.200
DAERE6340	63-40	81	56	125	11 - 17.6	16	30	0.223
DAERE6350	63-50	81	68	122	11 - 17.6	16	30	0.243
DAERE7563	75-63	96	81	135	11 - 17.6	16	20	0.350
DAERE9050	90-50	116	68	155	11 - 17.6	16	12	0.467
DAERE9063	90-63	116	81	148	11 - 17.6	16	12	1.475
DAERE9075	90-75	116	96	146	11 - 17.6	16	12	0.542
DAERE1163	110-63	141	81	178	11 - 17.6	16	16	0.775
DAERE1175	110-75	141	96	176	11 - 17.6	16	16	0.844
DAERE1190	110-90	141	116	175	11 - 17.6	16	16	0.894
DAERE1263	125-63	159	81	187	11 - 17.6	16	12	1.000
DAERE1290	125-90	159	116	184	11 - 17.6	16	12	1.133
DAERE1211	125-110	159	141	163	11 - 17.6	16	12	1.150
DAERE1690	160-90	203	116	220	11 - 17.6	16	6	1.883
DAERE1611	160-110	203	141	210	11 - 17.6	16	6	2.033
DAERE1612	160-125	203	159	192	11 - 17.6	16	6	1.917
DAERE2090	200-90	254	117	265	11 - 17.6	16	3	3.700
DAERE2011	200-110	254	142	254	11 - 17.6	16	3	3.500
DAERE2016	200-160	256	204	220	11 - 17.6	16	3	3.567
DAERE250160	250-160	314	204	273	11 - 17.6	16	2	5.500
DAERE250200	250-200	314	254	245	11 - 17.6	16	2	2.850
DAERE315200	315-200	396	254	350	11 - 17.6	16	1	10.000
DAERE315250	315-250	396	318	340	11 - 17.6	16	1	10.300

● Material not VASEN

DN: mm • U/B: Units per bag • U/C: Units per box

ELECTROFUSION ELBOW 90° PE100

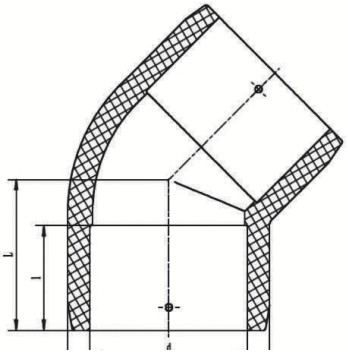
CODO 90° ELECTROSOLDABLE PE100
COUDE 90° ÉLECTROSOUDABLE PE100
CURVA 90° ELECTROSSOLDÁVEL PE100



Ref.	d mm	D mm	L mm	l mm	SDR Min/Max	PN bar	U/C	Kg/Uni.
DAEC90025	25	24	55	38	11 - 17.6	16	60	0.103
DAEC90032	32	47	62	41	11 - 17.6	16	50	0.128
DAEC90040	40	56	71	46	11 - 17.6	16	40	0.185
DAEC90050	50	68	63	53	11 - 17.6	16	20	0.275
DAEC90063	63	81	100	61	11 - 17.6	16	12	0.400
DAEC90075	75	40	55	38	11 - 17.6	16	10	0.580
DAEC90090	90	94	111	66	11 - 17.6	16	6	1.000
DAEC90110	110	116	122	70	11 - 17.6	16	8	1.688
DAEC90125	125	141	145	82	11 - 17.6	16	6	2.167
DAEC90160	160	177	168	90	11 - 17.6	16	4	4.200
DAEC90180	180	203	182	94	11 - 17.6	16	4	4.150
DAEC90200	200	230	198	99	11 - 17.6	16	2	8.200
DAEC90225	225	273	235	115	11 - 17.6	16	1	7.600
DAEC90250	250	257	215	105	11 - 17.6	16	1	8.300
DAEC90315	315	380	315	150	11 - 17.6	16	1	18.200

ELECTROFUSION ELBOW 45° PE100

CODO 45° ELECTROSOLDABLE PE100
COUDE 45° ÉLECTROSOUDABLE PE100
CURVA 45° ELECTROSSOLDÁVEL PE100

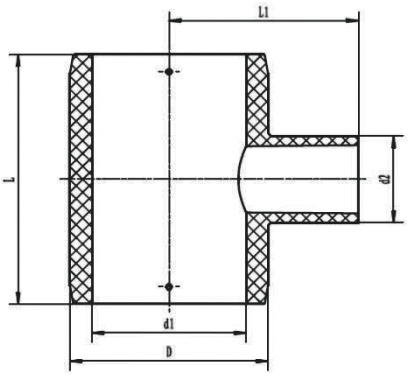


Ref.	d mm	D mm	L mm	l mm	SDR Min/Max	PN bar	U/C	Kg/Uni.
DAEC45032	32	47	54	41	11 - 17.6	16	60	0.125
DAEC45040	40	56	62	46	11 - 17.6	16	30	0.163
DAEC45050	50	68	70	53	11 - 17.6	16	25	0.240
DAEC45063	63	81	80	61	11 - 17.6	16	12	0.333
DAEC45075	75	94	88	66	11 - 17.6	16	12	0.492
DAEC45090	90	116	95	70	11 - 17.6	16	6	0.750
DAEC45110	110	141	115	82	11 - 17.6	16	12	1.458
DAEC45125	125	159	118	85	11 - 17.6	16	6	1.567
DAEC45160	160	203	138	94	11 - 17.6	16	4	3.250
DAEC45180	180	230	147	99	11 - 17.6	16	2	5.900
DAEC45200	200	254	165	105	11 - 17.6	16	2	6.150
DAEC45250	250	316	191	120	11 - 17.6	16	1	8.300
DAEC45225	225	273	170	115	11 - 17.6	16	1	11.800
DAEC45250	250	316	191	120	11 - 17.6	16	1	8.300
DAEC45315	315	380	235	150	11 - 17.6	16	1	15.000

