






Product Range

TP fittings and valves



| | | |
|---|-----------------------------------|----|
|  | PVC-U Fittings | 4 |
|  | PVC-U Ball valves | 37 |
|  | PVC-U Check valves | 50 |
|  | PVC-U Butterfly valves | 56 |
|  | PVC-U British standard Inch range | 63 |
| | Index | 75 |

PVC-U Fittings

Applications

TP (formerly known as Tecno Plastic) is a dedicated brand of PVC fittings and valves for water piping systems. Each TP product is designed to meet the demands of the customers in specific application areas such as distribution, treatment and sewage water, public and private swimming pools, thermal pools and spas, aquariums and aquaculture, irrigation and fountains.

Range

TP full range of fittings is available in following ranges: metric for solvent cement from 16 mm to 225 mm, BSP threaded from 3/8" to 6", adapt or set from 16x3/8" to 160x6".

MECHANICAL PROPERTIES

Max working pressure in Bar

| Series | Dimensions | PN |
|------------------|---------------------|----|
| Solvent jointing | from d 16 to d 200 | 16 |
| | from d 225 to d 315 | 10 |
| Threaded | from 3/8" to 6" | 16 |
| Adapt or range | from D 16 to D 160 | 16 |

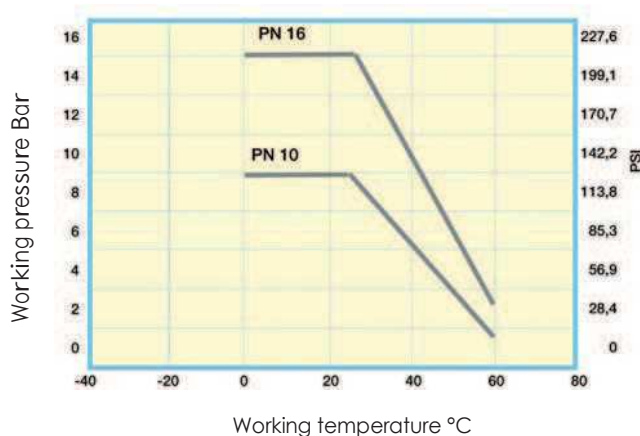
Sanitary regulations

Our fittings, as well as applied raw material, are suitable for drinkable water and foodstuff fluids in accordance either to the Italian National Authorities laws (D.M.174, 6th april 2004), or other international organizations.

Materials

The PVC-U compound used by TP is stabilised unplasticized polyvinyl chloride. Material chemical resistances according to ISO/TR 10358.

PRESSURE-TEMPERATURE RELATIONSHIP ACCORDING TO DIN 3441 BLATT 1 AND EN 145£/3/5



Standards

The raw material applied for TP products is in compliance with international standards mentioned in the table "PHYSICAL PROPERTIES OF PVC-U".

TP fittings are in compliance with the main international standards too, like ISO EN 1452-3, NF & KIW A, so that they can be combined with pipes according to the main international standards.

SAFETY FACTORS AT 20°C FOR PN 16 FITTINGS

| Working pressure | Hours | | Corresponding to 50 years life |
|------------------|-------|------|--------------------------------|
| | 1 | 1000 | |
| 10 Bar | 6,7 | 5,1 | 4,0 |
| 16 Bar DN ≤ 160 | 4,2 | 3,2 | 2,5 |
| 16 Bar DN > 160 | 3,36 | 2,56 | 2 |

Gaskets

Standard Gaskets for unions and stubs are in EPDM (ethylene - polypropylene rubber).

PHYSICAL PROPERTIES OF PVC-U

| Characteristics | Standard | Units | PVC |
|---------------------------------|-----------------------|--------------------|----------------------|
| Density | ISO 1183 | kg/dm ³ | 1,40 |
| Elongation | ISO R527 | % | 154 |
| Modulus of elasticity | ISO R527 | MPa | 2.600 |
| Resistance to traction | ISO R527 | MPa | 40 |
| Tensile strength | ISO R527 | MPa | 44 |
| Vicat softening point with 5 Kg | ISO 306 | °C | > 76 |
| Thermal conductivity 23°C | ASTM C177 | $\frac{W}{mk}$ | 0,13±0,19 |
| Coefficient of linear expansion | ASTM D696 UNI 6061 | $\frac{mm}{mm°C}$ | 5÷8x10 ⁻⁵ |
| Water absorption | UNI 7449-75 | mg/cm ² | < 0,1 |
| Meets fire regulations | UL94 | | V-O |
| Ash content | UNI 7449-75 | % | < 3 |
| Colour | | | 9735 |

PVC-U Fittings

PIPE-FITTINGS TOLLERANCES FOR SOLVENT JOINTING ACCORDING TO:

Fittings: ISO 727 - EN 1452/2/3 - DIN 8063 - KIWA 54
NFT54-028

Pipes: ISO 161 - EN 1452/2 - DIN 8062 - KIWA 49
NFT54-016

| Nominal DN | D | male fittings outside diam. | | female fittings inside diam. | |
|---------------|-----|--------------------------------|--------|---------------------------------|--------|
| | | 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 |
| 200 | 200 | 200 | 200,50 | 200,20 | 200,60 |
| 200 | 225 | 225 | 225,50 | 225,30 | 225,70 |

DIMENSIONS OF THREAD ACCORDING TO:

UNI ISO 7-1 - BS 21 - DIN 2999
(parallel threaded sockets)

| Nominal diameter G | Outside thread diameter | Pitch | Thread depth | Thread assembling length | |
|--------------------------|-------------------------------|---------------------|-----------------|--------------------------------|------|
| | | n° of threads/1" | | | mm |
| 3/8" | 16,66 | 19 | 1,337 | 0,856 | 11,4 |
| 1/2" | 20,95 | 14 | 1,814 | 1,162 | 15,0 |
| 3/4" | 26,44 | 14 | 1,814 | 1,162 | 16,3 |
| 1" | 33,25 | 11 | 2,309 | 1,479 | 19,1 |
| 1 1/4" | 41,91 | 11 | 2,309 | 1,479 | 21,4 |
| 1 1/2" | 47,80 | 11 | 2,309 | 1,479 | 21,4 |
| 2" | 59,61 | 11 | 2,309 | 1,479 | 25,7 |
| 2 1/4" | 65,71 | 11 | 2,309 | 1,479 | - |
| 2 1/2" | 75,18 | 11 | 2,309 | 1,479 | 30,2 |
| 2 3/4" | 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 | 39,3 |
| 5" | 138,43 | 11 | 2,309 | 1,479 | 43,6 |
| 6" | 163,83 | 11 | 2,309 | 1,479 | 43,6 |

Assembly instructions

METRIC SET FOR SOLVENT CEMENT JOINTINS

TP fittings in rigid PVC-U of metric range can be glued to each other and with pipes of same material provided that the pipe dimension and tolerances are in accordance with the mentioned standard. A strong dense-type glue is recommended, especially for glueing large diameters, where the clearance may be high due to the ovalization effect; such clearance, anyhow, in order to guarantee a perfect seal, should never exceed 0,6 mm with a dense type glue and 0,3 mm with a fluid-type glue.

In order to obtain a perfect gluing it is recommended that the glue manufacturer's instructions be strictly followed. These instructions can be summarized as follows:

- remove all traces of grease, oil or simply dust from both the pipe (properly cut at 90° and beveled at the top) and the fitting by means of a clean cloth soaked in diluent;
- apply, by a suitable brush, a uniform layer of glue, both to the fitting and to the pipe, and cover the entire surface to be glued;
- immediately (in 1 to 2 minutes) insert the part to be glued in the female fitting;
- it is recommended that all glue in excess, which flows out of the coupling, to be quickly removed.

It is also recommended that freshly glued parts should not be submitted to mechanical stresses.

The glue manufacturer's instructions concerning how long to wait before handling, sticking and pressure testing the system should be carefully followed.

Generally speaking, none of these operations should take place in the 24 hours following the gluing.

THREADED SERIES

TP fittings in rigid PV C-U of the threaded series or of the adaptor series can be screwed to each other or to pipe and other threaded parts in other materials in accordance with the rules given.

In order to obtain easy screwing and perfect sealing, the use of high quality PTFE tape is recommended in quantity sufficient to avoid clearance without causing too tight shutting.

The use of hemp, tow and lint, usually employed for metal fittings, should be avoided.

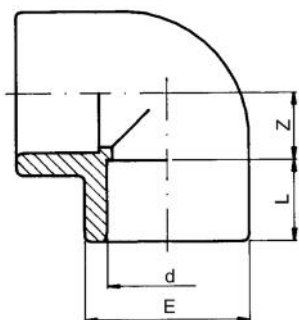
Such materials, contrary to what happens with PTFE, are not rejected by the coupling even when used in excess, making the female fitting expand in such a way as to cause breakages both during the assembly stage and later, during operation.

The information set forth are purely indicative, we therefore recommend to comply to laws and regulations relating to the various countries (ex: UNI 11242 Jointing by cementing pipes, fittings and valves PVC-U).

PVC-U fittings solvent cement jointing

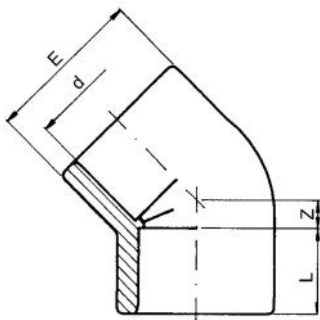
Metric range

Elbow 90° PVC-U metric



| d (mm) | d (inch) | PN (bar) | Code | PF | SP | GP | Weight (kg) | L (mm) | Z (mm) | E (mm) |
|-----------|-------------|-------------|------------------|--------------|----|-----|----------------|-----------|-----------|-----------|
| 16 | | 16 | RV0G01160 | 2 01 950 010 | 10 | 320 | 0.010 | 14 | 9 | 22 |
| 20 | | 16 | RV0G01200 | 2 01 950 010 | 10 | 160 | 0.015 | 16 | 11 | 26 |
| 25 | | 16 | RV0G01250 | 2 01 950 010 | 10 | 160 | 0.025 | 19 | 14 | 32 |
| 32 | | 16 | RV0G01320 | 2 01 950 010 | 10 | 80 | 0.040 | 22 | 17 | 40 |
| 40 | | 16 | RV0G01400 | 2 01 950 010 | 65 | 0 | 0.095 | 26 | 21 | 51 |
| 50 | | 16 | RV0G01500 | 2 01 950 010 | 80 | 0 | 0.120 | 31 | 26 | 61 |
| 63 | | 16 | RV0G01630 | 2 01 950 010 | 40 | 0 | 0.206 | 38 | 33 | 75 |
| 75 | 2 ½ | 16 | RV0G01750 | 2 01 950 010 | 50 | 0 | 0.386 | 44 | 39 | 89 |
| 90 | | 16 | RV0G01900 | 2 01 950 010 | 30 | 0 | 0.603 | 51 | 47 | 106 |
| 110 | | 16 | RV0G01910 | 2 01 950 010 | 17 | 0 | 1.078 | 61 | 57 | 129 |
| 125 | | 16 | RV0G01920 | 2 01 950 010 | 12 | 0 | 1.390 | 69 | 66 | 145 |
| 140 | 5 | 16 | RV0G01930 | 2 01 950 010 | 8 | 0 | 2.050 | 76 | 72 | 163 |
| 160 | | 16 | RV0G01940 | 2 01 950 010 | 5 | 0 | 3.105 | 86 | 82 | 190 |
| 200 | | 16 | RV0G01960 | 2 01 950 010 | 28 | 0 | 4.800 | 106 | 102 | 228 |
| 225 | | 10 | RV0G01970 | 2 01 950 010 | 18 | 0 | 6.600 | 119 | 115 | 255 |
| 250 | | 10 | RV0G01980 | 2 01 950 013 | 10 | 0 | 12.100 | 131 | 188 | 286 |
| 315 | | 10 | RV0G01991 | 2 01 950 010 | 5 | 0 | 23.500 | 164 | 239 | 358 |

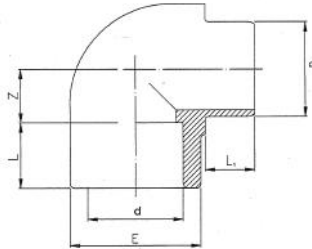
Elbow 45° PVC-U metric



| d (inch) | d (mm) | PN (bar) | Code | PF | SP | GP | Weight (kg) | Z (mm) | E (mm) | L (mm) |
|-------------|-----------|-------------|------------------|--------------|-----|-----|----------------|-----------|-----------|-----------|
| | 16 | 16 | RV0GY1160 | 2 01 950 010 | 10 | 400 | 0.010 | 5 | 23 | 14 |
| | 20 | 16 | RV0GY1200 | 2 01 950 010 | 10 | 300 | 0.017 | 5 | 28 | 16 |
| | 25 | 16 | RV0GY1250 | 2 01 950 010 | 10 | 200 | 0.029 | 6 | 34 | 19 |
| | 32 | 16 | RV0GY1320 | 2 01 950 010 | 10 | 100 | 0.047 | 8 | 42 | 22 |
| | 40 | 16 | RV0GY1400 | 2 01 950 010 | 80 | 0 | 0.076 | 10 | 51 | 26 |
| | 50 | 16 | RV0GY1500 | 2 01 950 010 | 100 | 0 | 0.110 | 12 | 61 | 31 |
| | 63 | 16 | RV0GY1630 | 2 01 950 010 | 50 | 0 | 0.180 | 14 | 75 | 38 |
| 2 ½ | 75 | 16 | RV0GY1750 | 2 01 950 010 | 65 | 0 | 0.308 | 17 | 89 | 44 |
| | 90 | 16 | RV0GY1900 | 2 01 950 010 | 40 | 0 | 0.477 | 20 | 106 | 51 |
| | 110 | 16 | RV0GY1910 | 2 01 950 010 | 22 | 0 | 0.842 | 24 | 129 | 61 |
| | 125 | 16 | RV0GY1920 | 2 01 950 010 | 14 | 0 | 1.065 | 27 | 145 | 69 |
| 5 | 140 | 16 | RV0GY1930 | 2 01 950 010 | 8 | 0 | 1.600 | 31 | 163 | 76 |
| | 160 | 16 | RV0GY1940 | 2 01 950 010 | 6 | 0 | 2.240 | 35 | 185 | 86 |
| | 200 | 16 | RV0GY1960 | 2 01 950 010 | 30 | 0 | 3.780 | 43 | 228 | 106 |
| | 225 | 10 | RV0GY1970 | 2 01 950 010 | 24 | 0 | 5.755 | 49 | 255 | 119 |
| | 250 | 10 | RV0GY1980 | 2 01 950 013 | 1 | 0 | 7.680 | 58 | 287 | 131 |
| | 315 | 10 | RV0GY1991 | 2 01 950 013 | 8 | 0 | 14.700 | 66 | 360 | 164 |

PF 2 01 950 010

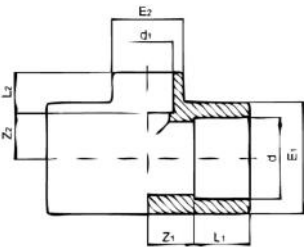
Elbow 90° M/F PVC-U metric



| d (mm) | PN (bar) | Code | SP | Weight (kg) | L1 (mm) | E (mm) | L (mm) | Z (mm) |
|-----------|-------------|------------------|----|----------------|------------|-----------|-----------|-----------|
| 50 | 16 | RV0GPI500 | 75 | 0.155 | 31 | 61 | 31 | 26 |
| 63 | 16 | RV0GPI630 | 40 | 0.250 | 38 | 75 | 38 | 33 |

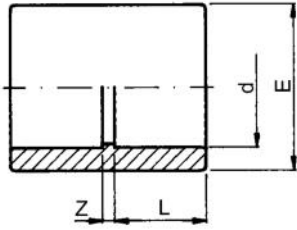
PF 2 01 950 010

Reduced tee 90° PVC-U metric



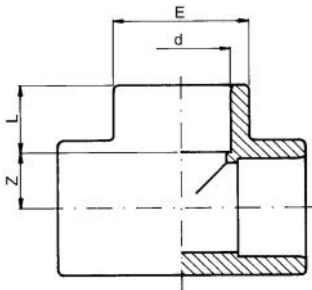
| d - d1 (mm) | PN (bar) | Code | SP | GP | Weight (kg) | Z1 (mm) | Z2 (mm) | L1 (mm) | L2 (mm) | E2 (mm) | E1 (mm) |
|----------------|-------------|------------------|-----|-----|----------------|------------|------------|------------|------------|------------|------------|
| 20 - 16 | 16 | RV0TRI20A | 10 | 200 | 0.016 | 11 | 11 | 16 | 14 | 23 | 28 |
| 25 - 16 | 16 | RV0TRI25A | 10 | 120 | 0.041 | 14 | 14 | 19 | 14 | 23 | 34 |
| 25 - 20 | 16 | RV0TRI25B | 10 | 120 | 0.042 | 14 | 14 | 19 | 16 | 28 | 34 |
| 32 - 16 | 16 | RV0TRI32A | 10 | 140 | 0.068 | 17 | 17 | 22 | 14 | 23 | 42 |
| 32 - 20 | 16 | RV0TRI32B | 10 | 140 | 0.066 | 17 | 17 | 22 | 16 | 28 | 42 |
| 32 - 25 | 16 | RV0TRI32C | 10 | 140 | 0.070 | 17 | 17 | 22 | 19 | 34 | 42 |
| 40 - 20 | 16 | RV0TRI40B | 100 | 0 | 0.105 | 21 | 21 | 26 | 16 | 28 | 51 |
| 40 - 25 | 16 | RV0TRI40C | 100 | 0 | 0.111 | 21 | 21 | 26 | 19 | 34 | 51 |
| 40 - 32 | 16 | RV0TRI40D | 100 | 0 | 0.112 | 21 | 21 | 26 | 22 | 42 | 51 |
| 50 - 20 | 16 | RV0TRI50B | 50 | 0 | 0.156 | 26 | 26 | 31 | 16 | 28 | 61 |
| 50 - 25 | 16 | RV0TRI50C | 50 | 0 | 0.162 | 26 | 26 | 31 | 19 | 34 | 61 |
| 50 - 32 | 16 | RV0TRI50D | 50 | 0 | 0.162 | 26 | 26 | 31 | 22 | 42 | 61 |
| 50 - 40 | 16 | RV0TRI50E | 50 | 0 | 0.173 | 26 | 26 | 31 | 26 | 51 | 61 |
| 63 - 20 | 16 | RV0TRI63B | 30 | 0 | 0.268 | 33 | 33 | 38 | 16 | 28 | 75 |
| 63 - 25 | 16 | RV0TRI63C | 30 | 0 | 0.270 | 33 | 33 | 38 | 19 | 34 | 75 |
| 63 - 32 | 16 | RV0TRI63D | 30 | 0 | 0.274 | 33 | 33 | 38 | 22 | 42 | 75 |
| 63 - 40 | 16 | RV0TRI63E | 30 | 0 | 0.277 | 33 | 33 | 38 | 26 | 51 | 75 |
| 63 - 50 | 16 | RV0TRI63F | 30 | 0 | 0.278 | 33 | 33 | 38 | 31 | 61 | 75 |
| 75 - 32 | 16 | RV0TRI75D | 18 | 0 | 0.463 | 39 | 39 | 44 | 22 | 42 | 89 |
| 75 - 40 | 16 | RV0TRI75E | 45 | 0 | 0.460 | 39 | 39 | 44 | 26 | 51 | 89 |
| 75 - 50 | 16 | RV0TRI75F | 18 | 0 | 0.464 | 39 | 39 | 44 | 31 | 61 | 89 |
| 75 - 63 | 16 | RV0TRI75G | 30 | 0 | 0.478 | 39 | 39 | 44 | 38 | 75 | 89 |
| 90 - 40 | 16 | RV0TRI90E | 30 | 0 | 0.702 | 47 | 47 | 51 | 26 | 61 | 106 |
| 90 - 50 | 16 | RV0TRI90F | 28 | 0 | 0.703 | 47 | 47 | 51 | 31 | 61 | 106 |
| 90 - 63 | 16 | RV0TRI90G | 24 | 0 | 0.713 | 47 | 47 | 51 | 38 | 75 | 106 |
| 90 - 75 | 16 | RV0TRI90H | 24 | 0 | 0.731 | 47 | 47 | 51 | 44 | 89 | 106 |
| 110 - 50 | 16 | RV0TRI91F | 16 | 0 | 1.245 | 57 | 57 | 61 | 31 | 61 | 129 |
| 110 - 63 | 16 | RV0TRI91G | 16 | 0 | 1.250 | 57 | 57 | 61 | 38 | 75 | 129 |
| 110 - 75 | 16 | RV0TRI91H | 16 | 0 | 1.255 | 57 | 57 | 61 | 44 | 89 | 129 |
| 110 - 90 | 16 | RV0TRI91I | 14 | 0 | 1.297 | 57 | 57 | 61 | 51 | 106 | 129 |
| 125 - 63 | 16 | RV0TRI92G | 9 | 0 | 1.955 | 66 | 66 | 69 | 38 | 75 | 148 |
| 125 - 90 | 16 | RV0TRI92I | 9 | 0 | 1.740 | 66 | 66 | 69 | 51 | 106 | 148 |
| 125 - 110 | 16 | RV0TRI92L | 8 | 0 | 2.060 | 66 | 66 | 69 | 61 | 129 | 148 |
| 160 - 90 | 16 | RV0TRI94I | 4 | 0 | 3.790 | 82 | 82 | 86 | 51 | 106 | 190 |
| 160 - 110 | 16 | RV0TRI94L | 4 | 0 | 3.840 | 82 | 82 | 86 | 61 | 129 | 190 |

Double socket PVC-U metric



| d (mm) | d (inch) | PN (bar) | Code | PF | SP | GP | Weight (kg) | Z (mm) | L (mm) | E (mm) |
|-----------|-------------|-------------|------------------|--------------|-----|-----|----------------|-----------|-----------|-----------|
| 16 | | 16 | RV0MAI160 | 2 01 950 010 | 10 | 500 | 0.009 | 3 | 14 | 22 |
| 20 | | 16 | RV0MAI200 | 2 01 950 010 | 10 | 300 | 0.010 | 3 | 16 | 26 |
| 25 | | 16 | RV0MAI250 | 2 01 950 010 | 10 | 200 | 0.016 | 3 | 19 | 32 |
| 32 | | 16 | RV0MAI320 | 2 01 950 010 | 10 | 130 | 0.026 | 3 | 22 | 40 |
| 40 | | 16 | RV0MAI400 | 2 01 950 010 | 100 | 0 | 0.043 | 3 | 26 | 48 |
| 50 | | 16 | RV0MAI500 | 2 01 950 010 | 60 | 0 | 0.075 | 3 | 31 | 60 |
| 63 | | 16 | RV0MAI630 | 2 01 950 010 | 70 | 0 | 0.121 | 3 | 38 | 74 |
| 75 | 2 ½ | 16 | RV0MAI750 | 2 01 950 010 | 48 | 0 | 0.226 | 4 | 44 | 89 |
| 90 | | 16 | RV0MAI900 | 2 01 950 010 | 50 | 0 | 0.361 | 5 | 51 | 106 |
| 110 | | 16 | RV0MAI910 | 2 01 950 010 | 36 | 0 | 0.625 | 6 | 61 | 129 |
| 125 | | 16 | RV0MAI920 | 2 01 950 010 | 24 | 0 | 0.840 | 7 | 69 | 145 |
| 140 | 5 | 16 | RV0MAI930 | 2 01 950 010 | 14 | 0 | 1.100 | 8 | 76 | 162 |
| 160 | | 16 | RV0MAI940 | 2 01 950 010 | 9 | 0 | 1.400 | 8 | 86 | 184 |
| 200 | | 16 | RV0MAI960 | 2 01 950 010 | 4 | 0 | 2.560 | 10 | 106 | 227 |
| 225 | | 10 | RV0MAI970 | 2 01 950 010 | 2 | 0 | 3.540 | 10 | 119 | 252 |
| 250 | | 10 | RV0MAI980 | 2 01 950 013 | 22 | 0 | 5.250 | 10 | 131 | 287 |
| 315 | | 10 | RV0MAI991 | 2 01 950 013 | 12 | 0 | 10.000 | 12 | 164 | 355 |

Tee 90° PVC-U metric

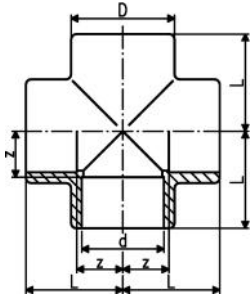


| d (mm) | d (inch) | PN (bar) | Code | PF | SP | GP | Weight (kg) | L (mm) | E (mm) | Z (mm) |
|-----------|-------------|-------------|------------------|--------------|----|-----|----------------|-----------|-----------|-----------|
| 16 | | 16 | RV0TII160 | 2 01 950 010 | 10 | 300 | 0.017 | 14 | 22 | 9 |
| 20 | | 16 | RV0TII200 | 2 01 950 010 | 10 | 200 | 0.029 | 16 | 26 | 11 |
| 25 | | 16 | RV0TII250 | 2 01 950 010 | 10 | 100 | 0.032 | 19 | 32 | 14 |
| 32 | | 16 | RV0TII320 | 2 01 950 010 | 10 | 130 | 0.055 | 22 | 40 | 17 |
| 40 | | 16 | RV0TII400 | 2 01 950 010 | 45 | 0 | 0.127 | 26 | 51 | 21 |
| 50 | | 16 | RV0TII500 | 2 01 950 010 | 50 | 0 | 0.185 | 31 | 61 | 26 |
| 63 | | 16 | RV0TII630 | 2 01 950 010 | 25 | 0 | 0.315 | 38 | 75 | 33 |
| 75 | 2 ½ | 16 | RV0TII750 | 2 01 950 010 | 35 | 0 | 0.523 | 44 | 89 | 39 |
| 90 | | 16 | RV0TII900 | 2 01 950 010 | 20 | 0 | 0.830 | 51 | 106 | 47 |
| 110 | | 16 | RV0TII910 | 2 01 950 010 | 14 | 0 | 1.430 | 61 | 129 | 57 |
| 125 | | 16 | RV0TII920 | 2 01 950 010 | 8 | 0 | 1.960 | 69 | 148 | 66 |
| 140 | 5 | 16 | RV0TII930 | 2 01 950 010 | 6 | 0 | 2.650 | 76 | 163 | 72 |
| 160 | | 16 | RV0TII940 | 2 01 950 010 | 4 | 0 | 4.350 | 86 | 190 | 82 |
| 200 | | 16 | RV0TII960 | 2 01 950 010 | 20 | 0 | 6.540 | 106 | 228 | 102 |
| 225 | | 10 | RV0TII970 | 2 01 950 010 | 15 | 0 | 8.630 | 119 | 255 | 115 |
| 250 | | 10 | RV0TII980 | 2 01 950 013 | 10 | 0 | 12.600 | 131 | 286 | 128 |
| 315 | | 10 | RV0TII991 | 2 01 950 013 | 4 | 0 | 23.400 | 161 | 360 | 162 |

PF 2 01 950 013

Cross 90° PVC-U metric

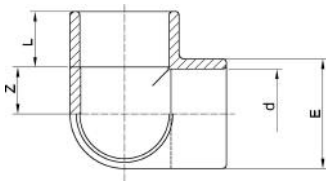
• (*) Traded items



| | d (mm) | PN (bar) | Code | SP | Weight (kg) | D (mm) | Z (mm) | L (mm) |
|---|------------------|--------------------|------------------|-----------|-----------------------|------------------|------------------|------------------|
| * | 20 | 16 | RV0CRI200 | 120 | 0.030 | 27.5 | 11 | 16 |
| * | 25 | 16 | RV0CRI250 | 80 | 0.060 | 33.5 | 14 | 19 |
| * | 32 | 16 | RV0CRI320 | 130 | 0.105 | 42.0 | 17 | 22 |
| * | 40 | 16 | RV0CRI400 | 35 | 0.175 | 51.0 | 21 | 26 |
| * | 50 | 16 | RV0CRI500 | 35 | 0.265 | 61.0 | 26 | 31 |
| * | 63 | 16 | RV0CRI630 | 18 | 0.505 | 75.0 | 33 | 38 |
| * | 75 | 10 | RV0CRI750 | 24 | 0.735 | 91.0 | 40 | 44 |
| * | 90 | 10 | RV0CRI900 | 18 | 1.180 | 106.0 | 46 | 51 |
| * | 110 | 10 | RV0CRI910 | 9 | 1.588 | 129.5 | 56 | 61 |

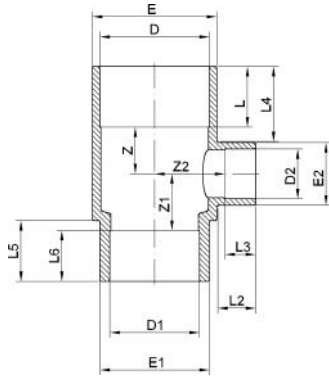
PF 2 01 950 010

Three way elbow PVC-U metric



| | d (mm) | PN (bar) | Code | SP | Weight (kg) | Z (mm) | L (mm) | E (mm) |
|--|------------------|--------------------|------------------|-----------|-----------------------|------------------|------------------|------------------|
| | 50 | 16 | RV0GT1500 | 50 | 0.155 | 26 | 31 | 61 |
| | 63 | 16 | RV0GT1630 | 25 | 0.250 | 33 | 38 | 75 |

PF 2 01 950 010



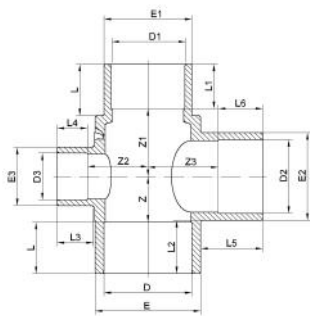
Manifold tee PVC-U metric

| E x D1 x D2 (mm) | PN (bar) | Code | SP | Weight (kg) |
|----------------------------|--------------------|------------------|-----------|-----------------------|
| 90 - 63 - 40 | 16 | RV0TDI900 | 18 | 0.500 |
| 140 - 110 - 50 | 16 | RV0TDI930 | 6 | 0.995 |

| E x D1 x D2 (mm) | D1 (mm) | D2 (mm) | Z1 (mm) | Z2 (mm) | E2 (mm) | E1 (mm) | L2 (mm) | L3 (mm) | D (mm) | L (mm) | L6 (mm) | E (mm) | L4 (mm) | L5 (mm) |
|----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|-------------------|------------------|-------------------|-------------------|
| 90 - 63 - 40 | 63 | 40 | 58 | 51 | 50 | 75 | 31 | 26 | 75 | 44 | 38 | 90 | 46 | 44 |
| 140 - 110 - 50 | 110 | 50 | 47 | 79 | 63 | 125 | 38 | 31 | 125 | 61 | 61 | 140 | 75 | 61 |

| E x D1 x D2 (mm) | Z (mm) |
|----------------------------|------------------|
| 90 - 63 - 40 | 39 |
| 140 - 110 - 50 | 47 |

PF 2 01 950 010



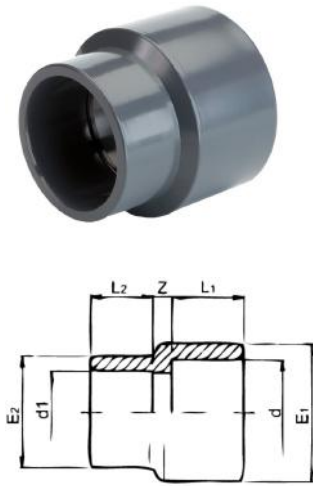
Adaptor cross PVC-U metric

| E x D2 x D3 (mm) | PN (bar) | Code | SP | Weight (kg) |
|----------------------------|--------------------|------------------|-----------|-----------------------|
| 90 - 63 - 40 | 16 | RV0TCI900 | 12 | 0.570 |

| E x D2 x D3 (mm) | E (mm) | Z1 (mm) | D1 (mm) | D2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | L6 (mm) | D (mm) | L (mm) | L2 (mm) | z3 (mm) | L1 (mm) | E3 (mm) |
|----------------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|
| 90 - 63 - 40 | 90 | 58 | 63 | 63 | 31 | 26 | 53 | 38 | 75 | 44 | 46 | 60 | 38 | 50 |

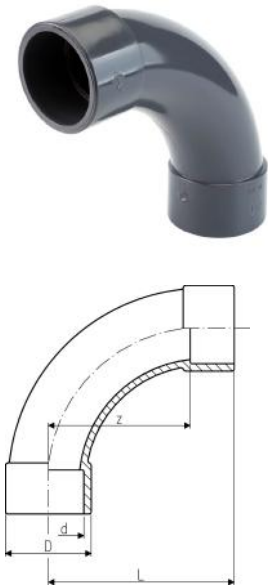
| E x D2 x D3 (mm) | Z (mm) | z2 (mm) | D3 (mm) | E2 (mm) | E1 (mm) |
|----------------------------|------------------|-------------------|-------------------|-------------------|-------------------|
| 90 - 63 - 40 | 39 | 52 | 40 | 75 | 75 |

Reducing socket PVC-U metric



| d - d1 (mm) | PN (bar) | Code | SP | Weight (kg) | Z (mm) | E2 (mm) | E1 (mm) | L2 (mm) | L1 (mm) |
|----------------|-------------|-----------|-----|----------------|-----------|------------|------------|------------|------------|
| 20 - 16 | 16 | RV0MRI20A | 270 | 0.010 | 6 | 23 | 28 | 14 | 16 |
| 25 - 20 | 16 | RV0MRI25B | 200 | 0.016 | 6 | 28 | 34 | 16 | 19 |
| 32 - 25 | 16 | RV0MRI32C | 150 | 0.027 | 6 | 34 | 42 | 19 | 22 |
| 40 - 32 | 16 | RV0MRI40D | 100 | 0.055 | 6 | 42 | 51 | 22 | 26 |
| 50 - 40 | 16 | RV0MRI50E | 60 | 0.081 | 6 | 51 | 61 | 26 | 31 |
| 63 - 50 | 16 | RV0MRI63F | 70 | 0.132 | 6 | 61 | 75 | 31 | 38 |
| 75 - 63 | 16 | RV0MRI75G | 50 | 0.215 | 4 | 75 | 89 | 38 | 44 |
| 90 - 75 | 16 | RV0MRI90H | 40 | 0.350 | 5 | 89 | 106 | 44 | 51 |
| 110 - 90 | 16 | RV0MRI91I | 48 | 0.550 | 6 | 106 | 129 | 51 | 61 |
| 125 - 110 | 16 | RV0MRI92L | 22 | 0.740 | 24 | 129 | 145 | 61 | 69 |
| 140 - 110 | 16 | RV0MRI93L | 18 | 0.970 | 25 | 129 | 160 | 61 | 76 |
| 140 - 125 | 16 | RV0MRI93M | 16 | 1.025 | 19 | 145 | 160 | 69 | 76 |
| 160 - 110 | 16 | RV0MRI94L | 12 | 1.220 | 24 | 130 | 181 | 61 | 86 |
| 160 - 140 | 16 | RV0MRI94N | 9 | 1.350 | 8 | 162 | 184 | 76 | 86 |
| 200 - 160 | 16 | RV0MRI96O | 6 | 2.360 | 24 | 184 | 227 | 86 | 106 |
| 225 - 200 | 10 | RV0MRI97Q | 4 | 3.220 | 10 | 227 | 255 | 106 | 119 |

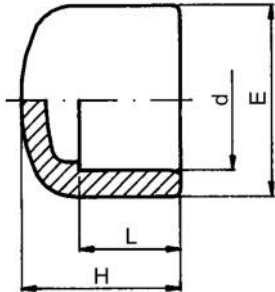
Bend 90° PVC-U metric



| d (mm) | d (inch) | PN (bar) | Code | PF | SP | Weight (kg) | L (mm) | D (mm) | z (mm) |
|-----------|-------------|-------------|-----------|--------------|----|----------------|-----------|-----------|-----------|
| 20 | | 16 | RV0CUI200 | 2 01 950 010 | 10 | 0.028 | 56 | 27 | 40 |
| 25 | | 16 | RV0CUI250 | 2 01 950 010 | 10 | 0.049 | 69 | 33 | 50 |
| 32 | | 16 | RV0CUI320 | 2 01 950 010 | 10 | 0.067 | 86 | 38 | 64 |
| 40 | | 16 | RV0CUI400 | 2 01 950 010 | 60 | 0.130 | 106 | 47 | 80 |
| 50 | | 16 | RV0CUI500 | 2 01 950 010 | 60 | 0.277 | 131 | 61 | 100 |
| 63 | | 16 | RV0CUI630 | 2 01 950 010 | 30 | 0.515 | 164 | 76 | 126 |
| 75 | 2 ½ | 16 | RV0CUI750 | 2 01 950 013 | 20 | 0.786 | 194 | 90 | 150 |
| 90 | | 16 | RV0CUI900 | 2 01 950 013 | 12 | 1.334 | 231 | 108 | 180 |
| 110 | | 16 | RV0CUI910 | 2 01 950 013 | 6 | 2.960 | 281 | 137 | 220 |

PF 2 01 950 010

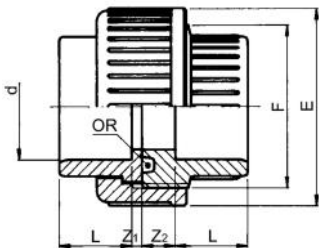
Cap PVC-U metric



| d (mm) | d (inch) | PN (bar) | Code | SP | GP | Weight (kg) | H (mm) | E (mm) | L (mm) |
|-----------|-------------|-------------|------------------|-----|-----|----------------|-----------|-----------|-----------|
| 16 | | 16 | RV0CAI160 | 10 | 600 | 0.005 | 22 | 22 | 14 |
| 20 | | 16 | RV0CAI200 | 10 | 500 | 0.008 | 26 | 26 | 16 |
| 25 | | 16 | RV0CAI250 | 10 | 400 | 0.013 | 30 | 32 | 19 |
| 32 | | 16 | RV0CAI320 | 10 | 200 | 0.022 | 33 | 40 | 22 |
| 40 | | 16 | RV0CAI400 | 100 | 0 | 0.045 | 41 | 51 | 26 |
| 50 | | 16 | RV0CAI500 | 80 | 0 | 0.065 | 46 | 61 | 31 |
| 63 | | 16 | RV0CAI630 | 50 | 0 | 0.110 | 55 | 75 | 38 |
| 75 | 2 ½ | 16 | RV0CAI750 | 25 | 0 | 0.187 | 64 | 89 | 44 |
| 90 | | 16 | RV0CAI900 | 20 | 0 | 0.301 | 73 | 106 | 51 |
| 110 | | 16 | RV0CAI910 | 25 | 0 | 0.510 | 87 | 129 | 61 |
| 125 | | 16 | RV0CAI920 | 36 | 0 | 0.665 | 98 | 145 | 69 |
| 140 | 5 | 16 | RV0CAI930 | 30 | 0 | 0.915 | 108 | 162 | 76 |
| 160 | | 16 | RV0CAI940 | 18 | 0 | 1.195 | 123 | 182 | 86 |
| 200 | | 16 | RV0CAI960 | 8 | 0 | 2.115 | 149 | 228 | 106 |
| 225 | | 10 | RV0CAI970 | 6 | 0 | 2.835 | 165 | 256 | 119 |

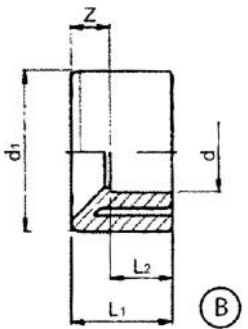
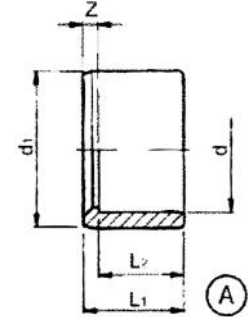
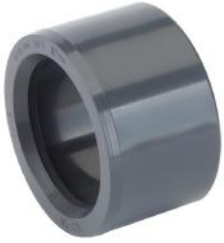
PF 2 01 950 010

Union with o-ring PVC-U metric



| d (mm) | d (inch) | PN (bar) | EPDM Code | SP | GP | Weight (kg) | Z1 (mm) | E (mm) | Z2 (mm) | L (mm) | F (inch) |
|-----------|-------------|-------------|------------------|-----|-----|----------------|------------|-----------|------------|-----------|-------------|
| 16 | | 16 | RV0BOI160 | 10 | 300 | 0.025 | 3 | 34 | 10 | 14 | ¾ |
| 20 | | 16 | RV0BOI200 | 10 | 200 | 0.042 | 3 | 42 | 10 | 16 | 1 |
| 25 | | 16 | RV0BOI250 | 10 | 100 | 0.066 | 3 | 52 | 10 | 19 | 1 ¼ |
| 32 | | 16 | RV0BOI320 | 10 | 60 | 0.093 | 3 | 59 | 10 | 22 | 1 ½ |
| 40 | | 16 | RV0BOI400 | 100 | 0 | 0.160 | 3 | 73 | 12 | 26 | 2 |
| 50 | | 16 | RV0BOI500 | 60 | 0 | 0.195 | 3 | 82 | 14 | 31 | 2 ¼ |
| 63 | | 16 | RV0BOI630 | 36 | 0 | 0.355 | 3 | 100 | 18 | 38 | 2 ¾ |
| 75 | 2 ½ | 16 | RV0BOI750 | 10 | 0 | 0.575 | 3 | 119 | 18 | 44 | 3 ½ |
| 90 | | 16 | RV0BOI900 | 15 | 0 | 0.765 | 5 | 134 | 18 | 51 | 4 |
| 110 | | 16 | RV0BOI910 | 18 | 0 | 1.285 | 5 | 163 | 18 | 61 | 5 |

