VASEN

# POLYPROPYLENE
# PIPES AND FITTINGS

Price list **2020**



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# CHARACTETISTICS

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 ( 110°C), 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, which s 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.

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# 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 131.3°C. Its short-term operating temperature can up to 95°C. And under the temperature of 80°C, 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 (70°C) 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 anti-corrosion and does not rust in long term use.
- **Reliable and convenient connectiona.**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 °C, which is only 1/200 of steel pipe (43-52 w/m °C). 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.**

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# CONNECTION METHODS

## 1.SOCKET FUSION WITH A HAND-HELD WELDING DEVICE



- **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 260°C (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**

| Diameters | Minimum depth | Heating time | Welding time | Cooling time |
|---|---|---|---|---|
| (mm) | (mm) | (sec.) | (sec.) | (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 20°C. When the environment temperature is lower than 20°C, the heating time should increase properly. If the environment temperature is less than 5°C, the heating time should increase 50%.

## 2.ELECTROFUSION

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

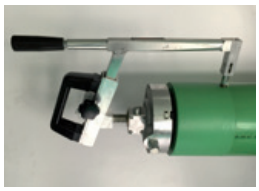
- **Measure welding depth.**
  Measure the vertical length between the fitting end and the limit circle (measure half length of the fittings if the without limit circle).

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

- **Peel pipe end 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 procedureo)**.

- **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.







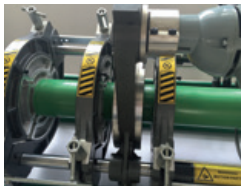




- **Mark welding depth.**
  Mark the depth of electrofusion fitting again on the ends of the pipes.
- **Insert into the fitting.**
  Push the electrofusion sockets on the clean and dry end of the pipe (up to the marked depth) and check the fitness. Clamp the pipes and fittings at the same axis, ensure 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).

**Attention:**

1. Input voltage deviation should be not more than 15%, output voltage allowed deviation is within 5%.
2. The electrofusion machine without temperature compensation function should set compensation time.

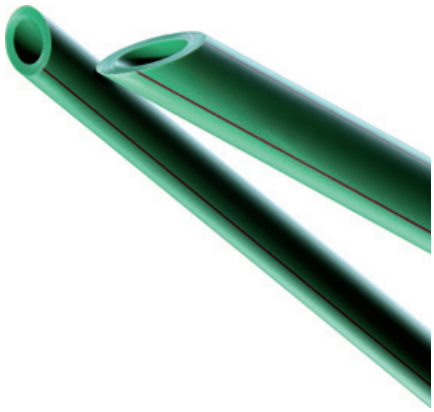



# 3.BUTT FUSION

- **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 THIC. (mm) | L (m) | U/B | m/B | €/m |
|---|---|---|---|---|---|
| **PPR.TB16** | 16 x 2.7 | 4.0 | 25 | 100 | **0,840** |
| **PPR.TB20** | 20 x 3.4 | 4.0 | 25 | 100 | **1,013** |
| **PPR.TB25** | 25 x 4.2 | 4.0 | 20 | 80 | **1,656** |
| **PPR.TB32** | 32 x 5.4 | 4.0 | 10 | 40 | **2,758** |
| **PPR.TB40** | 40 x 6.7 | 4.0 | 5 | 20 | **4,377** |
| **PPR.TB50** | 50 x 8.4 | 4.0 | 4 | 16 | **7,135** |
| **PPR.TB63** | 63 x 10.5 | 4.0 | 3 | 12 | **11,029** |
| **PPR.TB75** | 75 x 12.5 | 4.0 | 2 | 8 | **17,516** |
| **PPR.TB90** | 90 x 15.0 | 4.0 | 1 | 4 | **26,769** |
| **PPR.TB110** | 110 x 18.3 | 4.0 | 1 | 4 | **39,991** |
| **PPR.TB125** ▲ | 125 x 20.8 | 4.0 | 1 | 4 | **53,559** |
| **PPR.TB160** ▲ | 160 x 26.6 | 4.0 | 1 | 4 | **75,148** |

## 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 THIC. (mm) | L (m) | U/B | m/B | €/m |
|---|---|---|---|---|---|
| **PPR.TBF20020** | 20 x 2.8 | 4.0 | 25 | 100 | **1,251** |
| **PPR.TBF20025** | 25 x 3.5 | 4.0 | 20 | 80 | **1,827** |
| **PPR.TBF20032** | 32 x 4.4 | 4.0 | 10 | 40 | **2,970** |
| **PPR.TBF20040** | 40 x 5.5 | 4.0 | 5 | 20 | **4,250** |
| **PPR.TBF20050** | 50 x 6.9 | 4.0 | 4 | 16 | **6,216** |
| **PPR.TBF20063** | 63 x 8.6 | 4.0 | 3 | 12 | **10,601** |
| **PPR.TBF20075** | 75 x 10.3 | 4.0 | 2 | 8 | **15,980** |
| **PPR.TBF20090** | 90 x 12.3 | 4.0 | 1 | 4 | **23,969** |
| **PPR.TBF20110** | 110 x 15.1 | 4.0 | 1 | 4 | **33,868** |
| **PPR.TBF20125** | 125 x 17.1 | 4.0 | 1 | 4 | **52,586** |
| **PPR.TBF20160** | 160 x 21.9 | 4.0 | 1 | 4 | **73,762** |