VASEN

ELECTROFUSION REDUCED TE PE100

TE REDUCIDA ELECTROSOLDABLE PE100
TÉ RÉDUIT ÉLECTROSOUDABLE PE100
TÊ REDUZIDO ELECTROSSOLDÁVEL PE100

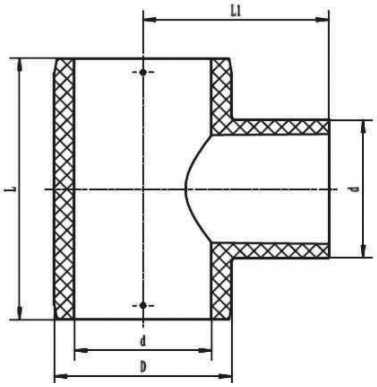


Ref.	d1-d2 mm	D mm	L mm	L1 mm	SDR Min/Max	PN bar	U/C	Kg/Uni.
DAETR3225	32-25	47	110	63	11 - 17.6	16	40	0.125
DAETR4025	40-25	56	120	72	11 - 17.6	16	30	0.183
DAETR4032	40-32	56	130	75	11 - 17.6	16	30	0.188
DAETR5025	50-25	68	146	78	11 - 17.6	16	18	0.311
DAETR5032	50-32	68	146	81	11 - 17.6	16	18	0.322
DAETR5040	50-40	68	146	81	11 - 17.6	16	18	0.333
DAETR6325	63-25	81	156	86	11 - 17.6	16	12	0.258
DAETR6332	63-32	81	156	90	11 - 17.6	16	12	0.333
DAETR6340	63-40	81	156	94	11 - 17.6	16	12	0.350
DAETR6350	63-50	81	156	98	11 - 17.6	16	12	0.346
DAETR7563	75-63	96	178	115	11 - 17.6	16	10	0.383
DAETR9040	90-40	116	200	115	11 - 17.6	16	15	0.833
DAETR9050	90-50	116	200	125	11 - 17.6	16	15	0.847
DAETR9063	90-63	125	200	125	11 - 17.6	16	15	0.873
DAETR9075 ●	90-75	125	200	125	11 - 17.6	16	15	0.900
DAETR1140	110-40	141	220	125	11 - 17.6	16	10	1.230
DAETR1150	110-50	141	220	125	11 - 17.6	16	10	1.370
DAETR1163	110-63	141	220	150	11 - 17.6	16	8	1.425
DAETR1175 ●	110-75	141	220	150	11 - 17.6	16	8	1.450
DAETR1190	110-90	141	220	160	11 - 17.6	16	8	1.488
DAETR1263	125-63	159	220	150	11 - 17.6	16	6	1.933
DAETR1290	125-90	159	245	165	11 - 17.6	16	6	2.000
DAETR1211	125-110	203	257	171	11 - 17.6	16	6	2.217
DAETR1663	160-63	203	238	182	11 - 17.6	16	4	2.850
DAETR1690	160-90	203	277	198	11 - 17.6	16	4	3.300
DAETR1611	160-110	203	277	198	11 - 17.6	16	4	3.600
DAETR1612	160-125	230	290	206	11 - 17.6	16	4	3.650
DAETR2090	200-90	254	285	215	11 - 17.6	16	2	5.450
DAETR2011	200-110	254	310	220	11 - 17.6	16	2	5.850
DAETR2016	200-160	254	360	240	11 - 17.6	16	2	7.100

● Material not VASEN

DN: mm • U/B: Units per bag • U/C: Units per box

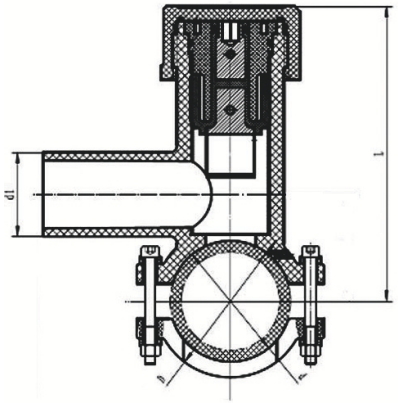
ELECTROFUSION EQUAL TEE PE100



TE IGUAL ELECTROSOLDABLE PE100
TÉ ÉGAL ÉLECTROSOUDABLE PE100
TÊ IGUAL ELECTROSSOLDÁVEL PE100

Ref.	d mm	D mm	L mm	L1 mm	SDR Min/Max	PN bar	U/C	Kg/Uni.
DAETEI025	25	40	100	64	11 - 17.6	16	40	0.120
DAETEI032	32	47	110	70	11 - 17.6	16	40	0.130
DAETEI040	40	56	127	80	11 - 17.6	16	30	0.200
DAETEI050	50	68	156	100	11 - 17.6	16	15	0.400
DAETEI063	63	81	178	122	11 - 17.6	16	10	0.450
DAETEI075	75	96	191	131	11 - 17.6	16	7	0.660
DAETEI090	90	116	226	144	11 - 17.6	16	10	1.140
DAETEI110	110	141	255	160	11 - 17.6	16	8	1.740
DAETEI125	125	159	270	175	11 - 17.6	16	5	2.300
DAETEI160	160	203	317	211	11 - 17.6	16	3	4.370
DAETEI180	180	230	341	241	11 - 17.6	16	1	8.200
DAETEI200	200	254	400	255	11 - 17.6	16	1	8.500
DAETEI250	250	318	450	310	11 - 17.6	16	1	8.900
DAETEI315	315	396	640	390	11 - 17.6	16	1	14.600

ELECTROFUSION TAPPING TEE PE100



TOMA EN CARGA ELECTROSOLDABLE PE100
PRISE DE BRANCH. ÉLECTROSOUDABLE PE100
TOMADA EM CARGA ELECTROSSOLDÁVEL PE100

Ref.	d mm	D mm	L mm	SDR Min/Max	PN bar	U/C	Kg/Uni.
DAETC4032 ●	40-32	55	141	11 - 17.6	16	30	0.370
DAETC5032 ●	50-32	66	110	11 - 17.6	16	30	0.370
DAETC6332	63-32	78	139	11 - 17.6	16	10	2.180
DAETC6340 ●	63-40	78	155	11 - 17.6	16	25	0.470
DAETC7532 ●	75-32	91	141	11 - 17.6	16	25	0.440
DAETC9032 ●	90-32	114	221	11 - 17.6	16	20	0.510
DAETC9040 ●	90-40	105	186	11 - 17.6	16	20	0.650
DAETC9063	90-63	114	221	11 - 17.6	16	3	2.567
DAETC1132 ●	110-32	124	216	11 - 17.6	16	10	0.920
DAETC1140 ●	110-40	130	176	11 - 17.6	16	10	0.950
DAETC1163	110-63	134	231	11 - 17.6	16	10	2.760
DAETC1232 ●	125-32	140	215	11 - 17.6	16	10	1.010
DAETC1240 ●	125-40	150	178	11 - 17.6	16	10	1.030
DAETC1263 ●	125-63	160	178	11 - 17.6	16	10	1.100
DAETC1632 ●	160-32	180	122	10 - 17.6	16	6	2.460
DAETC1663	160-63	194	271	11 - 17.6	16	10	2.720
DAETC2063	200-63	240	294	11 - 17.6	16	5	3.820