Reducing bush PVC-U metric

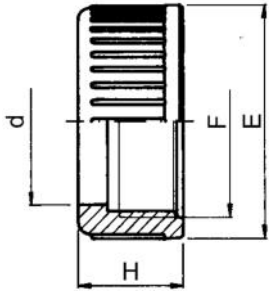


| | d1-d (mm) | PN (bar) | Code | PF | SP | GP | Weight (kg) | L2 (mm) | L1 (mm) | Z (mm) |
|---|--------------|-------------|------------|--------------|-----|-----|----------------|------------|------------|-----------|
| A | 20-16 | 16 | RVORCI20A | 2 01 950 010 | 10 | 800 | 0.003 | 14 | 16 | 2 |
| B | 25-16 | 16 | RVORCI25A | 2 01 950 010 | 10 | 600 | 0.008 | 14 | 19 | 5 |
| A | 25-20 | 16 | RVORCI25B | 2 01 950 010 | 10 | 600 | 0.005 | 16 | 19 | 3 |
| B | 32-16 | 16 | RVORCI32A | 2 01 950 010 | 10 | 400 | 0.015 | 14 | 22 | 8 |
| B | 32-20 | 16 | RVORCI32B | 2 01 950 010 | 10 | 400 | 0.015 | 16 | 22 | 6 |
| A | 32-25 | 16 | RVORCI32C | 2 01 950 010 | 10 | 400 | 0.010 | 19 | 22 | 3 |
| B | 40-20 | 16 | RVORCI40B | 2 01 950 010 | 10 | 200 | 0.025 | 16 | 26 | 10 |
| B | 40-25 | 16 | RVORCI40C | 2 01 950 010 | 10 | 200 | 0.027 | 19 | 26 | 7 |
| A | 40-32 | 16 | RVORCI40D | 2 01 950 010 | 10 | 200 | 0.016 | 22 | 26 | 4 |
| B | 50-25 | 16 | RVORCI50C | 2 01 950 010 | 180 | 0 | 0.045 | 19 | 31 | 12 |
| B | 50-32 | 16 | RVORCI50D | 2 01 950 010 | 180 | 0 | 0.042 | 22 | 31 | 9 |
| A | 50-40 | 16 | RVORCI50E | 2 01 950 010 | 180 | 0 | 0.030 | 26 | 31 | 5 |
| B | 63-32 | 16 | RVORCI63D | 2 01 950 010 | 100 | 0 | 0.083 | 22 | 38 | 16 |
| B | 63-40 | 16 | RVORCI63E | 2 01 950 010 | 100 | 0 | 0.081 | 26 | 38 | 12 |
| A | 63-50 | 16 | RVORCI63F | 2 01 950 010 | 100 | 0 | 0.062 | 31 | 38 | 7 |
| B | 75-40 | 16 | RVORCI75E | 2 01 950 010 | 60 | 0 | 0.120 | 26 | 44 | 18 |
| B | 75-50 | 16 | RVORCI75F | 2 01 950 010 | 60 | 0 | 0.122 | 31 | 44 | 13 |
| A | 75-63 | 16 | RVORCI75G | 2 01 950 010 | 60 | 0 | 0.082 | 38 | 44 | 6 |
| B | 90-50 | 16 | RVORCI90F | 2 01 950 010 | 30 | 0 | 0.210 | 31 | 51 | 20 |
| B | 90-63 | 16 | RVORCI90G | 2 01 950 010 | 30 | 0 | 0.195 | 38 | 51 | 13 |
| A | 90-75 | 16 | RVORCI90H | 2 01 950 010 | 30 | 0 | 0.140 | 44 | 51 | 7 |
| B | 110-63 | 16 | RVORCI91G | 2 01 950 010 | 20 | 0 | 0.365 | 38 | 61 | 23 |
| B | 110-75 | 16 | RVORCI91H | 2 01 950 010 | 20 | 0 | 0.365 | 44 | 61 | 17 |
| A | 110-90 | 16 | RVORCI91I | 2 01 950 010 | 20 | 0 | 0.273 | 51 | 61 | 10 |
| B | 125-75 | 16 | RVORCI92H | 2 01 950 010 | 30 | 0 | 0.412 | 44 | 69 | 25 |
| B | 125-90 | 16 | RVORCI92I | 2 01 950 010 | 30 | 0 | 0.450 | 51 | 69 | 18 |
| A | 125-110 | 16 | RVORCI92L | 2 01 950 010 | 30 | 0 | 0.273 | 61 | 69 | 8 |
| B | 140-90 | 16 | RVORCI93I | 2 01 950 010 | 22 | 0 | 0.550 | 51 | 76 | 25 |
| B | 140-110 | 16 | RVORCI93L | 2 01 950 010 | 22 | 0 | 0.475 | 61 | 76 | 15 |
| A | 140-125 | 16 | RVORCI93M | 2 01 950 010 | 22 | 0 | 0.340 | 69 | 76 | 7 |
| B | 160-110 | 16 | RVORCI94L | 2 01 950 010 | 13 | 0 | 0.795 | 61 | 86 | 25 |
| B | 160-125 | 16 | RVORCI94M | 2 01 950 010 | 13 | 0 | 0.725 | 69 | 86 | 17 |
| A | 160-140 | 16 | RVORCI94N | 2 01 950 010 | 13 | 0 | 0.545 | 76 | 86 | 10 |
| A | 180-160 | 16 | RVORCI95O | 2 01 950 010 | 20 | 0 | 0.710 | 86 | 96 | 10 |
| A | 200-160 | 16 | RVORCI96O | 2 01 950 010 | 15 | 0 | 1.645 | 86 | 106 | 10 |
| A | 200-180 | 16 | RVORCI96P | 2 01 950 010 | 15 | 0 | 0.870 | 96 | 106 | 10 |
| B | 225-160 | 10 | RVORCI97O | 2 01 950 010 | 9 | 0 | 2.300 | 86 | 119 | 33 |
| A | 225-200 | 10 | RVORCI97Q | 2 01 950 010 | 9 | 0 | 1.360 | 106 | 119 | 13 |
| B | 250-160 | 10 | RVORCI98O | 2 01 950 013 | 8 | 0 | 3.300 | 87 | 134 | 47 |
| B | 250-200 | 10 | RVORCI98Q | 2 01 950 013 | 8 | 0 | 2.735 | 107 | 134 | 27 |
| A | 250-225 | 10 | RVORCI98R | 2 01 950 013 | 8 | 0 | 1.700 | 120 | 132 | 12 |
| B | 315-200 | 10 | RVORCI991Q | 2 01 950 013 | 3 | 0 | 5.000 | 107 | 165 | 58 |
| B | 315-225 | 10 | RVORCI991R | 2 01 950 013 | 3 | 0 | 4.500 | 132 | 165 | 33 |
| B | 315-250 | 10 | RVORCI991S | 2 01 950 013 | 3 | 0 | 4.100 | 132 | 165 | 33 |

PF 2 01 950 010

Nut PVC-U

Suitable for BOI/BOF/BOP

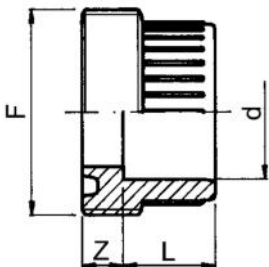


| d (mm) | PN (bar) | Code | SP | Weight (kg) | F (inch) | E (mm) | H (mm) |
|-----------|-------------|------------------|-----|----------------|-------------|-----------|-----------|
| 16 | 16 | RV0BGO160 | 450 | 0.013 | ¾ | 34 | 21 |
| 20 | 16 | RV0BGO200 | 400 | 0.015 | 1 | 42 | 23 |
| 25 | 16 | RV0BGO250 | 170 | 0.025 | 1 ¼ | 52 | 25 |
| 32 | 16 | RV0BGO320 | 180 | 0.035 | 1 ½ | 59 | 27 |
| 40 | 16 | RV0BGO400 | 100 | 0.060 | 2 | 72 | 30 |
| 50 | 16 | RV0BGO500 | 125 | 0.080 | 2 ¼ | 79 | 34 |
| 63 | 16 | RV0BGO630 | 100 | 0.130 | 2 ¾ | 96 | 38 |
| 75 | 16 | RV0BGO750 | 50 | 0.200 | 3 ½ | 119 | 45 |
| 90 | 16 | RV0BGO900 | 80 | 0.285 | 4 | 134 | 52 |
| 110 | 16 | RV0BGO910 | 50 | 0.445 | 5 | 163 | 60 |

PF 2 01 950 010

Union bush PVC-U

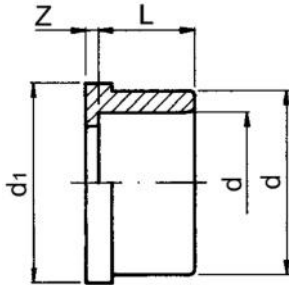
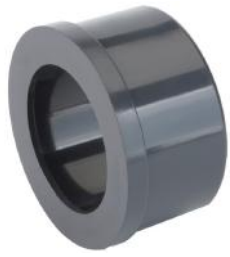
Suitable for BOI



| d (mm) | d (inch) | PN (bar) | Code | SP | Weight (kg) | F (inch) | Z (mm) | L (mm) |
|-----------|-------------|-------------|------------------|-----|----------------|-------------|-----------|-----------|
| 16 | | 16 | RV0BF1160 | 600 | 0.009 | ¾ | 10 | 14 |
| 20 | | 16 | RV0BF1200 | 350 | 0.015 | 1 | 10 | 16 |
| 25 | | 16 | RV0BF1250 | 250 | 0.024 | 1 ¼ | 10 | 19 |
| 32 | | 16 | RV0BF1320 | 160 | 0.034 | 1 ½ | 10 | 22 |
| 40 | | 16 | RV0BF1400 | 75 | 0.057 | 2 | 12 | 26 |
| 50 | | 16 | RV0BF1500 | 50 | 0.078 | 2 ¼ | 14 | 31 |
| 63 | | 16 | RV0BF1630 | 60 | 0.134 | 2 ¾ | 18 | 38 |
| 75 | 2 ½ | 16 | RV0BF1750 | 125 | 0.205 | 3 ½ | 18 | 44 |
| 90 | | 16 | RV0BF1900 | 80 | 0.270 | 4 | 18 | 51 |
| 110 | | 16 | RV0BF1910 | 48 | 0.465 | 5 | 18 | 61 |

Union end PVC-U

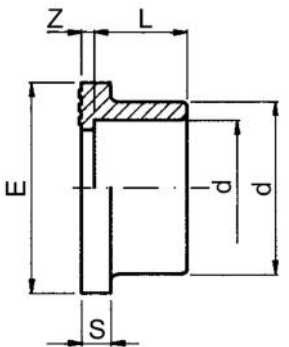
Suitable for BOI/BOP



| d (mm) | d (inch) | PN (bar) | Code | SP | GP Weight (kg) | Z (mm) | d1 (mm) | L (mm) |
|-----------|-------------|-------------|------------------|-----|-------------------|-----------|------------|-----------|
| 16 | | 16 | RV0BLI160 | 10 | 1000 | 0.006 | 3 | 24.0 |
| 20 | | 16 | RV0BLI200 | 10 | 500 | 0.009 | 3 | 30.1 |
| 25 | | 16 | RV0BLI250 | 10 | 300 | 0.016 | 3 | 38.8 |
| 32 | | 16 | RV0BLI320 | 215 | 0 | 0.022 | 3 | 44.7 |
| 40 | | 16 | RV0BLI400 | 120 | 0 | 0.040 | 3 | 56.5 |
| 50 | | 16 | RV0BLI500 | 110 | 0 | 0.041 | 3 | 62.6 |
| 63 | | 16 | RV0BLI630 | 130 | 0 | 0.080 | 3 | 78.4 |
| 75 | 2 ½ | 16 | RV0BLI750 | 165 | 0 | 0.150 | 3 | 97.2 |
| 90 | | 16 | RV0BLI900 | 100 | 0 | 0.195 | 5 | 110.0 |
| 110 | | 16 | RV0BLI910 | 66 | 0 | 0.350 | 5 | 135.4 |

Flange adaptor serrated PVC-U metric

• DN indicates the nominal diameter of the PVC pipe



| d (mm) | d (inch) | DN (mm) | PN (bar) | Code | PF | SP | GP Weight (kg) | Z (mm) | L (mm) | E (mm) | S (mm) | |
|-----------|-------------|------------|-------------|------------------|--------------|-----|-------------------|-----------|-----------|-----------|-----------|----|
| 20 | | 15 | 16 | RV0QRI200 | 2 01 950 010 | 10 | 360 | 0.010 | 3 | 16 | 34 | 6 |
| 25 | | 20 | 16 | RV0QRI250 | 2 01 950 010 | 10 | 300 | 0.017 | 3 | 19 | 41 | 7 |
| 32 | | 25 | 16 | RV0QRI320 | 2 01 950 010 | 10 | 200 | 0.026 | 3 | 22 | 50 | 7 |
| 40 | | 32 | 16 | RV0QRI400 | 2 01 950 010 | 140 | 0 | 0.040 | 3 | 26 | 61 | 8 |
| 50 | | 40 | 16 | RV0QRI500 | 2 01 950 010 | 140 | 0 | 0.060 | 3 | 31 | 73 | 8 |
| 63 | | 50 | 16 | RV0QRI630 | 2 01 950 010 | 90 | 0 | 0.105 | 3 | 38 | 90 | 9 |
| 75 | 2 ½ | 65 | 16 | RV0QRI750 | 2 01 950 010 | 50 | 0 | 0.170 | 3 | 44 | 106 | 10 |
| 90 | | 80 | 16 | RV0QRI900 | 2 01 950 010 | 38 | 0 | 0.279 | 5 | 51 | 125 | 11 |
| 110 | | 100 | 16 | RV0QRI910 | 2 01 950 010 | 24 | 0 | 0.444 | 5 | 61 | 150 | 12 |
| 125 | | 110 | 16 | RV0QRI920 | 2 01 950 010 | 25 | 0 | 0.560 | 5 | 69 | 168 | 13 |
| 140 | 5 | 125 | 16 | RV0QRI930 | 2 01 950 010 | 20 | 0 | 0.750 | 5 | 76 | 188 | 14 |
| 160 | | 150 | 16 | RV0QRI940 | 2 01 950 010 | 15 | 0 | 1.030 | 5 | 86 | 213 | 16 |
| 200 | | 200 | 16 | RV0QRI960 | 2 01 950 010 | 8 | 0 | 2.000 | 7 | 106 | 254 | 18 |
| 225 | | 200 | 10 | RV0QRI970 | 2 01 950 010 | 6 | 0 | 1.775 | 7 | 119 | 274 | 19 |
| 250 | | 250 | 10 | RV0QRI980 | 2 01 950 013 | 4 | 0 | 2.325 | 10 | 131 | 307 | 20 |
| 315 | | 300 | 10 | RV0QRI991 | 2 01 950 010 | 3 | 0 | 4.834 | 11 | 164 | 379 | 27 |

Flat gasket

• (*) Traded items
Suitable for flange adaptor RV0QRI



| d (mm) | EPDM Code | SP |
|-----------|----------------------|----|
| * | 16 2GRNPD160 | 10 |
| * | 20 2GRNPD200 | 10 |
| * | 25 2GRNPD250 | 10 |
| * | 32 2GRNPD320 | 10 |
| * | 40 2GRNPD400 | 10 |
| * | 50 2GRNPD500 | 10 |
| * | 63 2GRNPD630 | 10 |
| * | 75 2GRNPD750 | 10 |
| * | 90 2GRNPD900 | 10 |
| * | 110 2GRNPD910 | 10 |
| * | 125 2GRNPD920 | 10 |

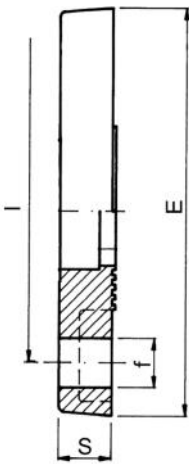
table continued on the next page

| | d (mm) | EPDM Code | SP |
|---|-----------|--------------|----|
| * | 140 | 2GRNPD930 | 10 |
| * | 160 | 2GRNPD940 | 10 |
| * | 200 | 2GRNPD960 | 10 |
| * | 225 | 2GRNPD970 | 6 |

PF 2 01 950 010

Backing flange PVC-U metric

- (**) Special flange with bolt holes for DN 140
- **DN** indicates the nominal diameter of the PVC pipe
Bolt holes PN10

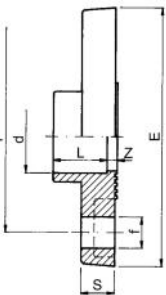


| | d (mm) | DN (mm) | PN (bar) | Code | SP | Weight (kg) | E (mm) | l (mm) | S (mm) | f (mm) |
|----|-----------|------------|-------------|-----------|-----|----------------|-----------|-----------|-----------|-----------|
| | 20 | 15 | 16 | RV0FLI200 | 120 | 0.067 | 95 | 65 | 11 | 14 |
| | 25 | 20 | 16 | RV0FLI250 | 100 | 0.090 | 105 | 75 | 12 | 14 |
| | 32 | 25 | 16 | RV0FLI320 | 50 | 0.116 | 115 | 85 | 14 | 14 |
| | 40 | 32 | 16 | RV0FLI400 | 35 | 0.185 | 140 | 100 | 15 | 18 |
| | 50 | 40 | 16 | RV0FLI500 | 70 | 0.215 | 150 | 110 | 16 | 18 |
| | 63 | 50 | 16 | RV0FLI630 | 45 | 0.300 | 165 | 125 | 18 | 18 |
| | 75 | 65 | 16 | RV0FLI750 | 50 | 0.355 | 185 | 145 | 19 | 18 |
| | 90 | 80 | 16 | RV0FLI900 | 38 | 0.435 | 200 | 160 | 20 | 18 |
| | 110 | 100 | 16 | RV0FLI910 | 24 | 0.520 | 220 | 180 | 22 | 18 |
| | 125 | 110 | 16 | RV0FLI920 | 25 | 0.570 | 230 | 190 | 24 | 18 |
| ** | 125 | 125 | 16 | RV0FAI920 | 20 | 0.819 | 250 | 210 | 26 | 18 |
| | 140 | 125 | 16 | RV0FLI930 | 20 | 0.700 | 250 | 210 | 26 | 18 |
| | 160 | 150 | 16 | RV0FLI940 | 15 | 0.975 | 285 | 240 | 28 | 22 |
| | 200 | 200 | 10 | RV0FLI960 | 8 | 1.230 | 340 | 295 | 30 | 22 |
| | 225 | 200 | 10 | RV0FLI970 | 6 | 1.315 | 340 | 295 | 30 | 22 |

PF 2 01 950 010

Fixed flange PVC-U metric

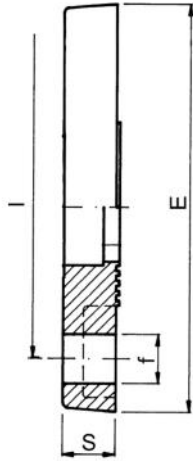
- **DN** indicates the nominal diameter of the PVC pipe



| | d (mm) | d (inch) | DN (mm) | PN (bar) | Code | SP | Weight (kg) | L (mm) | S (mm) | f (mm) | E (mm) | l (mm) | Z (mm) |
|--|-----------|-------------|------------|-------------|-----------|-----|----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 20 | | 15 | 16 | RV0FFI200 | 100 | 0.070 | 16 | 11 | 14 | 95 | 65 | 4.5 |
| | 25 | | 20 | 16 | RV0FFI250 | 70 | 0.105 | 19 | 12 | 14 | 105 | 75 | 4.5 |
| | 32 | | 25 | 16 | RV0FFI320 | 120 | 0.145 | 22 | 14 | 14 | 115 | 85 | 4.5 |
| | 40 | | 32 | 16 | RV0FFI400 | 60 | 0.220 | 26 | 15 | 18 | 140 | 100 | 4.5 |
| | 50 | | 40 | 16 | RV0FFI500 | 50 | 0.270 | 31 | 16 | 18 | 150 | 110 | 4.5 |
| | 63 | | 50 | 16 | RV0FFI630 | 40 | 0.380 | 38 | 18 | 18 | 165 | 125 | 4.5 |
| | 75 | 2 1/2 | 65 | 16 | RV0FFI750 | 20 | 0.505 | 44 | 19 | 18 | 185 | 145 | 6.0 |
| | 90 | | 80 | 16 | RV0FFI900 | 15 | 0.685 | 51 | 20 | 18 | 200 | 160 | 7.0 |
| | 110 | | 100 | 16 | RV0FFI910 | 10 | 0.940 | 61 | 22 | 18 | 220 | 180 | 8.0 |
| | 125 | | 110 | 10 | RV0FFI920 | 6 | 1.033 | 69 | 24 | 18 | 230 | 190 | 7.0 |
| | 140 | 5 | 125 | 10 | RV0FFI930 | 6 | 1.335 | 76 | 26 | 18 | 250 | 210 | 7.0 |
| | 160 | | 140 | 10 | RV0FFI940 | 5 | 1.853 | 86 | 28 | 18 | 285 | 240 | 7.0 |

PF 2 01 950 010

Blind flange PVC-U metric



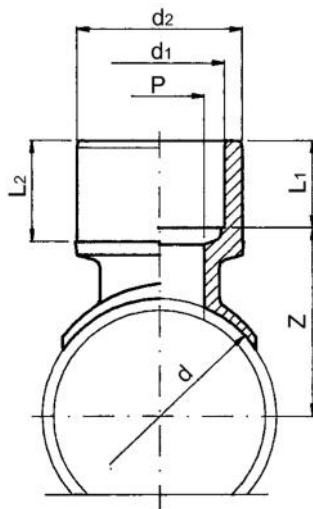
Bolt holes PN10

• **DN** indicates the nominal diameter of the PVC pipe

| d (mm) | DN (mm) | PN (bar) | Code | SP | Weight (kg) | f (mm) | S (mm) | l (mm) | E (mm) |
|-----------|------------|-------------|------------------|-----|----------------|-----------|-----------|-----------|-----------|
| 20 | 15 | 16 | RV0FCI200 | 120 | 0.073 | 14 | 11 | 65 | 95 |
| 25 | 20 | 16 | RV0FCI250 | 100 | 0.095 | 14 | 12 | 75 | 105 |
| 32 | 25 | 16 | RV0FCI320 | 140 | 0.135 | 14 | 14 | 85 | 115 |
| 40 | 32 | 16 | RV0FCI400 | 100 | 0.220 | 18 | 15 | 100 | 140 |
| 50 | 40 | 16 | RV0FCI500 | 70 | 0.270 | 18 | 16 | 110 | 150 |
| 63 | 50 | 16 | RV0FCI630 | 50 | 0.370 | 18 | 18 | 125 | 165 |
| 75 | 65 | 16 | RV0FCI750 | 45 | 0.495 | 18 | 19 | 145 | 185 |
| 90 | 80 | 16 | RV0FCI900 | 38 | 0.630 | 18 | 20 | 160 | 200 |
| 110 | 100 | 16 | RV0FCI910 | 25 | 0.840 | 18 | 22 | 180 | 220 |
| 125 | 110 | 16 | RV0FCI920 | 20 | 0.890 | 18 | 24 | 190 | 230 |
| 140 | 125 | 16 | RV0FCI930 | 18 | 1.000 | 18 | 26 | 210 | 250 |
| 160 | 150 | 16 | RV0FCI940 | 14 | 1.620 | 22 | 28 | 240 | 285 |
| 200 | 200 | 10 | RV0FCI960 | 8 | 2.480 | 22 | 30 | 295 | 340 |
| 225 | 200 | 10 | RV0FCI970 | 8 | 2.480 | 22 | 30 | 295 | 340 |

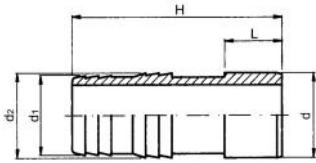
PF 2 01 950 011

Saddle socket M/F PVC-U metric



| d (mm) | d1 (mm) | d2 (mm) | PN (bar) | Code | SP | GP | Weight (kg) | Z (mm) | L2 (mm) | P (mm) | L1 (mm) |
|-----------|------------|------------|-------------|------------------|----|-----|----------------|-----------|------------|-----------|------------|
| 50 | 20 | 25 | 10 | DV0DEI50B | 15 | 150 | 0.012 | 43 | 19 | 14 | 16 |
| 50 | 32 | 40 | 10 | DV0DEI50D | 10 | 50 | 0.035 | 45 | 26 | 24 | 22 |
| 63 | 20 | 25 | 10 | DV0DEI63B | 15 | 150 | 0.013 | 49 | 19 | 14 | 16 |
| 63 | 25 | 32 | 10 | DV0DEI63C | 10 | 100 | 0.021 | 50 | 22 | 19 | 19 |
| 63 | 32 | 40 | 10 | DV0DEI63D | 10 | 50 | 0.035 | 51 | 26 | 24 | 22 |
| 75 | 50 | 63 | 10 | DV0DEI75F | 12 | 0 | 0.101 | 63 | 38 | 38 | 31 |
| 90 | 50 | 63 | 10 | DV0DEI90F | 12 | 0 | 0.108 | 71 | 38 | 38 | 31 |
| 90 | 63 | 75 | 10 | DV0DEI90G | 12 | 0 | 0.142 | 70 | 44 | 48 | 38 |
| 110 | 40 | 50 | 10 | DV0DEI91E | 30 | 0 | 0.058 | 78 | 31 | 30 | 26 |
| 110 | 50 | 63 | 10 | DV0DEI91F | 12 | 0 | 0.108 | 81 | 38 | 38 | 31 |
| 110 | 63 | 75 | 10 | DV0DEI91G | 12 | 0 | 0.137 | 80 | 44 | 48 | 38 |
| 125 | 50 | 63 | 10 | DV0DEI92F | 12 | 0 | 0.108 | 88 | 38 | 38 | 31 |
| 140 | 40 | 50 | 10 | DV0DEI93E | 30 | 0 | 0.059 | 93 | 31 | 30 | 26 |
| 140 | 63 | 75 | 10 | DV0DEI93G | 12 | 0 | 0.140 | 95 | 44 | 48 | 38 |
| 160 | 63 | 75 | 10 | DV0DEI94G | 12 | 0 | 0.137 | 105 | 44 | 48 | 38 |
| 200 | 63 | 75 | 10 | DV0DEI96G | 12 | 0 | 0.137 | 125 | 44 | 48 | 38 |
| 225 | 63 | 75 | 10 | DV0DEI97G | 12 | 0 | 0.137 | 138 | 44 | 48 | 38 |

Solvent cement hose adaptor PVC-U

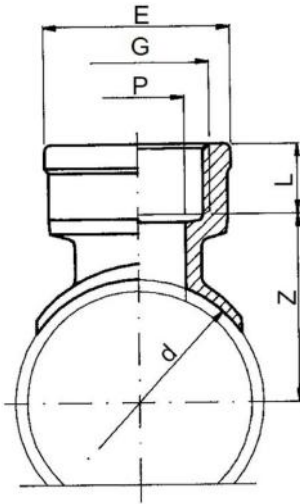


| d-d2-d1 (mm) | PN (bar) | Code | SP | GP | Weight (kg) | d2 (mm) | d1 (mm) | H (mm) | L (mm) |
|-----------------|-------------|------------------|-----|-----|----------------|------------|------------|-----------|-----------|
| 16 - 18 - 16 | 16 | RV0PGI160 | 10 | 400 | 0.007 | 18 | 16 | 60 | 14 |
| 20 - 22 - 20 | 16 | RV0PGI200 | 10 | 300 | 0.013 | 22 | 20 | 67 | 16 |
| 25 - 27 - 25 | 16 | RV0PGI250 | 10 | 200 | 0.021 | 27 | 25 | 74 | 19 |
| 32 - 32 - 30 | 16 | RV0PGI320 | 10 | 130 | 0.032 | 32 | 30 | 80 | 22 |
| 40 - 42 - 40 | 16 | RV0PGI400 | 100 | 0 | 0.055 | 42 | 40 | 92 | 26 |
| 50 - 52 - 50 | 16 | RV0PGI500 | 100 | 0 | 0.081 | 52 | 50 | 101 | 31 |
| 63 - 64 - 60 | 16 | RV0PGI630 | 60 | 0 | 0.142 | 64 | 60 | 111 | 38 |

PVC-U fittings B.S.P. threaded range

PF 2 01 950 011

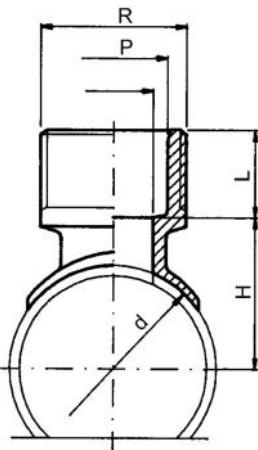
Saddle with female thread G PVC-U



| d (mm) | G (inch) | PN (bar) | Code | SP | GP | Weight (kg) | P (mm) | E (mm) | L (mm) | Z (mm) |
|-----------|-------------|-------------|-----------|----|-----|----------------|-----------|-----------|-----------|-----------|
| 32 | ¼ | 10 | DV0DEF32Z | 15 | 150 | 0.010 | 11 | 24.2 | 12.9 | 28.9 |
| 32 | ¾ | 10 | DV0DEF32A | 15 | 150 | 0.015 | 11 | 24.2 | 12.9 | 28.9 |
| 40 | ¾ | 10 | DV0DEF40A | 15 | 150 | 0.009 | 11 | 24.2 | 14.0 | 32.0 |
| 50 | ¼ | 10 | DV0DEF50Z | 15 | 150 | 0.010 | 11 | 24.2 | 12.9 | 37.9 |
| 50 | ¾ | 10 | DV0DEF50A | 15 | 150 | 0.015 | 11 | 24.2 | 14.0 | 37.0 |
| 50 | ½ | 10 | DV0DEF50B | 15 | 150 | 0.015 | 14 | 30.0 | 15.0 | 42.0 |
| 50 | ¾ | 10 | DV0DEF50C | 10 | 100 | 0.024 | 19 | 36.0 | 16.3 | 43.0 |
| 63 | ¾ | 10 | DV0DEF63A | 15 | 150 | 0.015 | 11 | 24.2 | 14.0 | 43.5 |
| 63 | ½ | 10 | DV0DEF63B | 10 | 150 | 0.015 | 14 | 30.0 | 15.0 | 48.0 |
| 63 | ¾ | 10 | DV0DEF63C | 10 | 100 | 0.023 | 19 | 36.0 | 16.3 | 49.0 |
| 75 | ¾ | 10 | DV0DEF75A | 15 | 150 | 0.016 | 11 | 24.2 | 14.0 | 49.5 |
| 75 | ¾ | 10 | DV0DEF75C | 10 | 100 | 0.023 | 19 | 36.0 | 16.3 | 55.0 |
| 75 | 1 | 10 | DV0DEF75D | 10 | 50 | 0.036 | 24 | 45.0 | 19.1 | 56.0 |
| 90 | ½ | 10 | DV0DEF90B | 15 | 150 | 0.013 | 14 | 30.0 | 15.0 | 62.0 |
| 90 | 1 | 10 | DV0DEF90D | 10 | 50 | 0.037 | 24 | 45.0 | 19.1 | 64.0 |
| 90 | 1 ½ | 10 | DV0DEF90F | 24 | 0 | 0.095 | 38 | 64.0 | 21.4 | 66.0 |
| 110 | ½ | 10 | DV0DEF91B | 15 | 150 | 0.010 | 14 | 30.0 | 15.0 | 72.0 |

PF 2 01 950 011

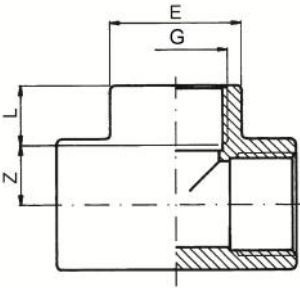
Saddle with male thread R PVC-U



| d (mm) | R (inch) | PN (bar) | Code | SP | GP | Weight (kg) | L (mm) | P (mm) | H (mm) |
|-----------|-------------|-------------|-----------|----|-----|----------------|-----------|-----------|-----------|
| 50 | ½ | 10 | DV0DMF50B | 15 | 150 | 0.012 | 15.0 | 14 | 42 |
| 90 | 1 ½ | 10 | DV0DMF90F | 12 | 0 | 0.065 | 21.4 | 38 | 66 |
| 110 | 1 | 10 | DV0DMF91D | 10 | 50 | 0.036 | 19.1 | 24 | 74 |
| 140 | 1 ½ | 10 | DV0DMF93F | 12 | 0 | 0.060 | 21.4 | 38 | 91 |

PF 2 01 951 010

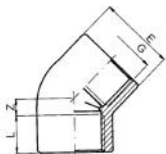
Threaded tee 90° G PVC-U



| G (inch) | PN (bar) | Code | SP | GP | Weight (kg) | L (mm) | Z (mm) | E (mm) |
|-------------|-------------|------------------|----|-----|----------------|-----------|-----------|-----------|
| 3/8 | 16 | RV0TIF160 | 10 | 280 | 0.018 | 11.4 | 11.6 | 23 |
| 1/2 | 16 | RV0TIF200 | 10 | 150 | 0.029 | 15.0 | 12.0 | 28 |
| 3/4 | 16 | RV0TIF250 | 10 | 100 | 0.050 | 16.3 | 16.7 | 34 |
| 1 | 16 | RV0TIF320 | 10 | 130 | 0.076 | 19.1 | 19.9 | 42 |
| 1 1/4 | 16 | RV0TIF400 | 90 | 0 | 0.125 | 21.4 | 25.6 | 51 |
| 1 1/2 | 16 | RV0TIF500 | 50 | 0 | 0.240 | 21.4 | 35.6 | 61 |
| 2 | 16 | RV0TIF630 | 25 | 0 | 0.435 | 25.7 | 45.3 | 75 |
| 1 1/2 | 16 | RV0TIF750 | 35 | 0 | 0.575 | 30.2 | 52.8 | 89 |
| 3 | 16 | RV0TIF900 | 24 | 0 | 0.965 | 33.3 | 64.7 | 106 |
| 4 | 16 | RV0TIF910 | 14 | 0 | 1.310 | 39.3 | 75.7 | 129 |

PF 2 01 951 010

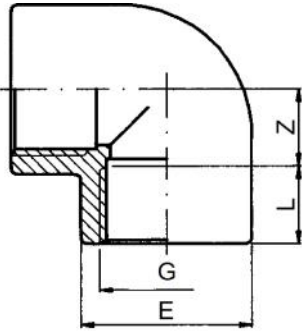
Threaded elbow 45° G PVC-U



| G (inch) | PN (bar) | Code | SP | GP | Weight (kg) | Z (mm) | L (mm) | E (mm) |
|-------------|-------------|------------------|-----|-----|----------------|-----------|-----------|-----------|
| 3/8 | 16 | RV0GYF160 | 10 | 400 | 0.010 | 11.6 | 11.4 | 23 |
| 1/2 | 16 | RV0GYF200 | 10 | 260 | 0.018 | 12.0 | 15.0 | 28 |
| 3/4 | 16 | RV0GYF250 | 10 | 150 | 0.031 | 16.7 | 16.3 | 34 |
| 1 | 16 | RV0GYF320 | 10 | 100 | 0.051 | 19.9 | 19.1 | 42 |
| 1 1/4 | 16 | RV0GYF400 | 80 | 0 | 0.075 | 25.6 | 21.4 | 51 |
| 1 1/2 | 16 | RV0GYF500 | 100 | 0 | 0.155 | 35.6 | 21.4 | 61 |
| 2 | 16 | RV0GYF630 | 50 | 0 | 0.275 | 45.3 | 25.7 | 75 |
| 1 1/2 | 16 | RV0GYF750 | 65 | 0 | 0.360 | 52.8 | 30.2 | 89 |
| 3 | 16 | RV0GYF900 | 40 | 0 | 0.620 | 64.7 | 33.3 | 106 |
| 4 | 16 | RV0GYF910 | 22 | 0 | 0.830 | 78.7 | 39.3 | 129 |

PF 2 01 951 010

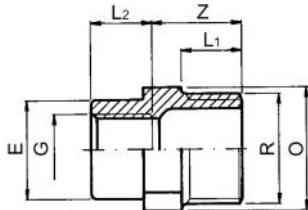
Threaded elbow 90° G PVC-U



| G (inch) | PN (bar) | Code | SP | GP | Weight (kg) | E (mm) | Z (mm) | L (mm) |
|-------------|-------------|------------------|-----|-----|----------------|-----------|-----------|-----------|
| 3/8 | 16 | RV0GOF160 | 10 | 360 | 0.015 | 23 | 44.6 | 11.4 |
| 1/2 | 16 | RV0GOF200 | 10 | 200 | 0.022 | 28 | 12.0 | 15.0 |
| 3/4 | 16 | RV0GOF250 | 10 | 160 | 0.037 | 34 | 16.7 | 16.3 |
| 1 | 16 | RV0GOF320 | 10 | 80 | 0.059 | 42 | 19.9 | 19.1 |
| 1 1/4 | 16 | RV0GOF400 | 130 | 0 | 0.094 | 51 | 25.6 | 21.4 |
| 1 1/2 | 16 | RV0GOF500 | 80 | 0 | 0.184 | 61 | 35.6 | 21.4 |
| 2 | 16 | RV0GOF630 | 40 | 0 | 0.320 | 75 | 45.3 | 25.7 |
| 2 1/2 | 16 | RV0GOF750 | 50 | 0 | 0.425 | 89 | 52.8 | 30.2 |
| 3 | 16 | RV0GOF900 | 30 | 0 | 0.770 | 106 | 64.7 | 33.3 |
| 4 | 16 | RV0GOF910 | 17 | 0 | 1.050 | 129 | 78.7 | 39.3 |

PF 2 01 951 010

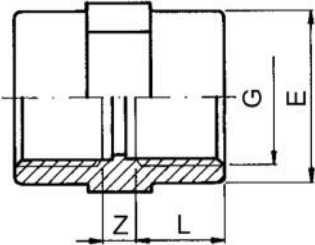
Threaded reducer R/G PVC-U



| R (inch) | G (inch) | PN (bar) | Code | SP | GP | Weight (kg) | O (mm) | Z (mm) | L1 (mm) | L2 (mm) | E (mm) |
|-------------|-------------|-------------|------------------|-----|-----|----------------|-----------|-----------|------------|------------|-----------|
| 1/2 | 3/8 | 16 | RV0RIF20A | 10 | 400 | 0.012 | 24 | 24 | 15.0 | 11.4 | 32 |
| 3/4 | 3/8 | 16 | RV0RIF25A | 10 | 280 | 0.016 | 30 | 25 | 16.3 | 11.4 | 23 |
| 3/4 | 1/2 | 16 | RV0RIF25B | 10 | 280 | 0.018 | 30 | 26 | 16.3 | 15.0 | 28 |
| 1 | 3/8 | 16 | RV0RIF32A | 10 | 160 | 0.024 | 36 | 28 | 19.1 | 11.4 | 23 |
| 1 | 1/2 | 16 | RV0RIF32B | 10 | 160 | 0.026 | 36 | 29 | 19.1 | 15.0 | 28 |
| 1 | 3/4 | 16 | RV0RIF32C | 10 | 160 | 0.026 | 36 | 30 | 19.1 | 16.3 | 34 |
| 1 1/4 | 1/2 | 16 | RV0RIF40B | 150 | 0 | 0.042 | 46 | 33 | 21.4 | 15.0 | 28 |
| 1 1/4 | 3/4 | 16 | RV0RIF40C | 150 | 0 | 0.045 | 46 | 33 | 21.4 | 16.3 | 34 |
| 1 1/4 | 1 | 16 | RV0RIF40D | 150 | 0 | 0.047 | 46 | 33 | 21.4 | 19.1 | 42 |
| 1 1/2 | 3/4 | 16 | RV0RIF50C | 120 | 0 | 0.050 | 50 | 34 | 21.4 | 16.3 | 34 |
| 1 1/2 | 1 | 16 | RV0RIF50D | 100 | 0 | 0.050 | 50 | 34 | 21.4 | 19.1 | 42 |
| 1 1/2 | 1 1/4 | 16 | RV0RIF50E | 100 | 0 | 0.060 | 55 | 34 | 21.4 | 21.4 | 51 |
| 2 | 1 | 16 | RV0RIF63D | 140 | 0 | 0.086 | 65 | 37 | 25.7 | 19.1 | 42 |
| 2 | 1 1/4 | 16 | RV0RIF63E | 140 | 0 | 0.085 | 65 | 37 | 25.7 | 21.4 | 51 |
| 2 | 1 1/2 | 16 | RV0RIF63F | 130 | 0 | 0.087 | 65 | 37 | 25.7 | 21.4 | 58 |
| 2 1/2 | 1 1/4 | 16 | RV0RIF75E | 170 | 0 | 0.140 | 80 | 43 | 30.2 | 21.4 | 51 |
| 2 1/2 | 1 1/2 | 16 | RV0RIF75F | 170 | 0 | 0.138 | 80 | 43 | 30.2 | 21.4 | 58 |
| 2 1/2 | 2 | 16 | RV0RIF75G | 150 | 0 | 0.142 | 80 | 43 | 30.2 | 25.7 | 72 |
| 3 | 1 1/2 | 16 | RV0RIF90F | 150 | 0 | 0.200 | 95 | 47 | 33.3 | 21.4 | 58 |
| 3 | 2 | 16 | RV0RIF90G | 125 | 0 | 0.205 | 95 | 47 | 33.3 | 25.7 | 72 |
| 3 | 2 1/2 | 16 | RV0RIF90H | 115 | 0 | 0.215 | 95 | 47 | 33.3 | 30.2 | 89 |
| 4 | 2 | 16 | RV0RIF91G | 85 | 0 | 0.330 | 120 | 53 | 39.3 | 25.7 | 72 |
| 4 | 2 1/2 | 16 | RV0RIF91H | 42 | 0 | 0.330 | 120 | 53 | 39.3 | 30.2 | 89 |
| 4 | 3 | 16 | RV0RIF91I | 60 | 0 | 0.350 | 120 | 53 | 39.3 | 33.3 | 103 |

PF 2 01 951 010

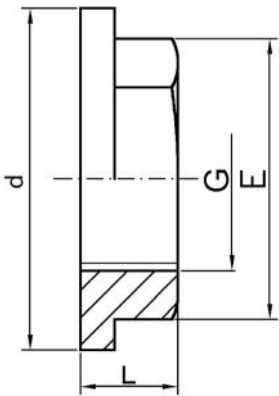
Threaded double socket G PVC-U



| G (inch) | PN (bar) | Code | SP | GP | Weight (kg) | Z (mm) | L (mm) | E (mm) |
|-------------|-------------|-----------|-----|-----|----------------|-----------|-----------|-----------|
| 3/8 | 16 | RV0MAF160 | 10 | 500 | 0.008 | 6 | 11.4 | 23 |
| 1/2 | 16 | RV0MAF200 | 10 | 250 | 0.017 | 7 | 15.0 | 28 |
| 3/4 | 16 | RV0MAF250 | 10 | 180 | 0.024 | 7 | 16.3 | 34 |
| 1 | 16 | RV0MAF320 | 10 | 130 | 0.042 | 8 | 19.1 | 42 |
| 1 1/4 | 16 | RV0MAF400 | 220 | 0 | 0.060 | 8 | 21.4 | 51 |
| 1 1/2 | 16 | RV0MAF500 | 180 | 0 | 0.073 | 8 | 21.4 | 58 |
| 2 | 16 | RV0MAF630 | 100 | 0 | 0.123 | 8 | 25.7 | 72 |
| 2 1/2 | 16 | RV0MAF750 | 120 | 0 | 0.200 | 9 | 30.2 | 89 |
| 3 | 16 | RV0MAF900 | 84 | 0 | 0.280 | 10 | 33.3 | 103 |
| 4 | 16 | RV0MAF910 | 44 | 0 | 0.441 | 11 | 39.3 | 130 |
| 6 | 16 | RV0MAF940 | 9 | 0 | 1.400 | 84 | 48.0 | 182 |