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

▲ Delivery time on request

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## 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 THIC. (mm) | L (m) | U/B | m/B | €/m |
|---|---|---|---|---|---|
| **PPR.TBFC25** | 25 x 2.3 | 4.0 | 20 | 80 | **1,623** |
| **PPR.TBFC32** | 32 x 2.9 | 4.0 | 10 | 40 | **2,573** |
| **PPR.TBFC40** | 40 x3.7 | 4.0 | 5 | 20 | **4,014** |
| **PPR.TBFC50** | 50 x4.6 | 4.0 | 4 | 16 | **5,790** |
| **PPR.TBFC63** | 63 x 5.8 | 4.0 | 3 | 12 | **10,014** |
| **PPR.TBFC75** | 75 x 6.8 | 4.0 | 2 | 8 | **14,348** |
| **PPR.TBFC90** | 90 x 8.2 | 4.0 | 1 | 4 | **21,658** |
| **PPR.TBFC110** | 110 x 10 | 4.0 | 1 | 4 | **32,087** |
| **PPR.TBFC125** ▲ | 125 x 11.4 | 4.0 | 1 | 4 | **41,628** |
| **PPR.TBFC160** ▲ | 160 x 14.6 | 4.0 | 1 | 4 | **68,142** |



## 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 THIC. (mm) | L (m) | U/B | m/B | €/m |
|---|---|---|---|---|---|
| **PPR.TBFUV20020** | 20 x 2.8 | 4.0 | 25 | 100 | **1,778** |
| **PPR.TBFUV20025** | 25 x 3.5 | 4.0 | 20 | 80 | **2,651** |
| **PPR.TBFUV20032** | 32 x 4.4 | 4.0 | 10 | 40 | **4,368** |
| **PPR.TBFUV20040** | 40 x 5.5 | 4.0 | 5 | 20 | **6,667** |
| **PPR.TBFUV20050** | 50 x 6.9 | 4.0 | 4 | 16 | **10,056** |
| **PPR.TBFUV20063** | 63 x 8.6 | 4.0 | 3 | 12 | **16,628** |



## PIPE IN BAR PPR 80 SDR 11 / S 5 PN10

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 THIC. (mm) | L (m) | U/B | m/B | €/m |
|---|---|---|---|---|---|
| **PPR.TB200** ▲ | 200 x 18.2 | 4.0 | 1 | 4 | **126,815** |
| **PPR.TB250** ▲ | 250 x 22.7 | 4.0 | 1 | 4 | **187,455** |
| **PPR.TB315** ▲ | 315 x 28.6 | 4.0 | 1 | 4 | **300,479** |



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

▲ Delivery time on request

## ELBOW 90°



CODO 90°
COUDE 90°
JOELHO 90°

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.C9016** | 16 | 10 | 400 | **0,306** |
| **PPR.C9020** | 20 | 10 | 400 | **0,230** |
| **PPR.C9025** | 25 | 10 | 240 | **0,353** |
| **PPR.C9032** | 32 | 10 | 140 | **0,502** |
| **PPR.C9040** | 40 | 8 | 80 | **1,083** |
| **PPR.C9050** | 50 | 4 | 40 | **2,070** |
| **PPR.C9063** | 63 | 3 | 18 | **3,563** |
| **PPR.C9075** | 75 | 2 | 18 | **5,090** |
| **PPR.C9090** | 90 | 1 | 9 | **8,143** |
| **PPR.C90110** | 110 | 1 | 5 | **15,596** |
| **PPR.C90125** | 125 | 1 | 4 | **23,279** |
| **PPR.C90160** | 160 | 1 | 4 | **39,380** |

## ELBOW 45°



CODO 45°
COUDE 45°
JOELHO 45°

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.C4516** | 16 | 10 | 600 | **0,238** |
| **PPR.C4520** | 20 | 10 | 600 | **0,174** |
| **PPR.C4525** | 25 | 10 | 360 | **0,333** |
| **PPR.C4532** | 32 | 10 | 200 | **0,502** |
| **PPR.C4540** | 40 | 8 | 96 | **0,950** |
| **PPR.C4550** | 50 | 4 | 56 | **1,562** |
| **PPR.C4563** | 63 | 3 | 30 | **3,121** |
| **PPR.C4575** | 75 | 2 | 18 | **4,799** |
| **PPR.C4590** | 90 | 1 | 8 | **8,217** |
| **PPR.C45110** | 110 | 1 | 6 | **12,821** |
| **PPR.C45160** | 160 | 1 | 4 | **49,951** |

## ELBOW 90° F/M



CODO 90° H/M
COUDE 90° F/M
CURVA 90° F/M

| Ref. | | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|---|
| **PPR.CHM20** | ● | 20 | 50 | 300 | **0,304** |
| **PPR.CHM25** | ● | 25 | 50 | 200 | **0,479** |

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

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## COUPLER

MANGUITO
MANCHON
UNIÃO



| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.M16** | 16 | 10 | 720 | **0,195** |
| **PPR.M20** | 20 | 10 | 720 | **0,146** |
| **PPR.M25** | 25 | 10 | 400 | **0,243** |
| **PPR.M32** | 32 | 10 | 240 | **0,373** |
| **PPR.M40** | 40 | 10 | 150 | **0,576** |
| **PPR.M50** | 50 | 8 | 80 | **1,018** |
| **PPR.M63** | 63 | 6 | 48 | **2,070** |
| **PPR.M75** | 75 | 4 | 32 | **3,661** |
| **PPR.M90** | 90 | 2 | 24 | **5,561** |
| **PPR.M110** | 110 | 2 | 12 | **7,792** |
| **PPR.M125** | 125 | 2 | 10 | **11,427** |
| **PPR.M160** | 160 | 1 | 4 | **28,000** |