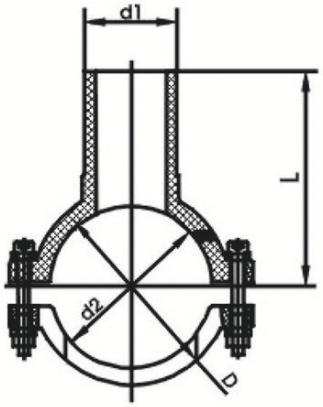
● Material not VASEN

DN: mm • U/B: Units per bag • U/C: Units per box

ELECTROFUSION BRANCHING SADDLE PE100

COLLARIN MEDIA CAÑA ELECTROSOLDABLE PE100
SELLE DE BRANCH. ÉLECTROSOUDABLE PE100
SAÍDA P/ RAMAL ELECTROSSOLDÁVEL PE100

Ref.	d1-d2 mm	D mm	L mm	SDR Min/Max	PN bar	U/C	Kg/Uni.
DAEMC4032 ●	40-32	50	106	11 - 17.6	16	50	0.240
DAEMC5032 ●	50-32	72	107	11 - 17.6	16	50	0.260
DAEMC6332	63-32	78	99	11 - 17.6	16	20	0.550
DAEMC7532 ●	75-32	53	118	11 - 17.6	16	25	0.360
DAEMC9032	90-32	114	117	11 - 17.6	16	10	0.900
DAEMC9063 ●	90-63	110	202	11 - 17.6	16	20	1.080
DAEMC1132	110-32	134	121	11 - 17.6	16	7	1.314
DAEMC1163	110-63	134	147	11 - 17.6	16	6	1.217
DAEMC1232 ●	125-32	147	164	11 - 17.6	16	12	1.200
DAEMC1263	125-63	154	157	11 - 17.6	16	6	1.267
DAEMC1632 ●	160-32	175	145	11 - 17.6	16	10	1.650
DAEMC1663	160-63	194	177	11 - 17.6	16	6	1.867
DAEMC2063	200-63	240	200	12 - 17.6	16	8	1.500
DAEMC2090 ●	200-90	230	190	13 - 17.6	16	6	1.900
DAEMC2563	250-63	300	230	13 - 17.6	16	6	3.183

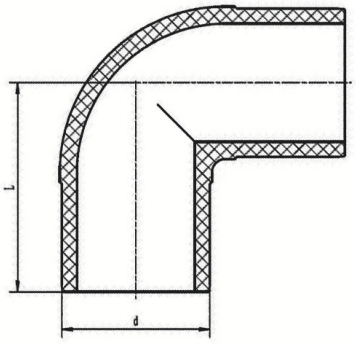


● Material not VASEN

DN: mm • U/B: Units per bag • U/C: Units per box

ELBOW 90° PN 10 PE100

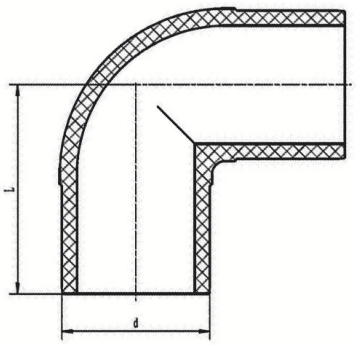
CODO 90° PN 10 PE100
COUDE 90° PN 10 PE100
CURVA 90° PN 10 PE100



Ref.	d mm	L mm	PN bar	U/C	Kg/Uni.
PEC900063	63	105	10	50	0.244
PEC900075	75	130	10	30	0.413
PEC900090	90	140	10	24	0.554
PEC900110	110	155	10	10	0.900
PEC900125	125	165	10	8	1.250
PEC900140	140	176	10	6	1.830
PEC900160	160	185	10	5	1.700
PEC900180	180	210	10	4	3.275
PEC900200	200	230	10	2	4.450
PEC900225 ●	225	385	10	2	4.900
PEC900250	250	276	10	1	8.500
PEC900280	280	445	10	1	11.905
PEC900315	315	330	10	1	15.330

ELBOW 90° PN 16 PE100

CODO 90° PN 16 PE100
COUDE 90° PN 16 PE100
CURVA 90° PN 16 PE100



Ref.	d mm	L mm	PN bar	U/C	Kg/Uni.
PEC901040	40	102	16	200	0.070
PEC901050	50	125	16	60	0.130
PEC901063	63	105	16	50	0.250
PEC901075	75	130	16	30	0.420
PEC901090	90	140	16	24	0.654
PEC901110	110	155	16	10	1.060
PEC901125	125	165	16	8	1.375
PEC901140	140	176	16	6	1.833
PEC901160	160	185	16	5	2.760
PEC901180	180	210	16	4	3.575
PEC901200	200	230	16	2	5.100
PEC901225	225	385	16	2	5.400
PEC901250	250	276	16	1	8.900
PEC901280	280	445	16	1	12.500
PEC901315	315	330	16	1	16.530

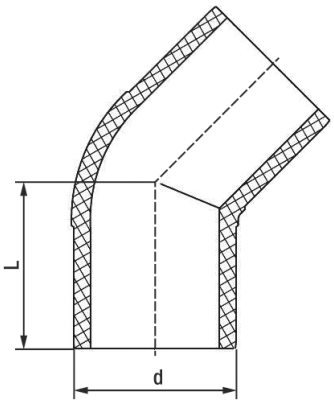
● Material not VASEN

DN: mm • U/B: Units per bag • U/C: Units per box

ELBOW 45° PN 10 PE100

CODO 45° PN 10 PE100
COUDE 45° PN 10 PE100
CURVA 45° PN 10 PE100

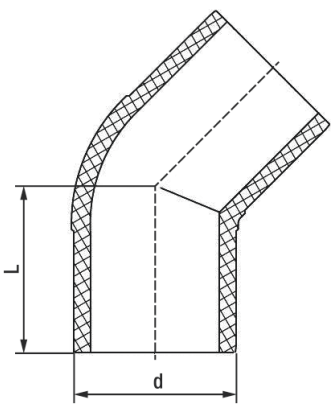
Ref.	d mm	L mm	PN bar	U/C	Kg/Uni.
PEC450063	63	85	10	32	0.221
PEC450075	75	95	10	26	0.307
PEC450090	90	106	10	20	0.410
PEC450110	110	113	10	15	0.626
PEC450125	125	121	10	10	0.960
PEC450140	140	130	10	8	1.375
PEC450160	160	132	10	6	1.860
PEC450180 ●	180	155	10	2	2.350
PEC450200	200	165	10	2	2.650
PEC450225	225	180	10	2	2.800
PEC450250	250	193	10	2	2.900
PEC450280	280	212	10	1	8.500
PEC450315	315	230	10	1	13.300



