

Product Range  
International  
2010

PVC-U  
piping systems for  
industrial application

Pipe, Fittings,  
Valves and Accessories





# More than 50 Years of Application Know How



Our long experience in plastic piping systems applications is also for your security. Approvals and third party controls are guarantee for continuously high

quality. Many of our products have the necessary approvals of the relevant institutes and thanks to the batch identification they are traceable.

## Fields of applications

Our specialists are proving their wide material knowledge and their application experience day by day in various industries:

- Water treatment
- Waste water treatment
- Galvanics
- Chemical industry
- Automotive industry
- Electronic industry
- Energy
- Swimming pools
- Cellulose and paper industry
- Photo industry

- Textile industry
- Shipbuilding
- Beverage industry
- Exhaust gas cleaning
- Chlorine industry
- Cooling and air conditioning
- Refrigeration plants
- Food
- Mining

Do you miss your application in the above list? No problem. Please call us, and we will find a solution according to your specifications.

## Approvals

**kiwa**

**IIP**

**NF**



Lebensmittelzulassung

## Drinking water approvals

**WRAS**  
APPROVED  
PRODUCT

MAIRIE DE PARIS

**kiwa**

## Shipbuilding approvals



**BUREAU  
VERITAS**



Germanischer Lloyd



DET NORSKE VERITAS

Lloyd's  
Register

# Quality Products with Advantages



## Advantage of Wide Product Ranges

Fittings

Hand Operated Valves

Pipes

Jointing Systems

Actuated Valves

Measure and Control Technology

Machines and Tools

available in four standards: ISO/DIN, ASTM/ANSI, BS and JIS



Quality management system certified according to ISO 9001/EN 29001 and ISO



## Advantage of Quality

Compound

Our own compound and strict quality controls for each raw material delivery form the basis for GF Piping Systems high quality products.

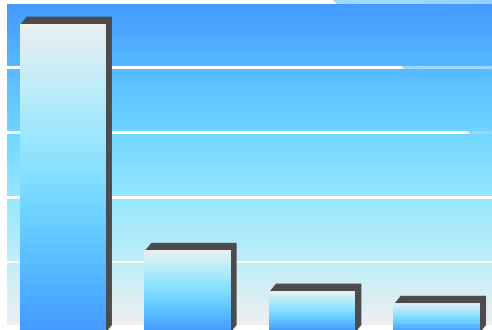
Production Know-How

Due to know-how gathered over 50 years we are able to produce our products to exceptionally high tolerances.

## Advantage for the Environment

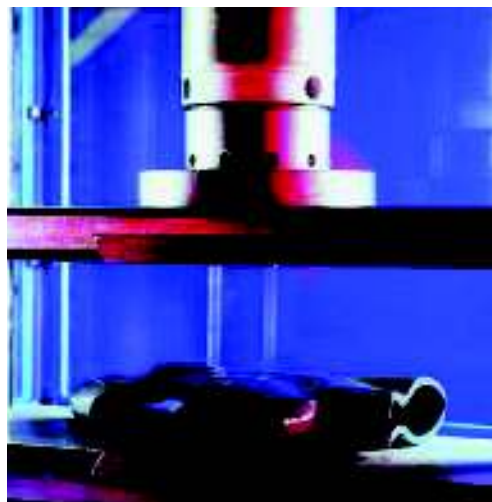
In addition to the economical advantage of PVC-U, PVC-C and ABS there are also ecological advantages:

- Preserving diminishing natural resources
- Less energy required
- Possibility of recycling
- Very long life span



Source: ICI

Energy required for 100 m pressurised pipe



## Advantage of Production Quality Control Tests

- Pressure Pulsation Testing 1000 h Test
- Chemical Resistance Functions
- Temperature Cycling Test
- Cyclic Bending Test

Independently accredited test laboratory for components of plastic piping systems according to SN EN ISO 45001

# for Professional Users

## Advantage in Planning

### One-stop-shopping for complete systems

Many customers prefer to purchase the complete piping system from one supplier. Because only systems that are designed to complement each other guarantee easy planning, installing and efficient functioning of the piping system.

### CAD Product Library

For drawing and providing a list of orders GF Piping Systems CAD Product Library is an optimal solution. Can be used with AutoCAD and other CAD systems.



## Advantage of Choosing the Right Material

For maximum safety and optimal durability of a piping system the choice of raw material and pressure class of the pipe parts is highly important. The raw material's suitability to the medium can be checked with the help of our chemical resistance list.



## Advantage of Installation Technique

Cement jointing is simple, fast, economical and very reliable.

Over 100 million homogenous joints have been made over the total life time of piping systems, achieving the highest quality requirements.



## Advantage of Support

### Training

GF Piping Systems offers training possibilities at our regional sales companies, in our own training center in Schaffhausen or at your premises. For cement jointing we can also provide you with a training video.

### Worldwide Distribution

Sales companies, representatives and dealers from GF Piping Systems can supply you with complete technical advice, punctual distribution and fast service in almost every corner of the world.



# GF Piping Systems quality is no coincidence!

More than 50 years of research, development and experience have shaped our high standard of quality. You will find the solution to your problem in our extensive product range:

## Solvent Cemented Systems

### PVC-U

Unplasticised  
Polyvinyl Chloride

**Range of sizes:**  
6–400 mm, BS 3/8" – 8"

**Resistant to:**  
Acids and alkalis

**Recommended applications:**  
Drinking water, distilled water, general purpose water, waste water, coolant brines, sea water, construction of plant and apparatus, foodstuffs, beverages. Universally applicable plastic with the widest range of fittings and valves

**Not recommended for:**  
Aromatic solvents, ester, ketones, chlorinated hydrocarbons  
low temperature uses ( $< 0\text{ }^{\circ}\text{C}$ )  
high temperature uses ( $> 60\text{ }^{\circ}\text{C}$ )

### PVC-C

post-chlorinated PVC-U

**Range of sizes:**  
16–225 mm

**Resistant to:**  
Acids and alkalis at high temps (max.  $90\text{ }^{\circ}\text{C}$ ) and high concentrations

**Recommended applications:**  
Hot and aggressive mediums, high temperature, high corrosive environments, chemical industry generally (e.g. mixed acid waste) and hot water industrial applications

**Not recommended for:**  
Aromatic solvents, ester, ketones, chlorinated hydrocarbons  
low temperature uses ( $< 0\text{ }^{\circ}\text{C}$ )

### ABS

Acrylonitrile Butadiene  
Styrene

**Range of sizes:**  
16–315 mm  
BS 3/8" – 8"

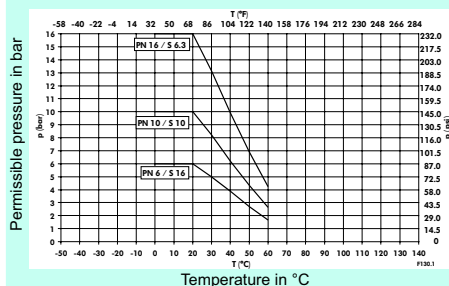
**Resistant to:**  
Alkalis, weak acids, and salts

**Recommended applications:**  
Low temperature brine, chilled water, refrigerants, air conditioning, drinking water, water treatment, process water, mining industry, and foodstuffs

**Not recommended for:**  
High temperature uses ( $> 60\text{ }^{\circ}\text{C}$ )  
bleaches, aromatic solvents, ester, ketones and alcohols

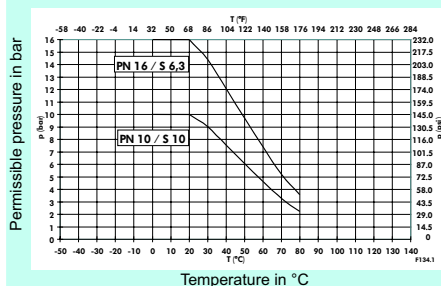
### Application Limits for Pipes and Fittings in PVC-U

25-year values with Design Factor C included at  $20\text{ }^{\circ}\text{C}$  water



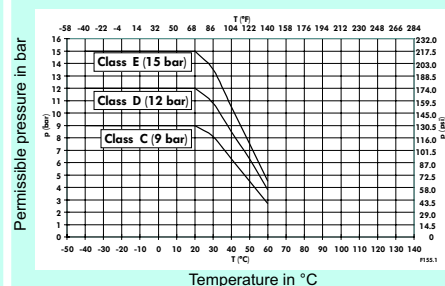
### Application Limits for Pipes and Fittings in PVC-C

25-year values with Design Factor C included at  $20\text{ }^{\circ}\text{C}$  water





























### Application Limits for Pipes and Fittings in ABS

25-year values with Design Factor C included at  $20\text{ }^{\circ}\text{C}$  water





























# Plastic Piping Systems PVC-U














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# Fittings

## General information

### Materials

The material PVC-U conforms with the corresponding recommendations of the German Federal Board of Health.