PF 2 01 950 013

Threaded nut G PVC-U

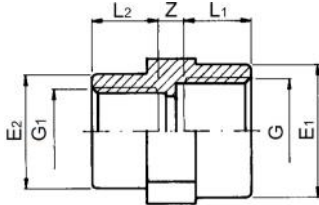


• (*) Traded items

| | G (inch) | PN (bar) | Code | SP | GP | Weight (kg) | d (mm) | L (mm) | E (mm) |
|---|-------------|-------------|-----------|-----|------|----------------|-----------|-----------|-----------|
| * | 1/2 | 16 | RV0DAF200 | 10 | 800 | 0.009 | 38 | 13 | 29 |
| * | 3/4 | 16 | RV0DAF250 | 10 | 1250 | 0.011 | 43 | 14 | 34 |
| * | 1 | 16 | RV0DAF320 | 10 | 600 | 0.026 | 56 | 16 | 46 |
| * | 1 1/4 | 16 | RV0DAF400 | 10 | 450 | 0.029 | 65 | 18 | 50 |
| * | 1 1/2 | 16 | RV0DAF500 | 300 | 0 | 0.043 | 72 | 19 | 60 |
| * | 2 | 16 | RV0DAF630 | 150 | 0 | 0.089 | 94 | 21 | 80 |
| * | 2 1/2 | 16 | RV0DAF750 | 120 | 0 | 0.094 | 115 | 24 | 94 |
| * | 3 | 16 | RV0DAF900 | 80 | 0 | 0.138 | 130 | 27 | 108 |
| * | 4 | 16 | RV0DAF910 | 45 | 0 | 0.205 | 162 | 30 | 135 |

PF 2 01 951 010

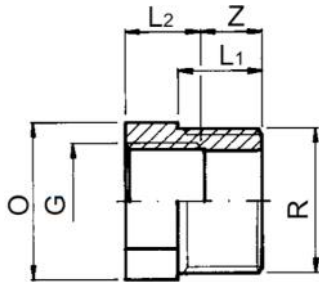
Threaded reducing socket G PVC-U



| G (inch) | G1 (inch) | PN (bar) | Code | SP | GP | Weight (kg) | L2 (mm) | L1 (mm) | E1 (mm) | E2 (mm) | Z (mm) |
|-------------|--------------|-------------|------------------|-----|-----|----------------|------------|------------|------------|------------|-----------|
| ½ | ¾ | 16 | RV0MRF20A | 10 | 250 | 0.017 | 11.4 | 15.0 | 28.0 | 23.0 | 6 |
| ¾ | 1½ | 16 | RV0MRF25B | 10 | 200 | 0.024 | 15.0 | 16.3 | 34.0 | 28.0 | 7 |
| 1 | ¾ | 16 | RV0MRF32C | 10 | 120 | 0.040 | 16.3 | 19.1 | 42.0 | 34.0 | 7 |
| 1 ¼ | 1 | 16 | RV0MRF40D | 190 | 0 | 0.060 | 19.1 | 21.4 | 51.0 | 42.0 | 8 |
| 1 ½ | 1 ¼ | 16 | RV0MRF50E | 165 | 0 | 0.072 | 21.4 | 21.4 | 58.0 | 51.0 | 8 |
| 2 | 1 ¼ | 16 | RV0MRF63F | 80 | 0 | 0.115 | 21.4 | 25.7 | 72.0 | 58.0 | 8 |
| 2 ½ | 2 | 16 | RV0MRF75G | 130 | 0 | 0.128 | 25.7 | 30.2 | 89.0 | 72.0 | 8 |
| 3 | 2 ½ | 16 | RV0MRF90H | 80 | 0 | 0.286 | 30.2 | 33.3 | 103.0 | 89.0 | 9 |
| 4 | 3 | 16 | RV0MRF91I | 54 | 0 | 0.436 | 33.3 | 39.3 | 130.0 | 103.0 | 10 |

PF 2 01 951 010

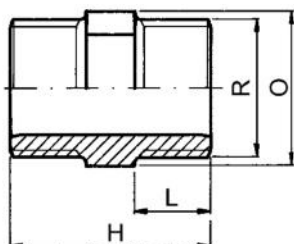
Threaded reducing bush R/G PVC-U



| R (inch) | G (inch) | PN (bar) | Code | SP | GP | Weight (kg) | O (mm) | L1 (mm) | L2 (mm) | Z (mm) |
|-------------|-------------|-------------|------------------|-----|-----|----------------|-----------|------------|------------|-----------|
| ¾ | ½ | 16 | RV0RCF25B | 10 | 300 | 0.013 | 30 | 16.3 | 15.0 | 13.3 |
| 1 | ¾ | 16 | RV0RCF32C | 10 | 250 | 0.019 | 36 | 19.1 | 16.3 | 14.8 |
| 1 ¼ | 1 | 16 | RV0RCF40D | 200 | 0 | 0.033 | 46 | 21.4 | 19.1 | 16.3 |
| 1 ½ | 1 ¼ | 16 | RV0RCF50E | 160 | 0 | 0.028 | 50 | 21.4 | 21.4 | 14.0 |
| 2 | 1 ½ | 16 | RV0RCF63F | 200 | 0 | 0.067 | 65 | 25.7 | 21.4 | 18.3 |
| 2 ½ | 2 | 16 | RV0RCF75G | 200 | 0 | 0.135 | 80 | 30.2 | 25.7 | 20.5 |
| 3 | 2 ½ | 16 | RV0RCF90H | 165 | 0 | 0.160 | 95 | 33.3 | 30.2 | 20.1 |
| 4 | 3 | 16 | RV0RCF91I | 90 | 0 | 0.290 | 120 | 39.3 | 33.3 | 24.0 |

PF 2 01 951 010

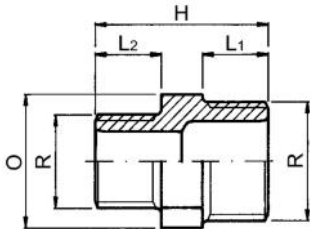
Threaded nipple R PVC-U



| R (inch) | PN (bar) | Code | SP | GP | Weight (kg) | H (mm) | L (mm) | O (mm) |
|-------------|-------------|------------------|-----|-----|----------------|-----------|-----------|-----------|
| ¾ | 16 | RV0NIF160 | 10 | 600 | 0.007 | 33 | 11.4 | 22 |
| ½ | 16 | RV0NIF200 | 10 | 400 | 0.011 | 42 | 15.0 | 24 |
| ¾ | 16 | RV0NIF250 | 10 | 280 | 0.018 | 44 | 16.3 | 30 |
| 1 | 16 | RV0NIF320 | 10 | 160 | 0.028 | 50 | 19.1 | 36 |
| 1 ¼ | 16 | RV0NIF400 | 130 | 0 | 0.049 | 58 | 21.4 | 46 |
| 1 ½ | 16 | RV0NIF500 | 90 | 0 | 0.051 | 58 | 21.4 | 50 |
| 2 | 16 | RV0NIF630 | 125 | 0 | 0.095 | 66 | 25.7 | 65 |
| 2 ½ | 16 | RV0NIF750 | 140 | 0 | 0.142 | 76 | 30.2 | 80 |
| 3 | 16 | RV0NIF900 | 90 | 0 | 0.221 | 85 | 33.3 | 95 |
| 4 | 16 | RV0NIF910 | 45 | 0 | 0.345 | 96 | 39.3 | 120 |

PF 2 01 951 010

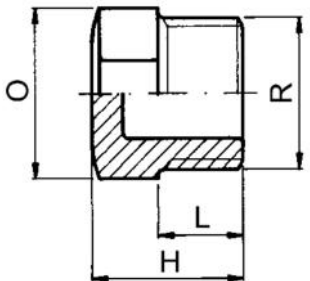
Threaded reducing nipple R PVC-U



| R-R (inch) | PN (bar) | Code | SP | GP | Weight (kg) | L1 (mm) | L2 (mm) | H (mm) | O (mm) |
|---------------|-------------|------------------|-----|-----|----------------|------------|------------|-----------|-----------|
| ½ - ¾ | 16 | RV0NRF20A | 10 | 400 | 0.011 | 15.0 | 11.4 | 38 | 24 |
| ¾ - 1 | 16 | RV0NRF25B | 10 | 280 | 0.017 | 16.3 | 15.0 | 43 | 30 |
| 1 - 1 ¼ | 16 | RV0NRF32C | 10 | 180 | 0.026 | 19.1 | 16.3 | 47 | 36 |
| 1 ¼ - 1 ½ | 16 | RV0NRF40D | 150 | 0 | 0.043 | 21.4 | 19.1 | 56 | 46 |
| 1 ½ - 2 | 16 | RV0NRF50E | 100 | 0 | 0.048 | 21.4 | 21.4 | 58 | 50 |
| 2 - 2 ½ | 16 | RV0NRF63F | 130 | 0 | 0.081 | 25.7 | 21.4 | 62 | 65 |
| 2 ½ - 3 | 16 | RV0NRF75G | 110 | 0 | 0.140 | 30.2 | 25.7 | 73 | 80 |
| 3 - 3 ½ | 16 | RV0NRF90H | 50 | 0 | 0.208 | 33.3 | 30.2 | 82 | 95 |
| 4 - 4 ½ | 16 | RV0NRF91I | 36 | 0 | 0.339 | 39.3 | 33.3 | 90 | 120 |

PF 2 01 951 010

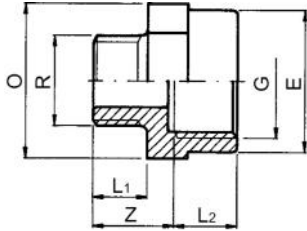
Threaded plug R PVC-U



| R (inch) | PN (bar) | Code | SP | GP | Weight (kg) | H (mm) | O (mm) | L (mm) |
|-------------|-------------|------------------|-----|-----|----------------|-----------|-----------|-----------|
| ¾ | 16 | RV0TAF160 | 10 | 700 | 0.008 | 24 | 22 | 11.4 |
| 1 | 16 | RV0TAF200 | 10 | 500 | 0.009 | 29 | 24 | 15.0 |
| 1 ¼ | 16 | RV0TAF250 | 10 | 320 | 0.016 | 30 | 30 | 16.3 |
| 1 ½ | 16 | RV0TAF320 | 10 | 250 | 0.023 | 33 | 36 | 19.1 |
| 2 | 16 | RV0TAF400 | 200 | 0 | 0.041 | 39 | 46 | 21.4 |
| 2 ½ | 16 | RV0TAF500 | 150 | 0 | 0.045 | 39 | 50 | 21.4 |
| 3 | 16 | RV0TAF630 | 180 | 0 | 0.080 | 43 | 65 | 25.7 |
| 3 ½ | 16 | RV0TAF750 | 100 | 0 | 0.140 | 51 | 80 | 30.2 |
| 4 | 16 | RV0TAF900 | 65 | 0 | 0.210 | 55 | 95 | 33.3 |
| 4 ½ | 16 | RV0TAF910 | 40 | 0 | 0.340 | 61 | 120 | 39.3 |

PF 2 01 951 010

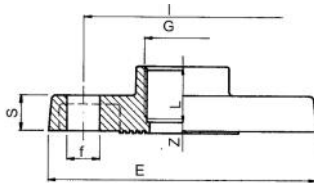
Threaded increaser R/G PVC-U



| R (inch) | G (inch) | PN (bar) | Code | SP | Weight (kg) | L1 (mm) | L2 (mm) | O (mm) | Z (mm) | E (mm) |
|-------------|-------------|-------------|------------------|-----|----------------|------------|------------|-----------|-----------|-----------|
| 3/8 | 1/2 | 16 | RV0MGF16B | 500 | 0.016 | 11.4 | 15.0 | 30 | 22 | 28 |
| 1/2 | 3/4 | 16 | RV0MGF20C | 300 | 0.020 | 15.0 | 16.3 | 36 | 24 | 34 |
| 3/4 | 1 | 16 | RV0MGF25D | 350 | 0.037 | 16.3 | 19.1 | 46 | 26 | 42 |
| 1 | 1 1/4 | 16 | RV0MGF32E | 250 | 0.059 | 19.1 | 21.4 | 55 | 30 | 51 |
| 1 1/4 | 1 1/2 | 16 | RV0MGF40F | 180 | 0.074 | 21.4 | 21.4 | 60 | 33 | 58 |
| 1 1/2 | 2 | 16 | RV0MGF50G | 100 | 0.113 | 21.4 | 25.7 | 75 | 34 | 72 |
| 2 | 2 1/2 | 16 | RV0MGF63H | 60 | 0.187 | 25.7 | 30.2 | 90 | 38 | 89 |
| 2 1/2 | 3 | 16 | RV0MGF75I | 54 | 0.262 | 30.2 | 33.3 | 105 | 44 | 103 |
| 3 | 4 | 16 | RV0MGF90L | 34 | 0.416 | 33.3 | 39.3 | 130 | 48 | 128 |

PF 2 01 951 010

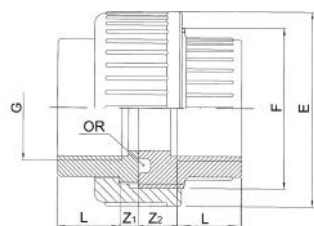
Threaded fixed flange G PVC-U



| G (inch) | DN (mm) | PN (bar) | Code | SP | Weight (kg) | Z (mm) | E (mm) | l (mm) | S (mm) | f (mm) | L (mm) |
|-------------|------------|-------------|------------------|-----|----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1/2 | 15 | 16 | RV0FFF200 | 100 | 0.070 | 5.5 | 95 | 65 | 11 | 14 | 15.0 |
| 3/4 | 20 | 16 | RV0FFF250 | 70 | 0.105 | 7.5 | 105 | 75 | 12 | 14 | 16.3 |
| 1 | 25 | 16 | RV0FFF320 | 120 | 0.148 | 7.5 | 115 | 85 | 14 | 14 | 19.1 |
| 1 1/4 | 32 | 16 | RV0FFF400 | 60 | 0.220 | 9.0 | 140 | 100 | 15 | 18 | 21.4 |
| 1 1/2 | 40 | 16 | RV0FFF500 | 50 | 0.285 | 14.0 | 150 | 110 | 16 | 18 | 21.4 |
| 2 | 50 | 16 | RV0FFF630 | 40 | 0.420 | 17.0 | 165 | 125 | 18 | 18 | 25.7 |
| 2 1/2 | 65 | 16 | RV0FFF750 | 20 | 0.520 | 20.0 | 185 | 145 | 19 | 18 | 30.2 |
| 3 | 80 | 16 | RV0FFF900 | 15 | 0.735 | 25.0 | 200 | 160 | 20 | 18 | 30.3 |
| 4 | 100 | 16 | RV0FFF910 | 10 | 0.923 | 30.0 | 220 | 180 | 22 | 18 | 39.9 |

PF 2 01 951 010

Threaded union G with o-ring PVC-U

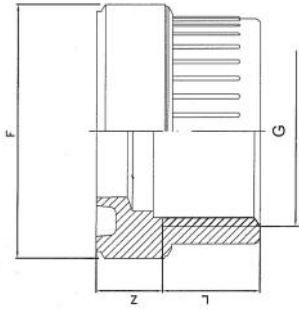


| G (inch) | PN (bar) | EPDM Code | SP | GP | Weight (kg) | E (mm) | Z1 (mm) | Z2 (mm) | L (mm) | F (inch) |
|-------------|-------------|------------------|----|-----|----------------|-----------|------------|------------|-----------|-------------|
| 3/8 | 16 | RV0BOF160 | 10 | 250 | 0.027 | 34.0 | 5.6 | 13.6 | 11 | 3/4 |
| 1/2 | 16 | RV0BOF200 | 10 | 150 | 0.042 | 42.0 | 4.0 | 11.0 | 15 | 1 |
| 3/4 | 16 | RV0BOF250 | 10 | 100 | 0.068 | 52.0 | 5.7 | 12.7 | 16 | 1 1/4 |
| 1 | 16 | RV0BOF320 | 10 | 60 | 0.095 | 59.0 | 5.9 | 12.9 | 19 | 1 1/2 |
| 1 1/4 | 16 | RV0BOF400 | 90 | 0 | 0.165 | 72.0 | 7.6 | 16.6 | 21 | 2 |
| 1 1/2 | 16 | RV0BOF500 | 60 | 0 | 0.230 | 79.0 | 12.6 | 23.6 | 21 | 2 1/4 |
| 2 | 16 | RV0BOF630 | 36 | 0 | 0.410 | 96.0 | 15.3 | 30.3 | 26 | 2 3/4 |
| 2 1/2 | 16 | RV0BOF750 | 20 | 0 | 0.600 | 119.0 | 16.8 | 31.8 | 30 | 3 1/2 |
| 3 | 16 | RV0BOF900 | 15 | 0 | 0.770 | 134.0 | 22.7 | 35.7 | 33 | 4 |
| 4 | 16 | RV0BOF910 | 18 | 0 | 1.280 | 163.0 | 26.7 | 39.7 | 39 | 5 |

PF 2 01 951 010

Union bush G PVC-U

Suitable for BOF/BOP

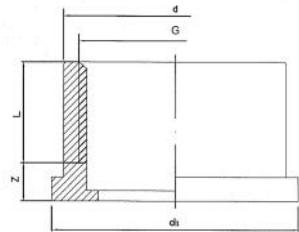


| G (inch) | PN (bar) | Code | SP | Weight (kg) | F (inch) | Z (mm) | L (mm) |
|--------------------|--------------------|------------------|-----------|-----------------------|--------------------|------------------|------------------|
| 3/8 | 16 | RV0BFF160 | 600 | 0.010 | 3/8 | 13.6 | 11.4 |
| 1/2 | 16 | RV0BFF200 | 300 | 0.016 | 1 | 11.0 | 15.0 |
| 3/4 | 16 | RV0BFF250 | 180 | 0.027 | 1 1/4 | 12.7 | 16.3 |
| 1 | 16 | RV0BFF320 | 500 | 0.036 | 1 1/2 | 12.9 | 19.1 |
| 1 1/4 | 16 | RV0BFF400 | 160 | 0.060 | 2 | 16.6 | 21.4 |
| 1 1/2 | 16 | RV0BFF500 | 50 | 0.104 | 2 1/4 | 23.6 | 21.4 |
| 2 | 16 | RV0BFF630 | 60 | 0.168 | 2 3/4 | 30.3 | 25.7 |
| 2 1/2 | 16 | RV0BFF750 | 125 | 0.235 | 3 1/2 | 31.8 | 30.2 |
| 3 | 16 | RV0BFF900 | 80 | 0.335 | 4 | 35.7 | 33.3 |
| 4 | 16 | RV0BFF910 | 48 | 0.470 | 5 | 39.7 | 39.3 |

PF 2 01 951 010

Union end G PVC-U

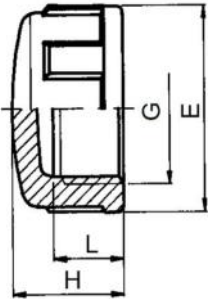
Suitable for BOF



| G (inch) | PN (bar) | Code | SP | Weight (kg) | d (mm) | L (mm) | d1 (mm) | Z (mm) |
|--------------------|--------------------|------------------|-----------|-----------------------|------------------|------------------|-------------------|------------------|
| 3/8 | 16 | RV0BLF160 | 1000 | 0.007 | 22.0 | 11.4 | 24.0 | 5.6 |
| 1/2 | 16 | RV0BLF200 | 600 | 0.010 | 27.5 | 15.0 | 30.1 | 4.0 |
| 3/4 | 16 | RV0BLF250 | 300 | 0.017 | 36.0 | 16.3 | 38.8 | 5.7 |
| 1 | 16 | RV0BLF320 | 650 | 0.023 | 41.5 | 19.1 | 44.7 | 5.9 |
| 1 1/4 | 16 | RV0BLF400 | 125 | 0.042 | 53.0 | 21.4 | 56.5 | 7.6 |
| 1 1/2 | 16 | RV0BLF500 | 85 | 0.065 | 59.0 | 21.4 | 62.6 | 12.6 |
| 2 | 16 | RV0BLF630 | 45 | 0.120 | 74.0 | 25.7 | 78.4 | 15.3 |
| 2 1/2 | 16 | RV0BLF750 | 165 | 0.160 | 92.5 | 30.2 | 97.2 | 16.8 |
| 3 | 16 | RV0BLF900 | 100 | 0.235 | 105.0 | 33.3 | 110.0 | 22.7 |
| 4 | 16 | RV0BLF910 | 66 | 0.340 | 129.0 | 39.3 | 135.4 | 26.7 |

PF 2 01 951 010

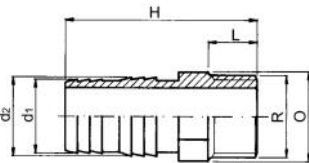
Threaded cap G PVC-U



| G (inch) | PN (bar) | Code | SP | GP | Weight (kg) | L (mm) | H (mm) | E (mm) |
|-------------|-------------|------------------|-----|-----|----------------|-----------|-----------|-----------|
| 3/8 | 16 | RV0CAF160 | 10 | 600 | 0.008 | 11.4 | 22.0 | 23 |
| 1/2 | 16 | RV0CAF200 | 10 | 500 | 0.008 | 15.0 | 21.0 | 28 |
| 3/4 | 16 | RV0CAF250 | 10 | 400 | 0.013 | 16.3 | 23.0 | 34 |
| 1 | 16 | RV0CAF320 | 10 | 250 | 0.022 | 19.1 | 26.0 | 42 |
| 1 1/4 | 16 | RV0CAF400 | 160 | 0 | 0.035 | 21.4 | 29.0 | 51 |
| 1 1/2 | 16 | RV0CAF500 | 80 | 0 | 0.050 | 21.4 | 32.0 | 61 |
| 2 | 16 | RV0CAF630 | 50 | 0 | 0.080 | 25.7 | 37.0 | 75 |
| 2 1/2 | 16 | RV0CAF750 | 90 | 0 | 0.190 | 30.2 | 50.0 | 89 |
| 3 | 16 | RV0CAF900 | 60 | 0 | 0.270 | 33.3 | 53.0 | 103 |
| 4 | 16 | RV0CAF910 | 34 | 0 | 0.435 | 39.3 | 59.0 | 130 |

PF 2 01 951 010

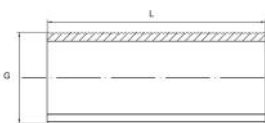
Threaded hose adaptor R PVC-U



| R (inch) | PN (bar) | Code | SP | GP | Weight (kg) | O (mm) | L (mm) | H (mm) | d1 (mm) | d2 (mm) |
|-------------|-------------|------------------|-----|-----|----------------|-----------|-----------|-----------|------------|------------|
| 3/8 | 16 | RV0PGF160 | 10 | 400 | 0.009 | 22 | 11.4 | 56.0 | 16 | 18 |
| 1/2 | 16 | RV0PGF200 | 10 | 280 | 0.016 | 24 | 15.0 | 66.0 | 20 | 22 |
| 3/4 | 16 | RV0PGF250 | 10 | 180 | 0.024 | 30 | 16.3 | 71.3 | 25 | 27 |
| 1 | 16 | RV0PGF320 | 10 | 130 | 0.035 | 36 | 19.1 | 77.1 | 30 | 32 |
| 1 1/4 | 16 | RV0PGF400 | 85 | 0 | 0.061 | 46 | 21.4 | 87.4 | 40 | 42 |
| 1 1/2 | 16 | RV0PGF500 | 130 | 0 | 0.074 | 50 | 21.4 | 91.4 | 50 | 52 |
| 2 | 16 | RV0PGF630 | 70 | 0 | 0.126 | 65 | 25.7 | 98.7 | 60 | 64 |

PF 2 01 950 013

Threaded Bar



| R (inch) | Code | SP | GP | Weight (kg) | L (mm) | L1 (mm) | Z (mm) | H (mm) |
|-------------|------------------|-----|-----|----------------|-----------|------------|-----------|-----------|
| 1/2 | RV0BAF200 | 10 | 320 | 0.012 | 60 | 39 | 25 | 21 |
| 3/4 | RV0BAF250 | 10 | 240 | 0.018 | 60 | 30 | 40 | 40 |
| 1 | RV0BAF320 | 10 | 260 | 0.036 | 80 | 30 | 40 | 40 |
| 1 1/4 | RV0BAF400 | 160 | 0 | 0.053 | 80 | 30 | 40 | 40 |
| 1 1/2 | RV0BAF500 | 100 | 0 | 0.071 | 80 | 30 | 40 | 40 |
| 2 | RV0BAF630 | 60 | 0 | 0.125 | 100 | 30 | 40 | 40 |
| 2 1/2 | RV0BAF750 | 50 | 0 | 0.153 | 120 | 30 | 40 | 40 |
| 3 | RV0BAF900 | 60 | 0 | 0.295 | 150 | 40 | 40 | 60 |
| 4 | RV0BAF910 | 30 | 0 | 0.455 | 150 | 40 | 40 | 60 |

PF 2 01 950 013



Tank Adaptor

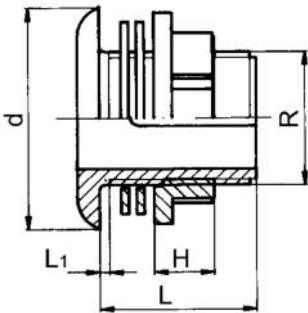
| R (inch) | Code | SP | GP | Weight (kg) | L (mm) |
|-------------|------------------|----|-----|----------------|-----------|
| ½ | RV0TAK200 | 1 | 150 | 0.033 | 60 |
| ¾ | RV0TAK250 | 1 | 100 | 0.045 | 60 |
| 1 | RV0TAK320 | 1 | 60 | 0.093 | 80 |
| 1 ¼ | RV0TAK400 | 1 | 50 | 0.119 | 80 |
| 1 ½ | RV0TAK500 | 1 | 40 | 0.163 | 80 |
| 2 | RV0TAK630 | 1 | 30 | 0.311 | 100 |
| 2 ½ | RV0TAK750 | 1 | 20 | 0.361 | 120 |
| 3 | RV0TAK900 | 1 | 16 | 0.671 | 150 |
| 4 | RV0TAK910 | 1 | 12 | 0.975 | 150 |

PF 2 01 951 010



Tank connector R PP

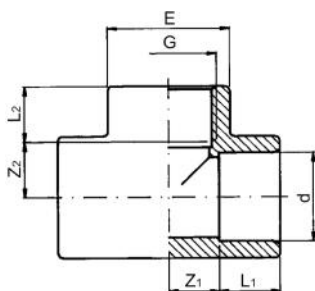
| R (inch) | PN (bar) | Code | SP | GP | Weight (kg) | H (mm) | L1 (mm) | D (mm) | L (mm) |
|-------------|-------------|------------------|----|-----|----------------|-----------|------------|-----------|-----------|
| ½ | 10 | RP0ATS200 | 10 | 400 | 0.019 | 18 | 4 | 41.0 | 47 |
| ¾ | 10 | RP0ATS250 | 10 | 300 | 0.028 | 18 | 4 | 49.0 | 47 |
| 1 | 10 | RP0ATS320 | 10 | 180 | 0.038 | 18 | 5 | 58.0 | 49 |
| 1 ¼ | 10 | RP0ATS400 | 10 | 120 | 0.057 | 18 | 5 | 70.0 | 49 |
| 1 ½ | 10 | RP0ATS500 | 10 | 150 | 0.056 | 25 | 9 | 79.5 | 49 |



PVC-U adaptor fittings range

PF 2 01 951 011

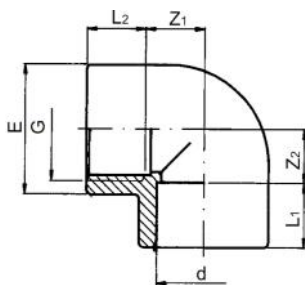
Threaded central offtake tee G PVC-U



| d (mm) | d (inch) | G (inch) | PN (bar) | Code | SP | GP | Weight (kg) | L2 (mm) | Z2 (mm) | E (mm) | Z1 (mm) | L1 (mm) |
|-----------|-------------|-------------|-------------|-----------|----|-----|----------------|------------|------------|-----------|------------|------------|
| 16 | | 3/8 | 16 | RV0TIP16A | 10 | 280 | 0.017 | 11.4 | 11.6 | 23 | 9 | 14 |
| 20 | | 1/2 | 16 | RV0TIP20B | 10 | 150 | 0.028 | 15.0 | 12.0 | 28 | 11 | 16 |
| 25 | | 3/4 | 16 | RV0TIP25C | 10 | 100 | 0.046 | 16.3 | 16.7 | 34 | 14 | 19 |
| 32 | | 1 | 16 | RV0TIP32D | 10 | 130 | 0.076 | 19.1 | 19.9 | 42 | 17 | 22 |
| 40 | | 1 1/4 | 16 | RV0TIP40E | 90 | 0 | 0.120 | 21.4 | 25.6 | 51 | 21 | 26 |
| 50 | | 1 1/2 | 16 | RV0TIP50F | 50 | 0 | 0.200 | 21.4 | 35.6 | 61 | 26 | 31 |
| 63 | | 2 | 16 | RV0TIP63G | 25 | 0 | 0.355 | 25.7 | 45.3 | 75 | 33 | 38 |
| 75 | 2 1/2 | 2 1/2 | 16 | RV0TIP75H | 35 | 0 | 0.540 | 30.2 | 52.8 | 89 | 39 | 44 |
| 90 | | 3 | 16 | RV0TIP90I | 24 | 0 | 0.850 | 33.3 | 64.7 | 106 | 47 | 51 |
| 110 | | 4 | 16 | RV0TIP91L | 14 | 0 | 1.440 | 39.3 | 78.7 | 129 | 57 | 61 |

PF 2 01 951 011

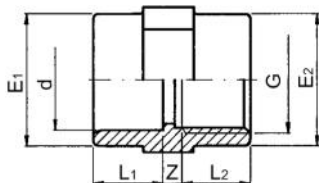
Plain/threaded elbow 90° G PVC-U



| d (mm) | d (inch) | G (inch) | PN (bar) | Code | SP | GP | Weight (kg) | E (mm) | Z2 (mm) | L1 (mm) | L2 (mm) | Z1 (mm) |
|-----------|-------------|-------------|-------------|-----------|-----|-----|----------------|-----------|------------|------------|------------|------------|
| 16 | | 3/8 | 16 | RV0GOP16A | 10 | 360 | 0.013 | 23 | 12 | 14 | 11.4 | 9 |
| 20 | | 1/2 | 16 | RV0GOP20B | 10 | 200 | 0.021 | 28 | 12 | 16 | 15.0 | 11 |
| 25 | | 3/4 | 16 | RV0GOP25C | 10 | 160 | 0.034 | 34 | 17 | 19 | 16.3 | 14 |
| 32 | | 1 | 16 | RV0GOP32D | 10 | 80 | 0.056 | 42 | 20 | 22 | 19.1 | 17 |
| 40 | | 1 1/4 | 16 | RV0GOP40E | 130 | 0 | 0.093 | 51 | 26 | 26 | 21.4 | 21 |
| 50 | | 1 1/2 | 16 | RV0GOP50F | 80 | 0 | 0.160 | 61 | 36 | 31 | 21.4 | 26 |
| 63 | | 2 | 16 | RV0GOP63G | 40 | 0 | 0.275 | 75 | 45 | 38 | 25.7 | 33 |
| 75 | 2 1/2 | 2 1/2 | 16 | RV0GOP75H | 50 | 0 | 0.420 | 89 | 53 | 44 | 30.2 | 39 |
| 90 | | 3 | 16 | RV0GOP90I | 30 | 0 | 0.710 | 106 | 65 | 51 | 33.3 | 47 |
| 110 | | 4 | 16 | RV0GOP91L | 17 | 0 | 1.065 | 129 | 79 | 61 | 39.3 | 57 |

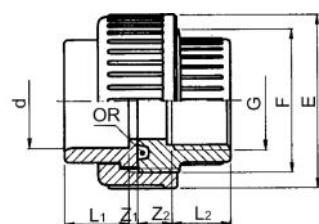
Plain/threaded socket G PVC-U

• (*) Without octagon



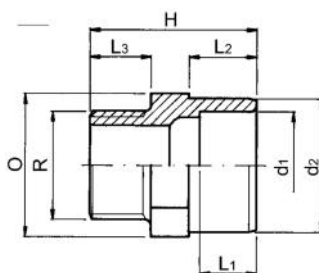
| d (mm) | d (inch) | G (inch) | PN (bar) | Code | SP | GP | Weight (kg) | E2 (mm) | E1 (mm) | L1 (mm) | L2 (mm) | Z1 (mm) |
|-----------|-------------|-------------|-------------|-----------|-----|-----|----------------|------------|------------|------------|------------|------------|
| 16 | | 3/8 | 16 | RV0MAP16A | 10 | 500 | 0.010 | 23 | 23 | 14 | 11.4 | 6 |
| 20 | | 1/2 | 16 | RV0MAP20B | 10 | 250 | 0.017 | 28 | 28 | 16 | 15.0 | 6 |
| 25 | | 3/4 | 16 | RV0MAP25C | 10 | 200 | 0.024 | 34 | 34 | 19 | 16.3 | 6 |
| 32 | | 1 | 16 | RV0MAP32D | 10 | 130 | 0.042 | 42 | 42 | 22 | 19.1 | 6 |
| 40 | | 1 1/4 | 16 | RV0MAP40E | 100 | 0 | 0.060 | 51 | 51 | 26 | 21.4 | 4 |
| 50 | | 1 1/2 | 16 | RV0MAP50F | 60 | 0 | 0.087 | 58 | 61 | 31 | 21.4 | 7 |
| 63 | | 2 | 16 | RV0MAP63G | 80 | 0 | 0.134 | 72 | 75 | 38 | 25.7 | 7 |
| 75 | 2 1/2 | 2 1/2 | 16 | RV0MAP75H | 110 | 0 | 0.215 | 89 | 89 | 44 | 30.2 | 8 |
| 90 | | 3 | 16 | RV0MAP90I | 64 | 0 | 0.345 | 103 | 106 | 51 | 33.3 | 9 |
| 110 | | 4 | 16 | RV0MAP91L | 35 | 0 | 0.550 | 130 | 129 | 61 | 39.3 | 10 |
| * | 125 | 5 | 16 | RV0MAP92N | 16 | 0 | 1.060 | | 160 | 69 | 43.6 | 51 |
| * | 140 | 5 | 16 | RV0MAP93N | 9 | 0 | 1.120 | | 162 | 76 | 43.6 | 40 |
| * | 160 | 6 | 16 | RV0MAP94O | 9 | 0 | 1.400 | | 184 | 86 | 48.0 | 46 |

Plain/threaded union with o-ring G PVC-U



| d (mm) | d (inch) | G (inch) | PN (bar) | EPDM Code | SP | GP | Weight (kg) | E (mm) | F (inch) | Z2 (mm) | L1 (mm) | L2 (mm) | Z1 (mm) |
|-----------|-------------|-------------|-------------|--------------|----|-----|----------------|-----------|-------------|------------|------------|------------|------------|
| 16 | | 3/8 | 16 | RV0BOP16A | 10 | 250 | 0.031 | 34 | 3/4 | 13.6 | 14 | 11.4 | 3 |
| 20 | | 1/2 | 16 | RV0BOP20B | 10 | 150 | 0.042 | 42 | 1 | 11.0 | 16 | 15.0 | 3 |
| 25 | | 3/4 | 16 | RV0BOP25C | 10 | 100 | 0.070 | 52 | 1 1/4 | 12.7 | 19 | 16.3 | 3 |
| 32 | | 1 | 16 | RV0BOP32D | 10 | 60 | 0.094 | 59 | 1 1/2 | 12.9 | 22 | 19.1 | 3 |
| 40 | | 1 1/4 | 16 | RV0BOP40E | 90 | 0 | 0.155 | 72 | 2 | 16.6 | 26 | 21.4 | 3 |
| 50 | | 1 1/2 | 16 | RV0BOP50F | 60 | 0 | 0.237 | 79 | 2 1/4 | 23.6 | 31 | 21.4 | 3 |
| 63 | | 2 | 16 | RV0BOP63G | 36 | 0 | 0.382 | 96 | 2 3/4 | 30.3 | 38 | 25.7 | 3 |
| 75 | 2 1/2 | 2 1/2 | 16 | RV0BOP75H | 20 | 0 | 0.625 | 119 | 3 1/2 | 31.8 | 44 | 30.2 | 3 |
| 90 | | 3 | 16 | RV0BOP90I | 15 | 0 | 0.865 | 134 | 4 | 35.7 | 51 | 33.3 | 5 |
| 110 | | 4 | 16 | RV0BOP91L | 18 | 0 | 1.340 | 163 | 5 | 39.7 | 61 | 39.3 | 5 |

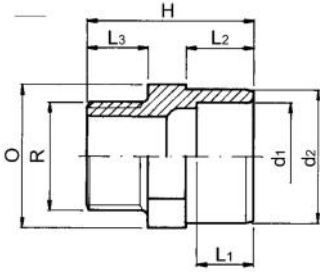
Threaded adaptor R PVC-U 3 diameters



| d1-d2 (mm) | R (inch) | PN (bar) | Code | SP | GP | Weight (kg) | O (mm) | L3 (mm) | L1 (mm) | H (mm) | L2 (mm) |
|---------------|-------------|-------------|-----------|-----|-----|----------------|-----------|------------|------------|-----------|------------|
| 12 - 16 | 3/8 | 16 | RV0AMP12A | 10 | 600 | 0.008 | 22 | 11.4 | | 36 | 14 |
| 16 - 20 | 3/8 | 16 | RV0AMP16A | 10 | 500 | 0.009 | 24 | 11.4 | 14 | 40 | 16 |
| 16 - 20 | 1/2 | 16 | RV0AMP16B | 10 | 400 | 0.010 | 24 | 15.0 | 14 | 43 | 16 |
| 20 - 25 | 3/8 | 16 | RV0AMP20A | 10 | 300 | 0.014 | 30 | 11.4 | 16 | 43 | 19 |
| 20 - 25 | 1/2 | 16 | RV0AMP20B | 10 | 300 | 0.014 | 30 | 15.0 | 16 | 46 | 19 |
| 20 - 25 | 3/4 | 16 | RV0AMP20C | 10 | 300 | 0.015 | 30 | 16.3 | 16 | 47 | 19 |
| 25 - 32 | 1/2 | 16 | RV0AMP25B | 10 | 200 | 0.025 | 36 | 15.0 | 19 | 49 | 22 |
| 25 - 32 | 3/4 | 16 | RV0AMP25C | 10 | 200 | 0.026 | 36 | 16.3 | 19 | 50 | 22 |
| 25 - 32 | 1 | 16 | RV0AMP25D | 10 | 200 | 0.029 | 36 | 19.1 | 19 | 53 | 22 |
| 32 - 40 | 3/4 | 16 | RV0AMP32C | 10 | 140 | 0.036 | 42 | 16.3 | 22 | 54 | 26 |
| 32 - 40 | 1 | 16 | RV0AMP32D | 10 | 120 | 0.040 | 42 | 19.1 | 22 | 57 | 26 |
| 32 - 40 | 1 1/4 | 16 | RV0AMP32E | 10 | 100 | 0.049 | 46 | 21.4 | 22 | 60 | 26 |
| 40 - 50 | 1 | 16 | RV0AMP40D | 90 | 0 | 0.070 | 55 | 19.1 | 26 | 64 | 31 |
| 40 - 50 | 1 1/4 | 16 | RV0AMP40E | 50 | 0 | 0.075 | 55 | 21.4 | 26 | 67 | 31 |
| 40 - 50 | 1 1/2 | 16 | RV0AMP40F | 80 | 0 | 0.074 | 55 | 21.4 | 26 | 67 | 31 |
| 50 - 63 | 1 1/4 | 16 | RV0AMP50E | 50 | 0 | 0.115 | 65 | 21.4 | 31 | 74 | 38 |
| 50 - 63 | 1 1/2 | 16 | RV0AMP50F | 110 | 0 | 0.113 | 65 | 21.4 | 31 | 74 | 38 |
| 50 - 63 | 2 | 16 | RV0AMP50G | 100 | 0 | 0.125 | 65 | 25.7 | 31 | 78 | 38 |

table continued on the next page

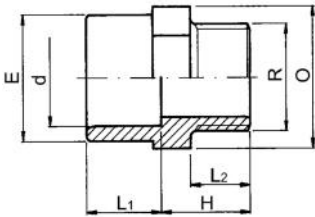
PF 2 01 951 011



| d1-d2 (mm) | R (inch) | PN (bar) | Code | SP | GP | Weight (kg) | O (mm) | L3 (mm) | L1 (mm) | H (mm) | L2 (mm) |
|---------------|-------------|-------------|------------------|----|----|----------------|-----------|------------|------------|-----------|------------|
| 63 - 75 | 1 ½ | 16 | RV0AMP63F | 35 | 0 | 0.145 | 80 | 21.4 | 38 | 80 | 44 |
| 63 - 75 | 2 | 16 | RV0AMP63G | 70 | 0 | 0.150 | 80 | 25.7 | 38 | 84 | 44 |
| 63 - 75 | 2 ½ | 16 | RV0AMP63H | 50 | 0 | 0.170 | 80 | 30.2 | 38 | 91 | 44 |
| 75 - 90 | 2 | 16 | RV0AMP75G | 54 | 0 | 0.270 | 95 | 25.7 | 44 | 94 | 51 |
| 75 - 90 | 2 ½ | 16 | RV0AMP75H | 60 | 0 | 0.275 | 95 | 30.2 | 44 | 99 | 51 |
| 75 - 90 | 3 | 16 | RV0AMP75I | 36 | 0 | 0.285 | 95 | 33.3 | 44 | 102 | 51 |
| 90 - 110 | 2 ½ | 16 | RV0AMP90H | 25 | 0 | 0.470 | 115 | 30.2 | 51 | 110 | 61 |
| 90 - 110 | 3 | 16 | RV0AMP90I | 25 | 0 | 0.486 | 115 | 33.3 | 51 | 113 | 61 |
| 90 - 110 | 4 | 16 | RV0AMP90L | 16 | 0 | 0.485 | 115 | 39.3 | 51 | 118 | 61 |
| 110 - 125 | 3 | 10 | RV0AMP91I | 40 | 0 | 0.490 | 130 | 33.3 | 61 | 115 | 66 |
| 110 - 125 | 4 | 10 | RV0AMP91L | 32 | 0 | 0.492 | 130 | 39.3 | 61 | 120 | 66 |
| 110 - 125 | 5 | 10 | RV0AMP91N | 32 | 0 | 0.535 | 130 | 40.0 | 61 | 120 | 66 |
| 125 - 140 | 5 | 10 | RV0AMP92N | 24 | 0 | 0.740 | 140 | 74.0 | 69 | 145 | 71 |

