MMP

Meti

EN ISO9001:2008

PRODUCT CATALOGUE

# High Pressure PVC Fittings

# For Use with UPVC Pipes



**PREFERRED SOLVENT CEMENT**

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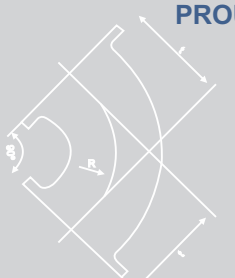



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# General Properties

## APPLICATIONS

### 1. USE

Meti High Pressure fittings can be used in a wide variety of applications such as irrigation, water treatment, water supply, chemical dosing and distribution, swimming pool construction, the food industry and industrial applications.

The Meti High Pressure fitting system is manufactured to DIN 8063 specifications and is used in conjunction with UPVC pipe manufactured to metric sizes in accordance with DIN 8062.

### 2. MATERIALS

uPVC material used is fit with alimentary fluids in accordance with regulations in USA, Italy, France, Germany, Holland, UK, Scandinavian countries and Arab countries.

Meti uPVC (Unplastisized polyvinyl chloride) fittings are manufactured using compound with high quality stabilizers (tin) which is specific to high pressure fitting production.

### 3. RANGE

A wide range of fittings are available for solvent jointing in metric sizes (16 to 400mm) and BSP threaded fittings (3/8" (10mm) to 4" (100mm)

A range of adaptor fittings are available to join pipe using the solvent cement system to, valves and other accessories with BSP threads.

### 4. STANDARDS

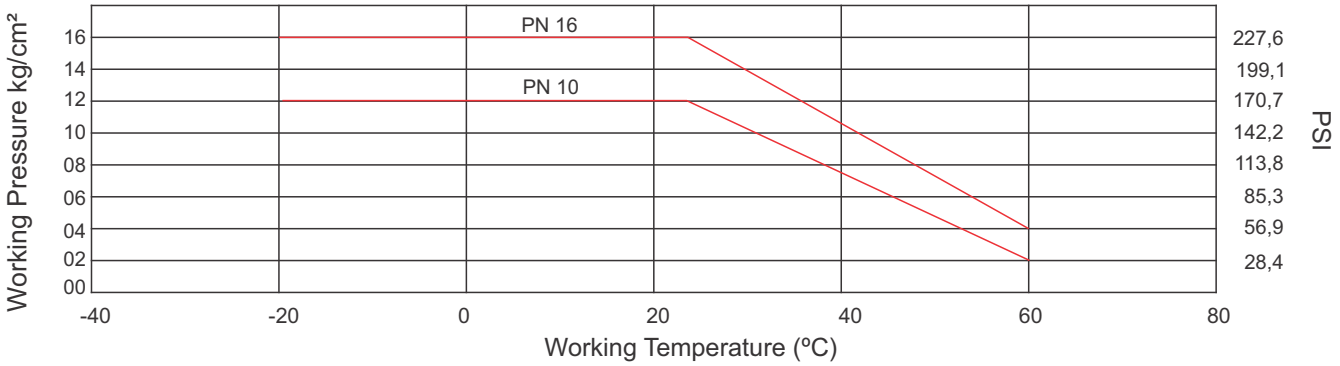
All Meti fittings are manufactured to the following International Standards:

DIN 8063
UNI 7442/75, KIWI 54, NFT 54/028
BS 4346/1
BS21

### 5. PRESSURE TEMPERATURE RELATIONSHIP

The maximum working pressure decrease in a linear fashion down to 4kg/cm² (227,6 PSI) from 20ºC to +25ºC

**Pressure - Temperature Relationship According to DIN 3441 BLATT 1 and UNI 7442-75**




### 6 MECHANICAL PROPERTIES

Max working pressure in Kg / cm2

| SERIES | DIMENSIONS | PN |
|---|---|---|
| Solvent jointing | from D 16 to D 160 | 16 |
| Threaded | from D 3/8 to G 4 " | up to 16 |
| Adaptor Set | from D 16 to 110 | up to 16 |

SAFETY FACTORS AT 200ºC

| NP | HOURS 1 | HOURS 1000 | Corresponding to 50 years life |
|---|---|---|---|
| 10 Bar | 6,7 | 5,1 | 4,0 |
| 16 Bar | 4,2 | 3,2 | 2,5 |

### 7. ABBREVIATIONS

D - Connecting size for plastic piping corresponding to external diameter of pipe and internal diameter of female fittings

D" - Nominal diameter for connecting B.S. (Imperial) piping (inches)

DN- Nominal diameter for metal pipes corresponding approximately to internal diameter

G - Nominal diameter for threaded pipes and fittings (inches)

8. PHYSICAL PROPERTIES OF UPVC

| CHARACTERISTICS | METHOD | UNITS | PVC |
|---|---|---|---|
| Density | DIN 53479 | g/cm² | 1,40 |
| Elongation | ISO R527 | % | 125 |
| Modulus to traction | ISO R527 | Kg/cm² | 30,000 * |
| Resistance to traction | ISO R527 | N/mm² | 55 * |
| Tensile Strength | ISO R527 | Kg/cm² | 520 |
| ZOD Impact strength at 23ºC | ASTMD256 | Kg | 3,5 ÷4,5 |
| Vicat sofening point with 5 kgs | ISO R306 | ºC | 76 |
| Thermal conductivity | ASTM C177 | $\frac{KcaL}{mh°c}$ | 0,15 |
| Coefficient of linear expansion | ASTM D696 | ASTM D696 | 8 x 10 |
| Water absorption | ISO R527 | ISO R527 | < 4 |
| Flammability | | | self extinguishing M1 |

* Reduced working pressure

## PVC FITTINGS IN METRIC SIZES

1. METRIC SERIES
   Can be solvent cemented to each other and to pipes in the same material type and size provided that the tolerances are in accordance with the standards on page 3.

   A strong, dense type of solvent cement recommended especially for large diameter fittings where the clearance may be tight due to the ovaling effect. Such tolerances anyhow, in order to guarantee a perfect seal should never exceed 0.6 mm using dense-type solvent cement and 0.3mm with a fluid-type solvent cement.

   In order to obtain a perfect joint, it is recommended that the manufacturer's instruction are strictly followed.

Suggested method of jointing using solvent cement.

a. Cut the pipe square and chamfer the ends at 45º. Remove all traces of grease, oil and dirt. Clean both pipe and fittings using a clean cloth and diluents (methyl ethyl ketone)

b. Mark the depth of entry on the pipe and using a suitable sized brush apply solvent cement to both the fitting and the pipe

c. Immediately insert the pipe into the fitting and hold securely for a minute to allow etching to occur

d. Clean away any excess solvent cement from the newly jointed fitting and pipe surfaces

e. It is recommended that the newly jointed fittings are not subjected to any internal pressure or movement for at least 24 hours to allow curing of the joint to take place

## THREADED SERIES

Fittings in rigid PVC of the threaded series or of the adaptor series can be screwed to each other or to pipes and other threaded parts.