ELBOW 45° PN 16 PE100

CODO 45° PN 16 PE100
COUDE 45° PN 16 PE100
CURVA 45° PN 16 PE100

Ref.	d mm	L mm	PN bar	U/C	Kg/Uni.
PEC451063	63	85	16	32	0.234
PEC451075	75	95	16	26	0.338
PEC451090	90	106	16	20	0.510
PEC451110	110	113	16	12	0.783
PEC451125	125	121	16	10	1.080
PEC451140 ●	140	130	16	8	1.438
PEC451160	160	132	16	6	2.000
PEC451180 ●	180	155	16	2	3.330
PEC451200	200	165	16	2	4.100
PEC451225	225	180	16	2	4.300
PEC451250	250	193	16	1	7.800
PEC451280	280	212	16	1	9.200
PEC451315	315	230	16	1	13.000

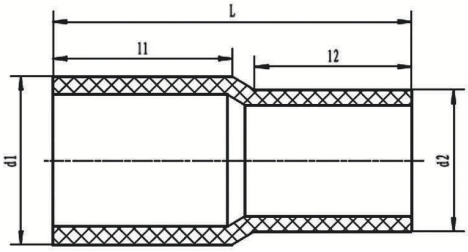


● Material not VASEN

DN: mm • U/B: Units per bag • U/C: Units per box

REDUCER PN 10 PE100

REDUCCIÓN PN 10 PE100
REDUCTION PN 10 PE100
REDUÇÃO PN 10 PE100

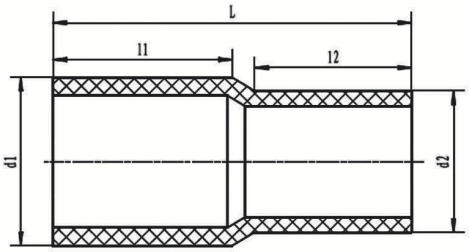


Ref.	d1-d2 mm	L mm	L1 mm	L2 mm	PN bar	U/C	Kg/Uni.
PERE07563	75-63	143	70	63	10	40	0.235
PERE09050	90-50	158	79	55	10	60	0.220
PERE09063	90-63	165	79	63	10	54	0.214
PERE09075	90-75	160	79	70	10	48	0.247
PERE01163	110-63	182	82	63	10	30	0.313
PERE01175	110-75	182	82	70	10	30	0.386
PERE01190	110-90	177	82	79	10	36	0.338
PERE01263	125-63	182	87	63	10	24	0.529
PERE01275	125-75	200	103	70	10	24	0.620
PERE01290	125-90	180	87	79	10	24	0.641
PERE01211	125-110	182	87	82	10	16	0.596
PERE01411	140-110	192	92	82	10	16	0.643
PERE01412	140-125	197	92	87	10	16	0.675
PERE01690	160-90	222	98	79	10	12	0.833
PERE01611	160-110	229	98	82	10	12	1.058
PERE01612	160-125	211	98	87	10	12	1.100
PERE01614	160-140	200	98	92	10	12	1.033
PERE01812	180-125	230	105	97	10	6	1.850
PERE01816	180-160	232	105	98	10	6	1.966
PERE02011	200-110	244	112	82	10	6	1.733
PERE02016	200-160	231	112	98	10	5	2.240
PERE02018	200-180	265	120	112	10	5	2.280
PERE02216	225-160	258	120	98	10	3	2.767
PERE02220	225-200	248	120	112	10	3	2.633
PERE02516	250-160	289	130	98	10	2	3.300
PERE02520	250-200	274	130	112	10	2	3.700
PERE02522	250-225	266	130	120	10	2	3.950
PERE02825	280-250	289	139	130	10	1	11.100
PERE03120	315-200	336	150	112	10	1	8.800
PERE03125	315-250	345	150	130	10	1	9.100

VASEN

ELECTROFUSION REDUCER PE100

REDUCCIÓN ELECTROSOLDABLE PE100
MANCHON RÉDUIT ÉLECTROSOUDABLE PE100
REDUÇÃO ELECTROSSOLDÁVEL PE100



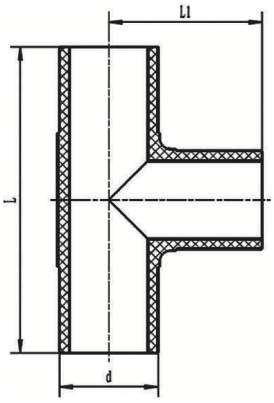
Ref.	d1-d2 mm	L mm	L1 mm	L2 mm	PN bar	U/C	Kg/Uni.
PERE14032 ●	40-32	133	49	44	16	40	0.078
PERE15040	50-40	110	56	50	16	40	0.090
PERE16332	63-32	130	66	55	16	80	0.098
PERE16340	63-40	132	66	55	16	80	0.103
PERE16350	63-50	132	66	55	16	64	0.144
PERE17550	75-50	148	76	55	16	60	0.153
PERE17563	75-63	143	70	63	16	40	0.235
PERE19050	90-50	158	79	55	16	60	0.227
PERE19063	90-63	165	79	63	16	48	0.292
PERE19075	90-75	160	79	70	16	36	0.339
PERE11163	110-63	182	82	63	16	30	0.453
PERE11175	110-75	182	82	70	16	30	0.487
PERE11190	110-90	177	82	79	16	24	0.517
PERE11263	125-63	182	87	63	16	24	0.600
PERE11275 ●	125-75	200	103	70	16	24	0.682
PERE11290	125-90	180	87	79	16	24	0.667
PERE11211	125-110	182	87	82	16	16	0.750
PERE11411	140-110	192	92	82	16	16	0.875
PERE11412	140-125	197	92	87	16	16	0.825
PERE11690	160-90	222	98	79	16	12	1.216
PERE11611	160-110	229	98	82	16	12	1.230
PERE11612	160-125	211	98	87	16	12	1.292
PERE11614	160-140	200	98	92	16	12	1.058
PERE11812	180-125	230	105	87	16	6	1.900
PERE11816	180-160	232	105	98	16	6	2.016
PERE12011	200-110	244	112	82	16	5	2.120
PERE12016	200-160	231	112	98	16	5	2.280
PERE12018	200-180	265	120	112	16	4	2.320
PERE12216	225-160	258	120	98	16	3	2.900
PERE12220	225-200	248	120	112	16	3	3.567
PERE12516	250-160	289	130	98	16	2	4.150
PERE12520	250-200	274	130	112	16	2	4.500
PERE12522	250-225	266	130	120	16	2	4.550
PERE12825	280-250	289	139	130	16	1	12.000
PERE13120	315-200	336	150	112	16	1	8.800
PERE13125	315-250	345	150	130	16	1	9.100