PF 2 01 951 011

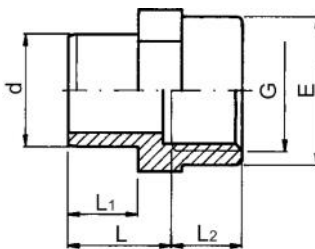
Threaded adaptor R PVC-U 2 diameters



| d (mm) | R (inch) | PN (bar) | Code | SP | Weight (kg) | L2 (mm) | O (mm) | E (mm) | L1 (mm) | L (mm) |
|-----------|-------------|-------------|------------------|----|----------------|------------|-----------|-----------|------------|-----------|
| 75 | 2 ½ | 16 | RV0ADP75H | 72 | 0.210 | 30.2 | 90 | 89 | 44 | 42 |
| 90 | 3 | 16 | RV0ADP90I | 40 | 0.336 | 33.3 | 110 | 106 | 51 | 46 |
| 110 | 4 | 16 | RV0ADP91L | 35 | 0.530 | 39.3 | 130 | 129 | 61 | 51 |

PF 2 01 951 011

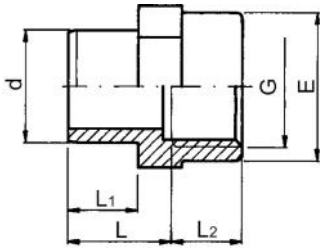
Threaded adaptor G PVC-U



| d (mm) | d (inch) | G (inch) | PN (bar) | Code | SP | GP | Weight (kg) | L (mm) | L1 (mm) | E (mm) | L2 (mm) |
|-----------|-------------|-------------|-------------|------------------|-----|-----|----------------|-----------|------------|-----------|------------|
| 16 | | ¾ | 16 | RV0AFP16A | 10 | 600 | 0.016 | 22 | 14 | 23 | 11.4 |
| 20 | | ½ | 16 | RV0AFP20B | 10 | 300 | 0.017 | 24 | 16 | 28 | 15.0 |
| 20 | | ¾ | 16 | RV0AFP20C | 10 | 240 | 0.024 | 24 | 16 | 34 | 16.3 |
| 25 | | ½ | 16 | RV0AFP25B | 10 | 220 | 0.019 | 27 | 19 | 28 | 15.0 |
| 25 | | ¾ | 16 | RV0AFP25C | 10 | 200 | 0.026 | 27 | 19 | 34 | 16.3 |
| 25 | | 1 | 16 | RV0AFP25D | 10 | 140 | 0.039 | 27 | 19 | 42 | 19.1 |
| 32 | | ¾ | 16 | RV0AFP32C | 10 | 180 | 0.032 | 30 | 22 | 34 | 16.3 |
| 32 | | 1 | 16 | RV0AFP32D | 10 | 120 | 0.041 | 30 | 22 | 42 | 19.1 |
| 40 | | 1 | 16 | RV0AFP40D | 100 | 0 | 0.050 | 36 | 26 | 42 | 19.1 |
| 40 | | 1 ¼ | 16 | RV0AFP40E | 90 | 0 | 0.065 | 36 | 26 | 51 | 21.4 |
| 50 | | 1 ¼ | 16 | RV0AFP50E | 70 | 0 | 0.070 | 41 | 31 | 51 | 21.4 |
| 50 | | 1 ½ | 16 | RV0AFP50F | 60 | 0 | 0.080 | 41 | 31 | 58 | 21.4 |
| 50 | | 2 | 16 | RV0AFP50G | 100 | 0 | 0.122 | 41 | 31 | 72 | 25.7 |
| 63 | | 2 | 16 | RV0AFP63G | 80 | 0 | 0.135 | 48 | 38 | 72 | 25.7 |
| 75 | | 2 | 16 | RV0AFP75G | 72 | 0 | 0.175 | 53 | 44 | 72 | 25.7 |
| 75 | 2 ½ | 2 ½ | 16 | RV0AFP75H | 90 | 0 | 0.225 | 58 | 44 | 89 | 30.2 |
| 75 | | 3 | 16 | RV0AFP75I | 100 | 0 | 0.295 | 58 | 44 | 103 | 33.3 |
| 90 | | 2 ½ | 16 | RV0AFP90H | 90 | 0 | 0.275 | 65 | 51 | 89 | 30.2 |

table continued on the next page

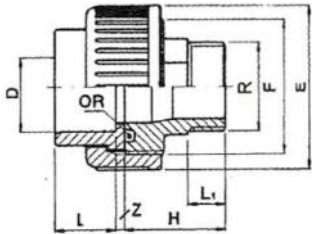
PF 2 01 951 011



| d (mm) | d (inch) | G (inch) | PN (bar) | Code | SP | GP Weight (kg) | L (mm) | L1 (mm) | E (mm) | L2 (mm) | |
|-----------|-------------|-------------|-------------|------------------|----|-------------------|-----------|------------|-----------|------------|------|
| 90 | | 3 | 16 | RV0AFP90I | 60 | 0 | 0.310 | 65 | 51 | 103 | 33.3 |
| 90 | | 4 | 16 | RV0AFP90L | 52 | 0 | 0.450 | 65 | 51 | 130 | 39.3 |
| 110 | | 3 | 16 | RV0AFP91I | 45 | 0 | 0.385 | 76 | 61 | 103 | 33.3 |
| 110 | | 4 | 16 | RV0AFP91L | 45 | 0 | 0.480 | 76 | 61 | 130 | 39.3 |

PF 2 01 951 011

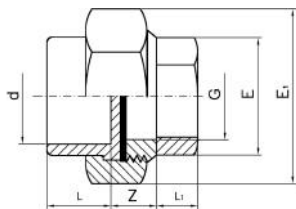
Plain threaded union R PVC-U



| d (mm) | R (inch) | PN (bar) | Code | SP | GP Weight (kg) | L1 (mm) | H (mm) | L (mm) | E (mm) | Z (mm) | F (inch) | |
|-----------|-------------|-------------|------------------|----|-------------------|------------|-----------|-----------|-----------|-----------|-------------|-------|
| 25 | 3/4 | 16 | RV0BMP25C | 10 | 100 | 0.078 | 16.3 | 44 | 19 | 52 | 3 | 1 1/4 |
| 32 | 1 | 16 | RV0BMP32D | 40 | 0 | 0.102 | 19.1 | 48 | 22 | 59 | 3 | 1 1/2 |
| 40 | 1 1/4 | 16 | RV0BMP40E | 40 | 0 | 0.163 | 21.4 | 54 | 26 | 72 | 3 | 2 |
| 50 | 1 1/2 | 16 | RV0BMP50F | 60 | 0 | 0.220 | 22.0 | 58 | 31 | 79 | 3 | 2 1/4 |
| 50 | 2 | 16 | RV0BMP50G | 60 | 0 | 0.260 | 26.0 | 58 | 31 | 79 | 3 | 2 1/4 |
| 63 | 2 | 16 | RV0BMP63G | 36 | 0 | 0.375 | 26.0 | 66 | 38 | 96 | 3 | 2 3/4 |

PF 2 01 950 013

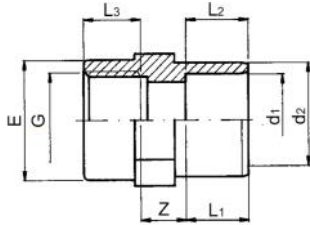
Union PVC-U/brass threaded G



| d (mm) | G (inch) | PN (bar) | Code | SP | Weight (kg) | E (mm) | L (mm) | L1 (mm) | Z (mm) | E1 (mm) |
|-----------|-------------|-------------|------------------|-----|----------------|-----------|-----------|------------|-----------|------------|
| 16 | 3/8 | 16 | RV0BMF16A | 170 | 0.085 | 20 | 14 | 11 | 10 | 30 |
| 20 | 1/2 | 16 | RV0BMF20B | 70 | 0.145 | 25 | 16 | 15 | 11 | 38 |
| 25 | 3/4 | 16 | RV0BMF25C | 50 | 0.215 | 32 | 19 | 15 | 14 | 47 |
| 32 | 1 | 16 | RV0BMF32D | 40 | 0.280 | 38 | 22 | 16 | 12 | 55 |
| 40 | 1 1/4 | 16 | RV0BMF40E | 25 | 0.380 | 48 | 26 | 19 | 13 | 65 |
| 50 | 1 1/2 | 16 | RV0BMF50F | 25 | 0.500 | 54 | 31 | 21 | 13 | 72 |
| 63 | 2 | 16 | RV0BMF63G | 15 | 1.200 | 66 | 38 | 25 | 14 | 88 |

PF 2 01 951 011

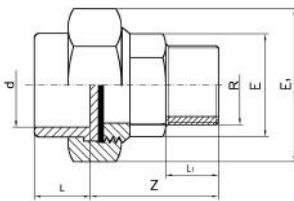
Adaptor socket Rp PVC-U 3 diameters



| d1-d2 (mm) | G (inch) | PN (bar) | Code | SP | GP | Weight (kg) | L1 (mm) | L3 (mm) | Z (mm) | L2 (mm) | E (mm) |
|---------------|-------------|-------------|------------------|-----|-----|----------------|------------|------------|-----------|------------|-----------|
| 20 - 25 | ½ | 16 | RV0MFP25B | 10 | 200 | 0.015 | 16 | 15.0 | 12 | 19 | 28 |
| 25 - 32 | ¾ | 16 | RV0MFP32C | 10 | 150 | 0.027 | 19 | 16.3 | 13 | 22 | 34 |
| 32 - 40 | 1 | 16 | RV0MFP40D | 130 | 0 | 0.050 | 22 | 19.1 | 14 | 26 | 42 |
| 40 - 50 | 1 ¼ | 16 | RV0MFP50E | 110 | 0 | 0.070 | 26 | 21.4 | 16 | 31 | 51 |
| 50 - 63 | 1 ½ | 16 | RV0MFP63F | 80 | 0 | 0.120 | 31 | 21.4 | 18 | 38 | 58 |
| 63 - 75 | 2 | 16 | RV0MFP75G | 70 | 0 | 0.180 | 38 | 25.7 | 18 | 44 | 72 |
| 75 - 90 | 2 ½ | 16 | RV0MFP90H | 90 | 0 | 0.284 | 44 | 30.2 | 21 | 51 | 89 |
| 90 - 110 | 3 | 16 | RV0MFP91I | 50 | 0 | 0.490 | 51 | 33.3 | 25 | 61 | 103 |

PF 2 01 950 013

Union PVC-U/brass threaded R



| d (mm) | R (inch) | PN (bar) | Code | SP | Weight (kg) | E1 (mm) | Z (mm) | L1 (mm) | L (mm) | E (mm) |
|-----------|-------------|-------------|------------------|-----|----------------|------------|-----------|------------|-----------|-----------|
| 16 | ¾ | 16 | RV0BMM16A | 115 | 0.110 | 30 | 35 | 11 | 14 | 20 |
| 20 | ½ | 16 | RV0BMM20B | 95 | 0.165 | 38 | 41 | 12 | 16 | 25 |
| 25 | ¾ | 16 | RV0BMM25C | 50 | 0.245 | 47 | 45 | 15 | 19 | 32 |
| 32 | 1 | 16 | RV0BMM32D | 40 | 0.325 | 55 | 47 | 19 | 22 | 38 |
| 40 | 1 ¼ | 16 | RV0BMM40E | 25 | 0.460 | 65 | 55 | 21 | 26 | 48 |
| 50 | 1 ½ | 16 | RV0BMM50F | 24 | 0.610 | 72 | 57 | 21 | 31 | 54 |
| 63 | 2 | 16 | RV0BMM63G | 15 | 0.975 | 88 | 68 | 25 | 38 | 66 |

PVC-U adaptor fittings range

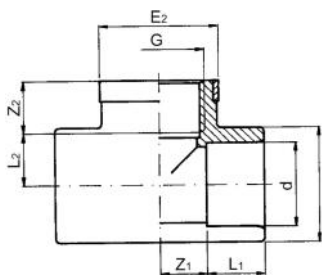
With metal ring reinforced

PF 2 01 951 012

Threaded central offtake tee G PVC-U



| d (mm) | G (inch) | PN (bar) | Code | SP | GP | Weight (kg) | Z1 (mm) | L1 (mm) | L2 (mm) | Z2 (mm) | E2 (mm) | E1 (mm) |
|-----------|-------------|-------------|------------------|----|-----|----------------|------------|------------|------------|------------|------------|------------|
| 16 | 3/8 | 16 | RV0TTP16A | 10 | 280 | 0.018 | 9 | 14 | 11.4 | 11.6 | 25 | 23 |
| 20 | 1/2 | 16 | RV0TTP20B | 10 | 150 | 0.030 | 11 | 16 | 15.0 | 12.0 | 30 | 28 |
| 25 | 3/4 | 16 | RV0TTP25C | 10 | 100 | 0.048 | 14 | 19 | 13.3 | 16.7 | 35 | 34 |
| 32 | 1 | 16 | RV0TTP32D | 10 | 100 | 0.076 | 17 | 22 | 19.1 | 19.9 | 45 | 42 |
| 40 | 1 1/4 | 16 | RV0TTP40E | 80 | 0 | 0.124 | 21 | 26 | 21.4 | 25.6 | 55 | 51 |
| 50 | 1 1/2 | 16 | RV0TTP50F | 50 | 0 | 0.200 | 26 | 31 | 21.4 | 35.6 | 65 | 61 |
| 63 | 2 | 16 | RV0TTP63G | 20 | 0 | 0.365 | 33 | 38 | 25.7 | 45.3 | 75 | 75 |

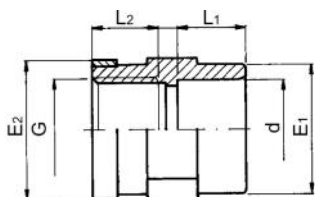


PF 2 01 951 012

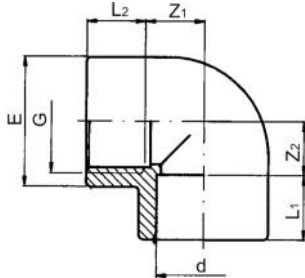
Plain/threaded socket G PVC-U



| d (mm) | G (inch) | PN (bar) | Code | SP | GP | Weight (kg) | E2 (mm) | E1 (mm) | L2 (mm) | L1 (mm) |
|-----------|-------------|-------------|------------------|-----|-----|----------------|------------|------------|------------|------------|
| 16 | 3/8 | 16 | RV0MMP16A | 10 | 500 | 0.010 | 25 | 23 | 11.4 | 14 |
| 20 | 1/2 | 16 | RV0MMP20B | 10 | 250 | 0.020 | 30 | 28 | 15.0 | 16 |
| 25 | 3/4 | 16 | RV0MMP25C | 10 | 200 | 0.026 | 35 | 34 | 16.3 | 19 |
| 32 | 1 | 16 | RV0MMP32D | 10 | 120 | 0.044 | 45 | 42 | 19.1 | 22 |
| 40 | 1 1/4 | 16 | RV0MMP40E | 100 | 0 | 0.070 | 55 | 51 | 21.4 | 26 |
| 50 | 1 1/2 | 16 | RV0MMP50F | 60 | 0 | 0.092 | 65 | 61 | 21.4 | 31 |
| 63 | 2 | 16 | RV0MMP63G | 80 | 0 | 0.140 | 75 | 75 | 25.7 | 38 |

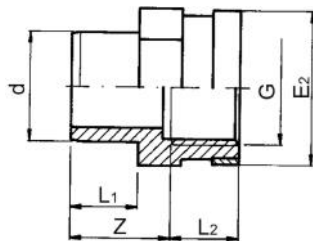


Plain/threaded elbow 90° G PVC-U



| d (mm) | G (inch) | PN (bar) | Code | SP | GP | Weight (kg) | E2 (mm) | E1 (mm) | Z2 (mm) | L1 (mm) | Z1 (mm) | L2 (mm) |
|-----------|-------------|-------------|------------------|-----|-----|----------------|------------|------------|------------|------------|------------|------------|
| 16 | 3/8 | 16 | RV0GGP16A | 10 | 360 | 0.014 | 25 | 23 | 11.6 | 14 | 9 | 11.4 |
| 20 | 1/2 | 16 | RV0GGP20B | 10 | 200 | 0.021 | 30 | 28 | 12.0 | 16 | 11 | 15.0 |
| 25 | 3/4 | 16 | RV0GGP25C | 10 | 160 | 0.038 | 35 | 34 | 16.7 | 19 | 14 | 16.3 |
| 32 | 1 | 16 | RV0GGP32D | 10 | 80 | 0.062 | 45 | 42 | 19.9 | 22 | 17 | 19.1 |
| 40 | 1 1/4 | 16 | RV0GGP40E | 130 | 0 | 0.095 | 55 | 51 | 25.6 | 26 | 21 | 21.4 |
| 50 | 1 1/2 | 16 | RV0GGP50F | 70 | 0 | 0.160 | 65 | 61 | 35.6 | 31 | 26 | 21.4 |
| 63 | 2 | 16 | RV0GGP63G | 40 | 0 | 0.290 | 75 | 75 | 45.3 | 38 | 33 | 25.7 |

Threaded adaptor G PVC-U



| d (mm) | G (inch) | Code | SP | GP | Weight (kg) | PN (bar) | L2 (mm) | E2 (mm) | Z (mm) | L1 (mm) |
|-----------|-------------|------------------|-----|-----|----------------|-------------|------------|------------|-----------|------------|
| 16 | 3/8 | RV0AAP16A | 10 | 600 | 0.020 | 16 | 11.4 | 25 | 22 | 14 |
| 20 | 1/2 | RV0AAP20B | 10 | 300 | 0.020 | 16 | 15.0 | 30 | 22 | 14 |
| 20 | 3/4 | RV0AAP20C | 10 | 240 | 0.025 | 16 | 15.0 | 30 | 24 | 16 |
| 25 | 1/2 | RV0AAP25B | 10 | 220 | 0.022 | 16 | 16.3 | 35 | 24 | 16 |
| 25 | 3/4 | RV0AAP25C | 10 | 200 | 0.028 | 16 | 15.0 | 30 | 27 | 19 |
| 25 | 1 | RV0AAP25D | 10 | 140 | 0.041 | 16 | 16.3 | 35 | 27 | 19 |
| 32 | 3/4 | RV0AAP32C | 10 | 180 | 0.034 | 16 | 19.1 | 45 | 27 | 19 |
| 32 | 1 | RV0AAP32D | 10 | 120 | 0.047 | 16 | 16.3 | 35 | 30 | 22 |
| 40 | 1 | RV0AAP40D | 100 | 0 | 0.053 | 16 | 19.1 | 45 | 30 | 22 |
| 40 | 1 1/4 | RV0AAP40E | 90 | 0 | 0.068 | 16 | 19.1 | 45 | 36 | 26 |
| 50 | 1 1/4 | RV0AAP50E | 70 | 0 | 0.074 | 16 | 21.4 | 55 | 36 | 26 |
| 50 | 1 1/2 | RV0AAP50F | 60 | 0 | 0.107 | 16 | 21.4 | 55 | 41 | 31 |
| 50 | 2 | RV0AAP50G | 90 | 0 | 0.135 | 16 | 21.4 | 60 | 41 | 31 |
| 63 | 2 | RV0AAP63G | 80 | 0 | 0.150 | 16 | 25.7 | 75 | 41 | 31 |
| 75 | 2 | RV0AAP75G | 160 | 0 | 0.140 | 16 | 25.7 | 75 | 48 | 38 |

Accessories

PF 2 01 950 013



Polypropylene pipe clip

- (*) Traded items

| | d (mm) | Code | SP | GP | Weight (kg) |
|---|-----------|------------------|----|------|----------------|
| * | 16 | APOSPT160 | 20 | 500 | 0.006 |
| * | 20 | APOSPT200 | 20 | 1100 | 0.008 |
| * | 25 | APOSPT250 | 20 | 1000 | 0.009 |
| * | 32 | APOSPT320 | 20 | 800 | 0.013 |
| * | 40 | APOSPT400 | 10 | 250 | 0.026 |
| * | 50 | APOSPT500 | 10 | 400 | 0.033 |
| * | 63 | APOSPT630 | 10 | 160 | 0.047 |
| * | 75 | APOSPT750 | 10 | 150 | 0.085 |
| * | 90 | APOSPT900 | 10 | 120 | 0.100 |
| * | 110 | APOSPT910 | 10 | 100 | 0.110 |
| * | 125 | APOSPT920 | 10 | 50 | 0.114 |
| * | 140 | APOSPT930 | 10 | 30 | 0.124 |
| * | 160 | APOSPT940 | 10 | 20 | 0.137 |

PF 2 02 962 013



O-ring

Suitable for unions

- (*) Traded items

| | d (mm) | EPDM Code | SP |
|---|-----------|------------------|----|
| * | 16 | 1ORD03062 | 10 |
| * | 20 | 1ORD04081 | 10 |
| * | 25 | 1ORD04112 | 10 |
| * | 32 | 1ORD04131 | 10 |
| * | 40 | 1ORD06162 | 10 |
| * | 50 | 1ORD06187 | 10 |
| * | 63 | 1ORD06237 | 10 |
| * | 75 | 1ORD06312 | 10 |
| * | 90 | 1ORD06362 | 10 |
| * | 110 | 1ORD06450 | 10 |

PVC-U Safeblock water ball valves

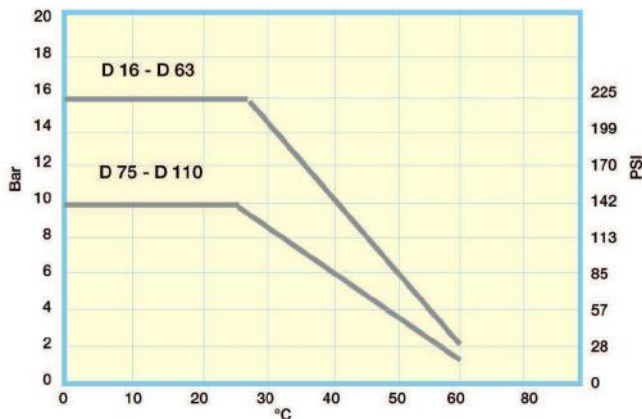
General characteristics

Single and Double Union Ball Valve - compact type - characterized by optimal handling, full flow, axial pipe load block with micro-adjustment of ball seat. Moreover in closed position the pipeline can be disconnected downstream from the valve.

Features outlined make TP valves particularly suited for the following applications: distribution, treatment and sewage water, swimming pools, water parks and aquaculture.

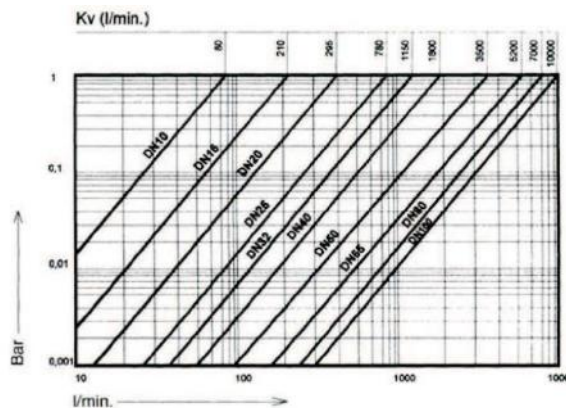
MAX WORKING PRESSURE

The a. m. technical information should be used as a guide. Please consult our Technical dpt for specific queries.



Pressure temperature rating for water and harmless liquid.

CHARGE LOSS



With water at 20°C and the valve in open position

TORQUE

| D | G | Nm |
|-------|-----------|-----|
| 16-20 | 3/8"-1/2" | 0,7 |
| 25 | 3/4" | 2 |
| 32 | 1" | 3,5 |
| 40 | 1" 1/4 | 7 |
| 50 | 1" 1/2 | 9 |
| 63 | 2" | 13 |
| 75 | 2" 1/2 | 24 |
| 90 | 3" | 30 |
| 110 | 4" | 48 |

Max torque at max working pressure.

Installation and use

When glueing the end connector of the pipe, care must be taken to prevent the glue or solvent from coming in contact with the valve seats or ball.

Threaded ends should not be connected with cone-shaped male threads and the use of hemp or similar materials should be carefully avoided. A special attention should be paid to the correct line-up of the installation. Tighten the union nut hand tight only. The use of wrench is not allowed. It is important that the unions are not used to pull the system together.

If there is any leakage from the union nuts, please check

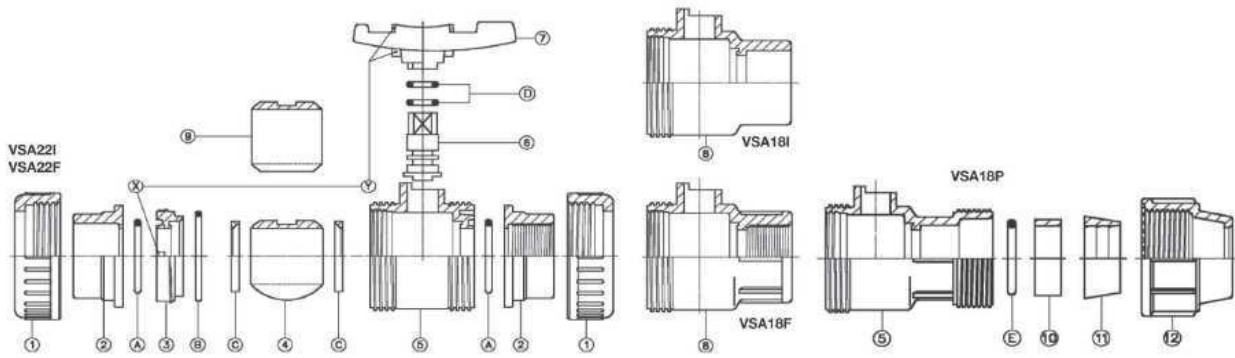
the correct line-up of the system and the pipe length. An excessive tightening of the unions could finally break them.

Before the valve is cycled, all dirt, sand or other material should be flushed from the system. This is to prevent scarring of the ball and/or seats.

It is important to avoid rapid closures/opening of the valve to eliminate the possibility of water hammer causing damage to the pipeline.

It is necessary that all installation and maintenance personnel become familiar with the proper solvent cement and the adjoining procedure.

PVC-U Safeblock water ball valves



VALVE COMPONENTS

| Pos | Components | n° | | | |
|-----|---------------------|----------|-------|-------|---------|
| | | Material | VSA22 | VSA18 | |
| 1 | Union nut | 2 | 1 | 1 | PVC |
| 2 | End connector | 2 | 1 | 1 | PVC |
| 3 | Adjustable support | 1 | 1 | 1 | PVC |
| 4 | Ball DN≥40 a ≤100 | 1 | - | 1 | PVC |
| 5 | Body | 1 | - | 1 | PVC |
| 6 | Stem | 1 | 1 | 1 | PVC |
| 7 | Handle | 1 | 1 | 1 | PVC |
| 8 | Singleunionbody | - | 1 | - | PVC |
| 9 | Ball DN≥10 a ≤32 | 1 | - | - | PVC |
| 10 | Ball | - | 1 | - | PVC |
| 11 | Packing presserbush | - | - | 1 | PVC |
| 12 | Clip ring | - | - | 1 | POM |
| | Quickjointnut | - | - | 1 | PVC |
| A | O-ring body | 2 | 1 | 1 | EPDM |
| B | O-ring support | 1 | 1 | 1 | EPDM |
| C | Ball seal | 2 | 2 | 1 | PTFE+PE |
| D | O-ring stem | 2 | 2 | 2 | EPDM |
| E | Quick joint O-ring | - | - | 1 | EPDM |

PVC: Polyvinyl chloride
 EPDM: Ethylene-propylene
 PTFE+PE: Polytetra+fluoroethylene+polyethylene
 POM: Polyacetale

DISASSEMBLING AND REASSEMBLING IN CASE OF MAINTENANCE DOUBLE UNION VSA.22. ...

Screwing the union nut (1) it is possible to take out radially from the system the whole body of the valve.

To reach the internal parts of the valve act as follows:

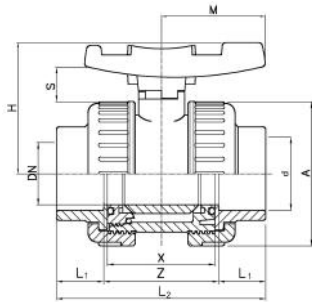
- 1- Set the valve on open position.
- 2- Withdraw the handle (7) from control stem (6).
- 3- Screw the support(3) of the body(5) using the two teeth(Y) of the handle(7) screwing operations should be done counter-clockwise.
- 4- After having screwed the support (3) and taken out the O-ring B which was inside (5), it is possible to reach all the internal parts of the valve to check the O-rings and in case substitute them.
 - to disassemble the ball (4)-(9) turn it using the control stem (6) setting it in closing position to withdraw the ballonet coupling through the control stem (6);
 - to disassemble the control stem (6) of the body (5) push it downwards as far as its complete outcome.

To assemble the valve act in the opposite way being careful to set the O-ring properly and greased it with silicon grease. Screw threaded support 3 straight to the end taking care not to block the ball (4)-(9).

PVC-U safeblock water ball valves

PF 2 02 956 010

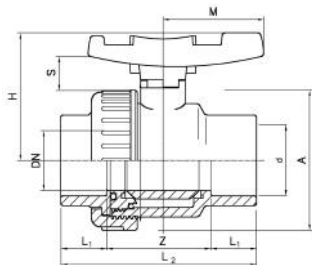
Double union safeblock ISO PVC-U Ball valve with solvent cement sockets



| d (mm) | d (inch) | DN (mm) | PN (bar) | EPDM Code | SP | Weight (kg) | L1 (mm) | H (mm) | L2 (mm) | A (mm) | S (mm) | Z (mm) | X (mm) | M (mm) |
|-----------|-------------|------------|-------------|--------------|----|----------------|------------|-----------|------------|-----------|-----------|-----------|-----------|-----------|
| 16 | | 10 | 16 | VSA221160 | 50 | 0.130 | 14 | 53 | 76 | 50 | 19 | 48 | 42 | 40 |
| 20 | | 15 | 16 | VSA221200 | 50 | 0.130 | 16 | 53 | 80 | 50 | 19 | 48 | 41 | 40 |
| 25 | | 20 | 16 | VSA221250 | 45 | 0.205 | 19 | 60 | 91 | 59 | 19 | 53 | 48 | 45 |
| 32 | | 25 | 16 | VSA221320 | 50 | 0.295 | 22 | 67 | 102 | 68 | 21 | 58 | 54 | 51 |
| 40 | | 32 | 16 | VSA221400 | 36 | 0.435 | 26 | 79 | 120 | 80 | 25 | 68 | 62 | 59 |
| 50 | | 40 | 16 | VSA221500 | 24 | 0.680 | 31 | 90 | 140 | 94 | 27 | 78 | 72 | 70 |
| 63 | | 50 | 16 | VSA221630 | 13 | 1.160 | 38 | 107 | 169 | 115 | 29 | 93 | 86 | 84 |
| 75 | 2 ½ | 65 | 10 | VSA221750 | 8 | 2.200 | 44 | 129 | 206 | 145 | 32 | 118 | 110 | 103 |
| 90 | | 80 | 10 | VSA221900 | 4 | 3.310 | 51 | 143 | 242 | 168 | 36 | 140 | 128 | 120 |
| 110 | | 100 | 10 | VSA221910 | 2 | 5.925 | 61 | 169 | 282 | 210 | 43 | 160 | 150 | 141 |

PF 2 02 956 010

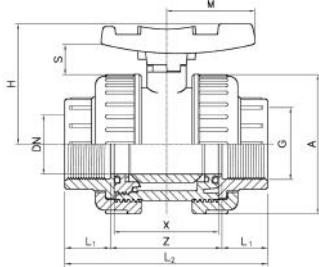
Single union safeblock ISO PVC-U Ball valve with solvent cement sockets



| d (mm) | d (inch) | DN (mm) | PN (bar) | EPDM Code | SP | Weight (kg) | L1 (mm) | M (mm) | A (mm) | S (mm) | H (mm) | L2 (mm) | Z (mm) |
|-----------|-------------|------------|-------------|--------------|-----|----------------|------------|-----------|-----------|-----------|-----------|------------|-----------|
| 16 | | 10 | 16 | VSA181160 | 180 | 0.100 | 14 | 40 | 50 | 19 | 53 | 76 | 48 |
| 20 | | 15 | 16 | VSA181200 | 180 | 0.100 | 16 | 40 | 50 | 19 | 53 | 80 | 48 |
| 25 | | 20 | 16 | VSA181250 | 120 | 0.160 | 19 | 45 | 59 | 19 | 60 | 91 | 53 |
| 32 | | 25 | 16 | VSA181320 | 75 | 0.230 | 22 | 51 | 68 | 21 | 67 | 102 | 58 |
| 40 | | 32 | 16 | VSA181400 | 45 | 0.340 | 26 | 59 | 80 | 25 | 79 | 120 | 68 |
| 50 | | 40 | 16 | VSA181500 | 30 | 0.525 | 31 | 70 | 94 | 28 | 90 | 140 | 78 |
| 63 | | 50 | 16 | VSA181630 | 16 | 0.890 | 38 | 84 | 115 | 29 | 107 | 169 | 93 |
| 75 | 2 ½ | 65 | 10 | VSA181750 | 8 | 1.640 | 44 | 103 | 145 | 32 | 129 | 206 | 118 |
| 90 | | 80 | 10 | VSA181900 | 5 | 2.450 | 51 | 120 | 168 | 36 | 143 | 242 | 140 |
| 110 | | 100 | 10 | VSA181910 | 2 | 4.100 | 61 | 141 | 210 | 43 | 169 | 282 | 160 |

PF 2 02 956 010

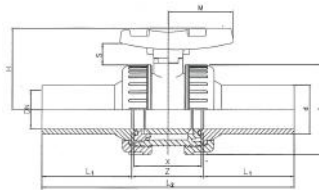
Double union safeblock B.S.P. PVC-U
Ball valve with threaded sockets G



| G | DN | PN | EPDM | SP | Weight | Z | X | M | S | A | L2 | H | L1 |
|--------|------|-------|-----------|-----|--------|------|------|------|------|------|------|------|------|
| (inch) | (mm) | (bar) | Code | | (kg) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |
| 3/8 | 10 | 16 | VSA22F160 | 150 | 0.130 | 48 | 42 | 40 | 19 | 50 | 76 | 53 | 14 |
| 1/2 | 15 | 16 | VSA22F200 | 150 | 0.130 | 48 | 42 | 40 | 19 | 50 | 80 | 53 | 16 |
| 3/4 | 20 | 16 | VSA22F250 | 100 | 0.205 | 53 | 48 | 45 | 19 | 59 | 91 | 60 | 19 |
| 1 | 25 | 16 | VSA22F320 | 60 | 0.295 | 58 | 54 | 51 | 21 | 68 | 102 | 67 | 22 |
| 1 1/4 | 32 | 16 | VSA22F400 | 36 | 0.430 | 68 | 62 | 59 | 25 | 80 | 120 | 79 | 26 |
| 1 1/2 | 40 | 16 | VSA22F500 | 24 | 0.655 | 78 | 72 | 70 | 27 | 94 | 140 | 90 | 31 |
| 2 | 50 | 16 | VSA22F630 | 16 | 1.160 | 93 | 86 | 84 | 29 | 115 | 169 | 107 | 38 |
| 2 1/2 | 65 | 10 | VSA22F750 | 8 | 2.045 | 118 | 110 | 103 | 32 | 145 | 206 | 129 | 44 |
| 3 | 80 | 10 | VSA22F900 | 4 | 3.250 | 140 | 128 | 120 | 36 | 168 | 242 | 143 | 51 |
| 4 | 100 | 10 | VSA22F910 | 2 | 5.820 | 160 | 150 | 141 | 43 | 210 | 282 | 169 | 61 |

PF 2 02 956 010

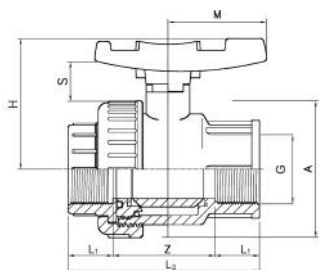
Double union safeblock PVC-U
Ball valve with spigots PE100 SDR11



| d | PN | EPDM | SP | Weight | L2 | L | L3 | L1 | H | D | e |
|------|-------|-----------|----|--------|------|------|------|------|------|------|------|
| (mm) | (bar) | Code | | (kg) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |
| 20 | 16 | VSA22B200 | 30 | 0.210 | 42 | 175 | 40 | 67 | 53 | 95 | 1.8 |
| 25 | 16 | VSA22B250 | 20 | 0.210 | 48 | 195 | 45 | 77 | 60 | 105 | 2.3 |
| 32 | 16 | VSA22B320 | 10 | 0.310 | 54 | 147 | 51 | 87 | 67 | 115 | 2.9 |
| 40 | 16 | VSA22B400 | 10 | 0.450 | 62 | 233 | 59 | 102 | 79 | 140 | 3.6 |
| 50 | 16 | VSA22B500 | 6 | 0.800 | 72 | 265 | 70 | 119 | 90 | 150 | 4.5 |
| 63 | 16 | VSA22B630 | 3 | 1.255 | 86 | 278 | 84 | 146 | 107 | 165 | 5.7 |
| 75 | 16 | VSA22B750 | 1 | 2.400 | 110 | 348 | 103 | 179 | 129 | 185 | 6.8 |
| 90 | 10 | VSA22B900 | 1 | 3.625 | 128 | 350 | 120 | 209 | 143 | 200 | 8.2 |
| 110 | 10 | VSA22B910 | 1 | 6.100 | 150 | 412 | 141 | 250 | 169 | 220 | 10.0 |

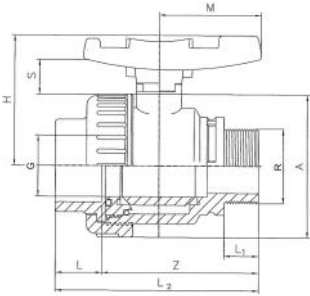
PF 2 02 956 010

Single union safeblock B.S.P. PVC-U
Ball valve with threaded sockets G



| G | DN | PN | EPDM | SP | Weight | H | L2 | L1 | A | S | M | Z |
|--------|------|-------|-----------|-----|--------|------|------|------|------|------|------|------|
| (inch) | (mm) | (bar) | Code | | (kg) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |
| 3/8 | 10 | 16 | VSA18F160 | 180 | 0.100 | 53 | 76 | 14 | 50 | 19 | 40 | 48 |
| 1/2 | 15 | 16 | VSA18F200 | 180 | 0.100 | 53 | 80 | 16 | 50 | 19 | 40 | 48 |
| 3/4 | 20 | 16 | VSA18F250 | 120 | 0.160 | 60 | 91 | 19 | 59 | 19 | 45 | 53 |
| 1 | 25 | 16 | VSA18F320 | 75 | 0.230 | 67 | 102 | 22 | 68 | 21 | 51 | 58 |
| 1 1/4 | 32 | 16 | VSA18F400 | 45 | 0.335 | 79 | 120 | 26 | 80 | 25 | 59 | 68 |
| 1 1/2 | 40 | 16 | VSA18F500 | 30 | 0.515 | 90 | 140 | 31 | 94 | 27 | 70 | 78 |
| 2 | 50 | 16 | VSA18F630 | 18 | 0.890 | 107 | 169 | 38 | 115 | 29 | 84 | 93 |
| 2 1/2 | 65 | 10 | VSA18F750 | 8 | 1.620 | 129 | 206 | 44 | 145 | 32 | 103 | 118 |
| 3 | 80 | 10 | VSA18F900 | 5 | 2.420 | 143 | 242 | 51 | 168 | 36 | 120 | 140 |
| 4 | 100 | 10 | VSA18F910 | 2 | 4.015 | 169 | 282 | 61 | 210 | 43 | 141 | 160 |

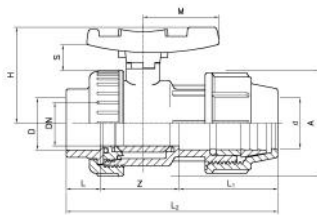
PF 2 02 956 010



Single union safeblock B.S.P. PVC-U
Ball valve with female threaded socket G/male thread R

| G | R | PN | EPDM | SP | Weight | A | S | Z | M | L1 | L2 | L | H |
|--------|--------|-------|-----------|-----|--------|------|------|------|------|------|------|------|------|
| (inch) | (inch) | (bar) | Code | | (kg) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |
| 3/8 | 3/8 | 16 | VSA18S160 | 180 | 0.095 | 50 | 19 | 53 | 40 | 12.0 | 67 | 14 | 53 |
| 1/2 | 1/2 | 16 | VSA18S200 | 180 | 0.095 | 50 | 19 | 55 | 40 | 15.0 | 71 | 16 | 53 |
| 3/4 | 3/4 | 16 | VSA18S250 | 120 | 0.150 | 59 | 19 | 61 | 45 | 16.5 | 80 | 19 | 60 |
| 1 | 1 | 16 | VSA18S320 | 75 | 0.210 | 68 | 21 | 68 | 51 | 19.5 | 90 | 22 | 67 |
| 1 1/4 | 1 1/4 | 16 | VSA18S400 | 45 | 0.320 | 80 | 25 | 84 | 59 | 21.5 | 110 | 26 | 79 |
| 1 1/2 | 1 1/2 | 16 | VSA18S500 | 30 | 0.500 | 94 | 27 | 97 | 70 | 21.5 | 128 | 31 | 90 |
| 2 | 2 | 16 | VSA18S630 | 18 | 0.845 | 115 | 29 | 119 | 84 | 25.5 | 157 | 38 | 107 |

PF 2 02 956 010



Single union safeblock PVC-U
Ball valve with compression fitting

| d-d | DN | PN | EPDM | SP | Weight | M | Z | L1 | L | H | A | L2 | S |
|---------|------|-------|-----------|----|--------|------|------|------|------|------|------|------|------|
| (mm) | (mm) | (bar) | Code | | (kg) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |
| 50 - 50 | 40 | 16 | VSA18P500 | 18 | 0.515 | 70 | 63 | 88 | 31 | 90 | 94 | 182 | 27 |

Spare parts for manual valves

PF 2 02 962 010



Blue handle

Suitable for VSA22 - VSA18

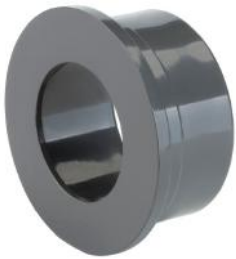
| d | DN | Code |
|---------|------|-----------|
| (mm) | (mm) | |
| 16 - 20 | 15 | 3VMNG1D20 |
| 25 | 20 | 3VMNG1D25 |
| 32 | 25 | 3VMNG1D32 |
| 40 | 32 | 3VMNG1D40 |
| 50 | 40 | 3VMNG1D50 |
| 63 | 50 | 3VMNG1D63 |
| 75 | 65 | 3VMNG1D75 |
| 90 | 75 | 3VMNG1D90 |
| 100 | 100 | 3VMNG1D91 |



Grey handle

Suitable for VSA11 - VSA21

| d (mm) | DN (mm) | Code |
|-----------|------------|------------------|
| 16 - 20 | 10 - 15 | 3VMNG0A20 |
| 25 | 20 | 3VMNG0A25 |
| 32 | 25 | 3VMNG0A32 |
| 40 | 32 | 3VMNG0A40 |
| 50 | 40 | 3VMNG0A50 |
| 63 | 50 | 3VMNG0A63 |
| 75 | 65 | 3VMNG0A75 |
| 90 | 80 | 3VMNG0A90 |
| 110 | 100 | 3VMNG0A91 |