In order to obtain easy screwing and perfect seal, the use of high quality PTFE tape is recommended.

The use of hemp, tow and lint, usually employed for metal fittings, is to be absolutely avoided. Such materials, contrary to what happens with PTFE, are not rejected by coupling even when used in excess, cause female fitting to expand in such a way as to cause breakage both during the assembly and later during operation.

## Dimensions Data

### Tolerance for Solvent Weld Jointing according to:

**Fittings - ISO 727/- UNI 7442 - DIN 8063 - KIWA 54 NF T54-028**

**Pipes - ISO 161 UNI 7441/75 - DIN 8062 - KIWI 49 NF T54-016**

| NOMINAL DIAMETER DN | D | Mean outside diameter of pipes | | Mean inside diameter of fittings | |
|---|---|---|---|---|---|
| | | Min. | Max. | Min. | Max. |
| 10 | 16 | 16 | 16,20 | 16,10 | 16,30 |
| 15 | 20 | 20 | 20,20 | 20,10 | 20,30 |
| 20 | 25 | 25 | 25,20 | 25,10 | 25,30 |
| 25 | 32 | 32 | 32,20 | 32,10 | 32,30 |
| 32 | 40 | 40 | 40,20 | 40,10 | 40,30 |
| 40 | 50 | 50 | 50,20 | 50,10 | 50,30 |
| 50 | 63 | 63 | 63,20 | 63,10 | 63,30 |
| 65 | 75 | 75 | 75,30 | 75,10 | 75,30 |
| 80 | 90 | 90 | 90,30 | 90,10 | 90,30 |
| 100 | 110 | 110 | 110,30 | 110,10 | 110,40 |
| 110 | 125 | 125 | 125,30 | 125,10 | 125,40 |
| 125 | 140 | 140 | 140,40 | 140,20 | 140,50 |
| 150 | 160 | 160 | 160,40 | 160,20 | 160,50 |
| 175 | 200 | 200 | 200,50 | 200,30 | 200,60 |
| 200 | 225 | 225 | 225,50 | 225,30 | 225,60 |
| 225 | 250 | 250 | 250,50 | 250,30 | 250,60 |

## Threaded dimensions according to:

- **ISO 7/1 UNI 338 - DIN 2999**

| Diameter nominal G | Diameter of Screw | PITCH | | Depth of thread | Length of thread assembling |
|---|---|---|---|---|---|
| | | N°of threads/1" | mm | | |
| | 16,66 | 19 | 1,337 | 0,856 | 11,4 |
| ½" | 20,95 | 14 | 1,814 | 1,162 | 15,0 |
| ¾" | 26,44 | 14 | 1,814 | 1,162 | 16,3 |
| 1" | 33,25 | 11 | 2,309 | 1,479 | 19,1 |
| 1¼" | 41,91 | 11 | 2,309 | 1,479 | 21,4 |
| 1½" | 47,80 | 11 | 2,309 | 1,479 | 21,4 |
| 2" | 59,61 | 11 | 2,309 | 1,479 | 25,7 |
| 2¼" | 65,71 | 11 | 2,309 | 1,479 | - |
| 2½" | 75,18 | 11 | 2,309 | 1,479 | 30,2 |
| 2¾" | 81,53 | 11 | 2,309 | 1,479 | - |
| 3" | 87,88 | 11 | 2,309 | 1,479 | 33,3 |
| 4" | 113,03 | 11 | 2,309 | 1,479 | 39,2 |
| 5" | 138,43 | 11 | 2,309 | 1,479 | 43,6 |
| 6" | 163,83 | 11 | 2,309 | 1,479 | 43,6 |
| - | - | - | - | - | - |
| - | - | - | - | - | - |

## uPVC Compound According to ISO/TR 7473 table 1

| Reactives | Concentration | Temperature | |
|---|---|---|---|
| | | 20 °C | 60 °C |
| Acetaldehyde | 40% | NS | |
| Acetaldehyde | 100% | NS | - |
| Acetic acid | Glacial | NS | NS |
| Acetic acid | 25% | S | L |
| Acetic acid | 60% | S | L |
| Acetic anhydride | 100% | NS | NS |
| Acetone | 100% | NS | NS |
| Adipic acid | Sat. sol. | S | L |
| Allyl alcohol | 96% | L | NS |
| Aluminum chloride | Sat. sol. | S | S |
| Aluminum potassium sulphate | Sat. sol. | S | S |
| Aluminum sulphate | Sat. sol. | S | S |
| Ammonia, dry gas | 100% | S | S |
| Ammonia, liquid | 100% | L | NS |
| Ammonia, aqueous | DIL.Sol. | S | L |
| Ammonium chloride | Sat. sol. | S | S |
| Ammonium fluoride | 20% | S | L |
| Ammonium nitrate | Sat. sol. | S | S |
| Ammonium sulphate | Sat. sol. | S | S |
| Amyl acetate (1-Pentanol acetate) | 100% | NS | NS |
| Amyl alcohol (1-Pentanol) | 100% | S | L |
| Aniline | 100% | NS | NS |
| Aniline | Sat. sol. | NS | NS |
| Aniline hydrochloride | Sat. sol. | NS | NS |
| Antimony (III) chloride | 90% | S | S |
| Anthraquinone sulphonic acid | DIL.Sol. | S | L |
| Arsenic acid | Sol. | S | - |
| Arsenic acid | Sat. sol. | S | L |
| Benzaldehyde | 0.10% | NS | NS |
| Benzene | 100% | NS | NS |
| Benzoic acid | Sat. sol. | L | NS |
| Borax | Sat. sol. | S | L |
| Boric acid | Dil. sol. | S | L |
| Bromic acid | 10% | S | - |
| Bromine, liquid | 100% | NS | NS |
| Butadiene | 100% | S | S |
| Butane, gas | 100% | S | - |
| Butanols | Up to 100% | S | L |
| Butyl acetate | 100% | NS | NS |
| Butyl phenol | 100% | NS | NS |
| Butyric acid | 20% | S | L |
| Butyric acid | 98% | NS | NS |
| Calcium chloride | Sat. sol. | S | S |
| Calcium nitrate | 50% | S | S |
| Carbon dioxide (aqueous solution) | Sat. sol. | L | L |
| Carbon dioxide, dry gas | 100% | S | S |
| Carbon dioxide, wet gas | - | S | S |
| Carbon disulphide | 100% | NS | NS |
| Carbon tetrachloride | 100% | NS | NS |
| Chlorine, dry gas | 100% | L | NS |
| Chlorine, aqueous | Sat. sol. | L | NS |
| Chloroacetic acid | Sol. | S | L |
| Chlorosulphonic acid | 100% | L | NS |
| Chromic acid | From 1% to 50% | S | L |
| Citric acid | Sat. sol. | S | S |
| Copper (II) Chloride | Sat. sol. | S | S |
| Copper (II) Fluoride | 2% | S | S |