## EQUAL TEE

TE IGUAL
TÉ EGAL
TÊ IGUAL



| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.T16** | 16 | 10 | 360 | **0,373** |
| **PPR.T20** | 20 | 10 | 360 | **0,279** |
| **PPR.T25** | 25 | 10 | 200 | **0,456** |
| **PPR.T32** | 32 | 10 | 100 | **0,715** |
| **PPR.T40** | 40 | 6 | 60 | **1,154** |
| **PPR.T50** | 50 | 4 | 32 | **2,273** |
| **PPR.T63** | 63 | 2 | 18 | **4,302** |
| **PPR.T75** | 75 | 2 | 14 | **5,759** |
| **PPR.T90** | 90 | 1 | 8 | **11,180** |
| **PPR.T110** | 110 | 1 | 4 | **19,309** |
| **PPR.T125** | 125 | 1 | 4 | **32,349** |
| **PPR.T160** | 160 | 1 | 4 | **52,917** |

## TEE CROSS

TE CRUZ
TÉ CROIX
TÊ CRUZ



| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.CZ20** | 20 | 10 | 250 | **0,522** |
| **PPR.CZ25** | 25 | 10 | 150 | **0,639** |
| **PPR.CZ32** | 32 | 8 | 96 | **1,156** |

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

● Material not VASEN.

## REDUCED TEE



TE REDUCCIÓN
TÉ RÉDUIT
TÊ REDUZIDO

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.TRC2520** | 25-20-25 | 10 | 200 | **0,363** |
| **PPR.TRC3220** | 32-20-32 | 10 | 150 | **0,671** |
| **PPR.TRC3225** | 32-25-32 | 10 | 120 | **0,671** |
| **PPR.TRC4020** | 40-20-40 | 6 | 84 | **1,040** |
| **PPR.TRC4025** | 40-25-40 | 6 | 72 | **1,040** |
| **PPR.TRC4032** | 40-32-40 | 6 | 60 | **1,188** |
| **PPR.TRC5020** | 50-20-50 | 4 | 48 | **2,152** |
| **PPR.TRC5025** | 50-25-50 | 4 | 48 | **2,191** |
| **PPR.TRC5032** | 50-32-50 | 4 | 40 | **2,249** |
| **PPR.TRC5040** | 50-40-50 | 4 | 40 | **2,313** |
| **PPR.TRC6320** | 63-20-63 | 2 | 32 | **4,052** |
| **PPR.TRC6325** | 63-25-63 | 2 | 32 | **4,236** |
| **PPR.TRC6332** | 63-32-63 | 2 | 32 | **4,236** |
| **PPR.TRC6340** | 63-40-63 | 2 | 24 | **4,236** |
| **PPR.TRC6350** | 63-50-63 | 2 | 24 | **4,236** |
| **PPR.TRC7550** | 75-50-75 | 2 | 18 | **8,147** |
| **PPR.TRC7563** | 75-63-75 | 2 | 14 | **8,147** |
| **PPR.TRC9063** | 90-63-90 | 1 | 6 | **10,138** |
| **PPR.TRC9075** | 90-75-90 | 1 | 6 | **11,163** |
| **PPR.TRC11063** | 110-63-110 | 1 | 4 | **18,822** |
| **PPR.TRC11075** | 110-75-110 | 1 | 4 | **19,847** |
| **PPR.TRC11090** | 110-90-110 | 1 | 4 | **20,872** |
| **PPR.TRL2520** | 25-20-20 | 10 | 200 | **0,509** |
| **PPR.TRL2025** | 25-25-20 | 10 | 200 | **0,470** |
| **PPR.TRL3220** | 32-20-20 | 10 | 180 | **0,948** |
| **PPR.TRL3225** | 32-25-25 | 10 | 120 | **0,948** |
| **PPR.TDR322025** | 32-20-25 | 10 | 120 | **0,722** |
| **PPR.TDR322520** | 32-25-20 | 10 | 150 | **0,722** |

## CAP



TAPÓN
BOUCHON
TAMPÃO

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.TAP16** ▲ | 16 | 20 | 1.000 | **0,169** |
| **PPR.TAP20** | 20 | 20 | 1.000 | **0,160** |
| **PPR.TAP25** | 25 | 20 | 600 | **0,225** |
| **PPR.TAP32** | 32 | 20 | 300 | **0,345** |
| **PPR.TAP40** | 40 | 20 | 200 | **0,695** |
| **PPR.TAP50** | 50 | 8 | 112 | **0,977** |
| **PPR.TAP63** | 63 | 8 | 64 | **1,697** |
| **PPR.TAP75** | 75 | 2 | 40 | **3,136** |
| **PPR.TAP90** | 90 | 2 | 28 | **5,921** |
| **PPR.TAP110** | 110 | 2 | 12 | **7,663** |
| **PPR.TAP125** | 125 | 1 | 16 | **11,463** |
| **PPR.TAP160** | 160 | 1 | 6 | **18,459** |