### Standards

All the main dimensions of solvent cement fittings and adaptor pipe fittings, such as nominal bore, z dimensions, socket depth and diameter, are in accordance with ISO Recommendations, ISO Draft Resolutions for millimetre pipes and DIN 8063.

Solvent cement joint	Threaded joint	Flange joints
ISO 727 DIN 8063 DIN EN ISO 15493 NF T54-028/016 DIN EN 1452-3 ASTM D-2464 ANSI B 1.20.1	ISO 7/1 ISO 228/1 DIN 2999 UNI 338 BSI 21	DIN 2501/8063 ISO 7005 BS 4504 ANSI / B16.5

For PVC-U Fittings in British Standard please request our special literature.

### Jointing

**Solvent cement jointing:**  
Pipes with outside diameter tolerances in accordance with ISO 11922-3 can be readily jointed with GF Piping Systems fittings.

**Threaded joint:**  
Threaded plastic fittings should be jointed to plastic pipes or to other plastic parts. Jointing to metal pipes or fittings is permissible only where there is little stress, and should be carried out with great care.

### Solvent Cement

A cement with gap-filling properties must be used. Our instructions for solvent connections are based on the use of TANGIT solvent cement.

### Nominal Pressure

Unless otherwise stated:  
Conditional pressure for solvent cement fittings and adaptor fittings:  
PN 16, i.e. 16 bar at 20°C (water).  
Conditional pressure for threaded fittings:  
PN 10, i.e. 10 bar at 20°C (water).

### Marking

Solvent cement and adaptor pipe fittings from GF Piping Systems are marked as follows:

- +GF+
- pipe o.d. or pipe thread size
- Material

Pressure rating:  
M = PN 16  
unmarked = PN 10  
S 6.3/PN 16 = PN 16  
S 10/PN 10 = PN 10

Threaded pipe fittings from GF Piping Systems are marked as follows:

- +GF+
- pipe thread size
- Material

Reducing fittings are marked in the following sequence (Fig. 1):

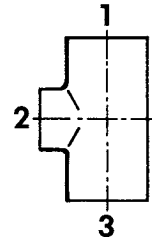


Fig. 1

### Angle Marking

PVC fittings for solvent cement jointing from GF Piping Systems are being supplied with a 45° angle marking (Fig. 2).

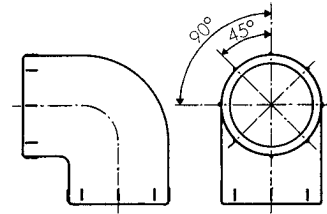


Fig. 2

### Dimensions

All dimensions are given in mm.

### Information Service

For detailed information see our Catalogue «Plastic Piping Systems».

### Quality Mark

The GF Piping Systems PVC-U fittings are tested to the following national standards institutes. The quality and test levels of our PVC-U fittings are constantly inspected by these institutes in our works.

BSI, Kite Mark, England  
NF, Marque de qualité, France  
KIWA, Netherlands  
UNI, Istituto Italiano Plastici, Italy  
ÖNORM, Austria Plastics Institute, Austria  
DIBT, TÜV Bavaria, Germany

### Orders

Always quote the GF Piping Systems code number when placing orders.

### Ordering example

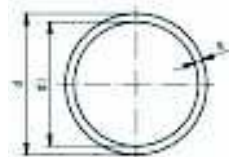
90° bend 721 000 111

# List of abbreviations

ANSI	American National Standard	DN	Nominal bore
ASTM	American Society for Testing and Materials	PN	Nominal pressure at 20°C, water
BS	British Standard	kg	Weight in kilograms
DIN	Deutsche Industrie-Normen	SP	Standard pack. The figure given indicates the quantity of fittings contained in a standard pack
ISO	International Standardization Organisation	GP	Gross pack. The figure given indicates the quantity of fittings contained in a gross pack
ABS	Acrylnitril Butadien Styrene	G	Pipe thread, not pressure tight in the thread to ISO 228-1
PVC-U	Polyvinyl Chloride	NPT	Taper male thread pressure tight in the thread to ANSI B 1.20.1
PVC-C	Polyvinyl Chloride chlorinated	R	Taper male thread, pressure tight in the thread to ISO 7-1/DIN 2999-1
PP	Polypropylene, heat stabilised	Rc	Taper female thread, pressure tight in the thread to ISO 7-1/DIN 2999-1
PE	Polyethylene	Rp	Parallel female thread, pressure tight in the thread to ISO 7-1/DIN 2999-1
PVDF	Polyvinylidene fluoride	Tr	Trapezoid thread
EPDM	Ethylene Propylene Rubber	SC	Size of hexagon bolts
FPM	Fluorine Rubber, e.g. Viton®	s	A/F
NBR	Nitrile Rubber	e	Wall thickness
IIR	Butyl Rubber	AL	Number of bolt holes
CSM	Chlore Sulphonyl Polythene, e.g. Hypalon®	®	Registered trade-mark
CR	Chloroprene Rubber, e.g. Neoprene®		
PTFE	Polytetrafluorethylene, e.g. Teflon®		
PBTP	Polybutylene terephthalate		
UP-GF	Unsaturated polyester resin glassfibre reinforced		
St	Steel		
Ms	Brass		
Tg	Malleable Iron		
d	Pipe outside diameter		

## Pipes metric

61 01 71



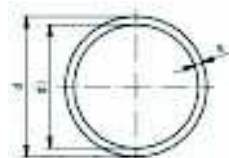
### Pipe PVC-U grey Series S6.3 SDR13.6 nominal pressure PN16

**Model:**

- Material: PVC-U, Polyvinylchloride unplasticised DIN 8061
- Colour: RAL 7011 - dark-grey
- Dimension: DIN EN ISO 15493, DIN 8062
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

d [mm]	d [inch]	PN	Code	e [mm]	di [mm]	Weight [kg/m]
12		16	<b>161 017 104</b>	1.0	10.0	0.055
16		16	<b>161 017 105</b>	1.2	13.6	0.090
20		16	<b>161 017 106</b>	1.5	17.0	0.137
25		16	<b>161 017 107</b>	1.9	21.2	0.212
32		16	<b>161 017 108</b>	2.4	27.2	0.342
40		16	<b>161 017 109</b>	3.0	34.0	0.525
50		16	<b>161 017 110</b>	3.7	42.6	0.809
63		16	<b>161 017 111</b>	4.7	53.6	1.290
75	2 ½	16	<b>161 017 112</b>	5.6	63.8	1.820
90		16	<b>161 017 113</b>	6.7	76.6	2.610
110		16	<b>161 017 114</b>	8.1	93.8	3.900
125		16	<b>161 017 115</b>	9.2	106.6	5.010
140	5	16	<b>161 017 116</b>	10.8	118.4	6.270
160		16	<b>161 017 117</b>	11.8	136.4	8.170

61 01 71



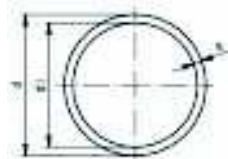
### Pipe PVC-U grey Series S4 SDR9 nominal pressure PN16