## Corrosion Resistance Table

| Reactives | Concentration | Temperature | |
|---|---|---|---|
| | | 20 °C | 60 °C |
| Copper (III) sulphate | Sat. sol. | S | S |
| Cresols | Sat. sol. | - | NS |
| Cresylic acid (Methyl benzoic acid) | Sat. sol. | - | NS |
| Crotonaldehyde | 100% | NS | NS |
| Cyclohexanol | 100% | NS | NS |
| Cyclohexanone | 100% | NS | NS |
| Developers (photographic) | Work. sol. | S | S |
| Dextrin | Sat. sol. | S | L |
| Dichloroethane | 100% | NS | NS |
| Dichloromethane | 100% | NS | NS |
| Diethyl either | 100% | NS | - |
| Diglycolic acid | 18% | S | L |
| Dimenthylamine | 30% | S | - |
| Ethanediol (Ethylene-glycol) | Work. sol. | S | S |
| Ethanol | 95% | S | L |
| Ethyl acetate | 100% | NS | NS |
| Ethyl acrylate | 100% | NS | NS |
| Fluosilicic acid | 32% | S | S |
| Formaldehyde | Dil. sol. | S | L |
| Formaldehyde | 40% | S | S |
| Formic acid | From 1% to 50% | S | L |
| Furfurly alcohol | 100% | NS | NS |
| Gasoline (Aliphatic hydrocarbons) | . | S | S |
| Glucose | Sat. sol. | S | L |
| Glycerol | 100% | S | S |
| Glycolic acid | 30% | S | S |
| Hexadecanol | 100% | S | S |
| Hydrobromic acid | 10% | S | L |
| Hydrobromic acid | 50% | S | L |
| Hydrochloric acid | 20% | S | L |
| Hydrochloric acid | Greater than 30% | S | S |
| Hydrofluoric acid | 40% | L | NS |
| Hydrofluoric acid | 60% | L | NS |
| Hydrofluoric acid, gas | 100% | L | NS |
| Hydrogen | 100% | S | S |
| Hydrogen Peroxide | 30% | S | S |
| Hydrogen sulphide, gas | 100% | S | S |
| Iron (III) chloride | Sat. sol. | S | S |
| Lactic acid | 10% | S | L |
| Lactic acid | From 10% to 90% | L | NS |
| Lead acetate | Dil. sol. | S | S |
| Lead acetate | Sat. sol. | S | S |
| Lead tetraethyl | 100% | S | - |
| Magnesium chloride | Sat. sol. | S | S |
| Magnesium sulphate | Sat. sol. | S | S |
| Maleic acid | Sat. sol. | S | L |
| Methanol | 100% | S | L |
| Methyl methacrylate | 100% | NS | NS |
| Milk | - | S | S |
| Molasses | Work. sol. | S | L |
| Nickel sulphate | Sat. sol. | S | S |
| Nicotinic acid | Work. sol. | S | S |
| Nitric acid | Up to 45% | S | L |

# Corrosion Resistance Table

| Reactives | Concentration | Temperature | |
|---|---|---|---|
| | | 20 °C | 60 °C |
| Nitric acid | From 50% to 98% | NS | NS |
| Oils and fats | _ | S | S |
| Oleic acid | 100% | S | S |
| Oleum | 10% of So3 | NS | NS |
| Orthophosphoric acid, aqueous | 30% | S | L |
| Orthophosphoric acid, aqueous | Greater than 30% | S | S |
| Oxalic acid | DIL.Sol. | S | L |
| Oxalic acid | Sat. sol. | S | S |
| Oxygen | 100% | S | S |
| Ozone | 100% | S | S |
| Perchloric acid | 10% | S | L |
| Perchloric acid | 70% | L | NS |
| Petrol (Aliphatic hydrocarbons/benzene) | 80/20 | NS | NS |
| Phenol | 90% | NS | NS |
| Phenylhydrazine | 100% | NS | NS |
| Phenylhydrazine hydrochloride | 97% | NS | NS |
| Phosphine | 100% | S | S |
| Phosphorus (III) chloride | 100% | NS | - |
| Picric acid | Sat. sol. | S | S |
| Potassium bromide | Sat. sol. | S | S |
| Potassium chloride | Sat sol. | S | S |
| Potassium chromate | 40% | S | S |
| Potassium cyanide | Sol. | S | S |
| Potassium dichromate | 40% | S | S |
| Potassium hexacyanoferrate (II) | Sat. sol. | S | S |
| Potassium hexacyanoferrate (III) | Sat. sol. | S | S |
| Potassium hydroxide | Sol. | S | S |
| Potassium nitrate | Sat. sol. | S | S |
| Potassium permanganate | 20% | S | S |
| Potassium persulphate | Sat. sol. | S | L |
| Propane, liquified gas | 100% | S | - |
| Pyridine | Up to 100% | NS | " |

**KEY**

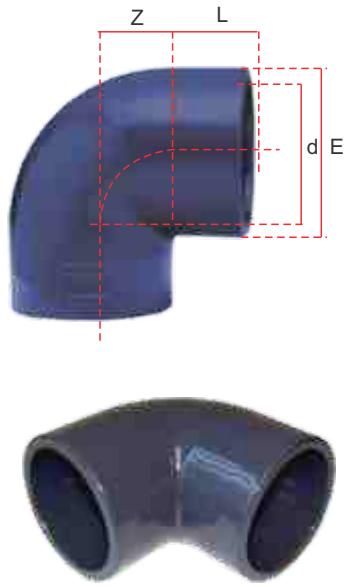
**S - Excellent resistance**

**L - Limited resistance**

**NS - No resistance**

## 90º ELBOW

| Code | d | L | Z | E | PN | Mass/gr |
|---|---|---|---|---|---|---|
| 030443 | 16 | 14 | 9 | 23.5 | 16 | 13 |
| 405300 | 20 | 16 | 11 | 26.5 | 16 | 20 |
| 405301 | 25 | 19 | 14 | 32.5 | 16 | 35 |
| 405302 | 32 | 22 | 17 | 41 | 16 | 50 |
| 405303 | 40 | 26 | 23 | 50 | 16 | 90 |
| 405304 | 50 | 31 | 28 | 60 | 16 | 135 |
| 405305 | 63 | 38 | 34 | 75 | 16 | 247 |
| 405306 | 75 | 44 | 40 | 89 | 16 | 375 |
| 405307 | 90 | 51 | 48 | 106 | 16 | 620 |
| 405308 | 110 | 61 | 58 | 129 | 16 | 1,060 |
| 405309 | 160 | 86 | 81 | 188 | 16 | 3,200 |
| 405310 | 200 | 105 | 102 | 232 | 10 | 5,850 |
| 405312 | 315 | 162 | 240 | 358 | 10 | 23,500 |
| 405309 | 160 | 86 | 81 | 188 | 16 | 3,200 |
| 405310 | 200 | 105 | 102 | 232 | 10 | 5,850 |
| 405311 | 250 | 131.5 | 187.5 | 286 | 10 | 12,160 |
| 405312 | 315 | 162 | 240 | 358 | 10 | 23,500 |
| ÅÅ | يي | 184 | 177 | 393 | 6 | 20,850 |
| ÅÅ | ھھ | 206 | 202 | 439 | 6 | 26,350 |