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

▲ Delivery time on request

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## REDUCER

MANGUITO REDUCCIÓN
MANCHON RÉDUIT
REDUÇÃO



| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.MRD2016** | 20-16 | 10 | 72 | **0,240** |
| **PPR.MRD2520** | 25-20 | 10 | 720 | **0,180** |
| **PPR.MRD3220** | 32-20 | 10 | 480 | **0,273** |
| **PPR.MRD3225** | 32-25 | 10 | 400 | **0,277** |
| **PPR.MRD4020** | 40-20 | 10 | 300 | **0,364** |
| **PPR.MRD4025** | 40-25 | 10 | 300 | **0,428** |
| **PPR.MRD4032** | 40-32 | 10 | 250 | **0,528** |
| **PPR.MRD5020** | 50-20 | 10 | 200 | **0,536** |
| **PPR.MRD5025** | 50-25 | 10 | 200 | **0,685** |
| **PPR.MRD5032** | 50-32 | 10 | 160 | **0,753** |
| **PPR.MRD5040** | 50-40 | 10 | 150 | **0,841** |
| **PPR.MRD6320** | 63-20 | 10 | 150 | **1,369** |
| **PPR.MRD6325** | 63-25 | 10 | 150 | **1,155** |
| **PPR.MRD6332** | 63-32 | 8 | 96 | **1,220** |
| **PPR.MRD6340** | 63-40 | 8 | 80 | **1,220** |
| **PPR.MRD6350** | 63-50 | 8 | 64 | **1,363** |
| **PPR.MRD7550** ● | 75-50 | 10 | 40 | **2,105** |
| **PPR.MRD7563** | 75-63 | 4 | 48 | **3,552** |
| **PPR.MRD9063** | 90-63 | 2 | 36 | **3,860** |
| **PPR.MRD9075** | 90-75 | 4 | 24 | **4,551** |
| **PPR.MRD1163** | 110-63 | 2 | 18 | **6,227** |
| **PPR.MRD1175** | 110-75 | 2 | 18 | **7,162** |
| **PPR.MRD1190** | 110-90 | 2 | 18 | **7,460** |
| **PPR.MRD1211** ● | 125-110 | 1 | 4 | **18,846** |
| **PPR.MRD1611** | 160-110 | 1 | 4 | **14,771** |
| **PPR.MRD1612** | 160-125 | 1 | 4 | **14,980** |

## PLUG WITH THREAD

TAPÓN CON ROSCA
BOUCHON À VIS
TAMPÃO COM ROSCA



| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.TAPR20** | 20 | 20 | 1.000 | **0,191** |
| **PPR.TAPR25** | 25 | 20 | 800 | **0,191** |

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

● Material not VASEN.

## SADDLE



INJERTO
SELLE
DERIVAÇÃO SIMPLES

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.INJ5025** | 50-25 | 1 | 480 | **0,578** |
| **PPR.INJ6325** | 63-25 | 1 | 480 | **0,578** |
| **PPR.INJ7525** | 75-25 | 1 | 480 | **0,848** |
| **PPR.INJ9025** | 90-25 | 1 | 400 | **0,896** |
| **PPR.INJ9032** | 90-32 | 1 | 240 | **1,194** |
| **PPR.INJ11025** | 110-25 | 1 | 400 | **1,032** |
| **PPR.INJ11032** | 110-32 | 1 | 240 | **1,350** |

## PPR REPAIR PARTS



PIEZAS REPARACIÓN PPR
PIÈCES DE RÉPARATION PPR
TACO DE REPARAÇÃO

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.REP711** | 7/11 | 10 | 500 | **0,561** |

## STUB END



VALONA
COLLIER DE BRIDE
COLARINHO

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.VAL40** | 40 | 16 | 128 | **0,848** |
| **PPR.VAL50** | 50 | 10 | 100 | **1,119** |
| **PPR.VAL63** | 63 | 8 | 64 | **1,504** |
| **PPR.VAL75** | 75 | 4 | 40 | **3,007** |
| **PPR.VAL90** | 90 | 4 | 24 | **4,396** |
| **PPR.VAL110** | 110 | 2 | 20 | **6,978** |
| **PPR.VAL125*** | 125 | 1 | 1 | **34,091** |
| **PPR.VAL160*** | 160 | 1 | 1 | **51,462** |

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

* TOPE / BUTT FUSION / BOUT A BOUT / TOPO

VASEN

## FLANGE

BRIDA ACERO
BRIDE
FLANGE

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.BA40** ● | 40 | 1 | 1 | **9,083** |
| **PPR.BA50** ● | 50 | 1 | 1 | **11,251** |
| **PPR.BA63** ● | 63 | 1 | 1 | **14,538** |
| **PPR.BA75** ● | 75 | 1 | 1 | **17,385** |
| **PPR.BA90** ● | 90 | 1 | 1 | **18,639** |
| **PPR.BA110** ● | 110 | 1 | 1 | **21,620** |



## FEMALE THREADED TEE

TE ROSCA HEMBRA
TÉ FILETÉ FEMELLE
TÊ ROSCA FÊMEA

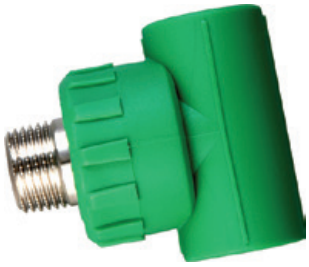
| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.TRH2012** | 20 1/2" | 10 | 100 | **1,652** |
| **PPR.TRH2034** | 20 3/4" | 10 | 80 | **2,468** |
| **PPR.TRH2512** | 25 1/2" | 10 | 70 | **1,780** |
| **PPR.TRH2534** | 25 3/4" | 10 | 60 | **2,478** |
| **PPR.TRH3234** | 32 3/4" | 8 | 40 | **3,543** |
| **PPR.TRH321** | 32 1" | 8 | 32 | **4,740** |
| **PPR.TRH401** | 40 1" | 5 | 20 | **11,067** |
| **PPR.TRH40114** ● | 40 1.1/4" | 5 | 20 | **11,288** |



## MALE THREADED TEE

TE ROSCA MACHO
TÉ FILETÉ MÂLE
TÊ ROSCA MACHO

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.TRM2012** | 20 1/2" | 10 | 100 | **1,899** |
| **PPR.TRM2034** | 20 3/4" | 10 | 60 | **2,917** |
| **PPR.TRM2512** | 25 1/2" | 10 | 80 | **2,551** |
| **PPR.TRM2534** | 25 3/4" | 10 | 60 | **2,918** |
| **PPR.TRM321** | 32 1" | 8 | 24 | **5,702** |



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

● Material not VASEN.