Plain socket PVC-U metric

Suitable for VSA

| d (mm) | d (inch) | PN (bar) | Code |
|-----------|-------------|-------------|------------------|
| 16 | | 16 | 3VCLV1I16 |
| 20 | | 16 | 3VCLV1I20 |
| 25 | | 16 | 3VCLV1I25 |
| 32 | | 16 | 3VCLV1I32 |
| 40 | | 16 | 3VCLV1I40 |
| 50 | | 16 | 3VCLV1I50 |
| 63 | | 16 | 3VCLV1I63 |
| 75 | 2 ½ | 10 | 3VCLV1I75 |
| 90 | | 10 | 3VCLV1I90 |
| 110 | | 10 | 3VCLV1I91 |

PF 2 02 962 010



Gasket set

Suitable for VSA

| d (mm) | EPDM/ PTFE/PE Code | SP | Weight (kg) |
|-----------|--------------------------|----|----------------|
| 16 | XSASED160 | 10 | 0.010 |
| 20 | XSASED200 | 10 | 0.010 |
| 25 | XSASED250 | 10 | 0.010 |
| 32 | XSASED320 | 10 | 0.010 |
| 40 | XSASED400 | 10 | 0.015 |
| 50 | XSASED500 | 10 | 0.025 |
| 63 | XSASED630 | 10 | 0.035 |
| 75 | XSASED750 | 10 | 0.045 |
| 90 | XSASED900 | 10 | 0.070 |
| 110 | XSASED910 | 10 | 0.080 |



Nut PVC-U

Suitable for VSA - VSI - VR0 - VRI

| d (mm) | DN (mm) | Code |
|-----------|------------|------------------|
| 16 - 20 | 10 - 15 | 3VGHR0A20 |
| 25 | 20 | 3VGHR0A25 |
| 32 | 25 | 3VGHR0A32 |
| 40 | 32 | 3VGHR0A40 |
| 50 | 40 | 3VGHR0A50 |

table continued on the next page

| d (mm) | DN (mm) | Code |
|-----------|------------|------------------|
| 63 | 50 | 3VGHR0A63 |
| 75 | 65 | 3VGHR0A75 |
| 90 | 80 | 3VGHR0A90 |
| 110 | 100 | 3VGHR0A91 |



Threaded socket B.S.P. G PVC-U

Suitable for VSA

| G (inch) | PN (bar) | Code |
|-------------|-------------|------------------|
| 3/8 | 16 | 3VCLV1F16 |
| 1/2 | 16 | 3VCLV1F20 |
| 3/4 | 16 | 3VCLV1F25 |
| 1 | 16 | 3VCLV1F32 |
| 1 1/4 | 16 | 3VCLV1F40 |
| 1 1/2 | 16 | 3VCLV1F50 |
| 2 | 16 | 3VCLV1F63 |
| 2 1/2 | 10 | 3VCLV1F75 |
| 3 | 10 | 3VCLV1F90 |
| 4 | 10 | 3VCLV1F91 |



Socket PE100

• (*) Traded items
Suitable for VSA - VRO - VRV - VRI

| | d (mm) | DN (mm) | PN (bar) | Code |
|---|-----------|------------|-------------|-----------------|
| * | 20 | 15 | 10 | 3ECLV200 |
| * | 25 | 20 | 10 | 3ECLV250 |
| * | 32 | 25 | 10 | 3ECLV320 |
| * | 40 | 32 | 10 | 3ECLV400 |
| * | 50 | 40 | 10 | 3ECLV500 |
| * | 63 | 50 | 10 | 3ECLV630 |
| * | 75 | 65 | 10 | 3ECLV750 |
| * | 90 | 80 | 10 | 3ECLV900 |
| * | 110 | 100 | 10 | 3ECLV910 |

PF 2 02 962 011



Ball valve bracket With 2 bolts + 2 nuts

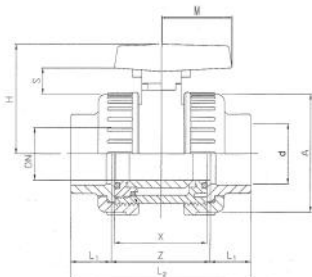
Suitable for VSA

| d (mm) | Code | SP | Weight (kg) |
|-----------|------------------|----|----------------|
| 20 | AVSSTF200 | 1 | 0.132 |
| 25 | AVSSTF250 | 1 | 0.142 |
| 32 | AVSSTF320 | 1 | 0.152 |
| 40 | AVSSTF400 | 1 | 0.197 |
| 50 | AVSSTF500 | 42 | 0.256 |
| 63 | AVSSTF630 | 28 | 0.356 |

PVC-U non safeblock water ball valves

PF 2 02 956 010

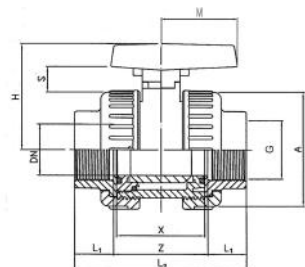
Double union ball valve ISO PVC-U With solvent cement sockets



| d (mm) | DN (mm) | PN (bar) | EPDM Code | SP | Weight (kg) | A (mm) | S (mm) | H (mm) | L2 (mm) | L1 (mm) | Z (mm) | X (mm) | M (mm) |
|-----------|------------|-------------|--------------|-----|----------------|-----------|-----------|-----------|------------|------------|-----------|-----------|-----------|
| 20 | 15 | 16 | VSA21I200 | 150 | 0.130 | 50 | 12 | 51 | 80 | 16 | 48 | 42 | 36 |
| 25 | 20 | 16 | VSA21I250 | 100 | 0.205 | 59 | 15 | 58 | 91 | 19 | 53 | 48 | 39 |
| 32 | 25 | 16 | VSA21I320 | 60 | 0.300 | 68 | 16 | 65 | 102 | 22 | 58 | 54 | 45 |
| 40 | 32 | 16 | VSA21I400 | 38 | 0.430 | 80 | 18 | 76 | 120 | 26 | 68 | 62 | 51 |
| 50 | 40 | 16 | VSA21I500 | 24 | 0.655 | 94 | 21 | 88 | 140 | 31 | 78 | 72 | 57 |
| 63 | 50 | 16 | VSA21I630 | 13 | 1.120 | 115 | 23 | 103 | 169 | 38 | 93 | 86 | 66 |

PF 2 02 956 010

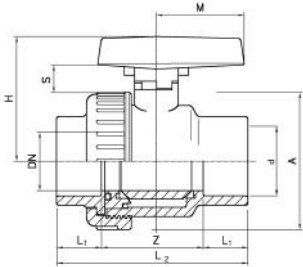
Double union ball valve B.S.P PVC-U With threaded sockets G



| G (inch) | DN (mm) | PN (bar) | EPDM Code | SP | Weight (kg) | H (mm) | L1 (mm) | A (mm) | L2 (mm) | S (mm) | M (mm) | X (mm) | Z (mm) |
|-------------|------------|-------------|--------------|-----|----------------|-----------|------------|-----------|------------|-----------|-----------|-----------|-----------|
| 1/2 | 15 | 16 | VSA21F200 | 150 | 0.130 | 51 | 16 | 50 | 80 | 12 | 36 | 42 | 48 |
| 3/4 | 20 | 16 | VSA21F250 | 100 | 0.205 | 58 | 19 | 59 | 91 | 15 | 39 | 48 | 53 |
| 1 | 25 | 16 | VSA21F320 | 60 | 0.300 | 65 | 22 | 68 | 102 | 16 | 45 | 54 | 58 |
| 1 1/4 | 32 | 16 | VSA21F400 | 38 | 0.430 | 76 | 26 | 80 | 120 | 18 | 51 | 62 | 68 |
| 1 1/2 | 40 | 16 | VSA21F500 | 24 | 0.655 | 88 | 31 | 94 | 140 | 21 | 57 | 72 | 78 |
| 2 | 50 | 16 | VSA21F630 | 16 | 1.120 | 103 | 38 | 115 | 169 | 23 | 66 | 86 | 93 |

PF 2 02 956 010

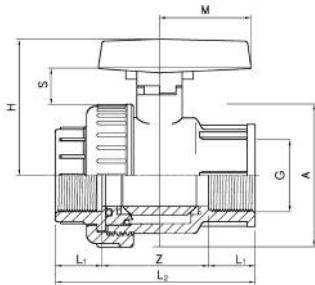
Single union ball valve ISO PVC-U
With solvent cement sockets



| d (mm) | DN (mm) | PN (bar) | EPDM Code | SP | Weight (kg) | S (mm) | A (mm) | L2 (mm) | H (mm) | M (mm) | Z (mm) | X (mm) | L1 (mm) |
|-----------|------------|-------------|--------------|-----|----------------|-----------|-----------|------------|-----------|-----------|-----------|-----------|------------|
| 20 | 15 | 16 | VSA11I200 | 180 | 0.103 | 12 | 50 | 80 | 51 | 36 | 48 | 42 | 16 |
| 25 | 20 | 16 | VSA11I250 | 120 | 0.160 | 15 | 59 | 91 | 58 | 39 | 53 | 48 | 19 |
| 32 | 25 | 16 | VSA11I320 | 75 | 0.230 | 16 | 68 | 102 | 65 | 45 | 58 | 54 | 22 |
| 40 | 32 | 16 | VSA11I400 | 48 | 0.340 | 18 | 80 | 120 | 76 | 51 | 68 | 62 | 26 |
| 50 | 40 | 16 | VSA11I500 | 30 | 0.525 | 21 | 94 | 140 | 88 | 57 | 78 | 72 | 31 |
| 63 | 50 | 16 | VSA11I630 | 16 | 0.890 | 23 | 115 | 169 | 103 | 66 | 93 | 86 | 38 |
| 75 | 65 | 10 | VSA11I750 | 8 | 1.645 | 24 | 145 | 206 | 124 | 78 | 118 | 110 | 44 |
| 90 | 80 | 10 | VSA11I900 | 5 | 2.450 | 26 | 168 | 242 | 137 | 84 | 140 | 128 | 51 |
| 110 | 100 | 10 | VSA11I910 | 2 | 4.100 | 28 | 210 | 282 | 162 | 96 | 160 | 150 | 61 |

PF 2 02 956 010

Single union ball valve B.S.P. PVC-U
With threaded sockets G



| G (inch) | DN (mm) | PN (bar) | EPDM Code | SP | Weight (kg) | Z (mm) | X (mm) | M (mm) | A (mm) | S (mm) | H (mm) | L2 (mm) | L1 (mm) |
|-------------|------------|-------------|--------------|-----|----------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|
| ½ | 15 | 16 | VSA11F200 | 180 | 0.105 | 48 | 42 | 36 | 50 | 12 | 51 | 80 | 16 |
| ¾ | 20 | 16 | VSA11F250 | 120 | 0.160 | 53 | 48 | 39 | 59 | 15 | 58 | 91 | 19 |
| 1 | 25 | 16 | VSA11F320 | 75 | 0.230 | 58 | 54 | 45 | 68 | 16 | 65 | 102 | 22 |
| 1 ¼ | 32 | 16 | VSA11F400 | 48 | 0.335 | 68 | 62 | 51 | 80 | 18 | 76 | 120 | 26 |
| 1 ½ | 40 | 16 | VSA11F500 | 30 | 0.515 | 78 | 72 | 57 | 94 | 21 | 88 | 140 | 31 |
| 2 | 50 | 16 | VSA11F630 | 18 | 0.893 | 93 | 86 | 66 | 115 | 23 | 103 | 169 | 38 |

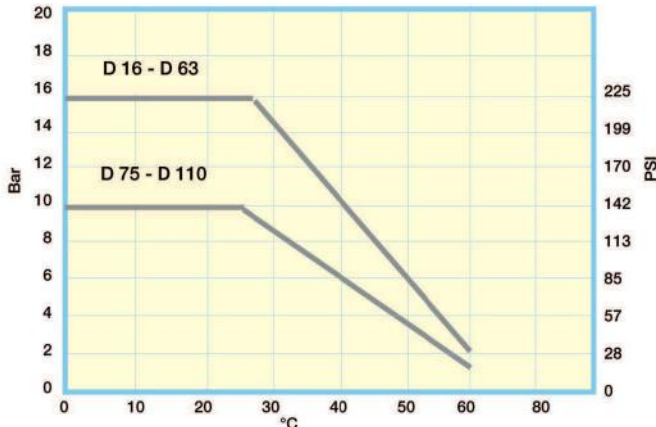
PVC-U Irrigation black ball valves

General characteristics

Black PVC ball valve - economy type - recommended for outdoor installation and irrigation system mainly. It is available with F/F - M/F, quick joint connection.

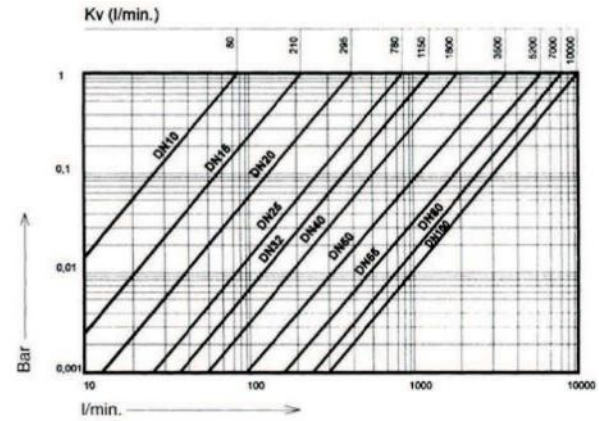
MAX WORKING PRESSURE

The a. m. technical information should be used as a guide. Please consult our Technical dpt for specific queries.



Pressure temperature rating for water and harmless liquid.

CHARGE LOSS



With water at 20°C and the valve in open position

TORQUE

| D | G | Nm |
|-------|-----------|-----|
| 16-20 | 3/8"-1/2" | 0,8 |
| 25 | 3/4" | 2,5 |
| 32 | 1" | 4 |
| 40 | 1" 1/4 | 8 |
| 50 | 1" 1/2 | 10 |
| 63 | 2" | 14 |
| 75 | 2" 1/2 | 25 |
| 90 | 3" | 32 |
| 110 | 4" | 50 |

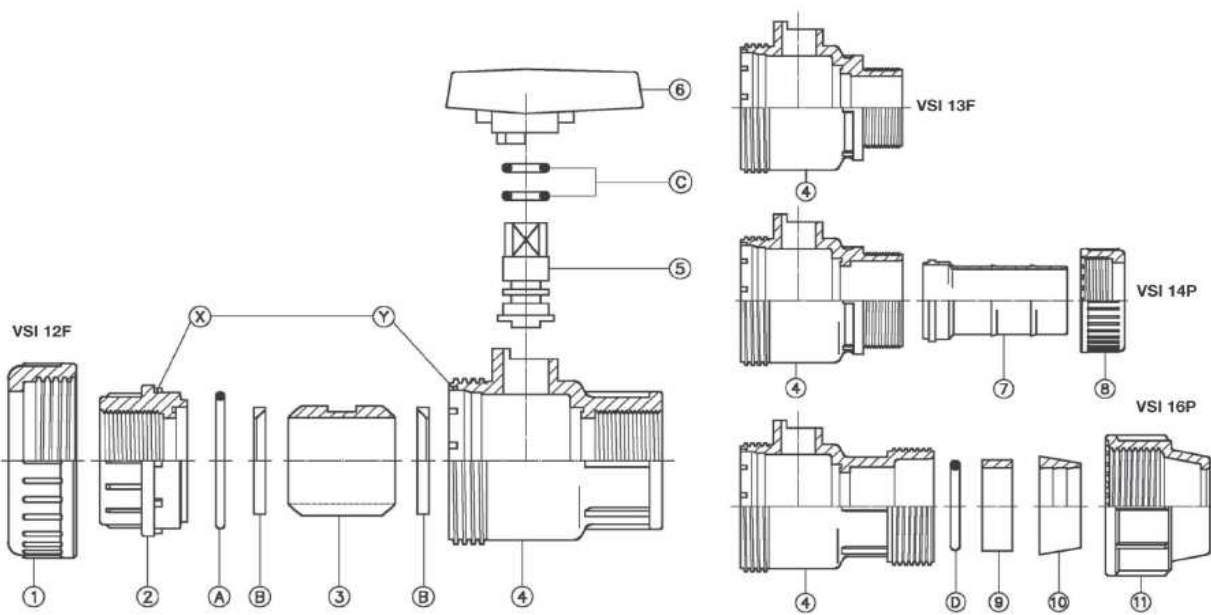
Max torque at max working pressure.

Installation and use

For a perfect sealing it is recommended to wind up completely the threaded male end with a good quality PTFE tape. All connection with cone-shaped male threads should be carefully avoided as they can finally break the female socket during jointing or running procedures. Avoid use of keys to screw the nuts because they can produce breakings. Sand or other impurities must be absent before starting the installation because they can damage the ball or the seat.

The use of wrench is not allowed. It is important to avoid rapid closure/opening of the valve to eliminate the possibility of water hammer causing damage to the pipeline. It is necessary that all installation and maintenance personnel become familiar with the proper solvent cement and thread joining procedures. TP technical dept. will be glad to support you with installation instruction leaflets.

PVC-U Irrigation black ball valves



VALVE COMPONENTS

| Pos | Components | n° | Material |
|-----|----------------------|----|----------|
| 1 | Union nut | 1 | PVC |
| 2 | Support | 1 | PVC |
| 3 | Ball | 1 | PVC |
| 4 | Body | 1 | PVC |
| 5 | Stem | 1 | PVC |
| 6 | Handle | 1 | PVC |
| 7 | Hose adaptor | 1 | PP |
| 8 | Hose adaptor nut | 1 | PVC |
| 9 | Packing presser bush | 1 | PVC |
| 10 | Clip-ring | 1 | POM |
| 11 | Quick joint nut | 1 | PVC |
| A | O-ring support | 1 | EPDM |
| B | Ball seal | 2 | PTFE+PE |
| C | O-ring stem | 2 | EPDM |
| D | Quick joint O-ring | 1 | EPDM |

PVC: Polyvinyl chloride

EPDM: Ethylene-propylene

PTFE+PE: Polytetra+fluoroethylene+polyethylene

POM: Polyacetale

PP: Polypropylene honopolymere thermoresistant

DISASSEMBLING AND REASSEMBLING IN CASE OF MAINTENANCE

Single union VSI cannot be radially disassembled from the installation.

TP does not recommend to take out the support (2) from its seat when making up the connection. In any case if the valve is disassembled, be sure that the socket O-ring (A) does not come out of its groove and insert the teeth (X) of the support

(2) in their correct seat (Y).

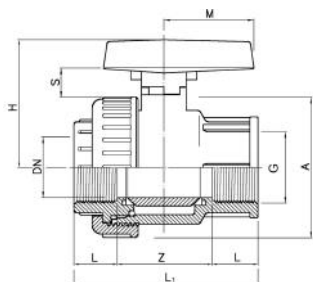
After taking out the support (2) it is possible to reach the internal parts of the valve in order to check the state of the O-ring and substitute them if necessary.

To reassemble the valve please act the other way taking care of replacing the O-ring correctly into their seats duly cleaned.

PVC-U irrigation black ball valves

PF 2 02 958 010

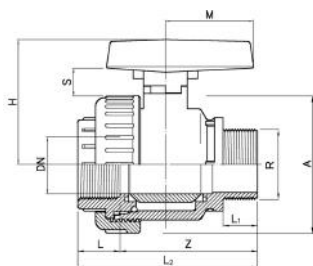
Single union ball valve B.S.P PVC-U With threaded sockets G



| G (inch) | PN (bar) | EPDM Code | SP | Weight (kg) | A (mm) | L (mm) | S (mm) | M (mm) | Z (mm) | L1 (mm) | H (mm) |
|-------------|-------------|--------------|-----|----------------|-----------|-----------|-----------|-----------|-----------|------------|-----------|
| ½ | 16 | VSI12F200 | 200 | 0.095 | 50 | 16 | 12 | 36 | 36 | 68 | 51 |
| ¾ | 16 | VSI12F250 | 120 | 0.150 | 59 | 19 | 15 | 39 | 42 | 80 | 58 |
| 1 | 16 | VSI12F320 | 75 | 0.220 | 68 | 22 | 16 | 45 | 46 | 90 | 65 |
| 1 ¼ | 16 | VSI12F400 | 50 | 0.320 | 80 | 24 | 18 | 51 | 53 | 101 | 76 |
| 1 ½ | 16 | VSI12F500 | 30 | 0.490 | 94 | 24 | 21 | 57 | 63 | 111 | 88 |
| 2 | 16 | VSI12F630 | 18 | 0.830 | 115 | 28 | 23 | 66 | 78 | 134 | 103 |
| 2 ½ | 10 | VSI12F750 | 10 | 1.525 | 145 | 33 | 24 | 78 | 96 | 162 | 124 |
| 3 | 10 | VSI12F900 | 6 | 2.260 | 168 | 36 | 26 | 84 | 108 | 180 | 137 |
| 4 | 10 | VSI12F910 | 2 | 4.370 | 210 | 42 | 28 | 96 | 139 | 223 | 162 |

PF 2 02 958 010

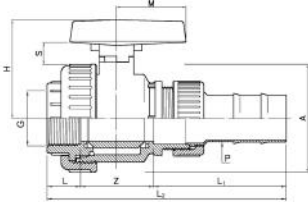
Single union ball valve B.S.P PVC-U With threaded socket G/male thread R



| R (inch) | PN (bar) | EPDM Code | SP | Weight (kg) | L1 (mm) | Z (mm) | M (mm) | S (mm) | A (mm) | L2 (mm) | L (mm) | H (mm) |
|-------------|-------------|--------------|-----|----------------|------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|
| ½ | 16 | VSI13F200 | 200 | 0.095 | 15 | 55 | 36 | 12 | 50 | 71 | 16 | 51 |
| ¾ | 16 | VSI13F250 | 120 | 0.150 | 17 | 61 | 39 | 15 | 59 | 80 | 19 | 58 |
| 1 | 16 | VSI13F320 | 75 | 0.210 | 20 | 68 | 45 | 16 | 68 | 90 | 22 | 65 |
| 1 ¼ | 16 | VSI13F400 | 50 | 0.320 | 22 | 84 | 51 | 18 | 80 | 108 | 24 | 76 |
| 1 ½ | 16 | VSI13F500 | 30 | 0.495 | 22 | 97 | 57 | 21 | 94 | 121 | 24 | 88 |
| 2 | 16 | VSI13F630 | 18 | 0.845 | 26 | 119 | 66 | 23 | 115 | 147 | 28 | 103 |

PF 2 02 958 010

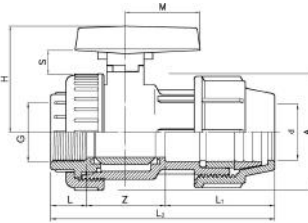
Valve with nut and hose adaptor PVC-U



| d (mm) | G (inch) | PN (bar) | EPDM Code | SP | Weight (kg) | M (mm) | Z (mm) | H (mm) | L1 (mm) | L2 (mm) | L (mm) | S (mm) | A (mm) |
|-----------|-------------|-------------|------------------|----|----------------|-----------|-----------|-----------|------------|------------|-----------|-----------|-----------|
| 32 | 1 | 16 | VSI14P32D | 50 | 0.260 | 66 | 68 | 103 | 75 | 165 | 22 | 23 | 115 |

PF 2 02 958 010

Valve with compression fitting PVC-U



| d (mm) | G (inch) | PN (bar) | EPDM Code | SP | Weight (kg) | L1 (mm) | H (mm) | M (mm) | S (mm) | A (mm) | L2 (mm) | L (mm) | Z (mm) |
|-----------|-------------|-------------|------------------|-----|----------------|------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|
| 20 | 3/8 | 16 | VSI16P200 | 130 | 0.135 | 50 | 52 | 36 | 12 | 50 | 102 | 16 | 36 |
| 25 | 3/4 | 16 | VSI16P250 | 90 | 0.200 | 57 | 58 | 39 | 15 | 59 | 118 | 19 | 42 |
| 32 | 1 | 16 | VSI16P320 | 50 | 0.300 | 64 | 65 | 45 | 16 | 68 | 132 | 22 | 46 |
| 40 | 1 1/4 | 16 | VSI16P400 | 10 | 0.460 | 76 | 76 | 51 | 18 | 80 | 153 | 24 | 53 |
| 50 | 1 1/2 | 16 | VSI16P500 | 20 | 0.730 | 88 | 88 | 57 | 21 | 94 | 175 | 24 | 63 |
| 63 | 2 | 16 | VSI16P630 | 12 | 1.200 | 100 | 103 | 66 | 23 | 115 | 206 | 28 | 78 |

PVC-U One flow direction valves

General characteristics

Compact double union valve: all one direction valves are realized with the same dimensions of our ball valves VSA and can be disassembled from the network simply by unscrewing the two unions nuts.

VRO allows the passage of the liquid in one direction only. VRO type orientated as a foot valve allows the passage of the liquid acting as a foot valve. As an air release valve

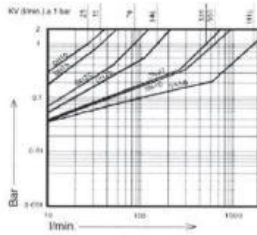
acts releasing the air until the liquid reaches the floating wedge closing the valve and maintaining therefore the liquid under pressure.

Materials chemical resistances according to ISO/TR 10358.

Please consult the supplier about applications and details.

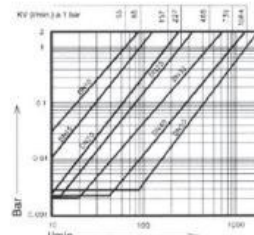
VRO CHARGE LOSS

The a. m. technical information should be used as a guide. Please consult our Technical dpt for specific questions.

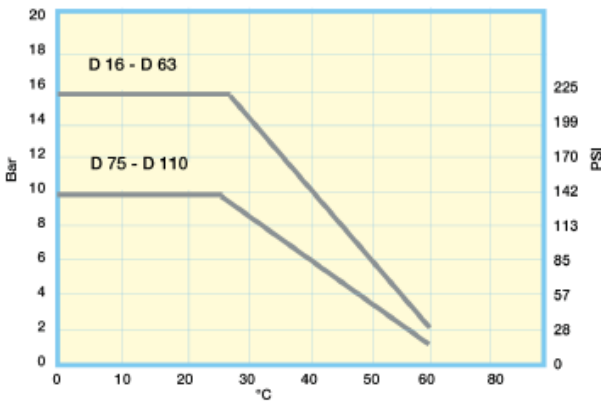


With water at 20°C (valve with spring)

VRV-VRF CHARGE LOSS



With water at 20°C (valve without spring)



Pressure temperature rating for water an harmless liquid.

PRESSURE

| D | G | VRO mm H ₂ O | VRV/VRF mm H ₂ O | Weight g |
|----|--------|----------------------------|--------------------------------|-------------|
| 16 | 3/8" | 150 | 23 | 4 |
| 20 | 1/2" | 150 | 23 | 4 |
| 25 | 3/4" | 70 | 25 | 8 |
| 32 | 1" | 32 | 22 | 11 |
| 40 | 1 1/4" | 40 | 21 | 17 |
| 50 | 1 1/2" | 38 | 24 | 30 |
| 63 | 2" | 44 | 29 | 56 |

Min. opening pressure of spring and own weight (water column).

Installation and use

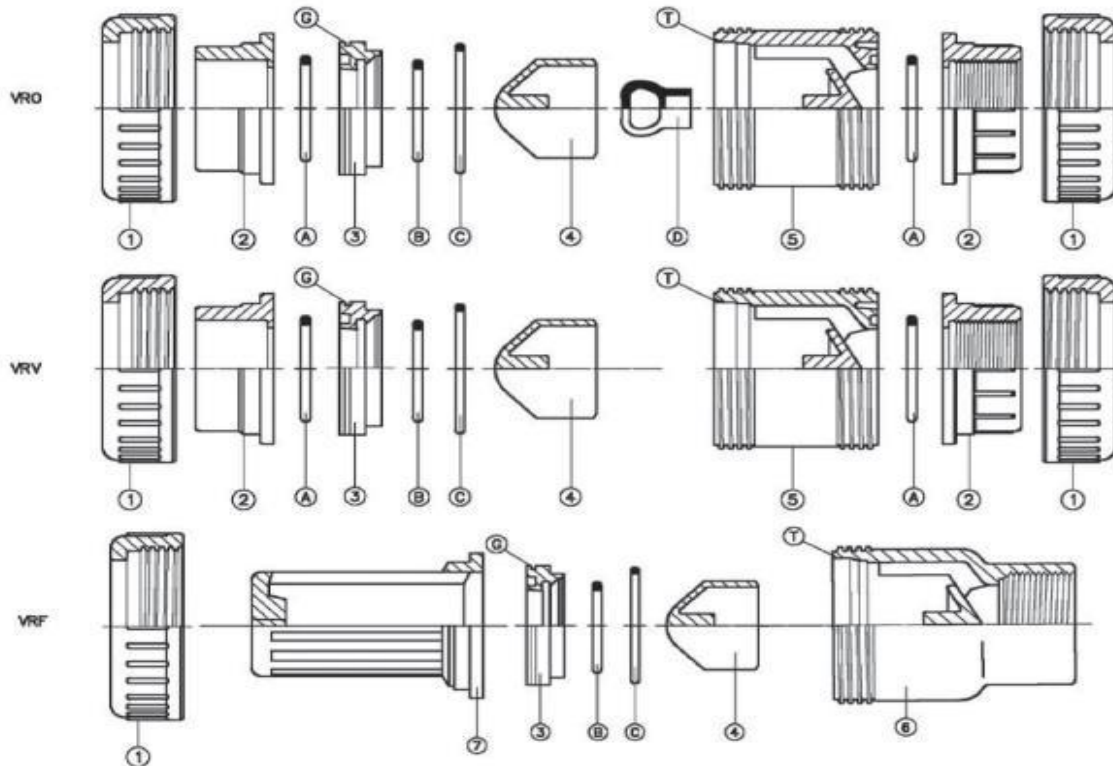
Be careful during the glueing of the end connector of the pipes; the glue or solvent must absolutely not run into the wedge or O' ring of the valve. Threaded ends should not be connected with cone-shaped male threads and the use of hemp or similar materials should be carefully avoided. A special attention should be paid to the correct line-up of the installation and to the pipe length. Tighten the union nut hand tight only.

The use of wrench is not allowed. It is important that the

unions are not used to pull the system together. If there is any leakage from the union nuts, please check the correct line-up of the system and the pipe length. An excessive tightening of the unions could finally break them.

Before the valve is cycled, all dirt, sand or other material should be flushed from the system. This is to prevent scarring of the ball and/or seats. It is necessary that all installation and maintenance personnel become familiar with the proper solvent cement and thread joining procedure.

PVC-U One flow direction valves



PRESSURE

| Pos | Components | n° | | | Material |
|-----|----------------|-----|-----|-----|----------|
| | | VRO | VRV | VRF | |
| 1 | Union nut | 2 | 2 | 1 | PVC |
| 2 | End connector | 2 | 2 | - | PVC |
| 3 | Support | 1 | 1 | 1 | PVC |
| 4 | Wedge | 1 | 1 | 1 | PVC |
| 5 | Body | 1 | 1 | - | PVC |
| 6 | Threaded body | - | - | 1 | PVC |
| 7 | Screen | - | - | 1 | PP |
| A | O-ring body | 2 | 2 | 1 | EPDM |
| B | O-ring wedge | 1 | 2 | 1 | EPDM |
| C | O-ring support | 1 | 1 | 1 | EPDM |
| D | Spring wedge | 1 | - | - | EPDM |

PVC: Polyvinyl chloride

EPDM: Ethylene-propylene (DUTRAL®)

Disassembling and reassembling in case of maintenance

Unscrewing the union nut (1) it is possible to take out radially from the system the whole central group of the valve.

To reach the internal parts of the valve act as follows:

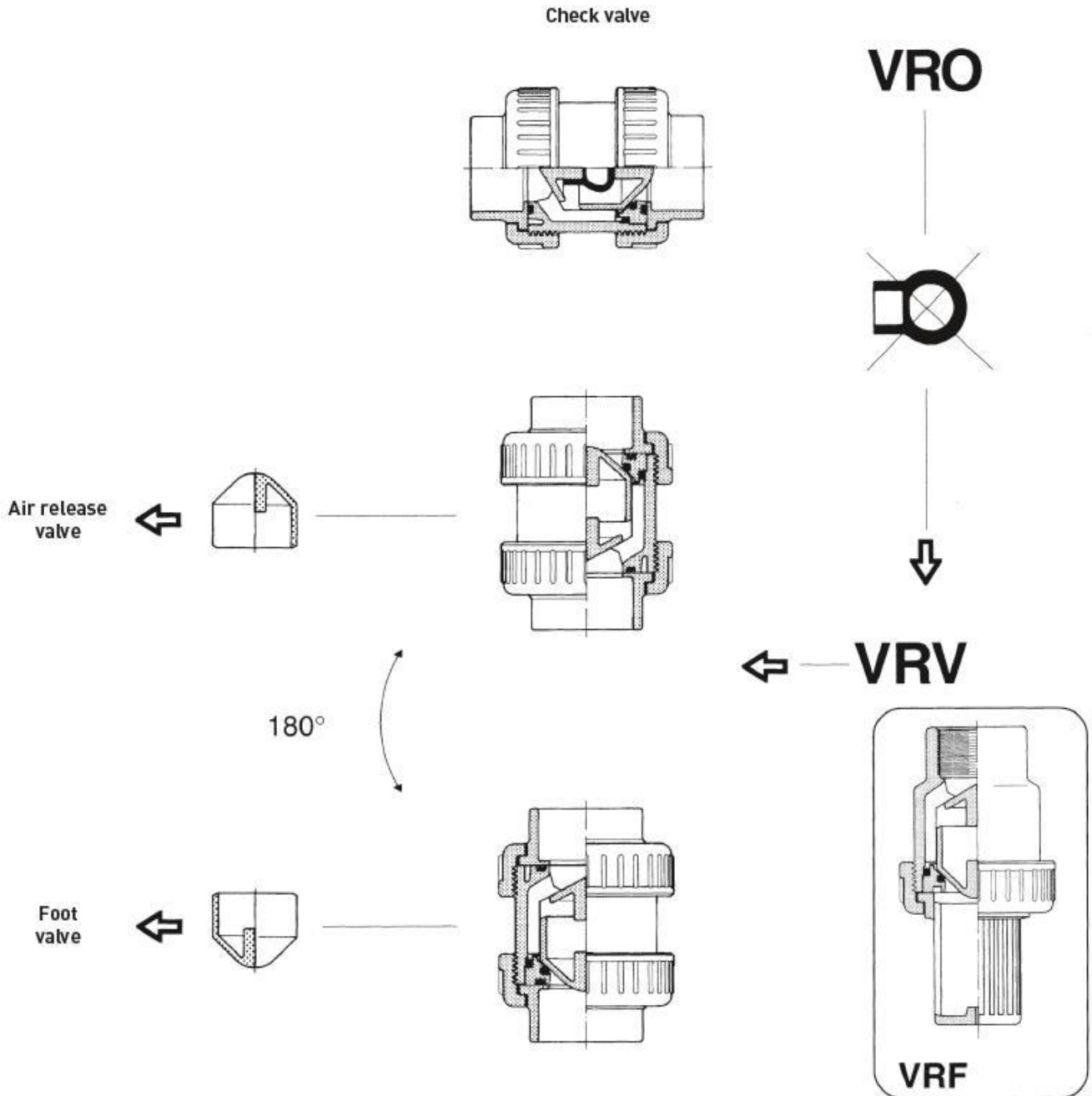
- 1 Take out the support (3) from the body (5) levering with a screwdriver between the two gates T of the body and the groove G of the support.

- 2 After disassembling the support (3) and taking out the O-ring C that has stayed inside the body (5), it is possible to reach all the parts of the valve and check the O-rings and in case substitute them.

To assemble the valve act in the opposite way being careful to set the O-ring properly and greased it with silicon grease.

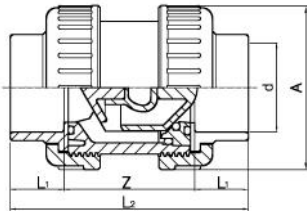
PVC-U One flow direction valves

The VRO type has an internal rubber spring. Taking out the internal spring and orientating the valve in the right way, it is become either a foot valve or an air release. The valve VR range has the same dimensions as the ball valves VSA, allowing this way a unique way of fixing to the wall thanks to the same type of clamping (cf. STF).



PVC-U one flow direction

PF 2 02 961 010



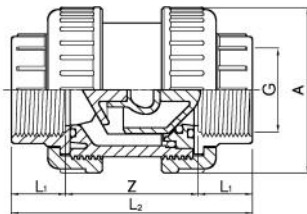
Check valve ISO PVC-U With solvent cement sockets

Model:

- Rubber spring
- Standards:ISO 727, EN 1452, DIN 8063, NF T54-028, BS 4346/1
- (*)Body and dimensions = 3"

| d (mm) | d (inch) | DN (mm) | PN (bar) | EPDM Code | SP Weight (kg) | L1 (mm) | L2 (mm) | A (mm) | X (mm) | Z (mm) | |
|-----------|-------------|------------|-------------|--------------|----------------------|------------|------------|-----------|-----------|-----------|-----|
| 16 | | 10 | 16 | VR021I160 | 32 | 0.100 | 14 | 76 | 50 | 42 | 48 |
| 20 | | 15 | 16 | VR021I200 | 32 | 0.100 | 16 | 80 | 50 | 42 | 48 |
| 25 | | 20 | 16 | VR021I250 | 32 | 0.175 | 19 | 91 | 59 | 48 | 53 |
| 32 | | 25 | 16 | VR021I320 | 20 | 0.245 | 22 | 102 | 68 | 54 | 58 |
| 40 | | 32 | 16 | VR021I400 | 15 | 0.375 | 26 | 120 | 80 | 62 | 68 |
| 50 | | 40 | 16 | VR021I500 | 6 | 0.580 | 31 | 140 | 94 | 72 | 78 |
| 63 | | 50 | 16 | VR021I630 | 4 | 1.000 | 38 | 169 | 115 | 86 | 93 |
| * | 2 ½ | 65 | 10 | VR021I750 | 2 | 2.950 | 44 | 206 | 168 | 110 | 118 |
| 90 | | 80 | 10 | VR021I900 | 2 | 3.000 | 51 | 242 | 168 | 128 | 140 |

PF 2 02 961 010



Check valve B.S.P. PVC-U With threaded sockets G

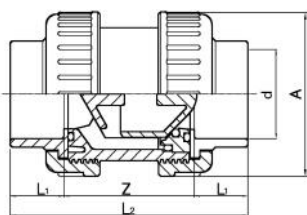
- Standards:UNI ISO 228/1, DIN 2999, BS21
- (*)Body and dimensions = 3"

Model:

- Rubber spring

| G (inch) | DN (mm) | PN (bar) | EPDM Code | SP Weight (kg) | L2 (mm) | A (mm) | L1 (mm) | X (mm) | Z (mm) | |
|-------------|------------|-------------|--------------|----------------------|------------|-----------|------------|-----------|-----------|-----|
| ¾ | 10 | 16 | VR021F160 | 32 | 0.110 | 76 | 50 | 14 | 42 | 48 |
| ½ | 15 | 16 | VR021F200 | 32 | 0.110 | 80 | 50 | 16 | 42 | 48 |
| ¾ | 20 | 16 | VR021F250 | 32 | 0.175 | 91 | 59 | 19 | 48 | 53 |
| 1 | 25 | 16 | VR021F320 | 20 | 0.245 | 102 | 68 | 22 | 54 | 58 |
| 1 ¼ | 32 | 16 | VR021F400 | 15 | 0.370 | 116 | 80 | 24 | 62 | 68 |
| 1 ½ | 40 | 16 | VR021F500 | 6 | 0.565 | 126 | 94 | 24 | 72 | 78 |
| 2 | 50 | 16 | VR021F630 | 4 | 0.995 | 149 | 115 | 28 | 86 | 93 |
| * | 2 ½ | 65 | VR021F750 | 2 | 2.845 | 184 | 168 | 33 | 128 | 118 |
| 3 | 80 | 10 | VR021F900 | 2 | 2.960 | 212 | 168 | 36 | 128 | 140 |

PF 2 02 961 010

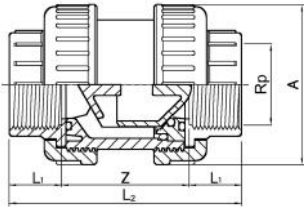


Air release/foot valve ISO PVC-U With solvent cement sockets

- (*)Body and dimensions = 3"
- Standards:ISO 727, EN 1452, DIN 8063, NF T54-028, BS 4346/1

| d (mm) | d (inch) | DN (mm) | PN (bar) | EPDM Code | SP Weight (kg) | Z (mm) | A (mm) | L1 (mm) | L2 (mm) | |
|-----------|-------------|------------|-------------|--------------|----------------------|-----------|-----------|------------|------------|-----|
| 16 | | 10 | 16 | VRV21I160 | 32 | 0.110 | 48 | 50 | 14 | 76 |
| 20 | | 15 | 16 | VRV21I200 | 32 | 0.110 | 48 | 50 | 16 | 80 |
| 25 | | 20 | 16 | VRV21I250 | 32 | 0.175 | 53 | 59 | 19 | 91 |
| 32 | | 25 | 16 | VRV21I320 | 20 | 0.245 | 58 | 68 | 22 | 102 |
| 40 | | 32 | 16 | VRV21I400 | 15 | 0.375 | 68 | 80 | 26 | 120 |
| 50 | | 40 | 16 | VRV21I500 | 6 | 0.575 | 78 | 94 | 31 | 140 |
| 63 | | 50 | 16 | VRV21I630 | 4 | 0.990 | 93 | 115 | 38 | 169 |
| * | 2 ½ | 65 | 10 | VRV21I750 | 2 | 2.845 | 118 | 168 | 44 | 206 |
| 90 | | 80 | 10 | VRV21I900 | 2 | 2.900 | 140 | 168 | 51 | 242 |

PF 2 02 961 010

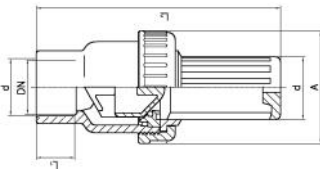
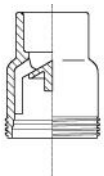


**Air release/foot valve B.S.P. PVC-U
With threaded sockets Rp**

- Standards: UNI ISO 228/1, DIN 2999, BS21
- (*)Body and dimensions = 3"

| | Rp (inch) | DN (mm) | PN (bar) | EPDM Code | SP | Weight (kg) | Z (mm) | L1 (mm) | A (mm) | L2 (mm) |
|---|--------------|------------|-------------|------------------|----|----------------|-----------|------------|-----------|------------|
| | 3/8 | 10 | 16 | VRV21F160 | 32 | 0.110 | 48 | 14 | 50 | 76 |
| | 1/2 | 15 | 16 | VRV21F200 | 32 | 0.110 | 48 | 16 | 50 | 80 |
| | 3/4 | 20 | 16 | VRV21F250 | 32 | 0.175 | 53 | 19 | 59 | 91 |
| | 1 | 25 | 16 | VRV21F320 | 20 | 0.240 | 58 | 22 | 68 | 102 |
| | 1 1/4 | 32 | 16 | VRV21F400 | 15 | 0.370 | 68 | 24 | 80 | 116 |
| | 1 1/2 | 40 | 16 | VRV21F500 | 6 | 0.555 | 78 | 24 | 94 | 126 |
| | 2 | 50 | 16 | VRV21F630 | 4 | 0.985 | 93 | 28 | 115 | 149 |
| * | 2 1/2 | 65 | 10 | VRV21F750 | 2 | 2.870 | 118 | 33 | 168 | 184 |
| | 3 | 80 | 10 | VRV21F900 | 2 | 2.870 | 140 | 36 | 168 | 212 |

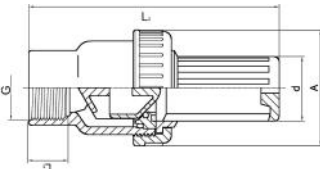
PF 2 02 961 010



**Foot valve PVC-U with PP screen
With solvent cement socket**

| DN (mm) | PN (bar) | EPDM Code | SP | Weight (kg) | L2 (mm) | A (mm) | L1 (mm) |
|------------|-------------|------------------|-----|----------------|------------|-----------|------------|
| 15 | 16 | VRF11I200 | 200 | 0.074 | 110 | 50 | 16 |
| 20 | 16 | VRF11I250 | 120 | 0.120 | 130 | 59 | 19 |
| 25 | 16 | VRF11I320 | 60 | 0.175 | 145 | 68 | 22 |
| 32 | 16 | VRF11I400 | 40 | 0.259 | 162 | 80 | 26 |
| 40 | 16 | VRF11I500 | 21 | 0.399 | 187 | 94 | 31 |
| 50 | 16 | VRF11I630 | 15 | 0.690 | 215 | 115 | 38 |
| 80 | 10 | VRF11I900 | 5 | 2.045 | 275 | 168 | 51 |

PF 2 02 961 010



Foot valve B.S.P. PVC-U threaded with PP screen

| G (inch) | PN (bar) | EPDM Code | SP | Weight (kg) | L1 (mm) | L2 (mm) | d (mm) | A (mm) |
|-------------|-------------|------------------|-----|----------------|------------|------------|-----------|-----------|
| 1/2 | 16 | VRF11F200 | 200 | 0.074 | 16 | 110 | 23 | 50 |
| 3/4 | 16 | VRF11F250 | 120 | 0.120 | 19 | 130 | 30 | 59 |
| 1 | 16 | VRF11F320 | 60 | 0.175 | 22 | 145 | 38 | 68 |
| 1 1/4 | 16 | VRF11F400 | 40 | 0.259 | 24 | 160 | 48 | 80 |
| 1 1/2 | 16 | VRF11F500 | 21 | 0.399 | 24 | 180 | 57 | 94 |
| 2 | 16 | VRF11F630 | 15 | 0.690 | 28 | 205 | 71 | 115 |
| 3 | 10 | VRF11F900 | 5 | 2.045 | 36 | 260 | 110 | 168 |

Spare parts



Rubber spring

Suitable for VRO

| d (mm) | EPDM Code |
|-----------|------------------|
| 20 | 2MLL01D20 |
| 25 | 2MLL01D25 |
| 32 | 2MLL01D32 |
| 40 | 2MLL01D40 |
| 50 | 2MLL01D50 |
| 63 | 2MLL01D63 |
| 75 - 90 | 2MLL01D90 |

PF 2 02 962 010



Foot valve PP screen

Suitable for VRF

| d (mm) | G (inch) | PN (bar) | Code | SP | Weight (kg) |
|-----------|-------------|-------------|------------------|-----|----------------|
| 20 | ½ | 16 | ARVSCPF20 | 150 | 0.010 |
| 25 | ¾ | 16 | ARVSCPF25 | 90 | 0.012 |
| 32 | 1 | 16 | ARVSCPF32 | 50 | 0.019 |
| 40 | 1 ¼ | 16 | ARVSCPF40 | 30 | 0.030 |
| 50 | 1 ½ | 16 | ARVSCPF50 | 20 | 0.045 |
| 63 | 2 | 16 | ARVSCPF63 | 12 | 0.072 |
| 90 | 3 | 16 | ARVSCPF90 | 4 | 0.165 |

PVC-U wafer check valves

PF 2 02 956 013



Wafer check valve standard PVC-U Without spring

- Other diameters on request
- (*) Traded items

| | d (mm) | DN (mm) | PN (bar) | EPDM Code | SP | Weight (kg) |
|---|-----------|------------|-------------|-----------------|----|----------------|
| * | 75 | 65 | 10 | VVCLP750 | 30 | 0.406 |
| * | 90 | 80 | 10 | VVCLP900 | 24 | 0.468 |
| * | 110 | 100 | 10 | VVCLP910 | 15 | 0.660 |
| * | 125 | 125 | 10 | VVCLP920 | 15 | 0.850 |
| * | 160 | 150 | 10 | VVCLP940 | 5 | 1.250 |
| * | 200 | 200 | 10 | VVCLP960 | 4 | 2.230 |

PVC-U Butterfly Valves

General description

VFA Butterfly Valves are designed to guarantee reliability, safety, top level performance and simple operation. The rational, compact shape and the construction concept simplify assembly and routine maintenance operations. VFA valves are ideally suited for water and neutral fluids.