**Model:**

- Material: PVC-U, Polyvinylchloride unplasticised DIN 8061
- Colour: RAL 7011 - dark-grey
- Dimension: DIN EN ISO 15493, DIN 8062
- Pipe length: 5m, with plain ends
- **Increased wall thickness for industrial use**
- Minimum order quantity: 1 length

d [mm]	PN	Code	e [mm]	di [mm]	Weight [kg/m]
6	16	<b>161 017 126</b>	1.0	4.0	0.025
8	16	<b>161 017 127</b>	1.0	6.0	0.035
10	16	<b>161 017 128</b>	1.2	7.6	0.053
12	16	<b>161 017 129</b>	1.4	9.2	0.073
16	16	<b>161 017 130</b>	1.8	12.4	0.123
20	16	<b>161 017 131</b>	2.3	15.4	0.196
25	16	<b>161 017 132</b>	2.8	19.4	0.294
32	16	<b>161 017 133</b>	3.6	24.8	0.482
40	16	<b>161 017 134</b>	4.5	31.0	0.750
50	16	<b>161 017 135</b>	5.6	38.8	1.160
63	16	<b>161 017 136</b>	7.0	49.0	1.820
75	16	<b>161 017 137</b>	8.4	58.2	2.600
90	16	<b>161 017 138</b>	10.0	70.0	3.700
110	16	<b>161 017 139</b>	12.3	85.4	5.560

61 01 70



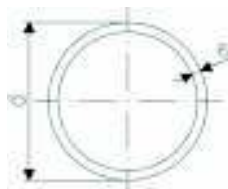
## Pipe PVC-U grey Series S10 SDR21 nominal pressure PN10

### Model:

- Material: PVC-U, Polyvinylchloride unplasticised DIN 8061
- Colour: RAL 7011 - dark-grey
- Dimension: DIN EN ISO 15493, DIN 8062
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

\* See comments regarding PN in +GF+ planning fundamentals

d [mm]	PN	Code	e [mm]	di [mm]	Weight [kg/m]
25	10	161 017 082	1.5	22.0	0.174
32	10	161 017 083	1.8	28.4	0.264
40	10	161 017 084	1.9	36.2	0.350
50	10	161 017 085	2.4	45.2	0.552
63	10	161 017 086	3.0	57.0	0.854
75	10	161 017 087	3.6	67.8	1.220
90	10	161 017 088	4.3	81.4	1.750
110	10	161 017 089	5.3	99.4	2.610
125	10	161 017 090	6.0	113.0	3.340
140	10	161 017 091	6.7	126.6	4.180
160	10	161 017 092	7.7	144.6	5.470
180	10	161 017 093	8.6	162.8	6.880
200	10	161 017 094	9.6	180.8	8.510
225	10	161 017 095	10.8	203.4	10.800
250	10	161 017 096	11.9	226.2	13.200
280	10	161 017 097	13.4	253.2	16.000
* 315	6	161 017 098	15.0	285.0	20.900



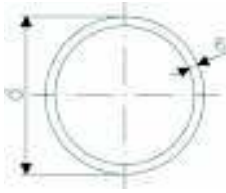
## Pipe PVC-U grey SDR34.3 nominal pressure PN6

### Model:

- Material: PVC-U, Polyvinylchloride unplasticised DIN 8061
- Colour: RAL 7011 - dark-grey
- Dimension: DIN EN ISO 15493, DIN 8062
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

d [mm]	PN	Code	e [mm]	di [mm]	Weight [kg/m]
50	6	161 017 060	1.8	46.4	0.422
63	6	161 017 061	1.9	59.2	0.562
75	6	161 017 062	2.2	70.6	0.782
90	6	161 017 063	2.7	84.6	1.130
110	6	161 017 064	3.2	103.6	1.640
140	6	161 017 066	4.1	131.8	2.650
160	6	161 017 067	4.7	150.6	3.440
180	6	161 017 068	5.3	169.4	4.370
200	6	161 017 069	5.9	188.2	5.370
225	6	161 017 070	6.6	211.6	6.760
250	6	161 017 071	7.3	235.4	8.310
315	6	161 017 072	9.2	296.6	13.200
355	6	161 017 073	10.4	334.2	16.700
400	6	161 017 074	11.7	376.6	21.100



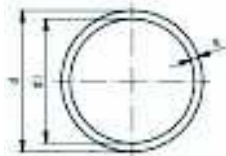


## Pipe PVC-U grey SDR51 nominal pressure PN4

### Model:

- Material: PVC-U, Polyvinylchloride unplasticised DIN 8061
- Colour: RAL 7011 - dark-grey
- Dimension: DIN EN ISO 15493, DIN 8062
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

d [mm]	PN	Code	e [mm]	di [mm]	Weight [kg/m]
75	4	161 017 037	1.8	71.4	0.642
90	4	161 017 038	1.8	86.4	0.774
110	4	161 017 039	2.2	105.6	1.160
125	4	161 017 040	2.5	120.0	1.480
140	4	161 017 041	2.8	134.4	1.840
160	4	161 017 042	3.2	153.6	2.410
180	4	161 017 043	3.6	172.8	3.020
200	4	161 017 044	4.0	192.0	3.700
225	4	161 017 045	4.5	216.0	4.700
250	4	161 017 046	4.9	240.2	5.650
280	4	161 017 047	5.5	269.0	7.110
315	4	161 017 048	6.2	302.6	9.020

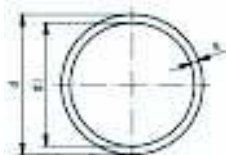


## Pipe PVC-U transparent Series S6.25 SDR13.5 nominal pressure PN16

### Model:

- Material: PVC-U, Polyvinylchloride unplasticised DIN 8061
- Colour: transparent
- Dimension: DIN EN ISO 15493, DIN 8062
- Pipe length: 5m, with plain ends
- The material used fulfills the requirements of DIN 8061 in all aspects except longterm pressure test
- Minimum order quantity: 1 length

d [mm]	PN	Code	e [mm]	di [mm]	Weight [kg/m]
12	16	192 017 104	1.0	10.0	0.055
16	16	192 017 105	1.2	13.6	0.090
20	16	192 017 106	1.5	17.0	0.137
25	16	192 017 107	1.9	21.2	0.212
32	16	192 017 108	2.4	27.2	0.342
40	16	192 017 109	3.0	34.0	0.525
50	16	192 017 110	3.7	42.6	0.809
63	16	192 017 111	4.7	53.6	1.290

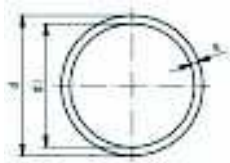


## Pipe PVC-U transparent Series S10 SDR21 nominal pressure PN10

### Model:

- Material: PVC-U, Polyvinylchloride unplasticised DIN 8061
- Colour: transparent
- Dimension: DIN EN ISO 15493, DIN 8062
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

d [mm]	PN	Code	e [mm]	di [mm]	Weight [kg/m]
25	10	192 017 082	1.5	22.0	0.174
32	10	192 017 083	1.8	28.4	0.264
40	10	192 017 084	1.9	36.2	0.366
50	10	192 017 085	2.4	45.2	0.552
63	10	192 017 086	3.0	57.0	0.854
75	10	192 017 087	3.6	67.8	1.220
90	10	192 017 088	4.3	81.4	1.750
110	10	192 017 089	5.3	99.4	2.610

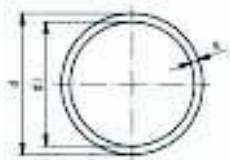


## Pipe PVC-U transparent Series S16.7 SDR34.3 nominal pressure PN6

### Model:

- Material: PVC-U, Polyvinylchloride unplasticised DIN 8061
- Colour: transparent
- Dimension: DIN EN ISO 15493, DIN 8062
- Pipe length: 5m, with plain ends
- The material used fullfills the requirements of DIN 8061 in all aspects except longterm pressure test
- Minimum order quantity: 1 length

d [mm]	PN	Code	e [mm]	di [mm]	Weight [kg/m]
50	6	192 017 060	1.8	46.4	0.422
160	6	192 017 080	4.7	150.6	3.440