## 45º ELBOW

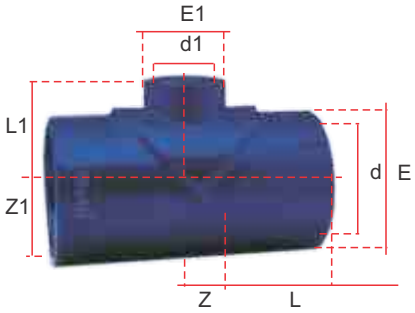
| Code | d | L | Z | E | PN | Mass/Gr |
|---|---|---|---|---|---|---|
| 030485 | 16 | 14 | 5.5 | 23.5 | 16 | 10 |
| 405330 | 20 | 16 | 5.5 | 28 | 16 | 17 |
| 405331 | 25 | 19 | 6 | 34 | 16 | 30 |
| 405332 | 32 | 22 | 8 | 42 | 16 | 47 |
| 405333 | 40 | 26 | 10 | 51 | 16 | 77 |
| 405334 | 50 | 31 | 12 | 61 | 16 | 115 |
| 405335 | 63 | 38 | 15 | 75 | 16 | 190 |
| 405336 | 75 | 44 | 18 | 89 | 16 | 310 |
| 405337 | 90 | 51 | 21 | 106 | 16 | 485 |
| 405338 | 110 | 61 | 25 | 128 | 16 | 835 |
| 405339 | 125 | 69 | 27 | 145 | 16 | 1,065 |
| 405340 | 140 | 76 | 32 | 164 | 16 | 1,640 |
| 405341 | 160 | 86 | 36 | 184 | 16 | 2,100 |
| 405342 | 200 | 105 | 43 | 233 | 10 | 4,540 |
| 405343 | 250 | 131.5 | 58 | 288 | 10 | 7,681 |
| 405344 | 315 | 166 | 66 | 360 | 10 | 14,490 |
| ** | 355 | 184 | 77 | 393 | 6 | 16,000 |
| ** | 400 | 206 | 83 | 439 | 6 | 20,200 |


** Available on request
NB: All measurements in mm

# Fittings - Dimensions for solvent weld metric series

## 90º REDUCING TEE

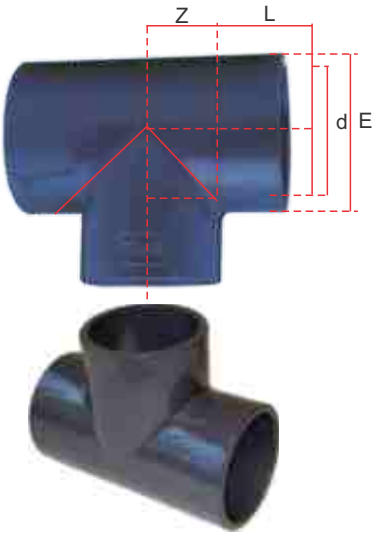
| Code | dxd1 | L | L1 | Z | Z1 | E | E1 | PN | Mass/Gr |
|---|---|---|---|---|---|---|---|---|---|
| 030530 | 25 x 20 | 19 | 16 | 14 | 14 | 33.5 | 28 | 16 | 42 |
| 030531 | 32 x 20 | 22 | 16 | 17 | 17 | 42 | 28 | 16 | 69 |
| 030532 | 32 x 25 | 22 | 19 | 17 | 17 | 42 | 34 | 16 | 70 |
| 030533 | 40 x 20 | 26 | 16 | 21 | 21 | 51 | 28 | 16 | 112 |
| 030534 | 40 x 25 | 26 | 16 | 21 | 21 | 51 | 34 | 16 | 115 |
| 030535 | 40 x 32 | 26 | 22 | 21 | 21 | 51 | 42 | 16 | 118 |
| 030536 | 50 x 20 | 31 | 26 | 26 | 26 | 61 | 28 | 16 | 155 |
| 030537 | 50 x 25 | 31 | 16 | 26 | 26 | 61 | 34 | 16 | 166 |
| 030538 | 50 x 32 | 31 | 19 | 26 | 26 | 61 | 42 | 16 | 170 |
| 030539 | 50 x 40 | 31 | 22 | 26 | 26 | 61 | 51 | 16 | 178 |
| 030543 | 63 x 20 | 38 | 26 | 33 | 33 | 75 | 28 | 16 | 268 |
| 030540 | 63 x 25 | 38 | 31 | 33 | 33 | 75 | 34 | 16 | 270 |
| 030541 | 63 x 32 | 38 | 22 | 33 | 33 | 75 | 42 | 16 | 275 |
| 030542 | 63 x 40 | 38 | 26 | 33 | 33 | 75 | 51 | 16 | 288 |
| 030544 | 63 x 50 | 38 | 33 | 33 | 33 | 75 | 61 | 16 | 300 |
| 030557 | 75 x 32 | 44 | 22 | 39 | 39 | 89 | 42 | 16 | 463 |
| 030545 | 75 x 40 | 44 | 26 | 39 | 39 | 89 | 51 | 16 | 465 |
| 030621 | 75 x 50 | 44 | 31 | 39 | 39 | 89 | 51 | 16 | 465 |
| 030546 | 75 x 63 | 44 | 38 | 39 | 39 | 89 | 75 | 16 | 478 |
| 405600 | 90 x 40 | 51 | 26 | 47 | 47 | 106 | 51 | 16 | 702 |
| 030547 | 90 x 50 | 51 | 31 | 47 | 47 | 106 | 61 | 16 | 740 |
| 030548 | 90 x 63 | 51 | 38 | 47 | 47 | 106 | 75 | 16 | 740 |
| 030549 | 90 x 75 | 51 | 44 | 47 | 47 | 106 | 89 | 16 | 760 |
| 030556 | 110 x 50 | 61 | 31 | 57 | 57 | 129 | 61 | 16 | 1250 |
| 030550 | 110 x 63 | 61 | 38 | 57 | 57 | 129 | 75 | 16 | 1200 |
| 030551 | 110 x 75 | 61 | 44 | 57 | 57 | 129 | 89 | 16 | 1220 |
| 030552 | 110 x 90 | 61 | 51 | 57 | 57 | 129 | 106 | 16 | 1250 |
| 030625 | 125 x 63 | 69 | 44 | 66 | 66 | 148 | 75 | 16 | 1660 |
| 030624 | 125 x 75 | 69 | 44 | 66 | 66 | 148 | 89 | 16 | 1700 |
| 030623 | 125 x 90 | 69 | 51 | 66 | 66 | 148 | 106 | 16 | 1750 |
| 030622 | 125 x 110 | 69 | 61 | 66 | 66 | 148 | 129 | 16 | 1830 |
| 030629 | 140 x 75 | 76 | 44 | 72 | 72 | 163 | 89 | 16 | 2480 |
| 030628 | 140 x 90 | 76 | 51 | 72 | 72 | 163 | 106 | 16 | 2490 |
| 030627 | 140 x 110 | 76 | 61 | 72 | 72 | 163 | 129 | 16 | 2530 |
| 030626 | 140 x 125 | 76 | 69 | 72 | 72 | 163 | 148 | 16 | 2590 |
| 030560 | 160 x 90 | 86 | 51 | 82 | 82 | 154 | 106 | 16 | 3790 |
| 030553 | 160 x 110 | 86 | 61 | 82 | 82 | 184 | 129 | 16 | 3840 |
| 030554 | 160 x 125 | 86 | 69 | 82 | 82 | 184 | 148 | 16 | 3890 |
| 030630 | 160 x 40 | 86 | 76 | 82 | 82 | 184 | 163 | 16 | 3940 |
| ** | 200 x 90 | 106 | 52 | 58 | 102 | 228 | 112 | 10 | 5200 |
| ** | 200 x 110 | 106 | 63 | 58 | 113 | 228 | 137 | 10 | 5200 |
| ** | 200 x 160 | 106 | 87 | 87 | 106 | 228 | 185 | 10 | 6200 |
| ** | 250 x 110 | 129 | 63 | 61 | 128 | 284 | 134 | 10 | 8300 |
| ** | 250 x 160 | 129 | 63 | 61 | 128 | 284 | 134 | 10 | 8300 |
| ** | 250 x 200 | 129 | 87 | 55 | 129 | 284 | 189 | 10 | 9900 |
| ** | 315 x 160 | 164 | 86 | 88 | 161 | 355 | 195 | 10 | 16150 |
| ** | 315 x 200 | 164 | 106 | 102 | 179 | 355 | 228 | 10 | 16600 |
| ** | 315 x 250 | 164 | 131 | 127 | 160 | 355 | 255 | 10 | 18500 |