● Material not VASEN

DN: mm • U/B: Units per bag • U/C: Units per box

EQUAL TEE PN 10 PE100

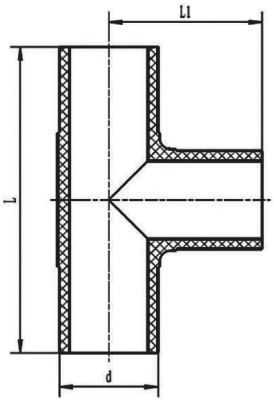
TE IGUAL PN 10 PE100
TÉ ÉGAL PN 10 PE100
TÊ IGUAL PN 10 PE100



Ref.	d mm	L mm	L1 mm	PN bar	U/C	Kg/Uni.
PETEI0063	63	210	105	10	30	0.343
PETEI0075	75	230	115	10	20	0.530
PETEI0090	90	280	140	10	14	0.771
PETEI0110	110	310	155	10	8	0.925
PETEI0125	125	340	170	10	5	1.820
PETEI0140	140	352	176	10	4	2.250
PETEI0160	160	380	190	10	3	3.333
PETEI0180	180	420	210	10	2	4.550
PETEI0200	200	460	230	10	1	6.100
PETEI0225	225	502	247	10	1	7.600
PETEI0250	250	550	275	10	1	10.200
PETEI0280	280	594	297	10	1	13.000
PETEI0315	315	670	335	10	1	17.800

EQUAL TEE PN 16 PE100

TE IGUAL PN 16 PE100
TÉ ÉGAL PN 16 PE100
TÊ IGUAL PN 16 PE100

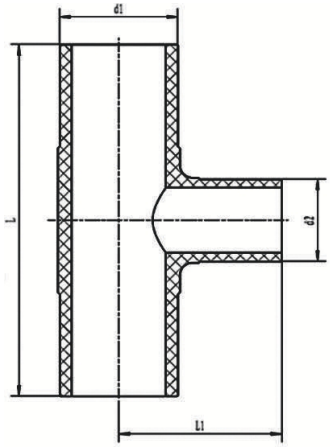


Ref.	d mm	L mm	L1 mm	PN bar	U/C	Kg/Uni.
PETEI1063	63	210	105	16	30	0.343
PETEI1075	75	230	115	16	20	0.545
PETEI1090	90	280	140	16	14	0.800
PETEI1110	110	310	155	16	6	1.450
PETEI1125	125	340	170	16	5	2.000
PETEI1140	140	352	176	16	4	2.500
PETEI1160	160	380	190	16	3	3.700
PETEI1180	180	420	210	16	2	4.950
PETEI1200	200	460	230	16	1	6.600
PETEI1225	225	502	247	16	1	8.600
PETEI1250	250	550	275	16	1	11.200
PETEI1280	280	594	297	16	1	14.800
PETEI1315	315	670	335	16	1	20.220

REDUCED TEE PN 16 PE100

TE REDUCIDA PN 16 PE100
TÉ RÉDUIT PN 16 PE100
TÊ REDUZIDO PN 16 PE100

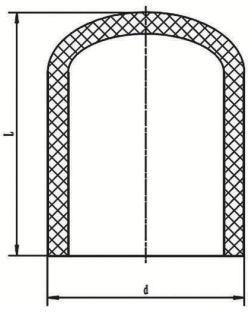
Ref.	d mm	L mm	L1 mm	PN bar	U/C	Kg/Uni.
PETR19063	90-63	269	124	16	14	0.630
PETR11163	110-63	310	137	16	9	1.322
PETR11175	110-75	258	135	16	12	1.016
PETR11190	110-90	310	153	16	9	1.277
PETR11290	125-90	340	166	16	6	1.783
PETR11663	160-63	295	157	16	5	2.180
PETR11690	160-90	370	193	16	3	3.330
PETR11611	160-110	340	177	16	3	3.500
PETR11612	160-125	428	206	16	4	3.710
PETR12090	200-90	488	213	16	3	4.000
PETR12011	200-110	370	199	16	3	4.667
PETR12012	200-125	370	215	16	3	3.500
PETR12016	200-160	420	215	16	2	6.000
PETR12511	250-110	405	223	16	1	8.700
PETR12512	250-125	428	230	16	1	9.300
PETR12516	250-160	460	241	16	1	9.600
PETR13116	315-160	480	272	16	1	13.300
PETR13120	315-200	560	300	16	1	15.200



END CAP PN 16 PE100

TAPÓN PN 16 PE100
BOUCHON PN 16 PE100
TAMPÃO PN 16 PE100

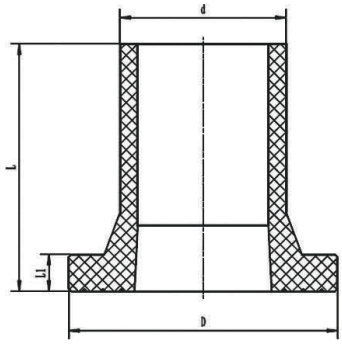
Ref.	d mm	L mm	PN bar	U/C	Kg/Uni.
PETAP1050	50	70	16	240	0.049
PETAP1063	63	82	16	100	0.103
PETAP1075	75	93	16	80	0.160
PETAP1090	90	106	16	50	0.258
PETAP1110	110	123	16	30	0.387
PETAP1125	125	124	16	24	0.537
PETAP1140	140	100	16	24	0.650
PETAP1160	160	132	16	16	0.931
PETAP1180	180	183	16	6	1.600
PETAP1200	200	190	16	6	2.000
PETAP1225	225	179	16	4	2.575
PETAP1250	250	192	16	4	3.225
PETAP1280	280	200	16	4	4.425
PETAP1315	315	216	16	3	6.400



● Material not VASEN

DN: mm • U/B: Units per bag • U/C: Units per box

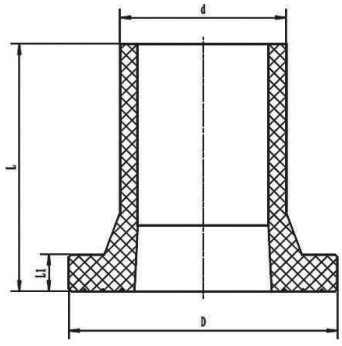
STUB END PN 10 PE100



VALONA PN 10 PE100
COLLET PN 10 PE100
COLARINHO PN 10 PE100

Ref.	d mm	D mm	L mm	L1 mm	PN bar	U/C	Kg/Uni.
PEVAL0063	63	102	94	14	10	60	0.180
PEVAL0075	75	122	105	16	10	36	0.261
PEVAL0090	90	138	117	17	10	30	0.326
PEVAL0110	110	158	128	18	10	24	0.475
PEVAL0125	125	158	133	22	10	18	0.533
PEVAL0140	140	188	136	22	10	10	0.860
PEVAL0160	160	212	176	22	10	6	1.216
PEVAL0180	180	212	180	28	10	6	1.166
PEVAL0200	200	268	182	32	10	4	2.150
PEVAL0225	225	269	180	32	10	4	2.675
PEVAL0250	250	320	205	35	10	2	3.750
PEVAL0280	280	320	210	35	10	2	4.050
PEVAL0315	315	374	210	35	10	1	6.200
PEVAL0355	355	435	225	40	10	1	7.800
PEVAL0400	400	485	240	45	10	1	11.800