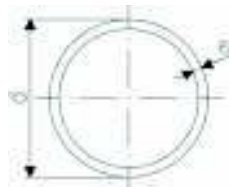
## Pipe PVC-U transparent Series S25 SDR51 nominal pressure PN4

### Model:

- Material: PVC-U, Polyvinylchloride unplasticised DIN 8061
- Colour: transparent
- Dimension: DIN EN ISO 15493, DIN 8062
- Pipe length: 5m, with plain ends
- The material used fullfills the requirements of DIN 8061 in all aspects except longterm pressure test
- Minimum order quantity: 1 length

d [mm]	PN	Code	e [mm]	di [mm]	Weight [kg/m]
63	4	192 017 036	1.8	59.4	0.532
75	4	192 017 037	1.8	71.4	0.642
90	4	192 017 038	1.8	86.4	0.774
110	4	192 017 039	2.2	105.6	1.160
125	4	192 017 040	2.5	120.0	1.480
140	4	192 017 041	2.8	134.4	1.840
160	4	192 017 042	3.2	153.6	2.410
200	4	192 017 044	4.0	192.0	3.700
225	4	192 017 045	4.5	216.0	5.650
250	4	192 017 046	4.9	240.2	5.650
280	4	192 017 047	5.5	269.0	7.600

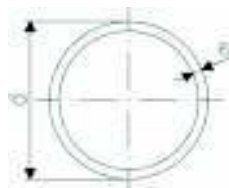
## Pipes Inch BS



### Pipe PVC-U grey class E 15 bar at 20°C

- Material: PVC-U, Polyvinylchloride unplasticised
- Dimensions: BS EN 1452 Part 1 & 2 (formally BS 3505)
- Pipe length: 6m with plain ends
- Minimum order quantity: 1 length

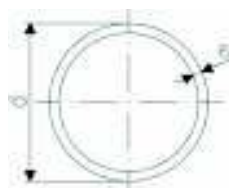
d [inch]	PN	Code	kg/m	e [mm]	di [mm]
3/8	15	<b>161 018 080</b>	0.114	1.9	5.0
1/2	15	<b>161 018 082</b>	0.161	1.9	8.0
3/4	15	<b>161 018 083</b>	0.225	2.1	14.0
1	15	<b>161 018 084</b>	0.325	2.5	20.0
1 1/4	15	<b>161 018 085</b>	0.503	3.1	25.0
1 1/2	15	<b>161 018 086</b>	0.659	3.7	30.0
2	15	<b>161 018 087</b>	1.038	4.5	41.0
2 1/2	16	<b>161 017 112</b>	1.820	5.6	63.8
3	15	<b>161 018 088</b>	2.245	6.7	62.0
4	15	<b>161 018 089</b>	3.667	8.6	84.0
5	16	<b>161 017 116</b>	6.215	10.8	118.4
6	15	<b>161 018 092</b>	8.330	10.8	146.4



### Pipe PVC-U grey class C 9 bar at 20°C

- Material: PVC-U, Polyvinylchloride unplasticised
- Dimensions: BS EN 1452 Part 1 & 2 (formally BS 3505)
- Pipe length: 6m with plain ends
- Minimum order quantity: 1 length

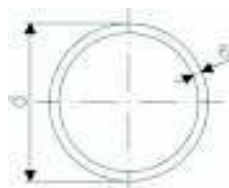
d [inch]	PN	Code	kg/m	e [mm]	di [mm]
2	9	<b>161 018 036</b>	0.694	2,8	45
3	9	<b>161 018 038</b>	1.434	4,1	68
4	9	<b>161 018 039</b>	2.358	5,3	91
6	9	<b>161 018 042</b>	5.058	7,8	111
8	9	<b>161 018 045</b>	1.388	8,8	135



### Pipe PVC-U grey class D 12 bar at 20°C

- Material: PVC-U, Polyvinylchloride unplasticised
- Dimensions: BS EN 1452 Part 1 & 2 (formally BS 3505)
- Pipe length: 6m with plain ends
- Minimum order quantity: 1 length

d [inch]	PN	Code	kg/m	e [mm]	di [mm]
1 1/4	12	<b>161 018 059</b>	0.420	2,2	27
1 1/2	12	<b>161 018 060</b>	0.550	2,9	32
2	12	<b>161 018 061</b>	0.900	3,7	43
3	12	<b>161 018 063</b>	1.930	5,4	65
4	12	<b>161 018 064</b>	3.230	7,0	87



### Pipe PVC-U grey class 7 (T) 12 bar at 20°C

- Thick wall pipe to allow for threading
- Material: PVC-U, Polyvinylchloride unplasticised
- Dimensions: BS EN 1452 Part 1 & 2 (formally BS 3505)
- Pipe length: 6m with plain ends
- Minimum order quantity: 1 length

d [inch]	PN	Code	kg/m	e [mm]	di [mm]
3/8	12	<b>161 018 255</b>	0.210	3,8	1
1/2	12	<b>161 018 256</b>	0.310	4,0	4
3/4	12	<b>161 018 257</b>	0.420	4,2	10
1	12	<b>161 018 258</b>	0.620	4,8	15
1 1/4	12	<b>161 018 259</b>	0.860	5,2	21
1 1/2	12	<b>161 018 260</b>	1.050	5,5	27
2	12	<b>161 018 261</b>	1.430	6,0	38

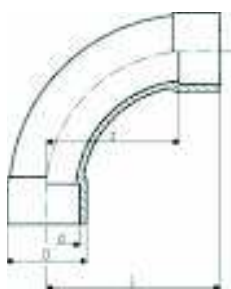
## Fittings metric

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### Bends 90°, PVC-U metric



$r=2d$



d [mm]	d [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	L [mm]
20		16	721 000 106	10	100	0.028	40	27	56
25		16	721 000 107	10	100	0.049	50	33	69
32		16	721 000 108	10	50	0.067	64	38	86
40		16	721 000 109	30	-	0.130	80	47	106
50		16	721 000 110	5	-	0.277	100	61	131
63		16	721 000 111	5	-	0.515	126	76	164
75	2 ½	16	721 000 112	5	-	0.786	150	90	194
90		16	721 000 113	5	-	1.334	180	108	231
110		16	721 000 114	5	-	2.960	220	137	281
140	5	16	721 000 116	2	-	5.100	280	168	356
160		16	721 000 117	1	-	7.300	320	192	406

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### Bends 90° short pattern, PVC-U metric

\* See comments regarding PN in +GF+ planning fundamentals



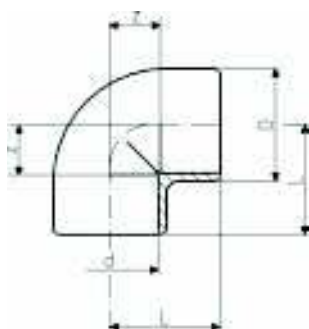
$r = 0,75 d$



d [mm]	PN	Code	SP	GP	kg	z [mm]	D [mm]	L [mm]
225	10	721 010 120	1	1	7.400	168	256	287
280	10	721 010 122	1	-	16.100	210	318	357
* 315	6	721 010 123	1	-	21.200	237	356	402
400	6	721 010 125	1	-	30.000	300	442	521

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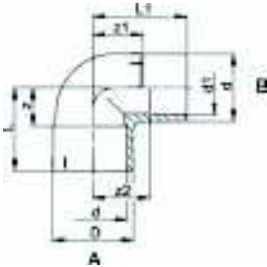
### Elbow 90° PVC-U metric



d [mm]	d [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	L [mm]
6		16	721 100 101	10	700	0.004	4	11	16
8		16	721 100 102	10	550	0.004	5	13	17
10		16	721 100 103	10	500	0.004	6	14	18
12		16	721 100 104	10	150	0.006	7	17	19
16		16	721 100 105	10	100	0.009	9	21	23
20		16	721 100 106	10	100	0.013	11	25	27
25		16	721 100 107	10	100	0.025	14	32	33
32		16	721 100 108	10	100	0.041	17	40	39
40		16	721 100 109	10	50	0.064	23	47	49
50		16	721 100 110	10	100	0.109	26	59	57
63		16	721 100 111	10	-	0.204	33	73	71
75	2 ½	16	721 100 112	5	-	0.329	40	87	83
90		16	721 100 113	5	-	0.573	46	105	97
110		16	721 100 114	4	-	1.036	55	128	116
125		16	721 100 115	1	-	1.460	63	146	131
140	5	16	721 100 116	4	-	2.340	70	162	146
160		16	721 100 117	2	-	3.475	80	185	166
200		10	721 100 119	1	-	4.700	101	225	207
225		10	721 100 120	1	1	6.950	114	252	233
250		10	721 100 121	1	-	9.500	131	282	263