## FEMALE THREADED ELBOW



CODO ROSCA HEMBRA
COUDE FILETÉ FEMELLE
JOELHO ROSCA FÊMEA

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.CRH2012** | 20 1/2" | 10 | 100 | **1,633** |
| **PPR.CRH2034** | 20 3/4" | 10 | 100 | **2,322** |
| **PPR.CRH2512** | 25 1/2" | 10 | 100 | **1,743** |
| **PPR.CRH2534** | 25 3/4" | 10 | 80 | **2,398** |
| **PPR.CRH3234** | 32 3/4" | 5 | 60 | **3,210** |
| **PPR.CRH321** | 32 1" | 5 | 40 | **4,863** |
| **PPR.CRH40114** ● | 40 1.1/4" | 8 | 16 | **11,055** |

## MALE THREADED ELBOW



CODO ROSCA MACHO
COUDE FILETÉ MÂLE
JOELHO ROSCA MACHO

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.CRM2012** | 20 1/2" | 10 | 100 | **2,066** |
| **PPR.CRM2034** | 20 3/4" | 10 | 100 | **2,673** |
| **PPR.CRM2512** | 25 1/2" | 10 | 100 | **2,412** |
| **PPR.CRM2534** | 25 3/4" | 10 | 80 | **2,741** |
| **PPR.CRM3234** | 32 3/4" | 10 | 60 | **3,872** |
| **PPR.CRM321** | 32 1" | 10 | 30 | **5,812** |

## PLATE ELBOW



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

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.CP2012** | 20 1/2" | 10 | 100 | **1,611** |
| **PPR.CP2512** | 25 1/2" | 5 | 40 | **1,862** |
| **PPR.CP2534** | 25 3/4" | 5 | 50 | **2,751** |

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

● Material not VASEN.

VASEN

## FEMALE THREADED TRANSITION

MANGUITO ROSCA HEMBRA
RACCORD D'ADAPTATION FEMELLE
UNIÃO ROSCA FÊMEA



| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.MRH2012** | 20 1/2" | 10 | 100 | **1,469** |
| **PPR.MRH2034** | 20 3/4" | 10 | 100 | **2,335** |
| **PPR.MRH2512** | 25 1/2" | 10 | 100 | **1,611** |
| **PPR.MRH2534** | 25 3/4" | 10 | 80 | **2,275** |
| **PPR.MRH3234** | 32 3/4" | 10 | 80 | **2,991** |
| **PPR.MRH321** | 32 1" | 10 | 40 | **4,433** |
| **PPR.MRH40114** | 40 1.1/4" | 4 | 24 | **7,877** |
| **PPR.MRH50112** | 50 1.1/2" | 4 | 24 | **9,893** |
| **PPR.MRH632** | 63 2" | 2 | 8 | **14,875** |
| **PPR.MRH75212** | 75 2.1/2" | 2 | 6 | **32,696** |
| **PPR.MRH903** ● | 90 3" | 2 | 8 | **70,132** |
| **PPR.MRH110** ● | 110 4" | 1 | 3 | **94,469** |

## 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 | €/Uni. |
|---|---|---|---|---|
| **PPR.EDRH2012** | 20 1/2" | 10 | 80 | **3,946** |
| **PPR.EDRH2534** | 25 3/4" | 10 | 60 | **5,225** |
| **PPR.EDRH321** | 32 1" | 6 | 48 | **6,772** |
| **PPR.EDRH40114** | 40 1.1/4" | 6 | 30 | **12,555** |
| **PPR.EDRH50112** | 50 1.1/2" | 6 | 24 | **15,498** |
| **PPR.EDRH632** | 63 2" | 4 | 16 | **34,345** |

## 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 | €/Uni. |
|---|---|---|---|---|
| **PPR.EDRM2012** | 20 1/2" | 10 | 80 | **3,887** |
| **PPR.EDRM2534** | 25 3/4" | 10 | 60 | **5,481** |
| **PPR.EDRM321** | 32 1" | 6 | 48 | **7,936** |
| **PPR.EDRM40114** | 40 1.1/4" | 6 | 24 | **12,628** |
| **PPR.EDRM50112** | 50 1.1/2" | 6 | 24 | **19,029** |
| **PPR.EDRM632** | 63 2" | 4 | 16 | **40,147** |

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

● Material not VASEN.

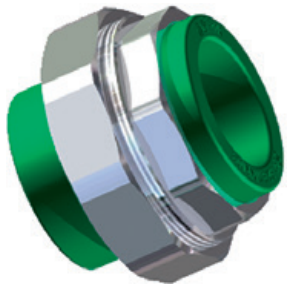
## TRANSITION MALE THREADED



ENTRONQUE ROSCA MACHO
RACCORD D'ADAPTATION MÂLE
UNIÃO ROSCA MACHO

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.ERM1612** | 16 1/2" | 10 | 120 | **2,333** |
| **PPR.ERM2012** | 20 1/2" | 10 | 120 | **1,637** |
| **PPR.ERM2034** | 20 3/4" | 10 | 80 | **2,645** |
| **PPR.ERM2512** | 25 1/2" | 10 | 100 | **1,830** |
| **PPR.ERM2534** | 25 3/4" | 10 | 80 | **2,618** |
| **PPR.ERM3234** | 32 3/4" | 10 | 80 | **3,173** |
| **PPR.ERM321** | 32 1" | 10 | 40 | **5,916** |
| **PPR.ERM40114** | 40 1.1/4" | 4 | 24 | **10,383** |
| **PPR.ERM50112** | 50 1.1/2" | 4 | 16 | **12,947** |
| **PPR.ERM632** | 63 2" | 2 | 8 | **21,316** |
| **PPR.ERM75212** | 75 2.1/2" | 2 | 6 | **41,131** |
| **PPR.ERM903** | 90 3" | 2 | 8 | **68,488** |
| **PPR.ERM110** ● | 110 4" | 1 | 3 | **132,644** |