** Available on request
NB: All measurements in mm

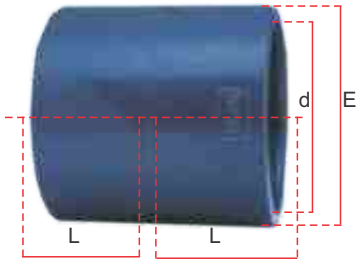
## 90º TEE

| Code | d | L | Z | E | PN | Mass/Gr |
|---|---|---|---|---|---|---|
| 405550 | 20 | 16 | 11 | 28 | 16 | 25 |
| 405551 | 25 | 19 | 14 | 34 | 16 | 44 |
| 405552 | 32 | 22 | 17 | 42 | 16 | 75 |
| 405553 | 40 | 26 | 21 | 51 | 16 | 125 |
| 405554 | 50 | 31 | 26 | 61 | 16 | 183 |
| 405555 | 63 | 38 | 33 | 75 | 16 | 315 |
| 405556 | 75 | 44 | 39 | 88 | 16 | 495 |
| 405557 | 90 | 51 | 47 | 106 | 16 | 790 |
| 405558 | 110 | 61 | 57 | 129,5 | 16 | 1,330 |
| 405561 | 160 | 86 | 81 | 188 | 16 | 4,100 |
| 405562 | 200 | 106 | 102 | 232 | 10 | 7,200 |
| 405564 | 250 | 132.5 | 127 | 286 | 10 | 12.070 |
| 405566 | 315 | 165 | 159 | 360 | 10 | 24,350 |
| ** | 355 | 184 | 294 | 386 | 6 | 35,900 |
| ** | 400 | 206 | 280 | 432 | 6 | 39,900 |



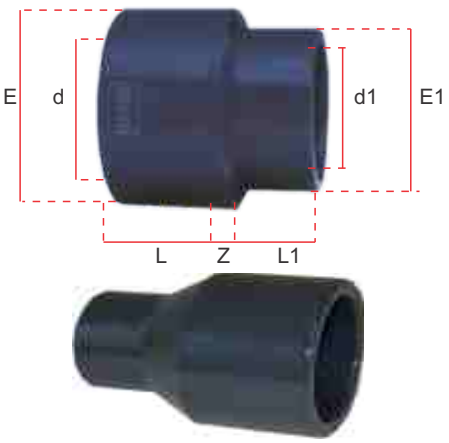

## SOCKET

| Code | d | L | Z | E | PN | Mass/Gr |
|---|---|---|---|---|---|---|
| 030379 | 16 | 14 | 3 | 23.5 | 16 | 9 |
| 405250 | 20 | 16 | 3 | 28 | 16 | 15 |
| 405251 | 25 | 19 | 3 | 34 | 16 | 23 |
| 405252 | 32 | 22 | 3 | 42 | 16 | 36 |
| 405253 | 40 | 26 | 3 | 51 | 16 | 60 |
| 405254 | 50 | 31 | 3 | 61 | 16 | 85 |
| 405255 | 63 | 38 | 3 | 75 | 16 | 45 |
| 405256 | 75 | 44 | 4 | 88 | 16 | 22 |
| 405257 | 90 | 51 | 5 | 106 | 16 | 53 |
| 405258 | 110 | 61 | 6 | 129 | 16 | 605 |
| 030389 | 125 | 69 | 7 | 145 | 16 | 840 |
| 030390 | 140 | 76 | 8 | 161 | 16 | 1,100 |
| 405259 | 160 | 86 | 8 | 181 | 16 | 1,400 |
| 405260 | 200 | 106 | 11 | 226 | 10 | 2,660 |
| 405261 | 250 | 132 | 10 | 287 | 10 | 5,800 |
| 405262 | 315 | 165 | 12 | 355 | 10 | 9,830 |
| ** | 355 | 185 | 11 | 386 | 6 | 11,200 |
| ** | 400 | 206 | 12 | 432 | 6 | 12,900 |