STUB END PN 16 PE100



VALONA PN 16 PE100
COLLET PN 16 PE100
COLARINHO PN 16 PE100

Ref.	d mm	D mm	L mm	L1 mm	PN bar	U/C	Kg/Uni.
PEVAL1040	40	78	83	13	16	100	0.095
PEVAL1050	50	88	85	12	16	60	0.167
PEVAL1063	63	102	94	14	16	60	0.193
PEVAL1075	75	122	105	16	16	36	0.308
PEVAL1090	90	138	117	17	16	24	0.416
PEVAL1110	110	158	128	18	16	24	0.591
PEVAL1125	125	158	133	22	16	18	0.738
PEVAL1140	140	188	136	22	16	10	1.150
PEVAL1160	160	212	176	22	16	6	1.550
PEVAL1180	180	212	180	28	16	6	1.866
PEVAL1200	200	268	182	32	16	4	2.825
PEVAL1225	225	269	180	32	16	4	2.925
PEVAL1250	250	320	205	35	16	2	4.400
PEVAL1280	280	320	210	35	16	2	5.100
PEVAL1315	315	374	210	35	16	1	6.600
PEVAL1355	355	435	225	40	16	1	9.300
PEVAL1400	400	485	240	45	16	1	12.300

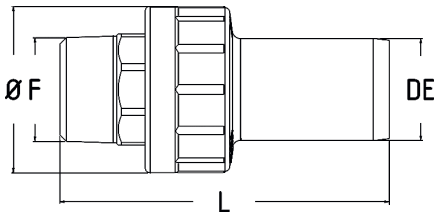
VASEN

MALE TRANSITION PE100

TRANSICIÓN MACHO PE100
RACCORD DE TRANSITION MÂLE PE100
TRANSIÇÃO MACHO PE100

PN10/16

Ref.	DE mm	F	L mm	f mm	PN bar	U/C	Kg/Uni.
DAETRM020	20	1/2"	95	40	16	100	0.110
DAETRM025	25	3/4"	90	45	16	100	0.160
DAETRM032	32	1"	105	65	16	60	0.250
DAETRM040	40	1 1/4"	120	65	16	35	0.400
DAETRM050	50	1 1/2"	125	75	16	30	0.540
DAETRM063	63	2"	140	85	16	20	0.800
DAETRM075	75	2 1/2"	155	110	16	14	1.200
DAETRM090	90	3"	170	125	16	6	1.710
DAETRM110	110	4"	200	155	16	4	2.920
DAETRM125 ●	125	4"	200	155	16	4	3.000

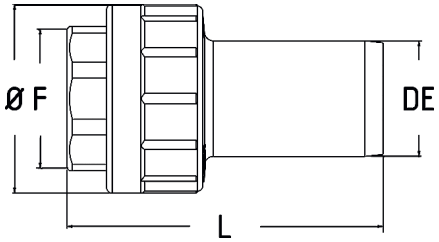


FEMALE TRANSITION PE100

TRANSICIÓN HEMBRA PE100
RACCORD DE TRANSITION FEMELLE PE100
TRANSIÇÃOFÊMEA PE100

PN10/16

Ref.	d mm	D mm	L mm	L1 mm	PN bar	U/C	Kg/Uni.
DAETRH020	20	1/2"	80	40	16	150	0.090
DAETRH025	25	3/4"	80	45	16	100	0.110
DAETRH032	32	1"	90	65	16	60	0.180
DAETRH040	40	1 1/4"	100	65	16	50	0.290
DAETRH050	50	1 1/2"	100	75	16	35	0.370
DAETRH063	63	2"	115	85	16	20	0.580
DAETRH075	75	2 1/2"	130	110	16	14	0.770
DAETRH090	90	3"	145	125	16	10	1.060
DAETRH110	110	4"	160	155	16	6	1.850
DAETRH125 ●	125	4"	160	155	16	6	1.920

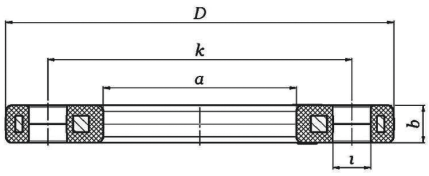


● Material not VASEN

DN: mm • U/B: Units per bag • U/C: Units per box

GALVNIZED STEEL FLANGE

BRIDA ACERO GALVANIZADO
BRIDE GALVANISÉ
FLANGE DE AÇO GALVANIZADA



PN10/16

Ref.		DN/DE mm	a mm	k mm	b mm	D bar	Z	nº Ø	Kg/Uni.
PEBA14050	●	40/50	62	110	12	150	M16	4	1.20
PEBA15063	●	50/63	78	125	12	165	M16	4	1.37
PEBA16575	●	65/75	95	145	12	185	M16	8	1.55
PEBA18090	●	80/90	109	160	13	200	M16	8	1.90
PEBA11011	●	100/110	130	180	13	220	M16	8	2.15
PEBA11012	●	100/125	135	180	13	220	M16	8	2.04
PEBA12512	●	125/125	135	210	14	250	M16	8	3.36
PEBA11214	●	125/140	160	210	14	250	M16	8	2.75
PEBA11516	●	150/160	180	240	14	285	M20	8	3.61
PEBA11518	●	150/180	190	240	14	285	M20	8	3.30

PN10

Ref.		DN/DE mm	a mm	k mm	b mm	D bar	Z	nº Ø	Kg/Uni.
PEBA02020	●	200/200	235	295	16	340	M20	8	5.20
PEBA02022	●	200/225	238	295	16	340	M20	8	5.05
PEBA02525	●	250/250	288	350	18	395	M20	12	6.88
PEBA02528	●	250/280	294	350	18	395	M20	12	7.36
PEBA03031	●	300/315	338	400	20	445	M20	12	8.88
PEBA03535	●	350/355	376	460	20	505	M20	16	14.04
PEBA04040	●	400/400	430	515	22	565	M24	16	15.60