## NUT ADAPTER



ENLACE DESMONTABLE SOLDAR-SOLDAR
RACCORD DROIT AVEC ECROU FEMELLE
UNIÃO ROSCA LOUCA

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.EDSS20** | 20 | 5 | 60 | **4,455** |
| **PPR.EDSS25** | 25 | 5 | 60 | **6,267** |
| **PPR.EDSS32** | 32 | 5 | 60 | **9,514** |
| **PPR.EDSS40** | 40 | 2 | 24 | **18,524** |
| **PPR.EDSS50** | 50 | 2 | 24 | **25,151** |
| **PPR.EDSS63** | 63 | 2 | 16 | **39,795** |

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



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

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.ETL2012** | 20 1/2" | 30 | 150 | **3,374** |
| **PPR.ETL2034** | 20 3/4" | 25 | 150 | **4,458** |
| **PPR.ETL2534** | 25 3/4" | 20 | 60 | **4,990** |
| **PPR.ETL251** | 25 1" | 20 | 60 | **8,059** |
| **PPR.ETL321** | 32 1" | 10 | 60 | **9,130** |
| **PPR.ETL32114** ● | 32 1.1/4" | 10 | 50 | **12,589** |

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

● Material not VASEN.

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## INTEGRATED FEMALE THREAD TEE

COLECTOR DE CONEXIÓN
FEMELLE INTÉGRÉ FILET TÉ
COLETOR

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.COLC20** | 20 1/2" | 5 | 30 | **4,008** |
| **PPR.COLC25** | 25 1/2" | 5 | 20 | **5,099** |



## FEMALE CROSS PIPE

SALVATUBOS HEMBRA
RACCORD DE CROISEMENT FEMELLE
SALVATUBOS FÊMEA

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.ST20** | 20 | 10 | 200 | **0,745** |
| **PPR.ST25** | 25 | 10 | 120 | **1,013** |
| **PPR.ST32** | 32 | 10 | 60 | **2,044** |



## MALE CROSS PIPE

SALVATUBOS MACHO
RACCORD DE CROISEMENT FEMELLE
SALVATUBOS MACHO

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.STC20** | 20 | 10 | 130 | **0,852** |
| **PPR.STC25** | 25 | 10 | 100 | **1,182** |
| **PPR.STC32** | 32 | 6 | 54 | **2,076** |
| **PPR.STC40** | 40 | 5 | 25 | **3,607** |



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

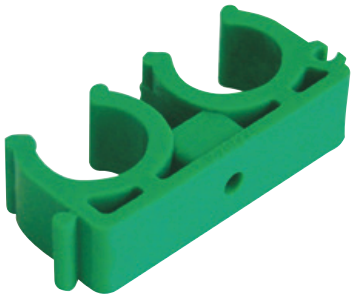
## SINGLE CLAMP



ABRAZADERA SIMPLE
CLAMP SIMPLE
ABRAÇADEIRA SIMPLES

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.AS20** | 20 | 20 | 1.600 | **0,116** |
| **PPR.AS25** | 25 | 20 | 1.440 | **0,139** |
| **PPR.AS32** | 32 | 20 | 960 | **0,183** |
| **PPR.AS40** ● | 40 | 100 | 500 | **0,285** |

## DOUBLE CLAMP



ABRAZADERA DOBLE
CLAMP DOUBLE
ABRAÇADEIRA DUPLA

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.AD20** ● | 20 | 100 | 500 | **0,163** |
| **PPR.AD25** ● | 25 | 50 | 500 | **0,237** |
| **PPR.AD32** ● | 32 | 50 | 500 | **0,338** |

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

● Material not VASEN.

## BALL VALVE

VÁLVULA DE BOLA
ROBINET D'ARRET
VÁLVUKA DE ESFERA

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.VB20** ● | 20 | 10 | 40 | **4,158** |
| **PPR.VB25** ● | 25 | 10 | 35 | **6,114** |
| **PPR.VB32** ● | 32 | 5 | 20 | **10,113** |
| **PPR.VB40** ● | 40 | 5 | 15 | **19,539** |
| **PPR.VB50** ● | 50 | 1 | 8 | **26,315** |
| **PPR.VB63** ● | 63 | 1 | 5 | **41,012** |
| **PPR.VB75** ● | 75 | 1 | 5 | **60,030** |



## 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 | €/Uni. |
|---|---|---|---|---|
| **PPR.VV20** | 20 | 1 | 35 | **5,207** |
| **PPR.VV25** | 25 | 1 | 25 | **8,096** |
| **PPR.VV32** | 32 | 1 | 15 | **11,322** |
| **PPR.VV40** | 40 | 1 | 10 | **15,927** |



## DEMOUNTABLE BALL VALVE

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

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.VBD20** | 20 | 1 | 25 | **10,539** |
| **PPR.VBD25** | 25 | 1 | 20 | **15,038** |
| **PPR.VBD32** | 32 | 1 | 12 | **22,883** |
| **PPR.VBD40** | 40 | 1 | 6 | **46,968** |
| **PPR.VBD50** | 50 | 1 | 3 | **69,490** |
| **PPR.VBD63** | 63 | 1 | 2 | **115,204** |



## CHROME CUTTING VALVE

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

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.VCR20** | 20 | 1 | 20 | **17,726** |
| **PPR.VCR25** | 25 | 1 | 20 | **19,698** |
| **PPR.VCR32** | 32 | 1 | 15 | **28,609** |



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

● Material not VASEN.