21 10 03

**PRO-FIT Elbows 90°, PVC-U metric**



**Model:**

- Outlet: A = Solvent cemented socket metric
- Outlet: B = Solvent cemented spigot in combination with reducing socket metric
- Direct connection from fitting to fitting allowing shortest possible overall length

d [mm]	d1 [mm]	PN	Code	SP	GP	kg	z [mm]	z1 [mm]	z2 [mm]	D [mm]	L [mm]	L1 [mm]
20	16	16	721 100 306	10	100	0.013	11	16	18	25	27	32
25	20	16	721 100 307	10	100	0.022	14	18	21	31	33	37
32	25	16	721 100 308	10	100	0.040	17	22	25	38	39	44
40	32	16	721 100 309	10	50	0.070	23	30	34	47	49	56
50	40	16	721 100 310	10	50	0.122	26	36	41	58	57	67
63	50	16	721 100 311	10	-	0.237	33	45	52	73	71	83

21 15 03

**PRO-FIT Elbows 45°, PVC-U metric**



**Model:**

- Outlet: A = Solvent cemented socket metric
- Outlet: B = Solvent cemented spigot in combination with reducing socket metric
- Direct connection from fitting to fitting allowing shortest possible overall length

d [mm]	d1 [mm]	PN	Code	SP	GP	kg	z [mm]	z1 [mm]	z2 [mm]	D [mm]	L [mm]	L1 [mm]
20	16	16	721 150 306	10	100	0.010	5	9	11	25	21	25
25	20	16	721 150 307	10	100	0.016	6	11	14	31	25	30
32	25	16	721 150 308	10	100	0.030	8	13	16	38	30	35
40	32	16	721 150 309	5	50	0.052	10	17	21	47	36	43
50	40	16	721 150 310	5	50	0.090	12	18	23	58	43	49
63	50	16	721 150 311	5	50	0.176	14	23	30	73	52	61

21 15 01

**Elbow 45° PVC-U metric**

\* See comments regarding PN in +GF+ planning fundamentals



d [mm]	d [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	L [mm]
16		16	721 150 105	10	100	0.008	5	21	19
20		16	721 150 106	10	100	0.011	5	25	21
25		16	721 150 107	10	100	0.018	6	31	25
32		16	721 150 108	10	100	0.029	8	38	30
40		16	721 150 109	10	50	0.049	10	47	36
50		16	721 150 110	5	50	0.089	12	59	43
63		16	721 150 111	5	50	0.161	14	73	52
75	2 ½	16	721 150 112	5	-	0.250	17	87	61
90		16	721 150 113	5	-	0.431	20	105	71
110		16	721 150 114	5	-	0.733	25	127	86
125		16	721 150 115	1	-	1.162	28	146	97
140	5	16	721 150 116	1	-	1.639	32	162	108
160		16	721 150 117	4	-	2.520	36	185	122
200		10	721 150 119	2	-	3.300	43	225	149
225		10	721 150 120	1	-	4.900	49	250	168
250		10	721 150 121	1	-	7.150	60	282	192
280		10	721 150 122	1	-	10.800	66	318	213
* 315		10	721 150 123	1	-	14.900	74	356	239
400		6	721 150 125	1	-	24.000	94	442	302

21 20 01

### Tee 90° equal PVC-U metric

\* See comments regarding PN in +GF+ planning fundamentals



d [mm]	d [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	L [mm]
6		16	721 200 101	10	550	0.004	4	11	16
8		16	721 200 102	10	500	0.008	5	13	17
10		16	721 200 103	10	350	0.008	6	16	18
12		16	721 200 104	10	280	0.016	7	19	19
16		16	721 200 105	10	100	0.012	9	21	23
20		16	721 200 106	10	100	0.017	11	25	27
25		16	721 200 107	10	100	0.029	14	31	33
32		16	721 200 108	10	100	0.055	17	38	39
40		16	721 200 109	10	50	0.100	23	48	49
50		16	721 200 110	10	-	0.153	26	58	57
63		16	721 200 111	10	-	0.334	33	73	71
75	2 ½	16	721 200 112	5	-	0.473	39	87	83
90		16	721 200 113	5	-	0.822	46	105	97
110		16	721 200 114	6	-	1.392	55	127	116
125		16	721 200 115	2	-	2.400	66	151	135
140	5	16	721 200 116	1	1	3.546	71	169	147
160		16	721 200 117	1	1	4.963	81	193	167
200		10	721 200 119	1	-	5.763	101	225	207
225		10	721 200 120	1	-	9.067	114	256	233
250		10	721 200 121	1	-	12.500	132	282	263
280		10	721 200 122	1	-	17.480	152	318	298
* 315		10	721 200 123	1	-	24.350	168	356	332
400		6	721 200 125	1	-	39.500	214	442	420

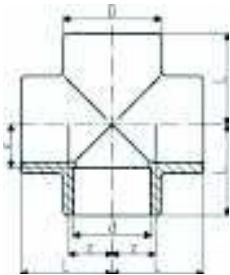
21 20 03

### PRO-FIT Tees 90° equal, PVC-U metric



d [mm]	d1 [mm]	PN	Code	SP	GP	kg	z [mm]	z1 [mm]	z2 [mm]	D [mm]	L [mm]	L1 [mm]	L2 [mm]
20	16	16	721 200 306	10	100	0.017	11	17	19	25	27	33	27
25	20	16	721 200 307	10	100	0.028	14	19	22	31	33	38	33
32	25	16	721 200 308	10	100	0.052	17	24	27	38	39	46	39
40	32	16	721 200 309	10	50	0.098	23	30	34	47	47	56	49
50	40	16	721 200 310	10	-	0.173	26	36	41	58	57	67	57
63	50	16	721 200 311	10	-	0.329	33	45	52	73	71	83	71

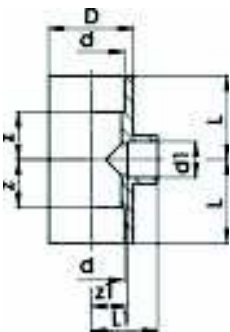
21 30 01



**Crosses, PVC-U metric**

d [mm]	d [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	L [mm]
10		16	<b>721 300 103</b>	100	-	0.009	7	16	19
12		16	<b>721 300 104</b>	100	-	0.011	8	18	20
16		16	<b>721 300 105</b>	100	-	0.020	10	23	24
20		16	<b>721 300 106</b>	10	100	0.037	11	29	27
25		16	<b>721 300 107</b>	10	100	0.058	14	35	33
32		16	<b>721 300 108</b>	10	50	0.092	17	43	39
40		16	<b>721 300 109</b>	5	50	0.155	23	52	49
50		16	<b>721 300 110</b>	5	30	0.265	28	63	59
63		16	<b>721 300 111</b>	5	-	0.480	34	79	72
75	2 ½	10	<b>721 300 112</b>	3	-	0.660	40	92	83
90		10	<b>721 300 113</b>	4	-	0.960	48	106	97
110		10	<b>721 300 114</b>	4	-	1.600	58	128	117

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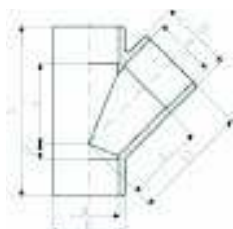
**Tees 90° reducing, PVC-U metric**