## REDUCING SOCKET

| Code | dxd1 | L | L1 | Z | E | E1 | PN | Mass/Gr |
|---|---|---|---|---|---|---|---|---|
| 130451 | 25 x 20 | 19 | 16 | 6 | 34 | 28 | 16 | 25 |
| 130455 | 32 x 25 | 22 | 19 | 6 | 42 | 33 | 16 | 35 |
| 130458 | 40 x 32 | 26 | 22 | 6 | 51 | 41 | 16 | 58 |
| 130462 | 50 x 40 | 31 | 26 | 6 | 61 | 50 | 16 | 80 |
| 130466 | 63 x 50 | 38 | 31 | 6 | 75 | 60,5 | 16 | 120 |
| 130474 | 75 x 63 | 44 | 38 | 6 | 89 | 75 | 16 | 210 |
| 130478 | 90 x 75 | 51 | 44 | 6 | 106 | 88 | 16 | 300 |
| 130486 | 110 x 90 | 61 | 51 | 6 | 129 | 106 | 16 | 510 |
| 030597 | 140 x 110 | 76 | 61 | 25 | 160 | 129 | 16 | 970 |
| ** | 160 x 110 | 86 | 61 | 28 | 180 | 129 | 16 | 1250 |
| ** | 160 x 140 | 86 | 76 | 8 | 184 | 164 | 16 | 1350 |

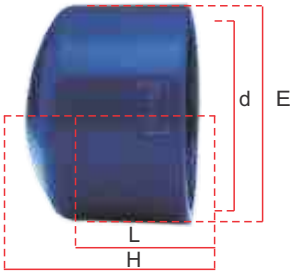



** Available on request
All measurements in mm

# Fittings - Dimensions for solvent weld metric series

## CAP

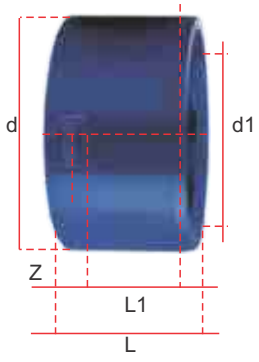
| Code | d | L | H | E | PN | Mass/Gr |
|---|---|---|---|---|---|---|
| 030672 | 16 | 14 | 22 | 23 | 16 | 7 |
| 405400 | 20 | 16 | 27 | 28 | 16 | 10 |
| 405401 | 25 | 19 | 31 | 33 | 16 | 18 |
| 405402 | 32 | 22 | 36 | 41 | 16 | 30 |
| 405403 | 40 | 28 | 43 | 50 | 16 | 45 |
| 405404 | 50 | 32 | 49 | 60.5 | 16 | 70 |
| 405405 | 63 | 39 | 57 | 75 | 16 | 120 |
| 405406 | 75 | 44 | 67 | 89 | 16 | 188 |
| 405406 | 90 | 51 | 80 | 106 | 16 | 295 |
| 405408 | 110 | 61 | 95 | 129 | 16 | 490 |
| 030683 | 125 | 69 | 102 | 145 | 16 | 680 |
| 405410 | 140 | 77.5 | 114 | 161 | 16 | 927 |
| 405411 | 160 | 86 | 126 | 181 | 16 | 1,146 |
| 405412 | 200 | 106 | 145 | 227 | 10 | 2,048 |

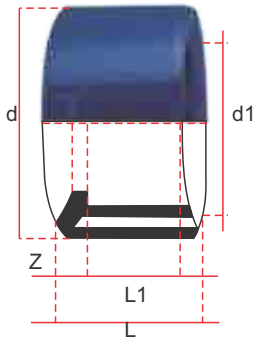



NB: All measurements in mm

## REDUCING BUSH

| Code | dxd1 | L | L1 | Z | Fig. | PN | Mass/Gr |
|---|---|---|---|---|---|---|---|
| 405100 | 25 x 20 | 19 | 16 | 3 | A | 16 | 6 |
| 405105 | 32 x 20 | 22 | 16 | 6 | A | 16 | 15 |
| 405106 | 32 x 25 | 22 | 19 | 3 | A | 16 | 10 |
| 405110 | 40 x 20 | 26 | 16 | 10 | B | 16 | 28 |
| 405111 | 40 x 25 | 26 | 19 | 7 | A | 16 | 29 |
| 405112 | 40 x 32 | 26 | 22 | 4 | A | 16 | 19 |
| 405116 | 50 x 25 | 31 | 19 | 12 | B | 16 | 45 |
| 405117 | 50 x 32 | 31 | 22 | 9 | B | 16 | 45 |
| 405118 | 50 x 40 | 31 | 26 | 5 | A | 16 | 35 |
| 030561 | 63 x 25 | 38 | 19 | 19 | B | 16 | 56 |
| 405122 | 63 x 32 | 38 | 22 | 16 | B | 16 | 83 |
| 405123 | 63 x 40 | 38 | 26 | 12 | B | 16 | 83 |
| 405124 | 63 x 50 | 38 | 31 | 7 | A | 16 | 61 |
| ** | 75 x 32 | 44 | 22 | 22 | B | 16 | 130 |
| 405128 | 75 x 40 | 44 | 26 | 18 | B | 16 | 125 |
| 405129 | 75 x 50 | 44 | 31 | 13 | B | 16 | 122 |
| 405130 | 75 x 63 | 44 | 38 | 6 | A | 16 | 85 |
| 405139 | 90 x 50 | 51 | 31 | 20 | B | 16 | 210 |
| 405140 | 90 x 63 | 51 | 38 | 13 | B | 16 | 180 |
| 405141 | 90 x 75 | 51 | 44 | 7 | A | 16 | 140 |
| 405150 | 110 x 63 | 61 | 38 | 23 | B | 16 | 372 |
| 405151 | 110 x 75 | 61 | 44 | 17 | B | 16 | 335 |
| 405152 | 110 x 90 | 61 | 51 | 10 | A | 16 | 262 |
| 405160 | 125 x 75 | 69 | 44 | 25 | B | 16 | 440 |
| 405161 | 125 x 90 | 69 | 51 | 18 | B | 16 | 365 |
| 405162 | 125 x 110 | 69 | 61 | 8 | A | 16 | 260 |
| 405171 | 140 x 90 | 76 | 51 | 25 | B | 16 | 600 |
| 405172 | 140 x 110 | 76 | 51 | 15 | B | 16 | 450 |
| 405173 | 140 x 125 | 76 | 69 | 7 | A | 16 | 335 |
| 405182 | 160 x 110 | 86 | 61 | 25 | B | 16 | 820 |
| 405183 | 160 x 125 | 86 | 69 | 17 | B | 16 | 745 |
| 405184 | 160 x 140 | 86 | 76 | 10 | A | 16 | 565 |
| 405195 | 200 x 160 | 106 | 86 | 20 | B | 10 | 1,360 |
| 405205 | 250 x 160 | 134 | 87 | 47 | B | 10 | 2,784 |
| 405216 | 250 x 200 | 134 | 107 | 27 | B | 10 | 2,700 |
| 405229 | 315 x 250 | 165 | 132 | 33 | B | 10 | 4,100 |