## CONCEALED VALVE



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

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.VE20** | 20 | 1 | 30 | **16,352** |
| **PPR.VE25** | 25 | 1 | 25 | **17,559** |
| **PPR.VE32** | 32 | 1 | 20 | **23,417** |

## CONCEALED VALVE BODY



CUERPO LLAVE
CORPS DE ROBINET
CAIXA DE PASSADOR

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.VECU20** | 20 1/2" | 10 | 100 | **6,921** |
| **PPR.VECU25** | 25 3/4" | 10 | 100 | **7,620** |
| **PPR.VECU32** | 32 3/4" | 5 | 50 | **13,515** |

## VALVE CORE PART



MOLDURA LLAVE
PARTIE CENTRALE DE LA RONBINET
CASTELO DE VÁLVULA DE CORTE

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.VEMOL20** | 20 1/2" | 1 | 100 | **3,991** |
| **PPR.VEMOL2532** | 25 - 32 3/4" | 1 | 100 | **4,740** |

## VALVE CHROMED UPPER PART



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

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.VEEMB202532** | 20 - 25 - 32 | 1 | 50 | **6,194** |

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

VASEN

## ELECTROFUSION COUPLER

MANGUITO ELECTROSOLDABLE
MANCHON D'ÉLECTROFUSION
UNIÃO ELECTROSSOLDÁVEL

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.EFM63** | 63 | 1 | 25 | **9,561** |
| **PPR.EFM75** | 75 | 1 | 20 | **13,605** |
| **PPR.EFM90** | 90 | 1 | 10 | **17,690** |
| **PPR.EFM110** | 110 | 1 | 5 | **27,605** |
| **PPR.EFM125** | 125 | 1 | 10 | **40,242** |
| **PPR.EFM160** | 160 | 1 | 6 | **60,364** |



## ELECTROFUSION REDUCER

MANGUITO REDUCCIÓN ELECTROSOLDABLE
MANCHON REDUCTION D'ÉLECTROFUSION
REDUÇÃO ELECTROSSOLDÁVEL

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.EFMR6332** | 63-32 | 1 | 30 | **10,829** |
| **PPR.EFMR6340** | 63-40 | 1 | 30 | **11,107** |
| **PPR.EFMR6350** | 63-50 | 1 | 30 | **13,526** |
| **PPR.EFMR7563** | 75-63 | 1 | 30 | **15,272** |
| **PPR.EFMR9063** | 90-63 | 1 | 10 | **16,778** |
| **PPR.EFMR11063** | 110-63 | 1 | 6 | **31,016** |
| **PPR.EFMR11075** | 110-75 | 1 | 6 | **31,254** |
| **PPR.EFMR11090** | 110-90 | 1 | 6 | **32,523** |
| **PPR.EFMR12590** | 125-90 | 1 | 10 | **44,738** |
| **PPR.EFMR125110** | 125-110 | 1 | 10 | **48,624** |
| **PPR.EFMR16090** | 160-90 | 1 | 6 | **53,843** |
| **PPR.EFMR160110** | 160-110 | 1 | 6 | **55,643** |
| **PPR.EFMR160125** | 160-125 | 1 | 6 | **58,025** |



## ELECTROFUSION ELBOW 90°

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

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.EFC9063** | 63 | 1 | 10 | **18,325** |
| **PPR.EFC9075** | 75 | 1 | 10 | **23,005** |
| **PPR.EFC9090** | 90 | 1 | 5 | **27,486** |
| **PPR.EFC90110** | 110 | 1 | 8 | **45,768** |
| **PPR.EFC90125** | 125 | 1 | 6 | **74,482** |
| **PPR.EFC90160** | 160 | 1 | 4 | **84,317** |



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

## ELECTROFUSION ELBOW 45°



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

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.EFC4563** | 63 | 1 | 18 | **17,532** |
| **PPR.EFC4575** | 75 | 1 | 10 | **27,684** |
| **PPR.EFC4590** | 90 | 1 | 6 | **29,588** |
| **PPR.EFC45110** | 110 | 1 | 10 | **41,763** |
| **PPR.EFC45125** | 125 | 1 | 6 | **72,459** |
| **PPR.EFC45160** | 160 | 1 | 4 | **82,334** |

## ELECTROFUSION TEE



TE ELECTROSOLDABLE
TÉ D'ÉLECTROFUSION
TÊ ELECTROSSOLDÁVEL

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.EFT63** | 63 | 1 | 10 | **19,237** |
| **PPR.EFT75** | 75 | 1 | 7 | **31,134** |
| **PPR.EFT90** | 90 | 1 | 10 | **33,673** |
| **PPR.EFT110** | 110 | 1 | 8 | **45,055** |
| **PPR.EFT125** | 125 | 1 | 5 | **79,122** |
| **PPR.EFT160** | 160 | 1 | 2 | **88,877** |

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

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## 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

| Reference | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.C90200** ▲ | 200 | 1 | 1 | **166,310** |
| **PPR.C90250** ▲ | 250 | 1 | 1 | **289,866** |
| **PPR.C90315** ▲ | 315 | 1 | 1 | **433,588** |



## 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 | €/Uni. |
|---|---|---|---|---|
| **PPR.C45200** ▲ | 200 | 1 | 1 | **117,781** |
| **PPR.C45250** ▲ | 250 | 1 | 1 | **200,354** |
| **PPR.C45315** ▲ | 315 | 1 | 1 | **394,886** |



## 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 | €/Uni. |
|---|---|---|---|---|
| **PPR.T200** ▲ | 200 | 1 | 1 | **170,315** |
| **PPR.T250** ▲ | 250 | 1 | 1 | **266,906** |
| **PPR.T315** ▲ | 315 | 1 | 1 | **457,712** |



## 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 | €/Uni. |
|---|---|---|---|---|
| **PPR.TAP200** ▲ | 200 | 1 | 1 | **93,051** |
| **PPR.TAP250** ▲ | 250 | 1 | 1 | **136,084** |
| **PPR.TAP315** ▲ | 315 | 1 | 1 | **173,435** |