Technical features

Available versions

- Lever-operated
- Pre-assembled with flanges
- With pneumatic actuators
- With electric actuators

Dimensions

- All versions from DN65 to DN200

Body material

- PVC-U

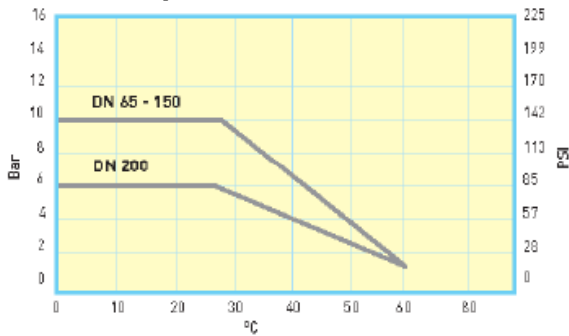
Gasket material

- EPDM disk gasket – O rings
- SANTOPRENE™ flange gaskets

Stem material

- Zinc plated steel

Operating Pressure versus temperature



Functional Features

| VALVE SIZE DN Inch | OPERATING TORQUE New Valve at operating PN | TIGHTENING TORQUE (with PVC-U/Metal Flanges) |
|-----------------------|---|---|
| 65 – 2 1/2" | 11 Nm * | 15 Nm |
| 80 – 3" | 14 Nm * | 20 Nm |
| 100 – 4" | 16 Nm * | 23 Nm |
| 125 – 5" | 26 Nm * | 30 Nm |
| 150 – 6" | 35 Nm * | 30 Nm |
| 200 – 8" | 50 Nm * | 50 Nm |

* Reference value: These values can change, depending on the specific application and also over time

Applications

VFA Butterfly Valves have been designed to be used mainly in contact with water and neutral fluids in different applications such as public and private swimming pools, water parks, thermal pools, Spa's, irrigation and aquaculture.

Pressure

- From DN65 to DN150: PN 10
- DN200: PN 6

Temperature

- 0 °C + 60 °C

Flange Connecting Standards

- ISO – DIN – BS – ANSI

Conformity

- Ministerial Decree 174

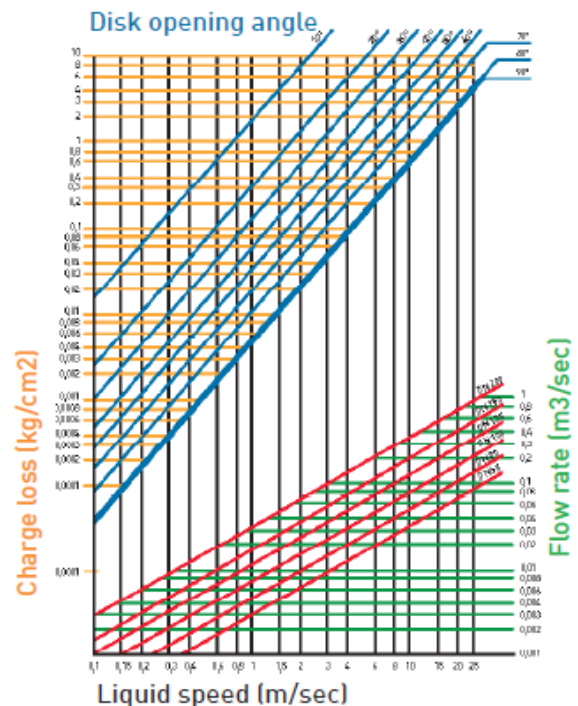
Actuators

- 24 V electric actuators
- Single/double-acting pneumatic actuators

Valve standards

- Conform to ISO 16136 - Pr EN 1452 - ISO 9393

Charge Loss



PVC-U Butterfly Valves - Assembly instructions



1. Insert the bolts, washers and nuts without tightening in the lower part between the flanges. Take the valve out of its package, carefully checking its integrity and that it is perfectly clean.



2. Insert the valve in the "CLOSED" position between the flanges until the slots in the lower part of the body rest directly on the bolts, taking care to maintain parallelism with the flanges.



3. Insert the remaining bolts, washers and nuts in the upper part between the flanges. Tighten the nuts/bolts in across pattern until the tightening torque indicated is reached. (TAB. A) We recommend that you use a torque wrench.



4-5. Check that:

- the flanges adhere perfectly to the valve body
- correct parallelism is maintained between the valve and the flanges
- an axial position is maintained relative to the pipe.

6. Use the safety stop if necessary

Operate the valve with no load, checking that movements are smooth and there are no abnormal stresses.

BUTTERFLY VALVE DISASSEMBLY INSTRUCTIONS

Before proceeding, make sure that:

- All valves upstream and downstream of the one to be worked on are closed.
- The system has been depressurized.
- The pipe has been completely emptied.

Carry out the assembly operations described in reverse order.

We recommend to clean the internal components of the valve as well as to open and close the valve itself regularly.

By complete disassembling of the valve, please pay attention to put the gaskets in the correct positioning

TAB. A

| VALVE DN | TIGHTENING TOR@UE‡ |
|-------------|--------------------|
| 65 - 2" 1/2 | 15 Nm |
| 80 - 3" | 20 Nm |
| 100 - 4" | 23 Nm |
| 125 - 5" | 30 Nm |
| 150 - 6" | 30 Nm |
| 200 - 8" | 50 Nm |

*WITH PVCU/METAL FLANES

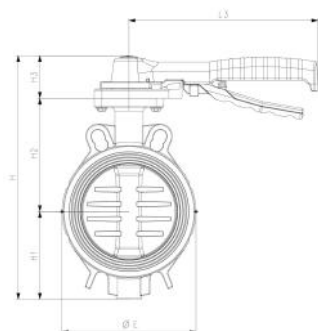
PVC-U butterfly valves

PF 2 02 960 010

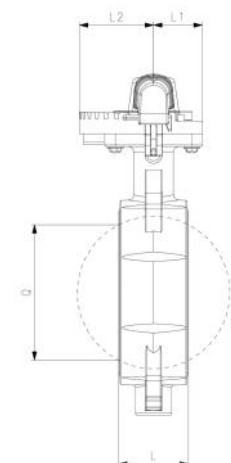


Lever-operated butterfly valve PVC-U With EPDM/SANTOPRENE™gaskets

| d (mm) | DN (mm) | DN (inch) | PN (bar) | Code | SP | Weight (kg) |
|-----------|------------|--------------|-------------|-----------|----|----------------|
| 75 | 65 | 2 ½ | 10 | VFA02D750 | 1 | 1.300 |
| 90 | 80 | 3 | 10 | VFA02D900 | 1 | 1.290 |
| 110 | 100 | 4 | 10 | VFA02D910 | 1 | 1.500 |
| 125 - 140 | 125 | 5 | 10 | VFA02D920 | 1 | 2.300 |
| 160 | 150 | 6 | 10 | VFA02D940 | 1 | 3.350 |
| 200 - 225 | 200 | 8 | 6 | VFA02D960 | 1 | 5.400 |



| d (mm) | H3 (mm) | L3 (mm) | Q (mm) | H2 (mm) | L (mm) | L2 (mm) | L1 (mm) | H (mm) | E (mm) | H1 (mm) | H4 (mm) |
|-----------|------------|------------|-----------|------------|-----------|------------|------------|-----------|-----------|------------|------------|
| 75 | 55 | 220 | 46 | 115 | 46 | 70 | 46 | 246 | 112 | 76 | 43 |
| 90 | 55 | 220 | 64 | 120 | 48 | 70 | 46 | 267 | 128 | 92 | 43 |
| 110 | 55 | 220 | 84 | 130 | 54 | 70 | 46 | 291 | 152 | 106 | 43 |
| 125 - 140 | 55 | 250 | 108 | 150 | 63 | 70 | 46 | 321 | 177 | 116 | 43 |
| 160 | 55 | 250 | 133 | 169 | 63 | 70 | 46 | 356 | 212 | 131 | 43 |
| 200 - 225 | 61 | 282 | 180 | 209 | 74 | 70 | 46 | 433 | 260 | 163 | 43 |



PF 2 02 960 010



Lever-operated butterfly valve PVC-U With free flanges kit With EPDM/SANTOPRENE™gaskets

| d (mm) | DN (mm) | PN (bar) | DN (inch) | Code | SP | Weight (kg) |
|-----------|------------|-------------|--------------|-----------|----|----------------|
| 75 | 65 | 10 | 2 ½ | VFA02D75K | 1 | 4.650 |
| 90 | 80 | 10 | 3 | VFA02D90K | 1 | 4.879 |
| 110 | 100 | 10 | 4 | VFA02D91K | 1 | 5.858 |
| 125 | 125 | 10 | 5 | VFA02D92K | 1 | 7.100 |
| 140 | 125 | 10 | 5 | VFA02D93K | 1 | 10.850 |
| 160 | 150 | 10 | 6 | VFA02D94K | 1 | 11.930 |
| 200 | 200 | 6 | 8 | VFA02D96K | 1 | 13.950 |
| 225 | 200 | 6 | 8 | VFA02D97K | 1 | 13.950 |

Butterfly valves kits

PF 2 02 960 010



Kit including backing flanges PVC-U
Stub and screws

| d (mm) | DN (inch) | DN (mm) | PN (bar) | Code | SP | Weight (kg) |
|-----------|--------------|------------|-------------|-----------|----|----------------|
| 75 | 2 ½ | 65 | 10 | XVFFLIZ75 | 1 | 3.350 |
| 90 | 3 | 80 | 10 | XVFFLIZ90 | 1 | 3.585 |
| 110 | 4 | 100 | 10 | XVFFLIZ91 | 1 | 1.899 |
| 125 | 5 | 125 | 10 | XVFFLIZ92 | 1 | 4.800 |
| 140 | 5 | 125 | 10 | XVFFLIZ93 | 1 | 4.800 |
| 160 | 6 | 150 | 10 | XVFFLIZ94 | 1 | 7.500 |
| 200 | 8 | 200 | 6 | XVFFLIZ96 | 1 | 8.550 |
| 225 | 8 | 200 | 6 | XVFFLIZ97 | 1 | 8.550 |

Spare parts for butterfly valves



Coloured handle

Suitable for VFA02D

| DN-DN (mm) | DN-DN (inch) | d-d (mm) | Code | SP |
|---------------|-----------------|-------------|----------|----|
| 65 - 100 | 2 ½ - 4 | 75 - 110 | 3V0VFM04 | 1 |
| 125 - 150 | 5 - 6 | 125 - 160 | 3V0VFM05 | 1 |
| 200 - 200 | 8 - 8 | 200 - 225 | 3V0VFM06 | 1 |



Disk seal

- suitable for VFA02D
- (*) Traded items

| d (mm) | DN (mm) | DN (inch) | EPDM Code | |
|-----------|------------|--------------|--------------|------------|
| * | 75 | 65 | 2 ½ | 2G0VF10D75 |
| * | 90 | 80 | 3 | 2G0VF10D90 |
| * | 110 | 100 | 4 | 2G0VF10D91 |
| * | 125 - 140 | 125 | 5 | 2G0VF10D92 |
| * | 160 | 150 | 6 | 2G0VF10D94 |
| * | 200 - 225 | 200 | 8 | 2G0VF10D96 |



External gasket kit in EPDM/SANTOPRENE™

- suitable for VFA02D
- (*) Traded items

| d (mm) | DN (inch) | DN (mm) | Code | |
|-----------|--------------|------------|------|------------|
| * | 75 | 2 ½ | 65 | 2G0VF1ED75 |
| * | 90 | 3 | 80 | 2G0VF1ED90 |
| * | 110 | 4 | 100 | 2G0VF1ED91 |
| * | 125 - 140 | 5 | 125 | 2G0VF1ED92 |
| * | 160 | 6 | 150 | 2G0VF1ED94 |
| * | 200 - 225 | 8 | 200 | 2G0VF1ED96 |

External O ring

- Suitable for external Gasket 2GOVF1ED
- (*) Traded items



| | d (mm) | DN (mm) | DN (inch) | Code | GP |
|---|-----------|------------|--------------|-------------------|----|
| * | 75 - 90 | 80 | 2 ½ | 1ORD03037T | 8 |
| * | 110 | 100 | 4 | 1ORD03043T | 10 |
| * | 125 - 140 | 125 | 5 | 1ORD00117T | 10 |
| * | 160 | 150 | 6 | 1ORD03068T | 10 |
| * | 200 | 200 | 8 | 1ORD03093T | 10 |



Actuator fixing bracket

Suitable for VFA

| DN (mm) | Code | SP |
|------------|------------------|----|
| 65 - 150 | 3VOVFSG01 | 1 |
| 200 | 3VOVFSG02 | 1 |

PVC-U Actuated Butterfly Valves

The range of new VFA valves is also available in pneumatic and electric actuated versions from DN 65 to DN 200. The design and operating features of the VFA valves allow extremely reduced operating torques, supporting the choice of compact, cost effective actuators.

VFK50

Butterfly valve with 24V AC electric actuator EPDM/SANTOPRENE™ gaskets

Electric actuator features:

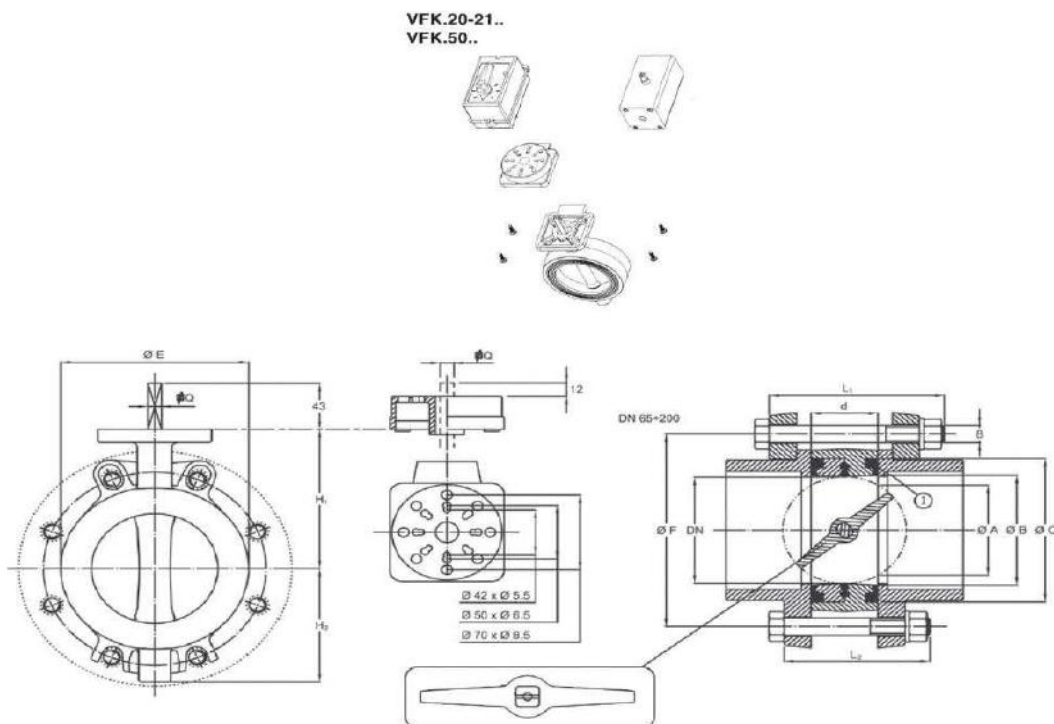
- Power supply: 24 at 50 Hz.
- Operating time: DN 65-80: 50 sec
DN 100-125: 1 min.
DN 150-200: 150 sec.
- Fail-safe open: standard
- Auxiliary contacts: 2 standard
- Protection: IP 65
- Connection standard: ISO 5211

VFK2....

Butterfly valve with pneumatic actuator EPDM/SANTOPRENE™ gaskets

Pneumatic actuator features:

- Versions: single/double-acting
- Power supply: filtered compressed air, not necessarily lubricated
- Operating pressure: 6 bar
- Operating temperature for actuator only: from 0°C to + 80°C (from – 20°C to + 80°C in dry air)
- Connection standard: ISO 5211
- Angle of rotation: 90°C
- Namur connector for accessories



| | ISO UNI-DIN PN 10 | ISO UNI-DIN PN 16 | B54504 TAB. 16/3 TAB. 10/3 | ANSI 150 lbs | JIS | DN | G | D | øA | øB | øC | d | L ₁ | L ₂ | B | øE | Q | H ₁ | H ₂ |
|-----|-------------------------|-------------------------|----------------------------------|--------------------|-----|-----|---------|---------|-----|-----|-----|-----|----------------|----------------|-----|-----|-----|----------------|----------------|
| øF | 145 | 145 | 145 | 140 | 140 | 65 | 2" 1/2 | 75 | 49 | 73 | 98 | 46 | 130 | 120 | 16 | 112 | 11 | 115 | 76 |
| | 160 | 160 | 160 | 152 | - | 80 | 3" | 90 | 64 | 83 | 112 | 48 | 130 | 120 | 16 | 128 | 11 | 120 | 86 |
| | 180 | 180 | 181 | 190 | - | 100 | 4" | 110 | 85 | 103 | 134 | 54 | 150 | 120 | 16 | 152 | 11 | 130 | 106 |
| | 210 | 210 | 210 | 216 | 210 | 125 | 5" | 125/140 | 108 | 129 | 158 | 63 | 160 | 160 | 16 | 177 | 14 | 150 | 116 |
| | 240 | 240 | 241 | 241 | 240 | 150 | 6" | 160 | 134 | 154 | 190 | 69 | 180 | 180 | 20 | 212 | 14 | 170 | 132 |
| 295 | 295 | 295 | 298 | - | 200 | 8" | 200/225 | 180 | 198 | 232 | 72 | 200 | 200 | 20 | 262 | 17 | 209 | 163 | |

PVC-U actuated butterfly valves

PF 2 02 959 010



Butterfly valve pneumatic PVC-U With EPDM/SANTOPRENE™ gaskets

| d (mm) | DN (mm) | DN (inch) | PN (bar) | ACTING TYPE | Code | SP | Weight (kg) |
|-----------|------------|--------------|-------------|-------------|-----------|----|----------------|
| 75 | 65 | 2 ½ | 10 | DOUBLE | VFK20D750 | 1 | 2.600 |
| 90 | 80 | 3 | 10 | DOUBLE | VFK20D900 | 1 | 2.600 |
| 110 | 100 | 4 | 10 | DOUBLE | VFK20D910 | 1 | 3.016 |
| 125 - 140 | 125 | 5 | 10 | DOUBLE | VFK20D920 | 1 | 6.000 |
| 160 | 150 | 6 | 6 | DOUBLE | VFK20D940 | 1 | 6.700 |
| 200 - 225 | 200 | 8 | 6 | DOUBLE | VFK20D960 | 1 | 6.700 |
| 75 | 65 | 2 ½ | 10 | SINGLE | VFK21D750 | 1 | 2.600 |
| 90 | 80 | 3 | 10 | SINGLE | VFK21D900 | 1 | 5.600 |
| 110 | 100 | 4 | 10 | SINGLE | VFK21D910 | 1 | 7.700 |
| 125 - 140 | 125 | 5 | 10 | SINGLE | VFK21D920 | 0 | 8.500 |
| 160 | 150 | 6 | 6 | SINGLE | VFK21D940 | 0 | 9.250 |
| 200 - 225 | 200 | 8 | 6 | SINGLE | VFK21D960 | 0 | 9.250 |

PF 2 02 959 010



Butterfly valve electric 24V AC PVC-U With EPDM/SANTOPRENE™ gaskets

| d (mm) | DN (inch) | DN (mm) | PN (bar) | Code | SP | GP | Weight (kg) |
|-----------|--------------|------------|-------------|-----------|----|----|----------------|
| 75 | 2 ½ | 65 | 10 | VFK50D750 | 1 | 0 | 1.750 |
| 90 | 3 | 80 | 10 | VFK50D900 | 1 | 0 | 1.750 |
| 110 | 4 | 100 | 10 | VFK50D910 | 1 | 0 | 1.916 |
| 125 - 140 | 5 | 125 | 10 | VFK50D920 | 0 | 1 | 4.300 |
| 160 | 6 | 150 | 6 | VFK50D940 | 1 | 0 | 5.400 |
| 200 - 225 | 8 | 200 | 6 | VFK50D960 | 1 | 0 | 7.400 |

PVC-U Fittings and valves British standard range

Mechanical resistances

The following data are referred to water or not particularly aggressive liquids, at a working temperature of 20° C.

Materials

The PVC-U compound used by TP is stabilized unplasticized polyvinyl chloride.

Material chemical resistances according to ISO/TR10358

Coupling tolerance for solvent welding BS series, in accordance with:

fittings complying with:

BS 4346/1

Pipes complying with:

BS3505 e BS 3506

The following table reports diameter and tolerances of our fittings, according to prescription.

| Series | Dimensions | Class | PN |
|--------------------------|-----------------|--------|----------|
| Solvent welding (d inch) | from 3/8" to 3" | E | 15 |
| BS plain-ISO plain (T) | from 3/8" to 6" | E | 15 |
| Adaptor (R) | from 3/8" to 2" | E D | 15 12 |

Note: 1) Class D; 2) Class C

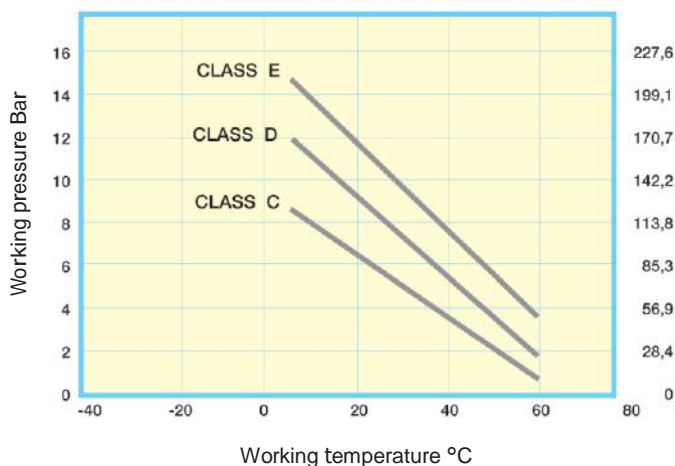
Safety factors at 20° C

| Class | NP nominal pressure | 1 hour | 50years |
|-------|---------------------|--------|---------|
| E | 15 Bar | 3,6 | 2,1 |
| D | 12 Bar | 4,5 | 2,6 |
| C | 9 Bar | 6,0 | 3,5 |

Dimensions in mm

| D | Outside diam. of male fittings | | Inside diam. of female fittings | |
|--------|--------------------------------|--------|---------------------------------|--------|
| | Min | Max | Min | Max |
| 3/8" | 17,00 | 17,20 | 17,10 | 17,30 |
| 1/2" | 21,20 | 21,40 | 21,30 | 21,50 |
| 3/4" | 26,60 | 26,80 | 26,70 | 26,90 |
| 1" | 33,40 | 33,60 | 33,50 | 33,70 |
| 1 1/4" | 42,10 | 42,30 | 42,20 | 42,40 |
| 1 1/2" | 48,10 | 48,30 | 48,20 | 48,40 |
| 2" | 60,20 | 60,40 | 60,30 | 60,50 |
| 2 1/2" | 75,10 | 75,40 | 75,10 | 75,30 |
| 3" | 88,70 | 89,00 | 88,80 | 89,10 |
| 4" | 114,10 | 114,40 | 114,20 | 114,50 |
| 5" | 140,00 | 140,40 | 140,10 | 140,40 |
| 6" | 168,00 | 168,40 | 168,20 | 168,50 |
| 8" | 218,80 | 219,30 | 219,00 | 219,40 |

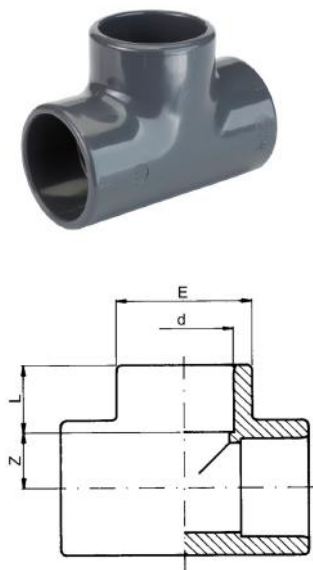
WORKING PRESSURE RANGE RELATING TO TEMPERATURE



PVC-U fittings solvent cement jointing

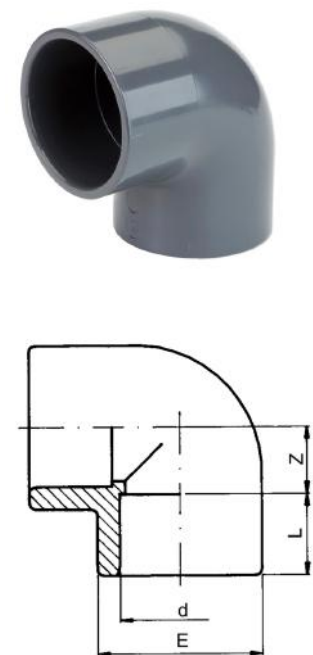
British standard Inch

Tee 90° PVC-U Inch BS



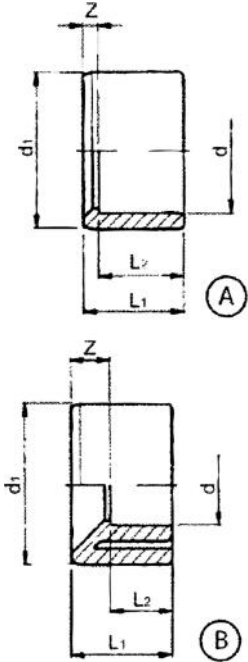
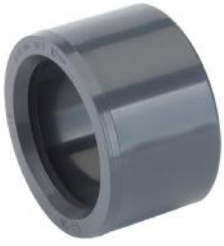
| d (mm) | d (inch) | PN (bar) | Code | PF | SP | GP | Weight (kg) | L (mm) | E (mm) | Z (mm) |
|-----------|-------------|-------------|------------------|--------------|----|-----|----------------|-----------|-----------|-----------|
| | 3/8 | 16 | RV0TIL160 | 2 01 952 010 | 10 | 280 | 0.012 | 14 | 23 | 9 |
| | 1/2 | 16 | RV0TIL200 | 2 01 952 010 | 10 | 150 | 0.023 | 16 | 27 | 11 |
| | 3/4 | 16 | RV0TIL250 | 2 01 952 010 | 10 | 100 | 0.030 | 19 | 33 | 14 |
| | 1 | 16 | RV0TIL320 | 2 01 952 010 | 10 | 130 | 0.065 | 22 | 41 | 17 |
| | 1 1/4 | 16 | RV0TIL400 | 2 01 952 010 | 90 | 0 | 0.127 | 27 | 52 | 21 |
| | 1 1/2 | 16 | RV0TIL500 | 2 01 952 010 | 50 | 0 | 0.208 | 32 | 61 | 26 |
| | 2 | 16 | RV0TIL630 | 2 01 952 010 | 25 | 0 | 0.315 | 37 | 75 | 33 |
| 75 | 2 1/2 | 16 | RV0TII750 | 2 01 950 010 | 35 | 0 | 0.523 | 44 | 89 | 39 |
| | 3 | 16 | RV0TIL900 | 2 01 952 010 | 24 | 0 | 0.820 | 52 | 107 | 45 |
| | 4 | 16 | RV0TIL910 | 2 01 952 010 | 10 | 0 | 1.330 | 63 | 133 | 62 |
| 140 | 5 | 16 | RV0TII930 | 2 01 950 010 | 6 | 0 | 2.650 | 76 | 163 | 72 |
| | 6 | 16 | RV0TIL940 | 2 01 952 010 | 4 | 0 | 4.300 | 93 | 198 | 86 |
| | 8 | 16 | RV0TIL970 | 2 01 952 010 | 15 | 0 | 11.300 | 116 | 258 | 116 |

Elbow 90° PVC-U Inch BS



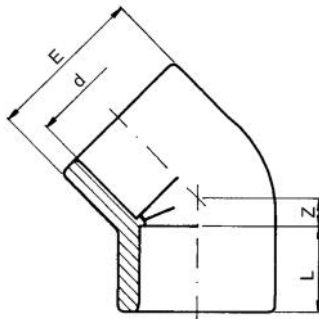
| d (mm) | d (inch) | PN (bar) | Code | PF | SP | GP | Weight (kg) | L (mm) | E (mm) | Z (mm) |
|-----------|-------------|-------------|------------------|--------------|-----|-----|----------------|-----------|-----------|-----------|
| | 3/8 | 16 | RV0GOL160 | 2 01 952 010 | 10 | 360 | 0.013 | 15 | 23 | 9 |
| | 1/2 | 16 | RV0GOL200 | 2 01 952 010 | 10 | 200 | 0.018 | 17 | 27 | 11 |
| | 3/4 | 16 | RV0GOL250 | 2 01 952 010 | 10 | 160 | 0.029 | 20 | 33 | 14 |
| | 1 | 16 | RV0GOL320 | 2 01 952 010 | 10 | 80 | 0.049 | 23 | 41 | 17 |
| | 1 1/4 | 16 | RV0GOL400 | 2 01 952 010 | 130 | 0 | 0.075 | 27 | 51 | 22 |
| | 1 1/2 | 16 | RV0GOL500 | 2 01 952 010 | 80 | 0 | 0.140 | 32 | 61 | 26 |
| | 2 | 16 | RV0GOL630 | 2 01 952 010 | 40 | 0 | 0.222 | 37 | 75 | 34 |
| 75 | 2 1/2 | 16 | RV0GOI750 | 2 01 950 010 | 50 | 0 | 0.386 | 44 | 89 | 39 |
| | 3 | 16 | RV0GOL900 | 2 01 952 010 | 30 | 0 | 0.600 | 52 | 107 | 45 |
| | 4 | 16 | RV0GOL910 | 2 01 952 010 | 15 | 0 | 1.060 | 63 | 133 | 58 |
| 140 | 5 | 16 | RV0GOI930 | 2 01 950 010 | 8 | 0 | 2.050 | 76 | 163 | 72 |
| | 6 | 16 | RV0GOL940 | 2 01 952 010 | 5 | 0 | 3.335 | 93 | 198 | 85 |
| | 8 | 16 | RV0GOL970 | 2 01 952 010 | 18 | 0 | 6.600 | 113 | 258 | 116 |

Reducing bush PVC-U Inch BS

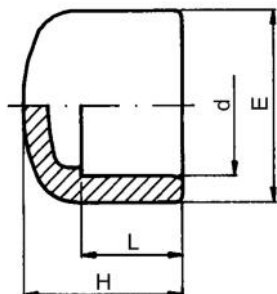


| | d (inch) | d1 (inch) | PN (bar) | Code | SP | GP | Weight (kg) | L1 (mm) | L2 (mm) | Z (mm) |
|---|-------------|--------------|-------------|------------------|-----|-----|----------------|------------|------------|-----------|
| | ½ | ¾ | 16 | RV0RCL20A | 10 | 800 | 0.003 | 17 | 15 | 2 |
| A | ¾ | ½ | 16 | RV0RCL25B | 10 | 600 | 0.006 | 20 | 17 | 3 |
| B | 1 | ½ | 16 | RV0RCL32B | 10 | 400 | 0.016 | 23 | 17 | 6 |
| A | 1 | ¾ | 16 | RV0RCL32C | 10 | 400 | 0.010 | 23 | 20 | 3 |
| A | 1 ¼ | 1 | 16 | RV0RCL40D | 250 | 0 | 0.016 | 27 | 23 | 5 |
| B | 1 ½ | 1 | 16 | RV0RCL50D | 180 | 0 | 0.035 | 30 | 23 | 8 |
| A | 1 ½ | 1 ¼ | 16 | RV0RCL50E | 180 | 0 | 0.020 | 30 | 27 | 3 |
| B | 2 | 1 | 16 | RV0RCL63D | 100 | 0 | 0.067 | 36 | 23 | 14 |
| A | 2 | 1 ½ | 16 | RV0RCL63F | 100 | 0 | 0.055 | 36 | 30 | 6 |
| B | 2 ½ | 1 ½ | 16 | RV0RCL75F | 130 | 0 | 0.122 | 44 | 30 | 14 |
| A | 2 ½ | 2 | 16 | RV0RCL75G | 130 | 0 | 0.080 | 44 | 36 | 8 |
| B | 3 | 1 ½ | 16 | RV0RCL90F | 80 | 0 | 0.200 | 51 | 30 | 21 |
| B | 3 | 2 | 16 | RV0RCL90G | 80 | 0 | 0.195 | 51 | 36 | 15 |
| A | 3 | 2 ½ | 16 | RV0RCL90H | 80 | 0 | 0.140 | 51 | 44 | 7 |
| B | 4 | 2 | 16 | RV0RCL91G | 45 | 0 | 0.370 | 36 | 36 | 27 |
| B | 4 | 2 ½ | 16 | RV0RCL91H | 42 | 0 | 0.370 | 63 | 44 | 19 |
| A | 4 | 3 | 16 | RV0RCL91I | 45 | 0 | 0.273 | 36 | 51 | 13 |
| B | 5 | 3 | 16 | RV0RCL93I | 48 | 0 | 0.550 | 76 | 51 | 26 |
| B | 6 | 4 | 16 | RV0RCL94L | 24 | 0 | 0.795 | 90 | 63 | 27 |
| B | 8 | 6 | 16 | RV0RCL970 | 9 | 0 | 1.860 | 116 | 90 | 26 |

Elbow 45° PVC-U Inch BS



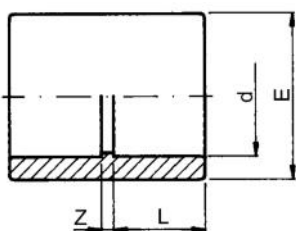
| d (inch) | d1 (mm) | PN (bar) | Code | PF | SP | GP | Weight (kg) | Z (mm) | L (mm) | E (mm) |
|-------------|------------|-------------|------------------|--------------|-----|-----|----------------|-----------|-----------|-----------|
| ¾ | | 16 | RV0GYL160 | 2 01 952 010 | 10 | 400 | 0.009 | 3 | 15 | 23 |
| ½ | | 16 | RV0GYL200 | 2 01 952 010 | 10 | 260 | 0.017 | 5 | 16 | 27 |
| ¾ | | 16 | RV0GYL250 | 2 01 952 010 | 10 | 150 | 0.029 | 6 | 19 | 33 |
| 1 | | 16 | RV0GYL320 | 2 01 952 010 | 10 | 100 | 0.047 | 8 | 22 | 41 |
| 1 ¼ | | 16 | RV0GYL400 | 2 01 952 010 | 80 | 0 | 0.065 | 10 | 27 | 52 |
| 1 ½ | | 16 | RV0GYL500 | 2 01 952 010 | 100 | 0 | 0.113 | 12 | 32 | 61 |
| 2 | | 16 | RV0GYL630 | 2 01 952 010 | 50 | 0 | 0.190 | 15 | 39 | 75 |
| 2 ½ | 75 | 16 | RV0GYI750 | 2 01 950 010 | 65 | 0 | 0.308 | 17 | 44 | 89 |
| 3 | | 16 | RV0GYL900 | 2 01 952 010 | 40 | 0 | 0.515 | 21 | 52 | 107 |
| 4 | | 16 | RV0GYL910 | 2 01 952 010 | 20 | 0 | 0.836 | 25 | 63 | 133 |
| 5 | 140 | 16 | RV0GYI930 | 2 01 950 010 | 8 | 0 | 1.600 | 31 | 76 | 163 |
| 8 | | 16 | RV0GYL970 | 2 01 952 010 | 24 | 0 | 4.900 | 46 | 116 | 249 |



Cap PVC-U Inch BS

| d (inch) | d (mm) | PN (bar) | Code | PF | SP | GP | Weight (kg) | E (mm) | L (mm) | H (mm) |
|-------------|-----------|-------------|------------------|--------------|-----|-----|----------------|-----------|-----------|-----------|
| 3/8 | | 16 | RVOCAL160 | 2 01 952 010 | 10 | 600 | 0.007 | 23 | 15 | 22 |
| 1/2 | | 16 | RVOCAL200 | 2 01 952 010 | 10 | 500 | 0.011 | 28 | 17 | 26 |
| 3/4 | | 16 | RVOCAL250 | 2 01 952 010 | 10 | 400 | 0.018 | 34 | 20 | 30 |
| 1 | | 16 | RVOCAL320 | 2 01 952 010 | 10 | 200 | 0.027 | 42 | 23 | 33 |
| 1 1/4 | | 16 | RVOCAL400 | 2 01 952 010 | 160 | 0 | 0.044 | 51 | 27 | 41 |
| 1 1/2 | | 16 | RVOCAL500 | 2 01 952 010 | 80 | 0 | 0.075 | 61 | 30 | 46 |
| 2 | | 16 | RVOCAL630 | 2 01 952 010 | 50 | 0 | 0.133 | 75 | 36 | 55 |
| 2 1/2 | 75 | 16 | RVOCAL750 | 2 01 950 010 | 25 | 0 | 0.187 | 89 | 44 | 64 |
| 3 | | 16 | RVOCAL900 | 2 01 952 010 | 50 | 0 | 0.325 | 106 | 51 | 73 |
| 4 | | 16 | RVOCAL910 | 2 01 952 010 | 25 | 0 | 0.520 | 129 | 63 | 87 |
| 5 | 140 | 16 | RVOCAL930 | 2 01 950 010 | 30 | 0 | 0.915 | 162 | 76 | 108 |
| 6 | | 16 | RVOCAL940 | 2 01 952 010 | 18 | 0 | 1.120 | 192 | 90 | 123 |