PN16

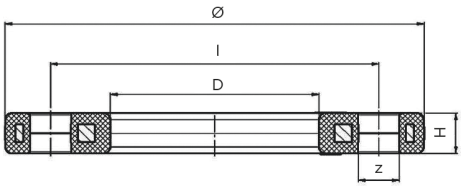
Ref.		DN/DE mm	a mm	k mm	b mm	D bar	Z	nº Ø	Kg/Uni.
PEBA12020	●	200/200	235	295	16	340	M20	12	5.02
PEBA12022	●	200/225	238	295	16	340	M20	12	4.88
PEBA12525	●	250/250	288	355	18	405	M22	12	7.48
PEBA12528	●	250/280	294	355	18	405	M20	12	7.11
PEBA13031	●	300/315	338	410	20	460	M22	12	8.62
PEBA13535	●	350/355	376	470	20	520	M22	16	13.57
PEBA14040	●	400/400	430	525	22	580	M27	16	15.15

BRIDA DE ESPESOR REDUCIDA
Flange With Reduced Thickness - Bride D´Épaisseur Réduit - Flange Com Espessura Reduzida
● Material not VASEN

DN: mm • U/B: Units per bag • U/C: Units per box

BRIDA RECUBIERTA A PP

PP COATED FLANGE
BRIDE REVETUE EN PP
FLANGE REVESTIDA A PP



PN10/16

Ref.	DN/DE mm	Ø mm	I mm	D mm	H mm	Z	nº Ø	Kg/Uni.
PPRBRI4050 ●	40/50	155	110	67	19	M16	4	0.70
PPRBRI5063 ●	50/63	170	125	78	20	M16	4	0.90
PPRBRI6575 ●	65/75	191	145	92	21	M16	4	1.25
PPRBRI8090 ●	80/90	206	160	108	21	M16	8	1.30
PPRBRI100110 ●	100/110	226	180	127	22	M16	8	1.55
PPRBRI100125 ●	100/125	226	180	134	23	M16	8	1.40
PPRBRI125140 ●	125/140	256	210	158	25	M16	8	1.70
PPRBRI150160 ●	150/160	291	240	178	28	M20	8	2.50
PPRBRI150180 ●	150/180	291	240	186	27	M20	8	2.40

PN10

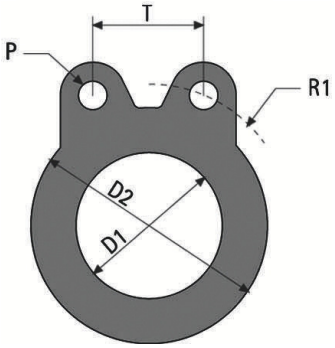
Ref.	DN/DE mm	Ø mm	I mm	D mm	H mm	Z	nº Ø	Kg/Uni.
PPRBRI20020010 ●	200/200	346	295	238	32	M20	8	3.50
PPRBRI20022510 ●	200/225	346	295	238	32	M20	8	3.50
PPRBRI25025010 ●	250/250	405	350	288	36	M20	12	4.90
PPRBRI25028010 ●	250/280	405	350	294	35	M20	12	4.40
PPRBRI30031510 ●	300/315	456	400	337	42	M20	12	7.50

PN16

Ref.	DN/DE mm	Ø mm	I mm	D mm	H mm	Z	nº Ø	Kg/Uni.
PPRBRI200200 ●	200/200	346	295	238	32	M20	12	3.40
PPRBRI200225 ●	200/225	346	295	238	32	M20	12	3.40
PPRBRI250250 ●	250/250	410	355	288	36	M24	12	5.50
PPRBRI250280 ●	250/280	410	355	294	35	M24	12	5.00
PPRBRI300315 ●	300/315	465	410	337	42	M24	12	8.80

GASKET

JUNTA PLANA
JOINT DE BRIDE
JUNTA PLANA



PN10/16

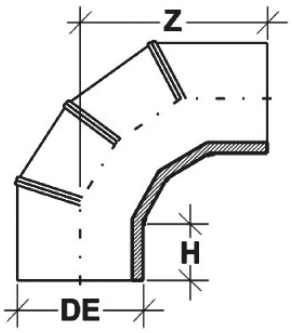
Ref.	d mm	D1 mm	D2 mm	E mm	P Ø mm	R1 mm	T mm	U/C
JUNTA40 ●	40	50	82	3	15	53	77	25
JUNTA50 ●	50	60	96	3	15	61	87	25
JUNTA65 ●	65	77	121	3	18	71	93	25
JUNTA80 ●	80	80	130	3	16	78	61	25
JUNTA100 ●	100	100	154	3	16	88	68	25
JUNTA125 ●	125	125	183	3	16	107	81	25
JUNTA150 ●	150	150	208	3	20	118	91	25
JUNTA200 ●	200	200	263	3	20	146	75	25
JUNTA250 ●	250	250	316	4	24	176	91	25
JUNTA300 ●	300	300	367	4	24	203	105	25
JUNTA350 ●	350	350	425	4	24	233	91	25
JUNTA400 ●	400	400	477	4	24	261	102	25