\* See comments regarding PN in +GF+ planning fundamentals

d [mm]	d1 [mm]	PN	Code	SP	GP	kg	z [mm]	z1 [mm]	D [mm]	L [mm]	L1 [mm]
25	20	16	<b>721 200 134</b>	10	100	0.055	14	14	33	33	30
32	20	16	<b>721 200 141</b>	10	100	0.089	17	17	41	39	33
32	25	16	<b>721 200 138</b>	10	100	0.092	17	17	41	39	36
40	20	16	<b>721 200 155</b>	10	20	0.105	23	23	50	49	39
40	25	16	<b>721 200 151</b>	10	50	0.107	23	23	50	49	42
40	32	16	<b>721 200 147</b>	10	20	0.161	23	23	50	49	45
50	20	16	<b>721 200 009</b>	5	50	0.180	28	28	62	59	44
50	25	16	<b>721 200 010</b>	5	50	0.184	28	28	62	59	47
50	32	16	<b>721 200 164</b>	5	20	0.189	28	28	62	59	50
50	40	16	<b>721 200 161</b>	5	20	0.198	28	28	62	59	54
63	25	16	<b>721 200 011</b>	10	-	0.330	35	34	77	73	53
63	32	16	<b>721 200 178</b>	5	-	0.335	35	34	77	73	56
63	40	16	<b>721 200 174</b>	5	-	0.340	35	34	77	73	60
63	50	16	<b>721 200 170</b>	5	-	0.360	35	34	77	73	65
75	32	16	<b>721 200 181</b>	9	-	0.520	40	41	92	84	63
75	40	16	<b>721 200 182</b>	9	-	0.515	40	41	92	84	67
75	50	16	<b>721 200 183</b>	8	-	0.510	40	41	92	84	72
75	63	16	<b>721 200 184</b>	8	-	0.560	40	41	92	84	79
90	32	16	<b>721 200 142</b>	6	-	0.830	46	55	110	97	77
90	50	16	<b>721 200 144</b>	6	-	0.860	46	55	110	97	86
90	63	16	<b>721 200 145</b>	5	-	0.890	46	55	110	97	93
90	75	16	<b>721 200 146</b>	5	-	0.950	46	55	110	97	99
110	32	16	<b>721 200 135</b>	3	-	1.400	56	67	133	117	89
110	50	16	<b>721 200 136</b>	3	-	1.425	56	67	133	117	98
110	63	16	<b>721 200 132</b>	3	-	1.490	56	65	133	117	103
110	75	16	<b>721 200 133</b>	3	-	1.520	56	65	133	117	109
110	90	16	<b>721 200 137</b>	3	-	1.500	56	65	133	117	116
125	50	16	<b>721 200 139</b>	4	-	1.970	64	75	151	133	106
125	90	16	<b>721 200 140</b>	4	-	2.200	64	75	151	133	126
140	50	16	<b>721 200 148</b>	1	-	3.000	72	82	172	148	113
140	75	16	<b>721 200 149</b>	1	-	3.000	72	78	172	148	122
140	110	16	<b>721 200 150</b>	1	-	3.200	72	74	172	148	135
160	110	16	<b>721 200 152</b>	1	-	4.100	81	81	192	167	142
200	110	10	<b>721 200 153</b>	1	-	7.450	107	131	232	213	192
200	160	10	<b>721 200 154</b>	1	-	8.230	107	106	232	213	192
225	110	10	<b>721 200 156</b>	1	-	9.200	120	143	257	239	204
225	160	10	<b>721 200 157</b>	1	-	10.000	120	119	257	239	205
250	160	10	<b>721 200 159</b>	1	-	11.500	132	151	282	263	237
250	200	10	<b>721 200 162</b>	1	-	12.300	132	131	282	263	237
280	160	10	<b>721 200 165</b>	1	-	18.200	120	180	318	266	266
280	225	10	<b>721 200 167</b>	1	-	16.200	120	148	318	266	268
* 315	160	10	<b>721 200 169</b>	1	-	22.300	120	197	356	284	283
* 315	225	10	<b>721 200 172</b>	1	-	20.300	120	165	356	284	284
400	225	6	<b>721 200 176</b>	1	-	36.500	163	258	442	369	377
400	315	6	<b>721 200 180</b>	1	-	32.000	163	213	442	369	377

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## Tees 45°, PVC-U metric



d [mm]	d [inch]	PN	Code	SP	GP	kg	z [mm]	z1 [mm]	D [mm]	L [mm]	L1 [mm]
10		10	721 250 103	100	-	0.013	18	4	16	46	30
12		10	721 250 104	100	-	0.014	21	4	18	49	33
16		10	721 250 105	100	-	0.023	25	5	23	58	39
20		10	721 250 106	10	50	0.037	30	6	28	68	46
25		10	721 250 107	10	50	0.057	36	9	33	83	55
32		10	721 250 108	10	50	0.096	45	10	41	99	67
40		10	721 250 109	10	-	0.157	56	10	50	118	82
50		10	721 250 110	10	-	0.266	66	12	60	140	97
63		10	721 250 111	5	-	0.435	85	14	74	175	123
75	2 ½	6	721 250 112	5	-	0.810	101	18	91	207	145
90		6	721 250 113	1	-	1.290	122	20	107	245	173
110		6	721 250 114	3	-	2.540	149	27	134	298	210
125		6	721 250 115	2	-	3.605	167	30	147	335	236
140	5	6	721 250 116	1	-	3.800	190	34	168	376	266
160		6	721 250 117	1	-	6.600	213	41	190	428	300
200		6	721 250 119	1	-	11.650	265	48	232	527	372
225		6	721 250 120	1	-	15.800	296	54	260	590	416
250		6	721 250 121	1	-	20.350	330	60	286	654	462

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## Socket equal PVC-U metric

\* See comments regarding PN in +GF+ planning fundamentals

1 Socket d355 and d400 fabricated from pipe



d [mm]	d [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	L [mm]
6		16	721 910 101	10	1000	0.004	3	12	27
8		16	721 910 102	10	600	0.005	3	14	27
10		16	721 910 103	10	500	0.005	3	16	27
12		16	721 910 104	400	-	0.006	3	19	27
16		16	721 910 105	10	100	0.007	3	22	31
20		16	721 910 106	10	100	0.011	3	26	35
25		16	721 910 107	10	100	0.015	3	32	41
32		16	721 910 108	10	100	0.026	3	39	47
40		16	721 910 109	10	100	0.046	3	48	55
50		16	721 910 110	10	50	0.065	3	58	65
63		16	721 910 111	10	50	0.119	3	73	79
75	2 ½	16	721 910 112	10	-	0.191	4	87	92
90		16	721 910 113	10	-	0.328	5	105	107
110		16	721 910 114	5	-	0.560	6	128	128
125		16	721 910 115	4	-	0.740	7	142	145
140	5	16	721 910 116	2	-	1.200	7	162	159
160		16	721 910 117	1	-	1.542	8	183	180
200		10	721 910 119	4	-	2.031	9	221	221
225		10	721 910 120	2	-	3.790	10	253	248
250		10	721 910 121	1	-	5.600	16	284	284
280		10	721 910 122	1	-	6.680	16	321	314
* 315		10	721 910 123	1	-	8.300	16	356	348
1 355		6	721 910 124	-	-	8.000	68	377	454
1 400		6	721 910 125	-	-	8.300	73	425	505

52 91 01

## Socket equal PVC-U transparent metric



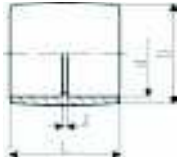
d [mm]	PN	Code	SP	GP	kg	z [mm]	D [mm]	L [mm]
16	16	752 910 105	10	350	0.009	3	23	31
20	16	752 910 106	10	240	0.012	3	27	35
25	16	752 910 107	10	150	0.021	3	32	41
32	16	752 910 108	10	80	0.028	3	40	47
40	16	752 910 109	10	100	0.057	3	52	55
50	16	752 910 110	10	60	0.069	3	60	65
63	16	752 910 111	5	10	0.138	3	75	79



21 91 31

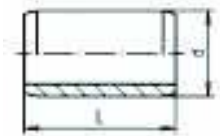
**Adaptor socket PVC-U metric Inch/BS****Model:**