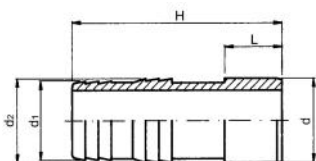
Double socket PVC-U Inch BS



| d (inch) | d (mm) | PN (bar) | Code | PF | SP | GP | Weight (kg) | E (mm) | L (mm) | Z (mm) |
|-------------|-----------|-------------|------------------|--------------|-----|-----|----------------|-----------|-----------|-----------|
| 3/8 | | 16 | RVOMAL160 | 2 01 952 010 | 10 | 500 | 0.009 | 23 | 14.5 | 3 |
| 1/2 | | 16 | RVOMAL200 | 2 01 952 010 | 10 | 300 | 0.015 | 27 | 16.0 | 3 |
| 3/4 | | 16 | RVOMAL250 | 2 01 952 010 | 10 | 200 | 0.021 | 33 | 19.0 | 3 |
| 1 | | 16 | RVOMAL320 | 2 01 952 010 | 10 | 130 | 0.034 | 41 | 22.0 | 3 |
| 1 1/4 | | 16 | RVOMAL400 | 2 01 952 010 | 100 | 0 | 0.057 | 52 | 27.0 | 3 |
| 1 1/2 | | 16 | RVOMAL500 | 2 01 952 010 | 60 | 0 | 0.099 | 61 | 32.0 | 3 |
| 2 | | 16 | RVOMAL630 | 2 01 952 010 | 70 | 0 | 0.175 | 75 | 37.0 | 3 |
| 2 1/2 | 75 | 16 | RVOMAL750 | 2 01 950 010 | 48 | 0 | 0.226 | 89 | 44.0 | 4 |
| 3 | | 16 | RVOMAL900 | 2 01 952 010 | 60 | 0 | 0.385 | 107 | 52.0 | 5 |
| 4 | | 16 | RVOMAL910 | 2 01 952 010 | 32 | 0 | 0.605 | 133 | 7.0 | 6 |
| 5 | 140 | 16 | RVOMAL930 | 2 01 950 010 | 14 | 0 | 1.100 | 162 | 76.0 | 8 |
| 6 | | 16 | RVOMAL940 | 2 01 952 010 | 9 | 0 | 1.540 | 198 | 90.0 | 8 |
| 8 | | 16 | RVOMAL970 | 2 01 952 010 | 2 | 0 | 3.550 | 253 | 120.0 | 10 |

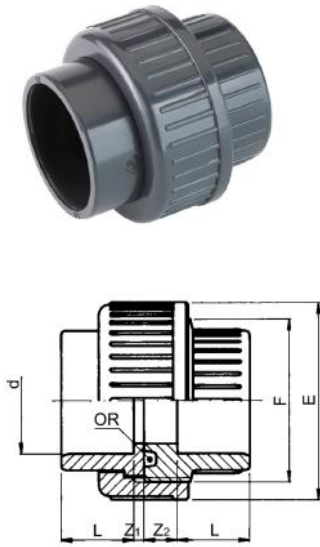
PF 2 01 952 010

Hose adaptor PVC-U Inch BS



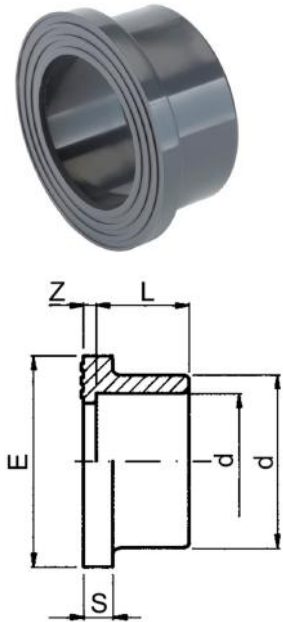
| d (inch) | PN (bar) | Code | SP | GP | Weight (kg) | H (mm) | d1 (mm) | d2 (mm) | L (mm) |
|-------------|-------------|------------------|-----|-----|----------------|-----------|------------|------------|-----------|
| 3/8 | 16 | RVOPGL160 | 10 | 400 | 0.010 | 60 | 16 | 18 | 15 |
| 1/2 | 16 | RVOPGL200 | 10 | 300 | 0.014 | 67 | 20 | 22 | 17 |
| 3/4 | 16 | RVOPGL250 | 10 | 200 | 0.020 | 74 | 25 | 27 | 20 |
| 1 | 16 | RVOPGL320 | 10 | 130 | 0.030 | 80 | 30 | 32 | 23 |
| 1 1/4 | 16 | RVOPGL400 | 180 | 0 | 0.055 | 92 | 40 | 42 | 27 |
| 1 1/2 | 16 | RVOPGL500 | 130 | 0 | 0.078 | 101 | 50 | 52 | 30 |
| 2 | 16 | RVOPGL630 | 150 | 0 | 0.142 | 111 | 60 | 64 | 36 |

Union with o-ring PVC-U Inch BS



| d (inch) | d (mm) | PN (bar) | Code | PF | SP | GP | Weight (kg) | F (inch) | Z2 (mm) | L (mm) | Z1 (mm) | E (mm) |
|-------------|-----------|-------------|------------------|--------------|----|-----|----------------|-------------|------------|-----------|------------|-----------|
| 3/8 | | 16 | RV0BOL160 | 2 01 952 010 | 10 | 250 | 0.025 | 3/4 | 10 | 15 | 3 | 34 |
| 1/2 | | 16 | RV0BOL200 | 2 01 952 010 | 10 | 150 | 0.040 | 1 | 10 | 16 | 3 | 42 |
| 3/4 | | 16 | RV0BOL250 | 2 01 952 010 | 10 | 100 | 0.066 | 1 1/4 | 10 | 19 | 3 | 52 |
| 1 | | 16 | RV0BOL320 | 2 01 952 010 | 10 | 60 | 0.088 | 1 1/2 | 10 | 22 | 3 | 59 |
| 1 1/4 | | 16 | RV0BOL400 | 2 01 952 010 | 90 | 0 | 0.152 | 2 | 12 | 27 | 3 | 73 |
| 1 1/2 | | 16 | RV0BOL500 | 2 01 952 010 | 60 | 0 | 0.215 | 2 1/4 | 14 | 32 | 3 | 82 |
| 2 | | 16 | RV0BOL630 | 2 01 952 010 | 36 | 0 | 0.350 | 2 3/4 | 18 | 39 | 3 | 100 |
| 2 1/2 | 75 | 16 | RV0BOL750 | 2 01 950 010 | 10 | 0 | 0.575 | 3 1/2 | 18 | 44 | 3 | 119 |
| 3 | | 16 | RV0BOL900 | 2 01 952 010 | 15 | 0 | 0.790 | 4 | 18 | 52 | 5 | 134 |
| 4 | | 16 | RV0BOL910 | 2 01 952 010 | 18 | 0 | 1.285 | 5 | 18 | 61 | 5 | 163 |

Flange adapter serrated PVC-U Inch BS



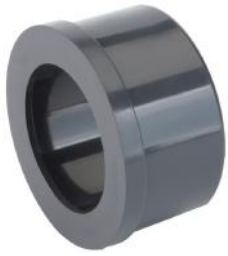
| d (inch) | DN (mm) | PN (bar) | Code | PF | SP | GP | Weight (kg) | Z (mm) | L (mm) | S (mm) | E (mm) |
|-------------|------------|-------------|------------------|--------------|-----|-----|----------------|-----------|-----------|-----------|-----------|
| 1/2 | | 16 | RV0QRL200 | 2 01 952 010 | 10 | 400 | 0.010 | 3 | 17 | 6 | 34 |
| 3/4 | | 16 | RV0QRL250 | 2 01 952 010 | 10 | 300 | 0.016 | 3 | 20 | 7 | 41 |
| 1 | | 16 | RV0QRL320 | 2 01 952 010 | 10 | 200 | 0.025 | 3 | 23 | 7 | 50 |
| 1 1/4 | | 16 | RV0QRL400 | 2 01 952 010 | 150 | 0 | 0.040 | 3 | 27 | 8 | 61 |
| 1 1/2 | | 16 | RV0QRL500 | 2 01 952 010 | 140 | 0 | 0.060 | 2 | 30 | 8 | 73 |
| 2 | | 16 | RV0QRL630 | 2 01 952 010 | 90 | 0 | 0.105 | 4 | 36 | 9 | 90 |
| 2 1/2 | 65 | 16 | RV0QRI750 | 2 01 950 010 | 50 | 0 | 0.170 | 3 | 44 | 10 | 106 |
| 3 | | 16 | RV0QRL900 | 2 01 952 010 | 38 | 0 | 0.277 | 3 | 51 | 11 | 125 |
| 4 | | 16 | RV0QRL910 | 2 01 952 010 | 24 | 0 | 0.380 | 6 | 63 | 12 | 150 |
| 5 | 125 | 16 | RV0QRI930 | 2 01 950 010 | 20 | 0 | 0.750 | 5 | 76 | 14 | 188 |
| 6 | | 16 | RV0QRL940 | 2 01 952 010 | 15 | 0 | 0.895 | 5 | 90 | 16 | 213 |
| 8 | | 16 | RV0QRL970 | 2 01 952 010 | 6 | 0 | 1.700 | 6 | 116 | 19 | 274 |

Union bush PVC-U Inch BS

Suitable for B0L

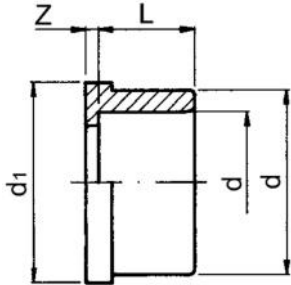


| d (inch) | d (mm) | PN (bar) | Code | PF | SP | Weight (kg) | Z (mm) | L (mm) | F (inch) |
|-------------|-----------|-------------|------------------|--------------|-----|----------------|-----------|-----------|-------------|
| 3/8 | | 16 | RV0BFL160 | 2 01 952 010 | 600 | 0.010 | 10 | 15 | 3/4 |
| 1/2 | | 16 | RV0BFL200 | 2 01 952 010 | 300 | 0.015 | 10 | 17 | 1 |
| 3/4 | | 16 | RV0BFL250 | 2 01 952 010 | 180 | 0.025 | 10 | 20 | 1 1/4 |
| 1 | | 16 | RV0BFL320 | 2 01 952 010 | 500 | 0.034 | 10 | 23 | 1 1/2 |
| 1 1/4 | | 16 | RV0BFL400 | 2 01 952 010 | 75 | 0.057 | 11 | 27 | 2 |
| 1 1/2 | | 16 | RV0BFL500 | 2 01 952 010 | 50 | 0.078 | 15 | 30 | 2 1/4 |
| 2 | | 16 | RV0BFL630 | 2 01 952 010 | 25 | 0.134 | 20 | 36 | 2 3/4 |
| 2 1/2 | 75 | 16 | RV0BFI750 | 2 01 950 010 | 125 | 0.205 | 18 | 44 | 3 1/2 |
| 3 | | 16 | RV0BFL900 | 2 01 952 010 | 80 | 0.270 | 19 | 51 | 4 |
| 4 | | 16 | RV0BFL910 | 2 01 952 010 | 48 | 0.465 | 16 | 63 | 5 |



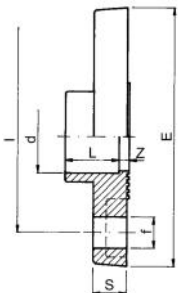
Union end PVC-U Inch BS

Suitable for BOL/BOR



| d (inch) | d (mm) | PN (bar) | Code | PF | SP | Weight (kg) | Z (mm) | L (mm) | d1 (mm) |
|-------------|-----------|-------------|------------------|--------------|------|----------------|-----------|-----------|------------|
| 3/8 | | 16 | RV0BLL160 | 2 01 952 010 | 1000 | 0.006 | 3 | 15 | 24 |
| 1/2 | | 16 | RV0BLL200 | 2 01 952 010 | 500 | 0.009 | 3 | 17 | 30 |
| 3/4 | | 16 | RV0BLL250 | 2 01 952 010 | 300 | 0.016 | 3 | 20 | 39 |
| 1 | | 16 | RV0BLL320 | 2 01 952 010 | 650 | 0.022 | 3 | 23 | 45 |
| 1 1/4 | | 16 | RV0BLL400 | 2 01 952 010 | 120 | 0.040 | 2 | 27 | 57 |
| 1 1/2 | | 16 | RV0BLL500 | 2 01 952 010 | 85 | 0.043 | 4 | 30 | 63 |
| 2 | | 16 | RV0BLL630 | 2 01 952 010 | 130 | 0.080 | 5 | 36 | 78 |
| 2 1/2 | 75 | 16 | RV0BLL750 | 2 01 950 010 | 165 | 0.150 | 3 | 44 | 97 |
| 3 | | 16 | RV0BLL900 | 2 01 952 010 | 100 | 0.195 | 6 | 51 | 110 |
| 4 | | 16 | RV0BLL910 | 2 01 952 010 | 66 | 0.350 | 3 | 63 | 135 |

Fixed flange PVC-U Inch BS



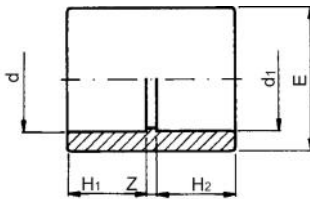
| d (inch) | d (mm) | PN-PN (bar) | Code | PF | SP | Weight (kg) | l (mm) | E (mm) | f (mm) | L (mm) | Z (mm) |
|-------------|-----------|----------------|------------------|--------------|-----|----------------|-----------|-----------|-----------|-----------|-----------|
| 1/2 | | 10 - 16 | RV0FFL200 | 2 01 952 010 | 100 | 0.070 | 65 | 95 | 14 | 17 | 4 |
| 3/4 | | 10 - 16 | RV0FFL250 | 2 01 952 010 | 70 | 0.105 | 75 | 105 | 14 | 20 | 4 |
| 1 | | 10 - 16 | RV0FFL320 | 2 01 952 010 | 120 | 0.145 | 85 | 115 | 14 | 23 | 4 |
| 1 1/4 | | 10 - 16 | RV0FFL400 | 2 01 952 010 | 60 | 0.220 | 100 | 140 | 18 | 27 | 4 |
| 1 1/2 | | 10 - 16 | RV0FFL500 | 2 01 952 010 | 50 | 0.270 | 10 | 150 | 18 | 30 | 6 |
| 2 | | 10 - 16 | RV0FFL630 | 2 01 952 010 | 40 | 0.390 | 125 | 165 | 18 | 36 | 7 |
| 2 1/2 | 75 | | RV0FFI750 | 2 01 950 010 | 20 | 0.505 | 145 | 185 | 18 | 44 | 6 |
| 3 | | 10 - 16 | RV0FFL900 | 2 01 952 010 | 15 | 0.700 | 160 | 200 | 18 | 51 | 8 |
| 4 | | 10 - 16 | RV0FFL910 | 2 01 952 010 | 10 | 0.870 | 180 | 220 | 18 | 63 | 6 |
| 5 | 140 | | RV0FFI930 | 2 01 950 010 | 6 | 1.335 | 210 | 250 | 18 | 76 | 7 |
| 6 | | 10 - 16 | RV0FFL940 | 2 01 952 010 | 5 | 1.853 | 240 | 285 | 22 | 86 | 7 |

PVC-U adaptor fittings

Solvent cement jointing

British standard Inch plain/ISO metric plain

Plain socket Inch BS/metric



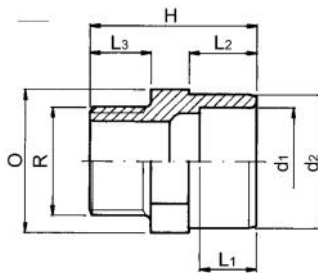
| d (mm) | d1 (inch) | PN (bar) | Code | PF | SP | GP | Weight (kg) | Z (mm) | H1 (mm) | H2 (mm) | E (mm) |
|-----------|--------------|-------------|------------------|--------------|-----|-----|----------------|-----------|------------|------------|-----------|
| 16 | 3/8 | 16 | RV0MAT16A | 2 01 952 010 | 10 | 500 | 0.006 | 3 | 15 | 14 | 22 |
| 20 | 1/2 | 16 | RV0MAT20B | 2 01 952 010 | 10 | 300 | 0.010 | 3 | 17 | 16 | 26 |
| 25 | 3/4 | 16 | RV0MAT25C | 2 01 952 010 | 10 | 200 | 0.022 | 3 | 20 | 19 | 32 |
| 32 | 1 | 16 | RV0MAT32D | 2 01 952 010 | 10 | 130 | 0.036 | 3 | 23 | 22 | 40 |
| 40 | 1 1/4 | 16 | RV0MAT40E | 2 01 952 010 | 100 | 0 | 0.054 | 2 | 27 | 26 | 51 |
| 50 | 1 1/2 | 16 | RV0MAT50F | 2 01 952 010 | 60 | 0 | 0.093 | 4 | 30 | 31 | 61 |
| 63 | 2 | 16 | RV0MAT63G | 2 01 952 010 | 70 | 0 | 0.160 | 6 | 36 | 38 | 75 |
| 75 | 2 1/2 | 16 | RV0MAI750 | 2 01 950 010 | 48 | 0 | 0.226 | 4 | 44 | 44 | 89 |
| 90 | 3 | 16 | RV0MAT90I | 2 01 952 010 | 60 | 0 | 0.353 | 6 | 51 | 51 | 106 |
| 110 | 4 | 16 | RV0MAT91L | 2 01 952 010 | 32 | 0 | 0.565 | 4 | 63 | 61 | 129 |
| 140 | 5 | 16 | RV0MAI930 | 2 01 950 010 | 14 | 0 | 1.100 | 8 | 76 | 76 | 162 |
| 160 | 6 | 16 | RV0MAT940 | 2 01 952 010 | 9 | 0 | 1.540 | 8 | 90 | 86 | 190 |

PVC-U adaptor fittings

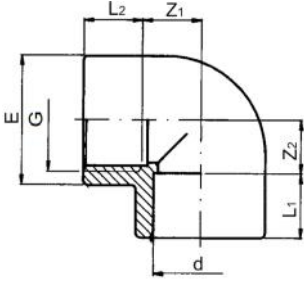
British standard Inch plain/B.S.P. threaded

PF 2 01 952 010

Threaded adaptor R PVC-U Inch BS 3 diameters



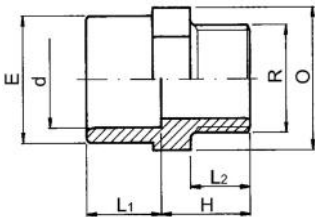
| d1 (inch) | d2 (inch) | R (inch) | PN (bar) | Code | SP | GP | Weight (kg) | H (mm) | L1 (mm) | L2 (mm) | L3 (mm) | O (mm) |
|--------------|--------------|-------------|-------------|------------------|-----|-----|----------------|-----------|------------|------------|------------|-----------|
| 3/8 | 1/2 | 3/8 | 16 | RV0AMR16A | 10 | 500 | 0.010 | 40 | 15 | 16 | 11 | 24 |
| 3/8 | 1/2 | 1/2 | 16 | RV0AMR16B | 10 | 440 | 0.011 | 43 | 15 | 16 | 15 | 24 |
| 1/2 | 3/4 | 1/2 | 16 | RV0AMR20B | 10 | 280 | 0.014 | 46 | 17 | 19 | 15 | 30 |
| 1/2 | 3/4 | 3/4 | 16 | RV0AMR20C | 10 | 280 | 0.019 | 47 | 17 | 19 | 16 | 30 |
| 3/4 | 1 | 3/4 | 16 | RV0AMR25C | 10 | 180 | 0.027 | 50 | 20 | 22 | 16 | 36 |
| 3/4 | 1 | 1 | 16 | RV0AMR25D | 10 | 160 | 0.029 | 53 | 20 | 22 | 19 | 36 |
| 1 | 1 1/4 | 1 | 16 | RV0AMR32D | 10 | 120 | 0.042 | 57 | 23 | 26 | 19 | 46 |
| 1 | 1 1/4 | 1 1/4 | 16 | RV0AMR32E | 10 | 100 | 0.045 | 60 | 23 | 26 | 21 | 46 |
| 1 1/4 | 1 1/2 | 1 1/4 | 16 | RV0AMR40E | 85 | 0 | 0.073 | 67 | 27 | 31 | 21 | 55 |
| 1 1/4 | 1 1/2 | 1 1/2 | 16 | RV0AMR40F | 80 | 0 | 0.076 | 67 | 27 | 31 | 21 | 55 |
| 1 1/2 | 2 | 1 1/2 | 16 | RV0AMR50F | 100 | 0 | 0.110 | 74 | 30 | 38 | 21 | 65 |
| 1 1/2 | 2 | 2 | 16 | RV0AMR50G | 100 | 0 | 0.120 | 78 | 30 | 38 | 26 | 65 |
| 2 | 2 1/2 | 2 | 16 | RV0AMR63G | 70 | 0 | 0.172 | 84 | 36 | 44 | 26 | 80 |
| 2 | 2 1/2 | 2 1/2 | 16 | RV0AMR63H | 50 | 0 | 0.170 | 91 | 36 | 44 | 30 | 80 |
| 2 1/2 | 3 | 2 1/2 | 16 | RV0AMR75H | 54 | 0 | 0.268 | 99 | 44 | 51 | 30 | 95 |
| 2 1/2 | 3 | 3 | 16 | RV0AMR75I | 36 | 0 | 0.280 | 102 | 44 | 51 | 33 | 95 |
| 3 | 4 | 3 | 16 | RV0AMR90I | 25 | 0 | 0.555 | 113 | 51 | 61 | 33 | 115 |
| 3 | 4 | 4 | 16 | RV0AMR90L | 16 | 0 | 0.485 | 118 | 51 | 61 | 39 | 115 |



Plain/threaded elbow 90° PVC-U Inch BS

| d (inch) | d (mm) | G (inch) | PN (bar) | Code | PF | SP | GP | Weight (kg) |
|-------------|-----------|-------------|-------------|------------------|--------------|-----|-----|----------------|
| 3/8 | | 3/8 | 16 | RV0GOR16A | 2 01 952 010 | 10 | 360 | 0.013 |
| 1/2 | | 1/2 | 16 | RV0GOR20B | 2 01 952 010 | 10 | 200 | 0.021 |
| 3/4 | | 3/4 | 16 | RV0GOR25C | 2 01 952 010 | 10 | 160 | 0.035 |
| 1 | | 1 | 16 | RV0GOR32D | 2 01 952 010 | 10 | 80 | 0.052 |
| 1 1/4 | | 1 1/4 | 16 | RV0GOR40E | 2 01 952 010 | 130 | 0 | 0.091 |
| 1 1/2 | | 1 1/2 | 16 | RV0GOR50F | 2 01 952 010 | 80 | 0 | 0.155 |
| 2 | | 2 | 16 | RV0GOR63G | 2 01 952 010 | 40 | 0 | 0.265 |
| 2 1/2 | 75 | 2 1/2 | 16 | RV0GOP75H | 2 01 951 011 | 50 | 0 | 0.420 |
| 3 | | 3 | 16 | RV0GOR90I | 2 01 952 010 | 30 | 0 | 0.670 |
| 4 | | 4 | 16 | RV0GOR91L | 2 01 952 010 | 15 | 0 | 1.055 |

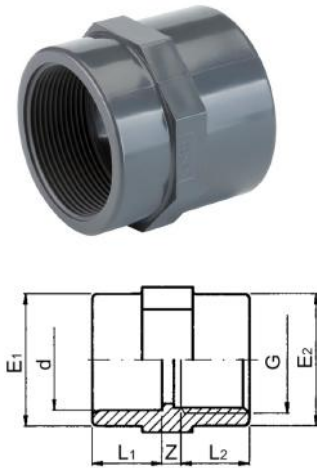
| d (inch) | L1 (mm) | L2 (mm) | Z1 (mm) | Z2 (mm) | E (mm) |
|-------------|------------|------------|------------|------------|-----------|
| 3/8 | 15 | 11 | 9 | 12 | 23 |
| 1/2 | 17 | 15 | 11 | 12 | 28 |
| 3/4 | 20 | 16 | 14 | 17 | 34 |
| 1 | 23 | 23 | 17 | 20 | 42 |
| 1 1/4 | 27 | 21 | 20 | 26 | 51 |
| 1 1/2 | 30 | 21 | 27 | 36 | 61 |
| 2 | 36 | 26 | 35 | 45 | 75 |
| 2 1/2 | 44 | 30 | 39 | 53 | 89 |
| 3 | 51 | 33 | 48 | 65 | 106 |
| 4 | 63 | 39 | 55 | 79 | 129 |



Threaded adaptor R PVC-U Inch BS 2 diameters

| d (inch) | d (mm) | R (inch) | PN (bar) | Code | PF | SP | Weight (kg) | O (mm) | Z (mm) | L2 (mm) | E (mm) | L (mm) |
|-------------|-----------|-------------|-------------|------------------|--------------|----|----------------|-----------|-----------|------------|-----------|-----------|
| 2 1/2 | 75 | 2 1/2 | 16 | RV0ADP75H | 2 01 951 011 | 72 | 0.210 | 90 | | 30 | 89 | 42 |
| 3 | | 3 | 16 | RV0ADR90I | 2 01 952 010 | 40 | 0.330 | 110 | 47 | 33 | 106 | |
| 4 | | 4 | 16 | RV0ADR91L | 2 01 952 010 | 35 | 0.460 | 130 | 49 | 39 | 129 | |

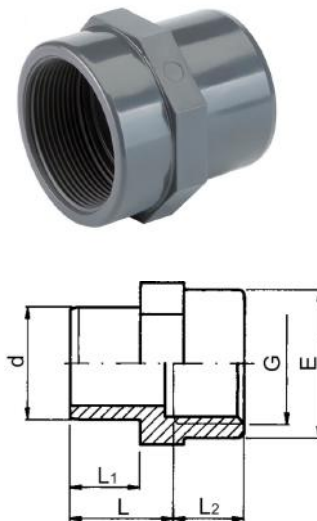
Plain/threaded socket PVC-U Inch BS



| d (inch) | d (mm) | G (inch) | PN (bar) | Code | PF | SP | GP | Weight (kg) |
|-------------|-----------|-------------|-------------|------------------|--------------|-----|-----|----------------|
| 3/8 | | 3/8 | 16 | RV0MAR16A | 2 01 952 010 | 10 | 500 | 0.009 |
| 1/2 | | 1/2 | 16 | RV0MAR20B | 2 01 952 010 | 10 | 250 | 0.017 |
| 3/4 | | 3/4 | 16 | RV0MAR25C | 2 01 952 010 | 10 | 200 | 0.023 |
| 1 | | 1 | 16 | RV0MAR32D | 2 01 952 010 | 10 | 130 | 0.042 |
| 1 1/4 | | 1 1/4 | 16 | RV0MAR40E | 2 01 952 010 | 100 | 0 | 0.060 |
| 1 1/2 | | 1 1/2 | 16 | RV0MAR50F | 2 01 952 010 | 60 | 0 | 0.087 |
| 2 | | 2 | 16 | RV0MAR63G | 2 01 952 010 | 80 | 0 | 0.134 |
| 2 1/2 | 75 | 2 1/2 | 16 | RV0MAP75H | 2 01 951 011 | 110 | 0 | 0.215 |
| 3 | | 3 | 16 | RV0MAR90I | 2 01 952 010 | 64 | 0 | 0.351 |
| 4 | | 4 | 16 | RV0MAR91L | 2 01 952 010 | 35 | 0 | 0.478 |

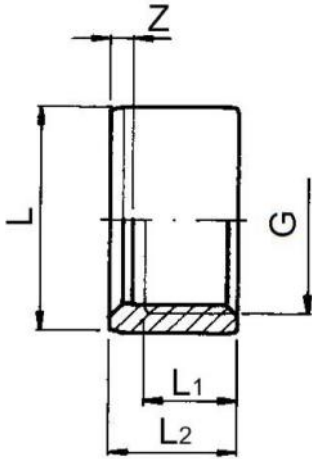
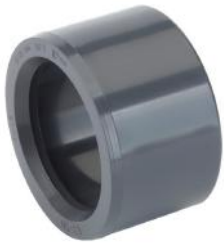
| d (inch) | E1 (mm) | E2 (mm) | L1 (mm) | Z1 (mm) | L2 (mm) |
|-------------|------------|------------|------------|------------|------------|
| 3/8 | 23 | 23 | 15 | 6 | 11 |
| 1/2 | 28 | 28 | 17 | 4 | 15 |
| 3/4 | 34 | 34 | 20 | 6 | 16 |
| 1 | 42 | 42 | 23 | 6 | 19 |
| 1 1/4 | 51 | 51 | 27 | 7 | 21 |
| 1 1/2 | 61 | 58 | 30 | 9 | 21 |
| 2 | 75 | 72 | 36 | 10 | 26 |
| 2 1/2 | 89 | 89 | 44 | 8 | 30 |
| 3 | 106 | 103 | 51 | 10 | 33 |
| 4 | 129 | 130 | 63 | 8 | 39 |

Threaded adaptor G PVC-U Inch BS



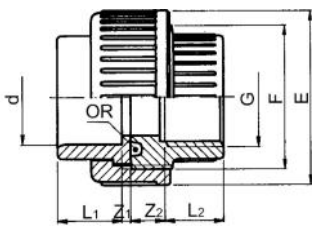
| d (inch) | d (mm) | G (inch) | PN (bar) | Code | PF | SP | GP | Weight (kg) | L (mm) | L1 (mm) | L2 (mm) | E (mm) |
|-------------|-----------|-------------|-------------|------------------|--------------|-----|-----|----------------|-----------|------------|------------|-----------|
| 3/8 | | 3/8 | 16 | RV0AFR16A | 2 01 952 010 | 10 | 600 | 0.016 | 22 | 14 | 11 | 23 |
| 1/2 | | 1/2 | 16 | RV0AFR20B | 2 01 952 010 | 10 | 300 | 0.019 | 24 | 16 | 15 | 28 |
| 3/4 | | 3/4 | 16 | RV0AFR25C | 2 01 952 010 | 10 | 180 | 0.027 | 27 | 19 | 16 | 32 |
| 1 | | 1 | 16 | RV0AFR32D | 2 01 952 010 | 10 | 80 | 0.043 | 30 | 22 | 19 | 42 |
| 1 1/4 | | 1 1/4 | 16 | RV0AFR40E | 2 01 952 010 | 90 | 0 | 0.065 | 36 | 26 | 21 | 51 |
| 1 1/2 | | 1 1/2 | 16 | RV0AFR50F | 2 01 952 010 | 150 | 0 | 0.073 | 41 | 31 | 21 | 58 |
| 2 | | 2 | 16 | RV0AFR63G | 2 01 952 010 | 168 | 0 | 0.135 | 48 | 38 | 26 | 72 |
| 2 1/2 | 75 | 2 1/2 | 16 | RV0AFP75H | 2 01 951 011 | 90 | 0 | 0.225 | 58 | 44 | 30 | 89 |
| 3 | | 3 | 16 | RV0AFR90I | 2 01 952 010 | 60 | 0 | 0.310 | 65 | 51 | 33 | 103 |
| 4 | | 4 | 16 | RV0AFR91L | 2 01 952 010 | 32 | 0 | 0.480 | 76 | 61 | 39 | 130 |

Plain/threaded reducing bush PVC-U Inch BS



| d (inch) | G (inch) | PN (bar) | Code | SP | GP | Weight (kg) | Z (mm) | L1 (mm) | L2 (mm) |
|-------------|-------------|-------------|------------------|----|-----|----------------|-----------|------------|------------|
| 1/2 | 3/8 | 16 | RV0RCR20A | 10 | 800 | 0.004 | 5 | 11 | 17 |
| 3/4 | 1/2 | 16 | RV0RCR25B | 10 | 600 | 0.007 | 5 | 15 | 20 |
| 1 | 3/4 | 16 | RV0RCR32C | 10 | 400 | 0.012 | 6 | 16 | 23 |

Plain/threaded union with o-ring PVC-U Inch BS

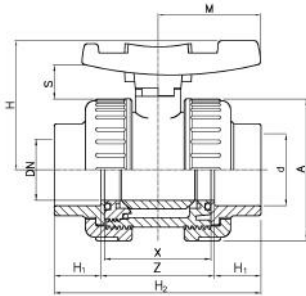


| d (inch) | d1 (mm) | G (inch) | PN (bar) | Code | PF | SP | GP | Weight (kg) |
|-------------|------------|-------------|-------------|------------------|--------------|----|-----|----------------|
| 3/8 | | 3/8 | 16 | RV0BOR16A | 2 01 952 010 | 10 | 250 | 0.031 |
| 1/2 | | 1/2 | 16 | RV0BOR20B | 2 01 952 010 | 10 | 150 | 0.042 |
| 3/4 | | 3/4 | 16 | RV0BOR25C | 2 01 952 010 | 10 | 100 | 0.070 |
| 1 | | 1 | 16 | RV0BOR32D | 2 01 952 010 | 10 | 60 | 0.091 |
| 1 1/4 | | 1 1/4 | 16 | RV0BOR40E | 2 01 952 010 | 90 | 0 | 0.155 |
| 1 1/2 | | 1 1/2 | 16 | RV0BOR50F | 2 01 952 010 | 60 | 0 | 0.237 |
| 2 | | 2 | 16 | RV0BOR63G | 2 01 952 010 | 36 | 0 | 0.405 |
| 2 1/2 | 75 | 2 1/2 | 16 | RV0BOP75H | 2 01 951 011 | 20 | 0 | 0.625 |
| 3 | | 3 | 16 | RV0BOR90I | 2 01 952 010 | 15 | 0 | 0.865 |
| 4 | | 4 | 16 | RV0BOR91L | 2 01 952 010 | 18 | 0 | 1.340 |

| d (inch) | L1 (mm) | L2 (mm) | Z1 (mm) | F (inch) | Z2 (mm) | E (mm) |
|-------------|------------|------------|------------|-------------|------------|-----------|
| 3/8 | 15 | 11 | 3 | 3/4 | 14 | 34 |
| 1/2 | 17 | 15 | 3 | 1 | 11 | 42 |
| 3/4 | 20 | 16 | 3 | 1 1/4 | 13 | 52 |
| 1 | 23 | 19 | 3 | 1 1/2 | 13 | 59 |
| 1 1/4 | 27 | 21 | 2 | 2 | 17 | 72 |
| 1 1/2 | 30 | 21 | 4 | 2 1/4 | 24 | 79 |
| 2 | 36 | 26 | 5 | 2 3/4 | 30 | 96 |
| 2 1/2 | 44 | 30 | 3 | 3 1/2 | 32 | 119 |
| 3 | 51 | 33 | 6 | 4 | 36 | 134 |
| 4 | 63 | 39 | 3 | 5 | 40 | 163 |

PVC-U safeblock ball valves

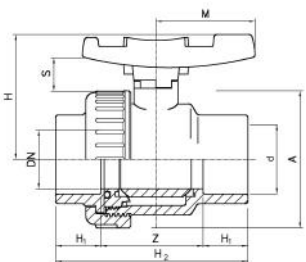
British standard range



Double union safe block ball valve PVC-U
With solvent cement sockets Inch BS

| d (inch) | d (mm) | DN (mm) | PN (bar) | EPDM Code | PF | SP | Weight (kg) |
|-------------|-----------|------------|-------------|--------------|--------------|-----|----------------|
| 3/8 | | | 16 | VSA22L160 | 2 02 956 011 | 150 | 0.130 |
| 1/2 | | | 16 | VSA22L200 | 2 02 956 011 | 150 | 0.130 |
| 3/4 | | | 16 | VSA22L250 | 2 02 956 011 | 100 | 0.205 |
| 1 | | | 16 | VSA22L320 | 2 02 956 011 | 60 | 0.290 |
| 1 1/4 | | | 16 | VSA22L400 | 2 02 956 011 | 36 | 0.435 |
| 1 1/2 | | | 16 | VSA22L500 | 2 02 956 011 | 24 | 0.670 |
| 2 | | | 10 | VSA22L630 | 2 02 956 011 | 13 | 1.125 |
| 2 1/2 | 75 | 65 | 10 | VSA22I750 | 2 02 956 010 | 8 | 2.200 |
| 3 | | | 10 | VSA22L900 | 2 02 956 011 | 4 | 3.310 |
| 4 | | | 10 | VSA22L910 | 2 02 956 011 | 2 | 5.925 |

| d (inch) | S (mm) | H1 (mm) | A (mm) | H2 (mm) | X (mm) | M (mm) | Z (mm) | H (mm) |
|-------------|-----------|------------|-----------|------------|-----------|-----------|-----------|-----------|
| 3/8 | 19 | 14 | 50 | 76 | 42 | 40 | 48 | 53 |
| 1/2 | 19 | 16 | 50 | 80 | 42 | 40 | 48 | 43 |
| 3/4 | 19 | 19 | 59 | 91 | 48 | 45 | 53 | 60 |
| 1 | 21 | 22 | 68 | 102 | 54 | 51 | 58 | 67 |
| 1 1/4 | 25 | 26 | 80 | 120 | 62 | 59 | 68 | 79 |
| 1 1/2 | 27 | 31 | 94 | 140 | 72 | 70 | 78 | 90 |
| 2 | 29 | 38 | 115 | 169 | 86 | 84 | 93 | 107 |
| 2 1/2 | 32 | 44 | 145 | 206 | 110 | 103 | 118 | 129 |
| 3 | 36 | 51 | 168 | 242 | 128 | 120 | 140 | 143 |
| 4 | 43 | 61 | 210 | 282 | 150 | 141 | 160 | 169 |



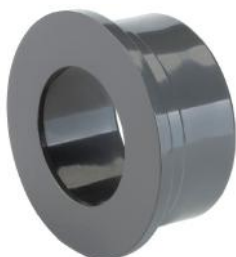
Single union ball valve PVC-U
With solvent cement sockets Inch BS

| d (inch) | d (mm) | DN (mm) | PN (bar) | EPDM Code | PF | SP | Weight (kg) |
|-------------|-----------|------------|-------------|--------------|--------------|-----|----------------|
| 3/8 | | | 16 | VSA18L160 | 2 02 956 011 | 180 | 0.100 |
| 1/2 | | | 16 | VSA18L200 | 2 02 956 011 | 180 | 0.100 |
| 3/4 | | | 16 | VSA18L250 | 2 02 956 011 | 120 | 0.160 |
| 1 | | | 16 | VSA18L320 | 2 02 956 011 | 75 | 0.230 |
| 1 1/4 | | | 16 | VSA18L400 | 2 02 956 011 | 45 | 0.340 |
| 1 1/2 | | | 16 | VSA18L500 | 2 02 956 011 | 28 | 0.535 |
| 2 | | | 10 | VSA18L630 | 2 02 956 011 | 16 | 0.890 |
| 2 1/2 | 75 | 65 | 10 | VSA18I750 | 2 02 956 010 | 8 | 1.640 |
| 3 | | | 10 | VSA18L900 | 2 02 956 011 | 5 | 2.450 |
| 4 | | | 10 | VSA18L910 | 2 02 956 011 | 2 | 4.100 |

| d (inch) | L1 (mm) | L2 (mm) | X (mm) | Z (mm) | M (mm) | S (mm) | H1 (mm) | A (mm) | H2 (mm) | H (mm) |
|-------------|------------|------------|-----------|-----------|-----------|-----------|------------|-----------|------------|-----------|
| 3/8 | | | 42 | 48 | 40 | 19 | 14 | 50 | 76 | 53 |
| 1/2 | | | 42 | 48 | 40 | 19 | 16 | 50 | 80 | 53 |
| 3/4 | | | 48 | 53 | 45 | 19 | 9 | 59 | 91 | 60 |
| 1 | | | 54 | 58 | 51 | 21 | 22 | 68 | 102 | 67 |
| 1 1/4 | | | 62 | 68 | 59 | 25 | 26 | 80 | 120 | 79 |
| 1 1/2 | | | 72 | 78 | 70 | 27 | 31 | 94 | 140 | 90 |
| 2 | | | 86 | 93 | 84 | 29 | 38 | 115 | 169 | 107 |
| 2 1/2 | 44 | 206 | | 118 | 103 | 32 | | 145 | | 129 |
| 3 | | | 128 | 140 | 120 | 36 | 51 | 168 | 242 | 143 |
| 4 | | | 150 | 160 | 141 | 13 | 61 | 210 | 282 | 169 |

Spare parts

PF 2 02 962 010



Solvent cement socket Inch BS

Suitable for VSA

| d (inch) | PN (bar) | Code |
|-------------|-------------|-----------|
| 3/8 | 16 | 3VCLV1L16 |
| 1/2 | 16 | 3VCLV1L20 |
| 3/4 | 16 | 3VCLV1L25 |
| 1 | 16 | 3VCLV1L32 |
| 1 1/4 | 16 | 3VCLV1L40 |
| 1 1/2 | 16 | 3VCLV1L50 |
| 2 | 16 | 3VCLV1L63 |
| 2 1/2 | 10 | 3VCLV1I75 |
| 3 | 10 | 3VCLV1L90 |
| 4 | 10 | 3VCLV1L91 |

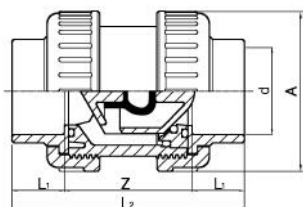
PVC-U single flow direction valves British standard range

PF 2 02 961 010



Double union check valve PVC-U With solvent cement sockets Inch BS

• (*)Body and dimensions = 3"



| d (inch) | d (mm) | DN (mm) | PN (bar) | EPDM Code | SP | Weight (kg) | A (mm) | L1 (mm) | L2 (mm) | Z (mm) |
|-------------|-----------|------------|-------------|--------------|----|----------------|-----------|------------|------------|-----------|
| 3/8 | | | 16 | VR021L160 | 32 | 0.110 | 50 | 14 | 76 | 48 |
| 1/2 | | | 16 | VR021L200 | 32 | 0.110 | 50 | 16 | 80 | 48 |
| 3/4 | | | 16 | VR021L250 | 32 | 0.175 | 59 | 19 | 91 | 53 |
| 1 | | | 16 | VR021L320 | 20 | 0.245 | 68 | 22 | 102 | 58 |
| 1 1/4 | | | 16 | VR021L400 | 15 | 0.375 | 80 | 26 | 120 | 68 |
| 1 1/2 | | | 16 | VR021L500 | 6 | 0.580 | 94 | 31 | 140 | 78 |
| 2 | | | 10 | VR021L630 | 4 | 1.000 | 115 | 38 | 169 | 93 |
| * 2 1/2 | 75 | 65 | 10 | VR021I750 | 2 | 2.950 | 168 | 44 | 206 | 118 |
| 3 | | | 10 | VR021L900 | 2 | 3.100 | 168 | 51 | 242 | 140 |