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

▲ Delivery time on request

## 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

| Reference | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.VAL200** ▲ | 200 | 1 | 1 | **89,232** |
| **PPR.VAL250** ▲ | 250 | 1 | 1 | **112,984** |
| **PPR.VAL315** ▲ | 315 | 1 | 1 | **269,095** |

## BUTT FUSION REDUCER SDR 11



REDUCCIÓN A TOPE SDR 11
REDUTION SDR 11 BOUT A BOUT
REDUÇÃO TOPO A TOPO SDR 11

| Ref. | DN | U/B | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.MRD200160** ▲ | 200-160 | 1 | 1 | **60,218** |
| **PPR.MRD250160** ▲ | 250-160 | 1 | 1 | **119,365** |
| **PPR.MRD250200** ▲ | 250-200 | 1 | 1 | **127,655** |
| **PPR.MRD3120** ▲ | 315-200 | 1 | 1 | **259,966** |
| **PPR.MRD3125** ▲ | 315-250 | 1 | 1 | **283,253** |

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

▲ Delivery time on request.

## ELECTROFUSION MACHINE

MÁQUINA DE SOLDAR ELECTROFUSION
MACHINE D'ÉLECTROFUSION
MÁQUINA DE ELECTROSSOLDADURA

| Ref. | Type | Range | U/C | €/Uni. |
|---|---|---|---|---|
| **SPE 16** ● | With scanner 20-160 mm | Ø20-Ø160 | 1 | **2.000,000** |




## WELDING MACHINE

MÁQUINA DE SOLDAR
MACHINE DE SOUDAGE
POLIFUSORA

| Ref. | Matrices | Gama | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.THJ63** | 20, 25, 32, 40, 50, 63 mm | Ø16-Ø63 | 1 | **199,875** |



## WELDING MACHINE

MÁQUINA DE SOLDAR
MACHINE DE SOUDAGE
POLIFUSORA

| Ref. | Matrices | Gama | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.THJ110** | 75, 90, 110 mm | Ø20-Ø110 | 1 | **215,250** |



## WELDING MACHINE

MÁQUINA DE SOLDAR
MACHINE DE SOUDAGE
POLIFUSORA

| Ref. | Matrices | Gama | U/C | €/Uni. |
|---|---|---|---|---|
| **PPR.THJ160** | Not included | Ø20-Ø160 | 1 | **240,875** |



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

● Material not VASEN.

## WELDING TOOL



MATRIZ DE SOLDADURA
OUTIL DE SOUDAGE
MATRIZ DE SOLDADURA

| Ref. | DN (mm) | U/B | €/Uni. |
|---|---|---|---|
| **PPR.MS16** | 16 | 1 | **5,489** |
| **PPR.MS20** | 20 | 1 | **5,489** |
| **PPR.MS25** | 25 | 1 | **6,116** |
| **PPR.MS32** | 32 | 1 | **9,096** |
| **PPR.MS40** | 40 | 1 | **11,501** |
| **PPR.MS50** | 50 | 1 | **14,951** |
| **PPR.MS63** | 63 | 1 | **20,492** |
| **PPR.MS75** | 75 | 1 | **28,647** |
| **PPR.MS90** | 90 | 1 | **41,611** |
| **PPR.MS110** | 110 | 1 | **56,771** |
| **PPR.MS125** | 125 | 1 | **68,971** |
| **PPR.MS160** ▲ | 160 | 1 | **117,540** |

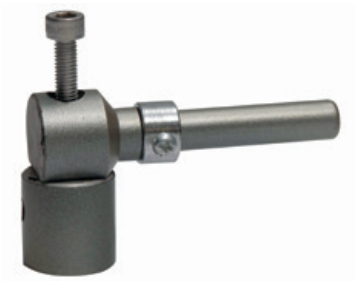
## SADDLE WELDING TOOL



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

| Ref. | DN (mm) | U/B | €/Uni. |
|---|---|---|---|
| **PPR.MSI5025** | 50-25 | 1 | **37,000** |
| **PPR.MSI6325** | 63-25 | 1 | **37,000** |
| **PPR.MSI7525** | 75-25 | 1 | **40,089** |
| **PPR.MSI9025** | 90-25 | 1 | **40,089** |
| **PPR.MSI9032** | 90-32 | 1 | **55,478** |
| **PPR.MSI11025** | 110-25 | 1 | **40,089** |
| **PPR.MSI11032** | 110-32 | 1 | **58,572** |

## REPAIR TOOL



MATRIZ DE REPARACIÓN
OUTIL DE RÉPARATION
MATRIZ DE REPARAÇÃO

| Ref. | DN (mm) | U/B | €/Uni. |
|---|---|---|---|
| **PPR.MSR7** | 7 | 1 | **28,751** |
| **PPR.MSR11** | 11 | 1 | **28,751** |

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

▲ Delivery time on request.

## SADDLE DREALING

TALADRO INJERTO
DRILL DE SELLE
BROCA DE DERIVAÇÃO

| Ref. | DN (mm) | U/B | €/Uni. |
|---|---|---|---|
| **PPR.TALI25** | 25 | 1 | **16,384** |
| **PPR.TALI32** | 32 | 1 | **34,067** |



## CUTTER

TIJERAS CORTATUBOS
CISEAUX
TESOURA

| Ref. | DN (mm) | U/B | €/Uni. |
|---|---|---|---|
| **PPR.TIS** | 16-40 | 1 | **28,178** |



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

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# CERTIFICATES

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

# 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 f 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.

VASEN

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LIFESPAN OF
50 YEARS

## Notes

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LIFESPAN OF
50 YEARS

## Notes

VASEN

EUROPE

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PRICE LIST **2020**