- With solvent cement sockets metric and BS inch



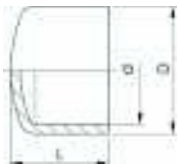
d [mm]	d [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	L [mm]
16	3/8	16	<b>721 913 105</b>	10	800	0.010	5	23	35
20	1/2	16	<b>721 913 106</b>	10	500	0.013	5	27	38
25	3/4	16	<b>721 913 107</b>	10	200	0.020	5	33	45
32	1	16	<b>721 913 108</b>	10	100	0.031	5	41	51
40	1 1/4	16	<b>721 913 109</b>	10	50	0.054	5	51	60
50	1 1/2	16	<b>721 913 110</b>	10	60	0.076	4	59	65
63	2	16	<b>721 913 111</b>	5	10	0.154	5	75	79
90	3	16	<b>721 913 113</b>	10	-	0.340	6	104	108
110	4	16	<b>721 913 115</b>	5	-	0.485	4	128	128

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**Barrel Nipples, PVC-U metric**

d [mm]	d [inch]	PN	Code	SP	GP	kg	L [mm]
16		16	<b>721 900 905</b>	-	-	0.002	28
20		16	<b>721 900 906</b>	-	-	0.004	32
25		16	<b>721 900 907</b>	-	-	0.008	38
32		16	<b>721 900 908</b>	-	-	0.015	44
40		16	<b>721 900 909</b>	-	-	0.027	52
50		16	<b>721 900 910</b>	-	-	0.050	62
63		16	<b>721 900 911</b>	-	-	0.098	76
75	2 1/2	16	<b>721 900 912</b>	-	-	0.160	88
90		16	<b>721 900 913</b>	-	-	0.266	102
110		16	<b>721 900 914</b>	-	-	0.476	122
125		16	<b>721 900 915</b>	-	-	0.691	138
140	5	16	<b>721 900 916</b>	-	-	0.953	152
160		16	<b>721 900 917</b>	-	-	1.569	192
200		10	<b>721 900 919</b>	-	-	1.804	212
225		10	<b>721 900 920</b>	-	-	2.570	238

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**Caps, PVC-U metric**

d [mm]	d [inch]	PN	Code	SP	GP	kg	D [mm]	L [mm]
12		16	<b>721 960 104</b>	10	500	0.004	19	15
16		16	<b>721 960 105</b>	10	100	0.006	23	21
20		16	<b>721 960 106</b>	10	100	0.009	27	24
25		16	<b>721 960 107</b>	10	100	0.014	33	28
32		16	<b>721 960 108</b>	10	100	0.021	40	32
40		16	<b>721 960 109</b>	10	100	0.031	47	38
50		16	<b>721 960 110</b>	10	100	0.052	59	45
63		16	<b>721 960 111</b>	5	50	0.092	74	56
75	2 1/2	16	<b>721 960 112</b>	5	50	0.152	87	65
90		16	<b>721 960 113</b>	5	-	0.270	105	77
110		16	<b>721 960 114</b>	1	12	0.460	128	94
140	5	10	<b>721 960 116</b>	10	-	0.880	164	92
160		10	<b>721 960 117</b>	2	-	1.490	188	130

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Reducing bush long PVC-U metric



d [mm]	d2 [mm]	PN	Code	SP	GP	kg	z [mm]	L [mm]
8	6	16	721 910 323	10	800	0.003	15	27
10	6	16	721 910 326	10	700	0.003	15	27
10	8	16	721 910 325	10	700	0.003	15	27
20	16	16	721 910 334	10	320	0.010	21	35
25	20	16	721 910 337	10	220	0.015	25	41
32	25	16	721 910 341	10	120	0.025	30	49
40	32	16	721 910 346	10	100	0.044	36	58
50	40	16	721 910 352	10	50	0.075	44	70
63	50	16	721 910 358	5	50	0.146	54	85
75	63	16	721 910 364	5	50	0.220	62	100
90	75	16	721 910 370	5	-	0.335	74	118
140	110	16	721 910 385	2	-	0.814	111	172

21 91 09

PRO-FIT Reducing Bushes, PVC-U metric



Model:

- Outlet: A and B = Solvent cemented spigot in combination with reducing socket metric

d [mm]	d1 [mm]	d2 [mm]	d3 [mm]	PN	Code	SP	GP	kg	z [mm]	z1 [mm]	z2 [mm]	L [mm]
10	14	8	12	16	721 910 903	10	700	0.003	15	15	3	27
12	16	8	12	16	721 910 905	10	100	0.003	18	18	6	30
12	16	10	16	16	721 910 906	10	600	0.006	18	18	6	30
16	20	10	16	16	721 910 908	10	500	0.005	21	19	7	33
16	20	12	16	16	721 910 909	10	400	0.005	21	19	7	33
20	25	12	16	16	721 910 910	10	300	0.008	25	21	9	37
20	25	16	20	16	721 910 911	10	100	0.008	25	23	9	39
25	32	12	16	16	721 910 912	10	100	0.014	30	23	11	42
25	32	16	20	16	721 910 913	10	100	0.015	30	26	12	44
25	32	20	25	16	721 910 914	10	100	0.017	30	27	11	46
32	40	16	20	16	721 910 915	100	-	0.025	36	28	14	50
32	40	20	25	16	721 910 916	10	100	0.027	36	30	14	52
32	40	25	32	16	721 910 917	10	100	0.032	36	33	14	55
40	50	20	25	16	721 910 918	10	100	0.046	44	34	18	60
40	50	25	32	16	721 910 919	10	100	0.052	44	37	18	63
40	50	32	40	16	721 910 920	10	100	0.059	44	40	18	66
50	63	25	32	16	721 910 921	5	50	0.092	54	42	23	73
50	63	32	40	16	721 910 922	5	50	0.099	54	45	23	76
50	63	40	50	16	721 910 923	5	50	0.112	54	49	23	80
63	75	32	40	16	721 910 924	5	50	0.128	62	46	24	84
63	75	40	50	16	721 910 925	5	50	0.139	62	50	24	88
63	75	50	63	16	721 910 926	5	50	0.169	62	55	24	93
75	90	40	50	16	721 910 927	10	-	0.232	74	56	30	100
75	90	50	63	16	721 910 928	10	-	0.260	74	61	30	105
75	90	63	75	16	721 910 929	10	-	0.275	74	68	30	112