Index

| Code | Page | Code | Page | Code | Page | Code | Page |
|------------|------|-----------|--------|-----------|------|-----------|--------|
| 1ORD00117T | 60 | 3V0VFSG02 | 60 | APOSPT500 | 36 | RP0ATS400 | 28 |
| 1ORD03037T | 60 | 3VCLV1F16 | 43 | APOSPT630 | 36 | RP0ATS500 | 28 |
| 1ORD03043T | 60 | 3VCLV1F20 | 43 | APOSPT750 | 36 | RV0AAP16A | 35 |
| 1ORD03062 | 36 | 3VCLV1F25 | 43 | APOSPT900 | 36 | RV0AAP20B | 35 |
| 1ORD03068T | 60 | 3VCLV1F32 | 43 | APOSPT910 | 36 | RV0AAP20C | 35 |
| 1ORD03093T | 60 | 3VCLV1F40 | 43 | APOSPT920 | 36 | RV0AAP25B | 35 |
| 1ORD04081 | 36 | 3VCLV1F50 | 43 | APOSPT930 | 36 | RV0AAP25C | 35 |
| 1ORD04112 | 36 | 3VCLV1F63 | 43 | APOSPT940 | 36 | RV0AAP25D | 35 |
| 1ORD04131 | 36 | 3VCLV1F75 | 43 | ARVSCPF20 | 55 | RV0AAP32C | 35 |
| 1ORD06162 | 36 | 3VCLV1F90 | 43 | ARVSCPF25 | 55 | RV0AAP32D | 35 |
| 1ORD06187 | 36 | 3VCLV1F91 | 43 | ARVSCPF32 | 55 | RV0AAP40D | 35 |
| 1ORD06237 | 36 | 3VCLV1116 | 42 | ARVSCPF40 | 55 | RV0AAP40E | 35 |
| 1ORD06312 | 36 | 3VCLV1120 | 42 | ARVSCPF50 | 55 | RV0AAP50E | 35 |
| 1ORD06362 | 36 | 3VCLV1125 | 42 | ARVSCPF63 | 55 | RV0AAP50F | 35 |
| 1ORD06450 | 36 | 3VCLV1132 | 42 | ARVSCPF90 | 55 | RV0AAP50G | 35 |
| 2G0VF1ED75 | 59 | 3VCLV1140 | 42 | AVSSTF200 | 43 | RV0AAP63G | 35 |
| 2G0VF1ED90 | 59 | 3VCLV1150 | 42 | AVSSTF250 | 43 | RV0AAP75G | 35 |
| 2G0VF1ED91 | 59 | 3VCLV1163 | 42 | AVSSTF320 | 43 | RV0ADP75H | 31, 70 |
| 2G0VF1ED92 | 59 | 3VCLV1175 | 42, 74 | AVSSTF400 | 43 | RV0ADP90I | 31 |
| 2G0VF1ED94 | 59 | 3VCLV1190 | 42 | AVSSTF500 | 43 | RV0ADP91L | 31 |
| 2G0VF1ED96 | 59 | 3VCLV1191 | 42 | AVSSTF630 | 43 | RV0ADR90I | 70 |
| 2G0VF1OD75 | 59 | 3VCLV1L16 | 74 | DV0DEF32A | 19 | RV0ADR91L | 70 |
| 2G0VF1OD90 | 59 | 3VCLV1L20 | 74 | DV0DEF32Z | 19 | RV0AFP16A | 31 |
| 2G0VF1OD91 | 59 | 3VCLV1L25 | 74 | DV0DEF40A | 19 | RV0AFP20B | 31 |
| 2G0VF1OD92 | 59 | 3VCLV1L32 | 74 | DV0DEF50A | 19 | RV0AFP20C | 31 |
| 2G0VF1OD94 | 59 | 3VCLV1L40 | 74 | DV0DEF50B | 19 | RV0AFP25B | 31 |
| 2G0VF1OD96 | 59 | 3VCLV1L50 | 74 | DV0DEF50C | 19 | RV0AFP25C | 31 |
| 2GRNPD160 | 15 | 3VCLV1L63 | 74 | DV0DEF50Z | 19 | RV0AFP25D | 31 |
| 2GRNPD200 | 15 | 3VCLV1L90 | 74 | DV0DEF63A | 19 | RV0AFP32C | 31 |
| 2GRNPD250 | 15 | 3VCLV1L91 | 74 | DV0DEF63B | 19 | RV0AFP32D | 31 |
| 2GRNPD320 | 15 | 3VGHROA20 | 42 | DV0DEF63C | 19 | RV0AFP40D | 31 |
| 2GRNPD400 | 15 | 3VGHROA25 | 42 | DV0DEF75A | 19 | RV0AFP40E | 31 |
| 2GRNPD500 | 15 | 3VGHROA32 | 42 | DV0DEF75C | 19 | RV0AFP50E | 31 |
| 2GRNPD630 | 15 | 3VGHROA40 | 42 | DV0DEF75D | 19 | RV0AFP50F | 31 |
| 2GRNPD750 | 15 | 3VGHROA50 | 42 | DV0DEF90B | 19 | RV0AFP50G | 31 |
| 2GRNPD900 | 15 | 3VGHROA63 | 43 | DV0DEF90D | 19 | RV0AFP63G | 31 |
| 2GRNPD910 | 15 | 3VGHROA75 | 43 | DV0DEF90F | 19 | RV0AFP75G | 31 |
| 2GRNPD920 | 15 | 3VGHROA90 | 43 | DV0DEF91B | 19 | RV0AFP75H | 31, 71 |
| 2GRNPD930 | 16 | 3VGHROA91 | 43 | DV0DEI50B | 17 | RV0AFP75I | 31 |
| 2GRNPD940 | 16 | 3VMNGOA20 | 42 | DV0DEI50D | 17 | RV0AFP90H | 31 |
| 2GRNPD960 | 16 | 3VMNGOA25 | 42 | DV0DEI63B | 17 | RV0AFP90I | 32 |
| 2GRNPD970 | 16 | 3VMNGOA32 | 42 | DV0DEI63C | 17 | RV0AFP90L | 32 |
| 2MLL01D20 | 55 | 3VMNGOA40 | 42 | DV0DEI63D | 17 | RV0AFP91I | 32 |
| 2MLL01D25 | 55 | 3VMNGOA50 | 42 | DV0DEI75F | 17 | RV0AFP91L | 32 |
| 2MLL01D32 | 55 | 3VMNGOA63 | 42 | DV0DEI90F | 17 | RV0AFR16A | 71 |
| 2MLL01D40 | 55 | 3VMNGOA75 | 42 | DV0DEI90G | 17 | RV0AFR20B | 71 |
| 2MLL01D50 | 55 | 3VMNGOA90 | 42 | DV0DEI91E | 17 | RV0AFR25C | 71 |
| 2MLL01D63 | 55 | 3VMNGOA91 | 42 | DV0DEI91F | 17 | RV0AFR32D | 71 |
| 2MLL01D90 | 55 | 3VMNG1D20 | 41 | DV0DEI91G | 17 | RV0AFR40E | 71 |
| 3ECLV200 | 43 | 3VMNG1D25 | 41 | DV0DEI92F | 17 | RV0AFR50F | 71 |
| 3ECLV250 | 43 | 3VMNG1D32 | 41 | DV0DEI93E | 17 | RV0AFR63G | 71 |
| 3ECLV320 | 43 | 3VMNG1D40 | 41 | DV0DEI93G | 17 | RV0AFR90I | 71 |
| 3ECLV400 | 43 | 3VMNG1D50 | 41 | DV0DEI94G | 17 | RV0AFR91L | 71 |
| 3ECLV500 | 43 | 3VMNG1D63 | 41 | DV0DEI96G | 17 | RV0AMP12A | 30 |
| 3ECLV630 | 43 | 3VMNG1D75 | 41 | DV0DEI97G | 17 | RV0AMP16A | 30 |
| 3ECLV750 | 43 | 3VMNG1D90 | 41 | DV0DMF50B | 19 | RV0AMP16B | 30 |
| 3ECLV900 | 43 | 3VMNG1D91 | 41 | DV0DMF90F | 19 | RV0AMP20A | 30 |
| 3ECLV910 | 43 | APOSPT160 | 36 | DV0DMF91D | 19 | RV0AMP20B | 30 |
| 3V0VFMDO4 | 59 | APOSPT200 | 36 | DV0DMF93F | 19 | RV0AMP20C | 30 |
| 3V0VFMDO5 | 59 | APOSPT250 | 36 | RP0ATS200 | 28 | RV0AMP25B | 30 |
| 3V0VFMDO6 | 59 | APOSPT320 | 36 | RP0ATS250 | 28 | RV0AMP25C | 30 |
| 3V0VFSG01 | 60 | APOSPT400 | 36 | RP0ATS320 | 28 | RV0AMP25D | 30 |

Index

| Code | Page | Code | Page | Code | Page | Code | Page |
|-----------|------|-----------|--------|-----------|--------|-----------|--------|
| RV0AMP32C | 30 | RV0BF1320 | 14 | RV0BMM16A | 33 | RV0CAF200 | 27 |
| RV0AMP32D | 30 | RV0BF1400 | 14 | RV0BMM20B | 33 | RV0CAF250 | 27 |
| RV0AMP32E | 30 | RV0BF1500 | 14 | RV0BMM25C | 33 | RV0CAF320 | 27 |
| RV0AMP40D | 30 | RV0BF1630 | 14 | RV0BMM32D | 33 | RV0CAF400 | 27 |
| RV0AMP40E | 30 | RV0BF1750 | 14, 67 | RV0BMM40E | 33 | RV0CAF500 | 27 |
| RV0AMP40F | 30 | RV0BF1900 | 14 | RV0BMM50F | 33 | RV0CAF630 | 27 |
| RV0AMP50E | 30 | RV0BF1910 | 14 | RV0BMM63G | 33 | RV0CAF750 | 27 |
| RV0AMP50F | 30 | RV0BFL160 | 67 | RV0BMP25C | 32 | RV0CAF900 | 27 |
| RV0AMP50G | 30 | RV0BFL200 | 67 | RV0BMP32D | 32 | RV0CAF910 | 27 |
| RV0AMP63F | 31 | RV0BFL250 | 67 | RV0BMP40E | 32 | RV0CAI160 | 12 |
| RV0AMP63G | 31 | RV0BFL320 | 67 | RV0BMP50F | 32 | RV0CAI200 | 12 |
| RV0AMP63H | 31 | RV0BFL400 | 67 | RV0BMP50G | 32 | RV0CAI250 | 12 |
| RV0AMP75G | 31 | RV0BFL500 | 67 | RV0BMP63G | 32 | RV0CAI320 | 12 |
| RV0AMP75H | 31 | RV0BFL630 | 67 | RV0BOF160 | 25 | RV0CAI400 | 12 |
| RV0AMP75I | 31 | RV0BFL900 | 67 | RV0BOF200 | 25 | RV0CAI500 | 12 |
| RV0AMP90H | 31 | RV0BFL910 | 67 | RV0BOF250 | 25 | RV0CAI630 | 12 |
| RV0AMP90I | 31 | RV0BGO160 | 14 | RV0BOF320 | 25 | RV0CAI750 | 12, 66 |
| RV0AMP90L | 31 | RV0BGO200 | 14 | RV0BOF400 | 25 | RV0CAI900 | 12 |
| RV0AMP91I | 31 | RV0BGO250 | 14 | RV0BOF500 | 25 | RV0CAI910 | 12 |
| RV0AMP91L | 31 | RV0BGO320 | 14 | RV0BOF630 | 25 | RV0CAI920 | 12 |
| RV0AMP91N | 31 | RV0BGO400 | 14 | RV0BOF750 | 25 | RV0CAI930 | 12, 66 |
| RV0AMP92N | 31 | RV0BGO500 | 14 | RV0BOF900 | 25 | RV0CAI940 | 12 |
| RV0AMR16A | 69 | RV0BGO630 | 14 | RV0BOF910 | 25 | RV0CAI960 | 12 |
| RV0AMR16B | 69 | RV0BGO750 | 14 | RV0BOI160 | 12 | RV0CAI970 | 12 |
| RV0AMR20B | 69 | RV0BGO900 | 14 | RV0BOI200 | 12 | RV0CAL160 | 66 |
| RV0AMR20C | 69 | RV0BGO910 | 14 | RV0BOI250 | 12 | RV0CAL200 | 66 |
| RV0AMR25C | 69 | RV0BLF160 | 26 | RV0BOI320 | 12 | RV0CAL250 | 66 |
| RV0AMR25D | 69 | RV0BLF200 | 26 | RV0BOI400 | 12 | RV0CAL320 | 66 |
| RV0AMR32D | 69 | RV0BLF250 | 26 | RV0BOI500 | 12 | RV0CAL400 | 66 |
| RV0AMR32E | 69 | RV0BLF320 | 26 | RV0BOI630 | 12 | RV0CAL500 | 66 |
| RV0AMR40E | 69 | RV0BLF400 | 26 | RV0BOI750 | 12, 67 | RV0CAL630 | 66 |
| RV0AMR40F | 69 | RV0BLF500 | 26 | RV0BOI900 | 12 | RV0CAL900 | 66 |
| RV0AMR50F | 69 | RV0BLF630 | 26 | RV0BOI910 | 12 | RV0CAL910 | 66 |
| RV0AMR50G | 69 | RV0BLF750 | 26 | RV0BOL160 | 67 | RV0CAL940 | 66 |
| RV0AMR63G | 69 | RV0BLF900 | 26 | RV0BOL200 | 67 | RV0CRI200 | 9 |
| RV0AMR63H | 69 | RV0BLF910 | 26 | RV0BOL250 | 67 | RV0CRI250 | 9 |
| RV0AMR75H | 69 | RV0BLI160 | 15 | RV0BOL320 | 67 | RV0CRI320 | 9 |
| RV0AMR75I | 69 | RV0BLI200 | 15 | RV0BOL400 | 67 | RV0CRI400 | 9 |
| RV0AMR90I | 69 | RV0BLI250 | 15 | RV0BOL500 | 67 | RV0CRI500 | 9 |
| RV0AMR90L | 69 | RV0BLI320 | 15 | RV0BOL630 | 67 | RV0CRI630 | 9 |
| RV0BAF200 | 27 | RV0BLI400 | 15 | RV0BOL900 | 67 | RV0CRI750 | 9 |
| RV0BAF250 | 27 | RV0BLI500 | 15 | RV0BOL910 | 67 | RV0CRI900 | 9 |
| RV0BAF320 | 27 | RV0BLI630 | 15 | RV0BOP16A | 30 | RV0CRI910 | 9 |
| RV0BAF400 | 27 | RV0BLI750 | 15, 68 | RV0BOP20B | 30 | RV0CUI200 | 11 |
| RV0BAF500 | 27 | RV0BLI900 | 15 | RV0BOP25C | 30 | RV0CUI250 | 11 |
| RV0BAF630 | 27 | RV0BLI910 | 15 | RV0BOP32D | 30 | RV0CUI320 | 11 |
| RV0BAF750 | 27 | RV0BLL160 | 68 | RV0BOP40E | 30 | RV0CUI400 | 11 |
| RV0BAF900 | 27 | RV0BLL200 | 68 | RV0BOP50F | 30 | RV0CUI500 | 11 |
| RV0BAF910 | 27 | RV0BLL250 | 68 | RV0BOP63G | 30 | RV0CUI630 | 11 |
| RV0BFF160 | 26 | RV0BLL320 | 68 | RV0BOP75H | 30, 72 | RV0CUI750 | 11 |
| RV0BFF200 | 26 | RV0BLL400 | 68 | RV0BOP90I | 30 | RV0CUI900 | 11 |
| RV0BFF250 | 26 | RV0BLL500 | 68 | RV0BOP91L | 30 | RV0CUI910 | 11 |
| RV0BFF320 | 26 | RV0BLL630 | 68 | RV0BOR16A | 72 | RV0DAF200 | 22 |
| RV0BFF400 | 26 | RV0BLL900 | 68 | RV0BOR20B | 72 | RV0DAF250 | 22 |
| RV0BFF500 | 26 | RV0BLL910 | 68 | RV0BOR25C | 72 | RV0DAF320 | 22 |
| RV0BFF630 | 26 | RV0BMF16A | 32 | RV0BOR32D | 72 | RV0DAF400 | 22 |
| RV0BFF750 | 26 | RV0BMF20B | 32 | RV0BOR40E | 72 | RV0DAF500 | 22 |
| RV0BFF900 | 26 | RV0BMF25C | 32 | RV0BOR50F | 72 | RV0DAF630 | 22 |
| RV0BFF910 | 26 | RV0BMF32D | 32 | RV0BOR63G | 72 | RV0DAF750 | 22 |
| RV0BFI160 | 14 | RV0BMF40E | 32 | RV0BOR90I | 72 | RV0DAF900 | 22 |
| RV0BFI200 | 14 | RV0BMF50F | 32 | RV0BOR91L | 72 | RV0DAF910 | 22 |
| RV0BFI250 | 14 | RV0BMF63G | 32 | RV0CAF160 | 27 | RV0FAI920 | 16 |

Index

| Code | Page | Code | Page | Code | Page | Code | Page |
|-----------|--------|-----------|--------|-----------|-----------|-----------|--------|
| RV0FCI200 | 17 | RV0GGP40E | 35 | RV0GTI500 | 9 | RV0MAI940 | 8 |
| RV0FCI250 | 17 | RV0GGP50F | 35 | RV0GTI630 | 9 | RV0MAI960 | 8 |
| RV0FCI320 | 17 | RV0GGP63G | 35 | RV0GYF160 | 20 | RV0MAI970 | 8 |
| RV0FCI400 | 17 | RV0GOF160 | 21 | RV0GYF200 | 20 | RV0MAI980 | 8 |
| RV0FCI500 | 17 | RV0GOF200 | 21 | RV0GYF250 | 20 | RV0MAI991 | 8 |
| RV0FCI630 | 17 | RV0GOF250 | 21 | RV0GYF320 | 20 | RV0MAL160 | 66 |
| RV0FCI750 | 17 | RV0GOF320 | 21 | RV0GYF400 | 20 | RV0MAL200 | 66 |
| RV0FCI900 | 17 | RV0GOF400 | 21 | RV0GYF500 | 20 | RV0MAL250 | 66 |
| RV0FCI910 | 17 | RV0GOF500 | 21 | RV0GYF630 | 20 | RV0MAL320 | 66 |
| RV0FCI920 | 17 | RV0GOF630 | 21 | RV0GYF750 | 20 | RV0MAL400 | 66 |
| RV0FCI930 | 17 | RV0GOF750 | 21 | RV0GYF900 | 20 | RV0MAL500 | 66 |
| RV0FCI940 | 17 | RV0GOF900 | 21 | RV0GYF910 | 20 | RV0MAL630 | 66 |
| RV0FCI960 | 17 | RV0GOF910 | 21 | RV0GYI160 | 6 | RV0MAL900 | 66 |
| RV0FCI970 | 17 | RV0GOI160 | 6 | RV0GYI200 | 6 | RV0MAL910 | 66 |
| RV0FFF200 | 25 | RV0GOI200 | 6 | RV0GYI250 | 6 | RV0MAL940 | 66 |
| RV0FFF250 | 25 | RV0GOI250 | 6 | RV0GYI320 | 6 | RV0MAL970 | 66 |
| RV0FFF320 | 25 | RV0GOI320 | 6 | RV0GYI400 | 6 | RV0MAP16A | 30 |
| RV0FFF400 | 25 | RV0GOI400 | 6 | RV0GYI500 | 6 | RV0MAP20B | 30 |
| RV0FFF500 | 25 | RV0GOI500 | 6 | RV0GYI630 | 6 | RV0MAP25C | 30 |
| RV0FFF630 | 25 | RV0GOI630 | 6 | RV0GYI750 | 6, 65 | RV0MAP32D | 30 |
| RV0FFF750 | 25 | RV0GOI750 | 6, 64 | RV0GYI900 | 6 | RV0MAP40E | 30 |
| RV0FFF900 | 25 | RV0GOI900 | 6 | RV0GYI910 | 6 | RV0MAP50F | 30 |
| RV0FFF910 | 25 | RV0GOI910 | 6 | RV0GYI920 | 6 | RV0MAP63G | 30 |
| RV0FFI200 | 16 | RV0GOI920 | 6 | RV0GYI930 | 6, 65 | RV0MAP75H | 30, 71 |
| RV0FFI250 | 16 | RV0GOI930 | 6, 64 | RV0GYI940 | 6 | RV0MAP90I | 30 |
| RV0FFI320 | 16 | RV0GOI940 | 6 | RV0GYI960 | 6 | RV0MAP91L | 30 |
| RV0FFI400 | 16 | RV0GOI960 | 6 | RV0GYI970 | 6 | RV0MAP92N | 30 |
| RV0FFI500 | 16 | RV0GOI970 | 6 | RV0GYI980 | 6 | RV0MAP93N | 30 |
| RV0FFI630 | 16 | RV0GOI980 | 6 | RV0GYI991 | 6 | RV0MAP940 | 30 |
| RV0FFI750 | 16, 68 | RV0GOI991 | 6 | RV0GYL160 | 65 | RV0MAR16A | 71 |
| RV0FFI900 | 16 | RV0GOL160 | 64 | RV0GYL200 | 65 | RV0MAR20B | 71 |
| RV0FFI910 | 16 | RV0GOL200 | 64 | RV0GYL250 | 65 | RV0MAR25C | 71 |
| RV0FFI920 | 16 | RV0GOL250 | 64 | RV0GYL320 | 65 | RV0MAR32D | 71 |
| RV0FFI930 | 16, 68 | RV0GOL320 | 64 | RV0GYL400 | 65 | RV0MAR40E | 71 |
| RV0FFI940 | 16 | RV0GOL400 | 64 | RV0GYL500 | 65 | RV0MAR50F | 71 |
| RV0FFL200 | 68 | RV0GOL500 | 64 | RV0GYL630 | 65 | RV0MAR63G | 71 |
| RV0FFL250 | 68 | RV0GOL630 | 64 | RV0GYL900 | 65 | RV0MAR90I | 71 |
| RV0FFL320 | 68 | RV0GOL900 | 64 | RV0GYL910 | 65 | RV0MAR91L | 71 |
| RV0FFL400 | 68 | RV0GOL910 | 64 | RV0GYL970 | 65 | RV0MAT16A | 69 |
| RV0FFL500 | 68 | RV0GOL940 | 64 | RV0MAF160 | 22 | RV0MAT20B | 69 |
| RV0FFL630 | 68 | RV0GOL970 | 64 | RV0MAF200 | 22 | RV0MAT25C | 69 |
| RV0FFL900 | 68 | RV0GOP16A | 29 | RV0MAF250 | 22 | RV0MAT32D | 69 |
| RV0FFL910 | 68 | RV0GOP20B | 29 | RV0MAF320 | 22 | RV0MAT40E | 69 |
| RV0FFL940 | 68 | RV0GOP25C | 29 | RV0MAF400 | 22 | RV0MAT50F | 69 |
| RV0FLI200 | 16 | RV0GOP32D | 29 | RV0MAF500 | 22 | RV0MAT63G | 69 |
| RV0FLI250 | 16 | RV0GOP40E | 29 | RV0MAF630 | 22 | RV0MAT90I | 69 |
| RV0FLI320 | 16 | RV0GOP50F | 29 | RV0MAF750 | 22 | RV0MAT91L | 69 |
| RV0FLI400 | 16 | RV0GOP63G | 29 | RV0MAF900 | 22 | RV0MAT940 | 69 |
| RV0FLI500 | 16 | RV0GOP75H | 29, 70 | RV0MAF910 | 22 | RV0MFP25B | 33 |
| RV0FLI630 | 16 | RV0GOP90I | 29 | RV0MAF940 | 22 | RV0MFP32C | 33 |
| RV0FLI750 | 16 | RV0GOP91L | 29 | RV0MAI160 | 8 | RV0MFP40D | 33 |
| RV0FLI900 | 16 | RV0GOR16A | 70 | RV0MAI200 | 8 | RV0MFP50E | 33 |
| RV0FLI910 | 16 | RV0GOR20B | 70 | RV0MAI250 | 8 | RV0MFP63F | 33 |
| RV0FLI920 | 16 | RV0GOR25C | 70 | RV0MAI320 | 8 | RV0MFP75G | 33 |
| RV0FLI930 | 16 | RV0GOR32D | 70 | RV0MAI400 | 8 | RV0MFP90H | 33 |
| RV0FLI940 | 16 | RV0GOR40E | 70 | RV0MAI500 | 8 | RV0MFP91I | 33 |
| RV0FLI960 | 16 | RV0GOR50F | 70 | RV0MAI630 | 8 | RV0MGF16B | 25 |
| RV0FLI970 | 16 | RV0GOR63G | 70 | RV0MAI750 | 8, 66, 69 | RV0MGF20C | 25 |
| RV0GGP16A | 35 | RV0GOR90I | 70 | RV0MAI900 | 8 | RV0MGF25D | 25 |
| RV0GGP20B | 35 | RV0GOR91L | 70 | RV0MAI910 | 8 | RV0MGF32E | 25 |
| RV0GGP25C | 35 | RV0GPI500 | 7 | RV0MAI920 | 8 | RV0MGF40F | 25 |
| RV0GGP32D | 35 | RV0GPI630 | 7 | RV0MAI930 | 8, 66, 69 | RV0MGF50G | 25 |

Index

| Code | Page | Code | Page | Code | Page | Code | Page |
|-----------|------|-----------|--------|------------|------|-----------|-------|
| RV0MGF63H | 25 | RV0PGI200 | 18 | RV0RCI75E | 13 | RV0RIF50D | 21 |
| RV0MGF75I | 25 | RV0PGI250 | 18 | RV0RCI75F | 13 | RV0RIF50E | 21 |
| RV0MGF90L | 25 | RV0PGI320 | 18 | RV0RCI75G | 13 | RV0RIF63D | 21 |
| RV0MMP16A | 34 | RV0PGI400 | 18 | RV0RCI90F | 13 | RV0RIF63E | 21 |
| RV0MMP20B | 34 | RV0PGI500 | 18 | RV0RCI90G | 13 | RV0RIF63F | 21 |
| RV0MMP25C | 34 | RV0PGI630 | 18 | RV0RCI90H | 13 | RV0RIF75E | 21 |
| RV0MMP32D | 34 | RV0PGL160 | 66 | RV0RCI91G | 13 | RV0RIF75F | 21 |
| RV0MMP40E | 34 | RV0PGL200 | 66 | RV0RCI91H | 13 | RV0RIF75G | 21 |
| RV0MMP50F | 34 | RV0PGL250 | 66 | RV0RCI91I | 13 | RV0RIF90F | 21 |
| RV0MMP63G | 34 | RV0PGL320 | 66 | RV0RCI92H | 13 | RV0RIF90G | 21 |
| RV0MRF20A | 23 | RV0PGL400 | 66 | RV0RCI92I | 13 | RV0RIF90H | 21 |
| RV0MRF25B | 23 | RV0PGL500 | 66 | RV0RCI92L | 13 | RV0RIF91G | 21 |
| RV0MRF32C | 23 | RV0PGL630 | 66 | RV0RCI93I | 13 | RV0RIF91H | 21 |
| RV0MRF40D | 23 | RV0QRI200 | 15 | RV0RCI93L | 13 | RV0RIF91I | 21 |
| RV0MRF50E | 23 | RV0QRI250 | 15 | RV0RCI93M | 13 | RV0TAF160 | 24 |
| RV0MRF63F | 23 | RV0QRI320 | 15 | RV0RCI94L | 13 | RV0TAF200 | 24 |
| RV0MRF75G | 23 | RV0QRI400 | 15 | RV0RCI94M | 13 | RV0TAF250 | 24 |
| RV0MRF90H | 23 | RV0QRI500 | 15 | RV0RCI94N | 13 | RV0TAF320 | 24 |
| RV0MRF91I | 23 | RV0QRI630 | 15 | RV0RCI950 | 13 | RV0TAF400 | 24 |
| RV0MRI20A | 11 | RV0QRI750 | 15, 67 | RV0RCI960 | 13 | RV0TAF500 | 24 |
| RV0MRI25B | 11 | RV0QRI900 | 15 | RV0RCI96P | 13 | RV0TAF630 | 24 |
| RV0MRI32C | 11 | RV0QRI910 | 15 | RV0RCI970 | 13 | RV0TAF750 | 24 |
| RV0MRI40D | 11 | RV0QRI920 | 15 | RV0RCI97Q | 13 | RV0TAF900 | 24 |
| RV0MRI50E | 11 | RV0QRI930 | 15, 67 | RV0RCI980 | 13 | RV0TAF910 | 24 |
| RV0MRI63F | 11 | RV0QRI940 | 15 | RV0RCI98Q | 13 | RV0TAK200 | 28 |
| RV0MRI75G | 11 | RV0QRI960 | 15 | RV0RCI98R | 13 | RV0TAK250 | 28 |
| RV0MRI90H | 11 | RV0QRI970 | 15 | RV0RCI991Q | 13 | RV0TAK320 | 28 |
| RV0MRI91I | 11 | RV0QRI980 | 15 | RV0RCI991R | 13 | RV0TAK400 | 28 |
| RV0MRI92L | 11 | RV0QRI991 | 15 | RV0RCI991S | 13 | RV0TAK500 | 28 |
| RV0MRI93L | 11 | RV0QRL200 | 67 | RV0RCL20A | 65 | RV0TAK630 | 28 |
| RV0MRI93M | 11 | RV0QRL250 | 67 | RV0RCL25B | 65 | RV0TAK750 | 28 |
| RV0MRI94L | 11 | RV0QRL320 | 67 | RV0RCL32B | 65 | RV0TAK900 | 28 |
| RV0MRI94N | 11 | RV0QRL400 | 67 | RV0RCL32C | 65 | RV0TAK910 | 28 |
| RV0MRI960 | 11 | RV0QRL500 | 67 | RV0RCL40D | 65 | RV0TCI900 | 10 |
| RV0MRI97Q | 11 | RV0QRL630 | 67 | RV0RCL50D | 65 | RV0TDI900 | 10 |
| RV0NIF160 | 23 | RV0QRL900 | 67 | RV0RCL50E | 65 | RV0TDI930 | 10 |
| RV0NIF200 | 23 | RV0QRL910 | 67 | RV0RCL63D | 65 | RV0TIF160 | 20 |
| RV0NIF250 | 23 | RV0QRL940 | 67 | RV0RCL63F | 65 | RV0TIF200 | 20 |
| RV0NIF320 | 23 | RV0QRL970 | 67 | RV0RCL75F | 65 | RV0TIF250 | 20 |
| RV0NIF400 | 23 | RV0RCF25B | 23 | RV0RCL75G | 65 | RV0TIF320 | 20 |
| RV0NIF500 | 23 | RV0RCF32C | 23 | RV0RCL90F | 65 | RV0TIF400 | 20 |
| RV0NIF630 | 23 | RV0RCF40D | 23 | RV0RCL90G | 65 | RV0TIF500 | 20 |
| RV0NIF750 | 23 | RV0RCF50E | 23 | RV0RCL90H | 65 | RV0TIF630 | 20 |
| RV0NIF900 | 23 | RV0RCF63F | 23 | RV0RCL91G | 65 | RV0TIF750 | 20 |
| RV0NIF910 | 23 | RV0RCF75G | 23 | RV0RCL91H | 65 | RV0TIF900 | 20 |
| RV0NRF20A | 24 | RV0RCF90H | 23 | RV0RCL91I | 65 | RV0TIF910 | 20 |
| RV0NRF25B | 24 | RV0RCF91I | 23 | RV0RCL93I | 65 | RV0TII160 | 8 |
| RV0NRF32C | 24 | RV0RCI20A | 13 | RV0RCL94L | 65 | RV0TII200 | 8 |
| RV0NRF40D | 24 | RV0RCI25A | 13 | RV0RCL970 | 65 | RV0TII250 | 8 |
| RV0NRF50E | 24 | RV0RCI25B | 13 | RV0RCR20A | 72 | RV0TII320 | 8 |
| RV0NRF63F | 24 | RV0RCI32A | 13 | RV0RCR25B | 72 | RV0TII400 | 8 |
| RV0NRF75G | 24 | RV0RCI32B | 13 | RV0RCR32C | 72 | RV0TII500 | 8 |
| RV0NRF90H | 24 | RV0RCI32C | 13 | RV0RIF20A | 21 | RV0TII630 | 8 |
| RV0NRF91I | 24 | RV0RCI40B | 13 | RV0RIF25A | 21 | RV0TII750 | 8, 64 |
| RV0PGF160 | 27 | RV0RCI40C | 13 | RV0RIF25B | 21 | RV0TII900 | 8 |
| RV0PGF200 | 27 | RV0RCI40D | 13 | RV0RIF32A | 21 | RV0TII910 | 8 |
| RV0PGF250 | 27 | RV0RCI50C | 13 | RV0RIF32B | 21 | RV0TII920 | 8 |
| RV0PGF320 | 27 | RV0RCI50D | 13 | RV0RIF32C | 21 | RV0TII930 | 8, 64 |
| RV0PGF400 | 27 | RV0RCI50E | 13 | RV0RIF40B | 21 | RV0TII940 | 8 |
| RV0PGF500 | 27 | RV0RCI63D | 13 | RV0RIF40C | 21 | RV0TII960 | 8 |
| RV0PGF630 | 27 | RV0RCI63E | 13 | RV0RIF40D | 21 | RV0TII970 | 8 |
| RV0PGI160 | 18 | RV0RCI63F | 13 | RV0RIF50C | 21 | RV0TII980 | 8 |

Index

| Code | Page | Code | Page | Code | Page | Code | Page |
|-----------|------|-----------|------|-----------|--------|-----------|--------|
| RV0TII991 | 8 | RV0TTP50F | 34 | VR021I500 | 53 | VSA18I750 | 39, 73 |
| RV0TIL160 | 64 | RV0TTP63G | 34 | VR021I630 | 53 | VSA18I900 | 39 |
| RV0TIL200 | 64 | VFA02D750 | 58 | VR021I750 | 53, 74 | VSA18I910 | 39 |
| RV0TIL250 | 64 | VFA02D75K | 58 | VR021I900 | 53 | VSA18L160 | 73 |
| RV0TIL320 | 64 | VFA02D900 | 58 | VR021L160 | 74 | VSA18L200 | 73 |
| RV0TIL400 | 64 | VFA02D90K | 58 | VR021L200 | 74 | VSA18L250 | 73 |
| RV0TIL500 | 64 | VFA02D910 | 58 | VR021L250 | 74 | VSA18L320 | 73 |
| RV0TIL630 | 64 | VFA02D91K | 58 | VR021L320 | 74 | VSA18L400 | 73 |
| RV0TIL900 | 64 | VFA02D920 | 58 | VR021L400 | 74 | VSA18L500 | 73 |
| RV0TIL910 | 64 | VFA02D92K | 58 | VR021L500 | 74 | VSA18L630 | 73 |
| RV0TIL940 | 64 | VFA02D93K | 58 | VR021L630 | 74 | VSA18L900 | 73 |
| RV0TIL970 | 64 | VFA02D940 | 58 | VR021L900 | 74 | VSA18L910 | 73 |
| RV0TIP16A | 29 | VFA02D94K | 58 | VRV21F160 | 54 | VSA18P500 | 41 |
| RV0TIP20B | 29 | VFA02D960 | 58 | VRV21F200 | 54 | VSA18S160 | 41 |
| RV0TIP25C | 29 | VFA02D96K | 58 | VRV21F250 | 54 | VSA18S200 | 41 |
| RV0TIP32D | 29 | VFA02D97K | 58 | VRV21F320 | 54 | VSA18S250 | 41 |
| RV0TIP40E | 29 | VFK20D750 | 62 | VRV21F400 | 54 | VSA18S320 | 41 |
| RV0TIP50F | 29 | VFK20D900 | 62 | VRV21F500 | 54 | VSA18S400 | 41 |
| RV0TIP63G | 29 | VFK20D910 | 62 | VRV21F630 | 54 | VSA18S500 | 41 |
| RV0TIP75H | 29 | VFK20D920 | 62 | VRV21F750 | 54 | VSA18S630 | 41 |
| RV0TIP90I | 29 | VFK20D940 | 62 | VRV21F900 | 54 | VSA21F200 | 44 |
| RV0TIP91L | 29 | VFK20D960 | 62 | VRV21I160 | 53 | VSA21F250 | 44 |
| RV0TRI20A | 7 | VFK21D750 | 62 | VRV21I200 | 53 | VSA21F320 | 44 |
| RV0TRI25A | 7 | VFK21D900 | 62 | VRV21I250 | 53 | VSA21F400 | 44 |
| RV0TRI25B | 7 | VFK21D910 | 62 | VRV21I320 | 53 | VSA21F500 | 44 |
| RV0TRI32A | 7 | VFK21D920 | 62 | VRV21I400 | 53 | VSA21F630 | 44 |
| RV0TRI32B | 7 | VFK21D940 | 62 | VRV21I500 | 53 | VSA21I200 | 44 |
| RV0TRI32C | 7 | VFK21D960 | 62 | VRV21I630 | 53 | VSA21I250 | 44 |
| RV0TRI40B | 7 | VFK50D750 | 62 | VRV21I750 | 53 | VSA21I320 | 44 |
| RV0TRI40C | 7 | VFK50D900 | 62 | VRV21I900 | 53 | VSA21I400 | 44 |
| RV0TRI40D | 7 | VFK50D910 | 62 | VSA11F200 | 45 | VSA21I500 | 44 |
| RV0TRI50B | 7 | VFK50D920 | 62 | VSA11F250 | 45 | VSA21I630 | 44 |
| RV0TRI50C | 7 | VFK50D940 | 62 | VSA11F320 | 45 | VSA22B200 | 40 |
| RV0TRI50D | 7 | VFK50D960 | 62 | VSA11F400 | 45 | VSA22B250 | 40 |
| RV0TRI50E | 7 | VRF11F200 | 54 | VSA11F500 | 45 | VSA22B320 | 40 |
| RV0TRI63B | 7 | VRF11F250 | 54 | VSA11F630 | 45 | VSA22B400 | 40 |
| RV0TRI63C | 7 | VRF11F320 | 54 | VSA11I200 | 45 | VSA22B500 | 40 |
| RV0TRI63D | 7 | VRF11F400 | 54 | VSA11I250 | 45 | VSA22B630 | 40 |
| RV0TRI63E | 7 | VRF11F500 | 54 | VSA11I320 | 45 | VSA22B750 | 40 |
| RV0TRI63F | 7 | VRF11F630 | 54 | VSA11I400 | 45 | VSA22B900 | 40 |
| RV0TRI75D | 7 | VRF11F900 | 54 | VSA11I500 | 45 | VSA22B910 | 40 |
| RV0TRI75E | 7 | VRF11I200 | 54 | VSA11I630 | 45 | VSA22F160 | 40 |
| RV0TRI75F | 7 | VRF11I250 | 54 | VSA11I750 | 45 | VSA22F200 | 40 |
| RV0TRI75G | 7 | VRF11I320 | 54 | VSA11I900 | 45 | VSA22F250 | 40 |
| RV0TRI90E | 7 | VRF11I400 | 54 | VSA11I910 | 45 | VSA22F320 | 40 |
| RV0TRI90F | 7 | VRF11I500 | 54 | VSA18F160 | 40 | VSA22F400 | 40 |
| RV0TRI90G | 7 | VRF11I630 | 54 | VSA18F200 | 40 | VSA22F500 | 40 |
| RV0TRI90H | 7 | VRF11I900 | 54 | VSA18F250 | 40 | VSA22F630 | 40 |
| RV0TRI91F | 7 | VR021F160 | 53 | VSA18F320 | 40 | VSA22F750 | 40 |
| RV0TRI91G | 7 | VR021F200 | 53 | VSA18F400 | 40 | VSA22F900 | 40 |
| RV0TRI91H | 7 | VR021F250 | 53 | VSA18F500 | 40 | VSA22F910 | 40 |
| RV0TRI91I | 7 | VR021F320 | 53 | VSA18F630 | 40 | VSA22I160 | 39 |
| RV0TRI92G | 7 | VR021F400 | 53 | VSA18F750 | 40 | VSA22I200 | 39 |
| RV0TRI92I | 7 | VR021F500 | 53 | VSA18F900 | 40 | VSA22I250 | 39 |
| RV0TRI92L | 7 | VR021F630 | 53 | VSA18F910 | 40 | VSA22I320 | 39 |
| RV0TRI94I | 7 | VR021F750 | 53 | VSA18I160 | 39 | VSA22I400 | 39 |
| RV0TRI94L | 7 | VR021F900 | 53 | VSA18I200 | 39 | VSA22I500 | 39 |
| RV0TTP16A | 34 | VR021I160 | 53 | VSA18I250 | 39 | VSA22I630 | 39 |
| RV0TTP20B | 34 | VR021I200 | 53 | VSA18I320 | 39 | VSA22I750 | 39, 73 |
| RV0TTP25C | 34 | VR021I250 | 53 | VSA18I400 | 39 | VSA22I900 | 39 |
| RV0TTP32D | 34 | VR021I320 | 53 | VSA18I500 | 39 | VSA22I910 | 39 |
| RV0TTP40E | 34 | VR021I400 | 53 | VSA18I630 | 39 | VSA22L160 | 73 |

Index

| Code | Page |
|-------------|-------------|
| VSA22L200 | 73 |
| VSA22L250 | 73 |
| VSA22L320 | 73 |
| VSA22L400 | 73 |
| VSA22L500 | 73 |
| VSA22L630 | 73 |
| VSA22L900 | 73 |
| VSA22L910 | 73 |
| VSI12F200 | 48 |
| VSI12F250 | 48 |
| VSI12F320 | 48 |
| VSI12F400 | 48 |
| VSI12F500 | 48 |
| VSI12F630 | 48 |
| VSI12F750 | 48 |
| VSI12F900 | 48 |
| VSI12F910 | 48 |
| VSI13F200 | 48 |
| VSI13F250 | 48 |
| VSI13F320 | 48 |
| VSI13F400 | 48 |
| VSI13F500 | 48 |
| VSI13F630 | 48 |
| VSI14P32D | 49 |
| VSI16P200 | 49 |
| VSI16P250 | 49 |
| VSI16P320 | 49 |
| VSI16P400 | 49 |
| VSI16P500 | 49 |
| VSI16P630 | 49 |
| VVCLP750 | 55 |
| VVCLP900 | 55 |
| VVCLP910 | 55 |
| VVCLP920 | 55 |
| VVCLP940 | 55 |
| VVCLP960 | 55 |
| XSASED160 | 42 |
| XSASED200 | 42 |
| XSASED250 | 42 |
| XSASED320 | 42 |
| XSASED400 | 42 |
| XSASED500 | 42 |
| XSASED630 | 42 |
| XSASED750 | 42 |
| XSASED900 | 42 |
| XSASED910 | 42 |
| XVFFLIZ75 | 59 |
| XVFFLIZ90 | 59 |
| XVFFLIZ91 | 59 |
| XVFFLIZ92 | 59 |
| XVFFLIZ93 | 59 |
| XVFFLIZ94 | 59 |
| XVFFLIZ96 | 59 |
| XVFFLIZ97 | 59 |