● Material not VASEN

DN: mm • U/B: Units per bag • U/C: Units per box

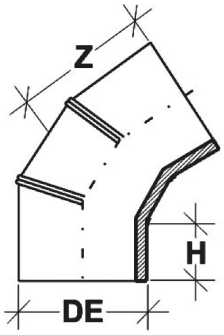
ELBOW 90°

CODO 90°/ COUDE 90° / CURVA 90° •



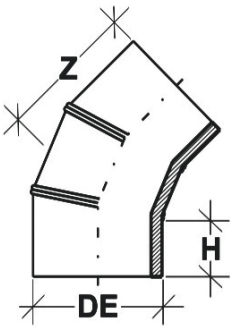
ELBOW 90°

CODO 60°/ COUDE 90° / CURVA 90° •



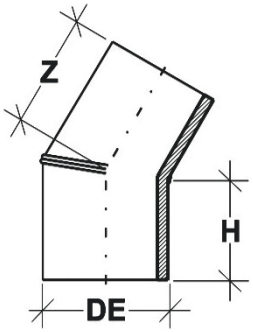
ELBOW 90°

CODO 45°/ COUDE 90° / CURVA 90° •



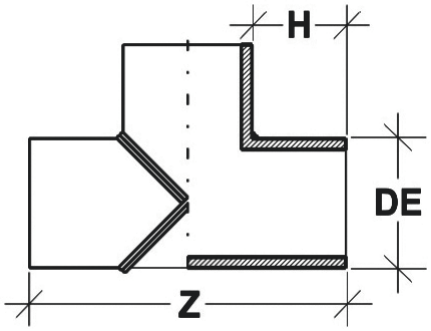
ELBOW 90°

CODO 30°/15° / COUDE 90° / CURVA 90° •



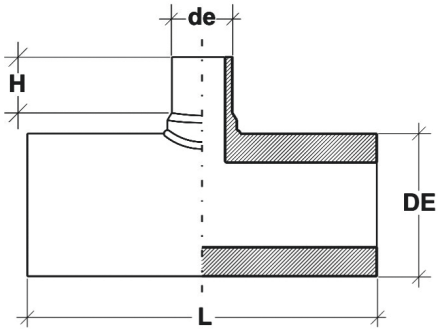
ELBOW 90°

TE IGUAL / COUDE 90° / CURVA 90° •



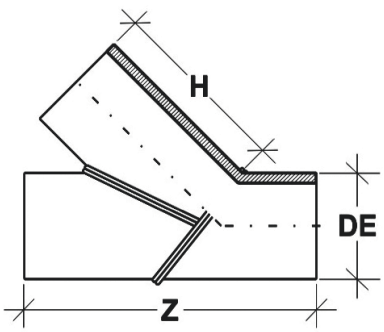
ELBOW 90°

TE REDUCIDA / COUDE 90° / CURVA 90° •



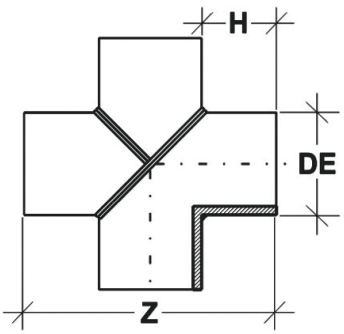
ELBOW 90°

TE IGUAL 45° / COUDE 90° / CURVA 90° •



ELBOW 90°

CRUZ / COUDE 90° / CURVA 90° •



VASEN

ELECTROFUSION MACHINES

MÁQUINAS DE ELECTROFUSIÓN
MACHINES DE ELECTROFUSION
MÁQUINAS DE ELECTROSSOLDADURA

MODELO	Ref.	WR	U/C	Kg/Uni.
MÁQUINA ELECTROFUSIÓN C/ SCANER SPE 16	**SPE 16** ●	20-160	1	9.50

Tensión De Soldadura: **8v / 48v**
Modo Operativo - **Código De Barras / Manual**
Dimensiones: **330mm X 450 Mm X 160 Mm**
Adaptadores: **4 / 4.7 Mm**
Peso: **9.5kg**
Con Caja De Transporte

MODELO	Ref.	WR	U/C	Kg/Uni.
MÁQUINA ELECTROFUSIÓN MANUAL SME 40	**SME 40** ●	20-315	1	16.0

Tensión De Soldadura: **8v / 48v**
Modo Operativo - **Manual**
Dimensiones: **300mm X 200 mm X 270 mm**
Adaptadores: **4 / 4.7 mm**
Peso: **16 kg**
Sin Caja De Transporte

MODELO	Ref.	WR	U/C	Kg/Uni.
MÁQUINA ELECTROFUSIÓN C/ SCANER SPE 50	**SPE 50** ●	20-315	1	20.00

Tensión De Soldadura: **8v / 48v**
Modo Operativo - **Código De Barras / Manual**
Dimensiones: **290 mm X 190 mm X 250 mm**
Adaptadores: **4 / 4.7 mm**
Peso: **20kg**
Sin Caja De Transporte

WR: **GAMMA DE TRABAJO** > Gamme de travail > Gama de Trabalho
● Material not VASEN
DN: mm • U/B: Units per bag • U/C: Units per box

BUTT FUSION MACHINES

MÁQUINAS DE SOLDAR A TOPE
MACHINE DE SOUDAGE BOUT A BOUT
MÁQUINAS DE SOLDAR TOPO A TOPO

MODELO	Ref.	WR	U/C	Kg/Uni.
Máquina soldar a tope st 160	**ST 160**	40-160	1	142.0
Máquina soldar a tope st 200	**ST 200**	63-200	1	160.0
Máquina soldar a tope st 250	**ST 250**	75-250	1	235.0
Máquina soldar a tope st 315	**ST 315**	90-315	1	330.0
Máquina soldar a tope st 355	**ST 355**	125-355	1	345.0
Máquina soldar a tope st 450	**ST 450**	200-450	1	785.0
Máquina soldar a tope st 500	**ST 500**	200-500	1	758.0
Máquina soldar a tope st 630	**ST 630**	315-630	1	1260.0

SQUEEZE OFF TOOL

PINZADOR
SQUEEZE OFF OUTIL
ESMAGADOR

MODELO	Ref.	WR	U/C	Kg/Uni.
Pinzador 16-63	**PÎN**	16-63	1	3.50

SEMIAUTOMATIC SCRAPER

RASCADOR SEMIAUTOMÁTICO
GRATTOIR SEMI-AUTOMATIQUE
RASPADOR SEMIAUTOMATICO

MODELO	Ref.	WR	U/C	Kg/Uni.
Rascador Semiautomático 63-200 mm	**RASEMI200**	63-200	1	2.40

MANUAL SCRAPER

RASCADOR MANUAL
GRATTOIR MANUEL
RASPADOR MANUAL

MODELO	Ref.	WR	U/C	Kg/Uni.
Rascador Manual	**RASMAN**	-	1	0.84

WR: **GAMA DE TRABAJO** > Gamme de travail > Gama de Trabalho

CERTIFICATES

VASEN has the quality certificates to carry out any type of installation with the security of beig working with a leading company in its sector.

VASEN

GENERAL CONDITIONS OF SALE

PRICES

Prices are understood in our warehouse. The shipping is charged to the customer, unless otherwise indicated.

SHIPPING CHARGE

To be agreed between the parties.

PAYMENT CONDITIONS

To be agreed between the parties.

PRICE LIST

VASEN (EGB) will opportunely communicate all of the price list changes.

DELIVERY

The merchandises always travel by account and risk of the buyer, even in the cases of special agreements.

COMPLAINTS

Complaints or manufacture defects must be notified within the next 15 days of the reception of the merchandise, rejecting those made after of the deadline.

Refund material will not be accepted without an existing agreement supported by a document facilitated by our Commercial Department.

All returns will be shipping charged. The demerit charge in returns is 15%, and if these were in poor condition the refund would not be accepted.

GUARANTEE

Our warranty covers only and exclusively the replacement of material or defective items. Once those are reviewed and accepted by our Technical Department this defect. Any wrongful manipulation or different utilization of the material for whom have been conceived invalidates automatically this guarantee.

LITIGATION

In case of dispute, both parties agree to submit their differences to courts and tribunals of Girona (Spain). VASEN/(EGB) reserves the right to change in all or in part the design and the materials of any of their products.

NOTES

LIFESPAN OF
50 YEARS

VASEN

NOTES

LIFESPAN OF
50 YEARS

NOTES

LIFESPAN OF
50 YEARS

VASEN
EUROPE

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POLYPROPYLENE
PIPES AND FITTINGS

MULTILAYER PERT-AL-PERT
PIPES AND FITTINGS

POLYETHYLENE FITTINGS
ELECTROFUSION / BUTT FUSION