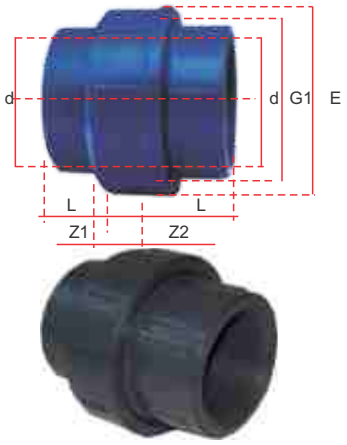



** Available on request
All measurements in mm

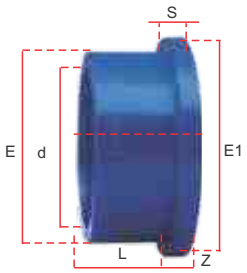
## UNION WITH O-RING

| Code | d | L | Z1 | Z2 | G1 | E | O-ring | PN | Mass/Gr |
|---|---|---|---|---|---|---|---|---|---|
| 405649 | 16 | 14 | 3 | 10 | ¾" | 34 | 3062 | 16 | 30 |
| 405650 | 20 | 16 | 3 | 10 | 1" | 42 | 4081 | 16 | 42 |
| 405651 | 25 | 19 | 3 | 10 | 1¼" | 52 | 4112 | 16 | 70 |
| 405652 | 32 | 22 | 3 | 10 | 1½" | 59 | 4131 | 16 | 97 |
| 405653 | 40 | 26 | 3 | 12 | 2" | 72 | 6162 | 16 | 155 |
| 405654 | 50 | 31 | 3 | 14 | 2¼" | 79 | 6187 | 16 | 216 |
| 405655 | 63 | 38 | 3 | 18 | 2¾" | 96 | 6237 | 16 | 340 |
| 405656 | 75 | 44 | 3 | 18 | 3½" | 119 | 6312 | 16 | 580 |
| 405657 | 90 | 51 | 5 | 18 | 4 | 134 | 6362 | 16 | 760 |
| 405658 | 110 | 61 | 5 | 18 | 5 | 163 | 6450 | 16 | 1280 |



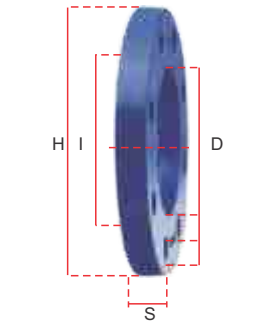

## STUB

| Code | d | DN | L | Z | S | E | E1 | PN | Mass/Gr |
|---|---|---|---|---|---|---|---|---|---|
| 030795 | 25 | 20 | 19 | 3 | 7 | 33 | 41 | 16 | 16 |
| 030796 | 32 | 25 | 22 | 3 | 7 | 41 | 50 | 16 | 25 |
| 030797 | 40 | 32 | 26 | 3 | 8 | 50 | 61 | 16 | 40 |
| 030798 | 50 | 40 | 31 | 3 | 8 | 61 | 73 | 16 | 60 |
| 030799 | 63 | 50 | 38 | 3 | 9 | 76 | 90 | 16 | 113 |
| 030800 | 75 | 65 | 44 | 3 | 10 | 90 | 106 | 16 | 160 |
| 030801 | 90 | 80 | 51 | 5 | 11 | 108 | 125 | 16 | 263 |
| 030802 | 110 | 100 | 61 | 5 | 12 | 131 | 150 | 16 | 425 |
| 030803 | 125 | 110 | 69 | 5 | 13 | 147 | 168 | 16 | 540 |
| 030804 | 140 | 125 | 76 | 5 | 14 | 165 | 188 | 16 | 750 |
| 030805 | 160 | 150 | 86 | 5 | 16 | 188 | 213 | 16 | 1,045 |
| 030806 | 200 | 190 | 106 | 7 | 18 | 231 | 253 | 10 | 1,746 |
| 030807 | 250 | 225 | 131 | 10 | 20 | 273 | 307 | 10 | 2,320 |
| 030808 | 315 | 300 | 162 | 11 | 27 | 346 | 379 | 10 | 4,578 |
| ** | 355 | 350 | 184 | 8 | 30 | 386 | 431 | 6 | 6050 |
| ** | 400 | 400 | 206 | 12 | 30 | 432 | 483 | 6 | 8100 |
| ** | 450 | 450 | 156 | 8 | 30 | 487 | 538 | 6 | 7400 |




## LOOSE FLANGE

| Code | d | DN | D | E | S | I | F | Drill N-Fori | Bolts Bulloni | PN | Mass/Gr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 030812 | 25 | 20 | 34 | 105 | 12 | 75 | 14 | 4 | M12x 60 | 16 | 90 |
| 030813 | 32 | 25 | 42 | 115 | 14 | 85 | 14 | 4 | M12x 60 | 16 | 120 |
| 030814 | 40 | 32 | 51 | 142 | 15 | 100 | 18 | 4 | M16x 70 | 16 | 195 |
| 030815 | 50 | 40 | 62 | 152 | 16 | 110 | 18 | 4 | M16x 75 | 16 | 230 |
| 030816 | 63 | 50 | 78 | 165 | 18 | 125 | 18 | 4 | M16x 80 | 16 | 280 |
| 030817 | 75 | 65 | 92 | 185 | 19 | 145 | 18 | 4 | M16x 90 | 16 | 355 |
| 030818 | 90 | 80 | 110 | 200 | 20 | 160 | 18 | 8 | M16x 90 | 16 | 430 |
| 030819 | 110 | 100 | 133 | 220 | 22 | 180 | 18 | 8 | M16x100 | 16 | 520 |
| 030820 | 125 | 110 | 149 | 230 | 24 | 190 | 18 | 8 | M16x100 | 16 | 585 |
| 030821 | 140 | 125 | 167 | 250 | 25 | 210 | 18 | 8 | M16X110 | 16 | 700 |
| 030822 | 160 | 150 | 190 | 285 | 28 | 240 | 22 | 8 | M20X120 | 16 | 930 |
| 030823 | 200 | 190 | 235 | 340 | 30 | 295 | 22 | 8 | M20X120 | 16 | 1200 |
| 030824 | 250 | 225 | 280 | 385 | 34 | 350 | 22 | 12 | M20X120 | 10 | 1650 |
| ** | 315 | 300 | 349 | 445 | 31 | 400 | 22 | 12 | M20X120 | 10 | 2700 |
| ** | 355 | 350 | 385 | 434 | 34 | 460 | 22 | 16 | M20X120 | 8 | 3550 |
| ** | 400 | 400 | 438 | 572 | 34 | 515 | 25 | 16 | M20X120 | 6 | 4500 |
| ** | 450 | 450 | 488 | 614 | 32 | 585 | 25 | 20 | M20X120 | 6 | 4100 |




** Available on request
NB: All measurements in mm

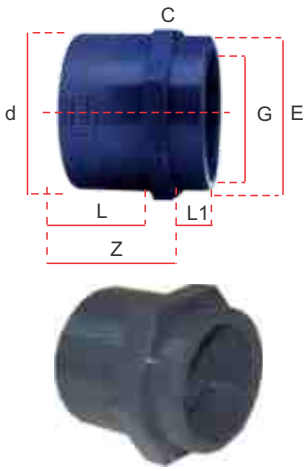
# Fittings - Dimensions for Solvent Weld Metric Series

## LONG RADIUS BEND

| Code | d | L | Z | E | PN | Mass/Gr |
|---|---|---|---|---|---|---|
| 130220 | 20 | 16 | 40 | 28 | 16 | 45 |
| 130221 | 25 | 20 | 50 | 35 | 16 | 75 |
| 130222 | 32 | 22 | 65 | 42 | 16 | 125 |
| 130223 | 40 | 26 | 80 | 51 | 16 | 201 |
| 130224 | 50 | 31 | 100 | 63 | 16 | 318 |
| 130225 | 63 | 38 | 126 | 77 | 16 | 510 |
| 130226 | 75 | 44 | 150 | 95 | 16 | 1,016 |
| 130227 | 90 | 52 | 180 | 113 | 16 | 1,790 |
| 130228 | 110 | 61 | 220 | 133 | 16 | 2,860 |

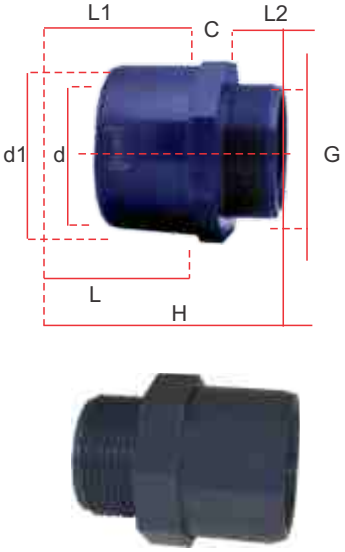

## ADAPTOR WITH FEMALE THREAD

| Code | d x G | L | L1 | E | Z | C | PN | Mass/Gr |
|---|---|---|---|---|---|---|---|---|
| 405450 | 20 x ½" | 16 | 15,0 | 28 | 24 | 30 | 16 | 20 |
| 405455 | 25 x ¾" | 19 | 16,3 | 34 | 27 | 36 | 16 | 25 |
| 405460 | 32 x 1" | 22 | 19,1 | 42 | 30 | 46 | 16 | 43 |
| 405465 | 40 x 1¼" | 26 | 21,4 | 51 | 36 | 55 | 16 | 65 |
| 405470 | 50 x 1½" | 31 | 21,4 | 58 | 41 | 60 | 16 | 80 |
| 405475 | 63 x 2" | 38 | 25,7 | 75 | 48 | 75 | 16 | 135 |
| 405480 | 75 x 2½" | 44 | 30,2 | 89 | 58 | 90 | 16 | 125 |
| 405490 | 90 x 3" | 51 | 33,3 | 103 | 65 | 95 | 16 | 310 |
| 405495 | 110 x 4" | 61 | 39,3 | 130 | 76 | 130 | 16 | 480 |




## ADAPTOR WITH MALE THREAD

| Code | d x G | L | L1 | L2 | H | C | PN | Mass/Gr |
|---|---|---|---|---|---|---|---|---|
| 405000 | 20/25 x ½" | 16 | 19 | 15,0 | 46 | 27 | 16 | 15 |
| 405005 | 25/32 x ¾" | 19 | 22 | 16,3 | 50 | 50 | 16 | 26 |
| 405010 | 32/40 x 1" | 22 | 26 | 19,1 | 57 | 57 | 16 | 40 |
| 405015 | 40/50 x 1¼" | 26 | 31 | 21,4 | 66,5 | 55 | 16 | 75 |
| 405020 | 50/63 x 1½" | 31 | 38 | 21,4 | 74 | 65 | 16 | 113 |
| 405025 | 63/75 x 2" | 38 | 44 | 25,7 | 84 | 75 | 16 | 150 |
| 405033 | 75/90 x 2½" | 44 | 51 | 30,2 | 99 | 95 | 16 | 270 |
| 405035 | 90 x 110 x 3" | 51 | 61 | 33,3 | 110 | 115 | 16 | 490 |
| 405040 | 110/125 x 4" | 61 | 69 | 39,3 | 120 | 130 | 16 | 490 |
| ** | 160/110 x 6" | 75 | 80 | 45.0 | 200 | 130 | 16 | 740 |




** Available on request
NB: All measurements in mm

## Supporting Products Available

TEES 45º

20mm - 110mm

REDUCING SOCKETS

32x25x20mm - 315x280x200mm

REDUCING BUSHES

20x16mm, 50x20mm,160x90mm

CAPS

250mm

CROSSES

20mm - 110mm

FULL FACE FLANGE

20mm - 250mm

BLANK FLANGE

20mm - 200mm

PIPE CLIPS

20mm - 200mm

ADAPTOR ELBOWS
Plain to Threaded

20mmx½" to 110mmx4"

ADAPTOR TEES
Plain to Threaded

20mmx½" to 110mmx4"

ADAPTOR UNIONS
Plain to Threaded

20mmx½" to 110mmx4"

ADAPTOR NIPPLES
Female (plain to threaded)

20mmx16mmx¼" to
110mmx90mmx4"

ADAPTOR NIPPLES
Male/Female (male threaded)

16mm x12mm x⅜" to
125mmx110mmx4"

HOSE ADAPTOR
Plain

16mm to 63mm

THREADED ELBOWS
Female

½" to 4"(15mm to 100mm)

** Available on request
NB: All measurements in mm

## Supporting Products Available

THREADED TEES
Female

½" to 4"(15mm to 100mm)

THREADED SOCKETS
Female

½" to 4"(15mm to 100mm)

THREADED UNIONS
Female

½" to 4"(15mm to 100mm)

THREADED CAPS
Female

½" to 4"(15mm to 100mm)

NIPPLES THREADED
Male

½" to 4"(15mm to 100mm)

PLUGS THREADED
Male

½" to 4"(15mm to 100mm)

HOSE ADAPTOR
Male Threaded

⅜" to 2"(10mm to 50mm)

REDUCER THREADED
Male to Female

½"x¼" to 4"x3"

REDUCING NIPPLE
Male Threaded

½"x⅜" to 4"x3"

REDUCING SOCKET
Female Threaded

½"x⅜" to 4"x3"

TANK CONNECTORS

½"x3"

BACKNUTS
Female Threaded

½" to 2"

CHECK VALVES

75mm to 200mm

SPRING TYPE CHECK VALVE
Plain

20mm to 110mm

SPRING TYPE CHECK VALVE
Female Threaded

½" to 4"(15mm to 100mm)

BUTTERFLY VALVES

75mm to 250mm

** Available on request
NB: All measurements in mm

MMP

Meti

EN ISO9001:2008

# PRODUCT CATALOGUE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D A W N

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