21 90 03

**Reducing bush short PVC-U metric****Model:**

- With solvent cement spigot and socket metric

\* See comments regarding PN in +GF+ planning fundamentals



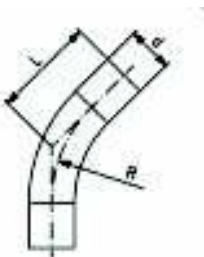
d [mm]	d1 [mm]	PN	Code	SP	GP	kg	z [mm]	L [mm]
* 12	8	16	<b>721 900 329</b>	10	1200	0.002	2	14
* 16	12	16	<b>721 900 331</b>	10	1000	0.002	2	14
* 20	16	16	<b>721 900 334</b>	10	500	0.003	2	16
* 25	20	16	<b>721 900 337</b>	10	450	0.005	3	19
* 32	20	16	<b>721 900 342</b>	10	100	0.014	6	22
* 32	25	16	<b>721 900 341</b>	10	100	0.009	3	22
40	20	16	<b>721 900 348</b>	10	100	0.021	10	26
40	25	16	<b>721 900 347</b>	10	100	0.021	7	26
* 40	32	16	<b>721 900 346</b>	10	100	0.016	4	26
50	20	16	<b>721 900 355</b>	10	100	0.033	15	31
50	25	16	<b>721 900 354</b>	10	100	0.034	12	31
50	32	16	<b>721 900 353</b>	10	100	0.037	9	31
* 50	40	16	<b>721 900 352</b>	100	-	0.030	5	31
63	32	16	<b>721 900 360</b>	10	100	0.061	16	38
63	40	16	<b>721 900 359</b>	10	100	0.068	12	38
* 63	50	16	<b>721 900 358</b>	10	100	0.058	7	38
75	50	16	<b>721 900 365</b>	10	50	0.106	13	44
* 75	63	16	<b>721 900 364</b>	10	50	0.077	6	44
90	50	16	<b>721 900 372</b>	10	-	0.179	20	51
90	63	16	<b>721 900 371</b>	10	-	0.183	13	51
* 90	75	16	<b>721 900 370</b>	10	-	0.136	7	51
110	50	16	<b>721 900 379</b>	5	-	0.309	30	61
110	63	16	<b>721 900 378</b>	5	-	0.313	23	61
110	75	16	<b>721 900 377</b>	20	-	0.255	17	61
* 110	90	16	<b>721 900 376</b>	5	-	0.259	10	61
125	90	16	<b>721 900 381</b>	5	-	0.442	18	69
* 125	110	16	<b>721 900 380</b>	5	-	0.266	8	69
140	90	16	<b>721 900 386</b>	5	-	0.560	25	76
* 140	110	16	<b>721 900 385</b>	5	-	0.599	15	76
* 140	125	16	<b>721 900 384</b>	5	-	0.420	7	76
160	90	16	<b>721 900 391</b>	5	-	0.750	35	86
160	110	16	<b>721 900 390</b>	5	-	0.868	25	86
* 160	140	16	<b>721 900 388</b>	5	-	0.547	10	86
200	110	10	<b>721 900 393</b>	3	-	1.900	45	106
200	125	10	<b>721 900 325</b>	3	-	1.940	37	106
200	140	10	<b>721 900 394</b>	3	-	1.850	30	106
200	160	10	<b>721 900 392</b>	2	-	1.070	20	106
225	110	10	<b>721 900 397</b>	4	-	2.450	58	119
225	125	10	<b>721 900 399</b>	4	-	2.500	50	119
225	140	10	<b>721 900 398</b>	4	-	2.500	43	119
225	160	10	<b>721 900 396</b>	2	-	2.200	33	119
* 225	200	10	<b>721 900 181</b>	4	-	1.360	13	119
250	125	10	<b>721 900 326</b>	4	-	3.150	62	131
250	140	10	<b>721 900 300</b>	4	-	3.200	55	131
250	160	10	<b>721 900 301</b>	4	-	3.080	45	131
* 250	200	10	<b>721 900 302</b>	4	-	3.150	25	131
* 250	225	10	<b>721 900 303</b>	4	-	1.700	12	131
280	140	10	<b>721 900 307</b>	1	-	4.000	69	148
280	160	10	<b>721 900 308</b>	1	-	4.100	59	148
280	200	10	<b>721 900 304</b>	1	-	4.250	40	146
* 280	225	10	<b>721 900 305</b>	1	-	4.300	27	146
* 280	250	10	<b>721 900 306</b>	1	-	2.500	15	146
315	160	10	<b>721 900 313</b>	1	-	2.050	77	166
315	200	10	<b>721 900 309</b>	1	-	5.300	57	166
315	225	10	<b>721 900 310</b>	1	-	5.500	45	164
* 315	250	10	<b>721 900 311</b>	1	-	6.300	33	164
* 315	280	10	<b>721 900 312</b>	1	-	3.550	17	164
355	315	6	<b>721 900 315</b>	1	-	5.300	20	184
400	250	6	<b>721 900 319</b>	1	-	9.000	75	206
400	280	6	<b>721 900 320</b>	1	-	9.200	60	206
400	315	6	<b>721 900 321</b>	1	-	13.100	42	206
* 400	355	6	<b>721 900 322</b>	1	-	7.600	22	206

## Fittings Inch BS

21 15 11

### Long radius bend 45° PVC-U Inch BS

Other angles and sizes are available on request

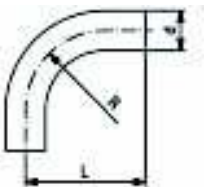


d [inch]	PN	Code	kg	R [mm]	L [mm]
½	15	721 151 176	0.175	51	50
¾	15	721 151 177	0.321	76	63
1	15	721 151 178	0.508	102	75
1 ¼	15	721 151 179	0.103	127	100
1 ½	15	721 151 180	0.152	152	112
2	15	721 151 181	0.328	203	150
2 ½	15	721 151 182	1.444	255	200
3	15	721 151 183	1.125	305	238
4	15	721 151 184	2.202	406	301
6	15	721 151 185	10.260	610	451

21 00 16

### Long radius bend 90° PVC-U Inch BS

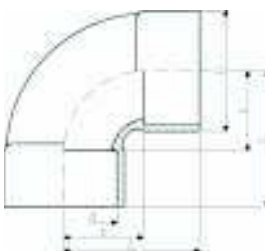
Other angles and sizes are available on request



d [inch]	PN	Code	kg	R [mm]	L [mm]
½	15	721 001 656	0.029	51	71
¾	15	721 001 657	0.046	76	108
1	15	721 001 658	0.073	102	133
1 ¼	15	721 001 659	0.143	127	170
1 ½	15	721 001 660	0.220	152	201
2	15	721 001 661	0.480	203	272
2 ½	15	721 001 662	1.444	255	340
3	15	721 001 663	1.500	305	402
4	15	721 001 664	3.146	406	544
6	15	721 001 665	12.825	610	817

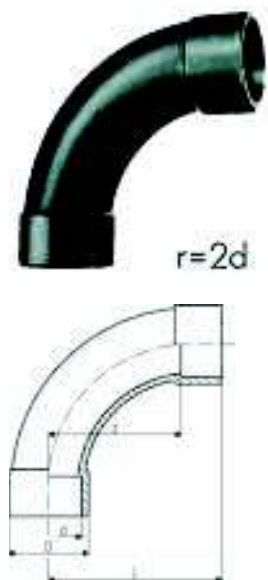
21 01 11

### Bend 90° short pattern PVC-U Inch BS



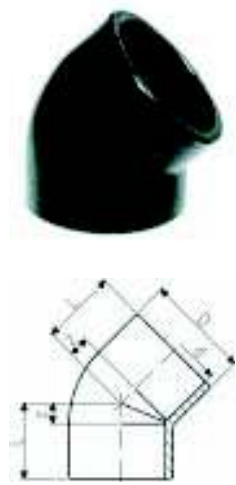
d [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	L [mm]
8	9	721 011 120	1	1	9.275	168	256	287

21 00 11

**Bend 90° PVC-U Inch BS**

d [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	L [mm]
1/2	15	721 001 106	10	100	0.036	40	29	58
3/4	15	721 001 107	10	40	0.063	50	35	71
1	15	721 001 108	10	40	0.070	64	43	88
1 1/4	15	721 001 109	5	-	0.195	80	54	109
1 1/2	15	721 001 110	5	-	0.289	100	64	131
2	15	721 001 111	5	-	0.528	126	76	163
2 1/2	16	721 000 112	5	-	0.786	150	90	194
3	15	721 001 113	5	-	1.780	180	113	231
4	15	721 001 115	2	-	2.730	220	137	284
5	16	721 000 116	2	-	5.100	280	168	356
6	15	721 001 117	1	-	7.700	320	201	411

21 15 11

**Elbow 45° PVC-U Inch BS**

d [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	L [mm]
3/8	15	721 151 105	10	260	0.008	4	23	20
1/2	15	721 151 106	10	150	0.015	7	28	24
3/4	15	721 151 107	10	90	0.026	8	33	29
1	15	721 151 108	10	100	0.046	10	41	33
1 1/4	15	721 151 109	10	30	0.068	11	51	40
1 1/2	15	721 151 110	5	45	0.066	11	57	41
2	15	721 151 111	5	50	0.136	15	72	51
2 1/2	16	721 150 112	5	-	0.250	17	87	61
3	15	721 151 113	5	-	0.612	21	105	71
4	15	721 151 115	10	-	0.951	26	135	89
5	16	721 150 116	1	-	1.639	32	162	108
6	15	721 151 117	2	-	2.520	38	198	129
8	9	721 151 120	1	-	5.800	49	205	168

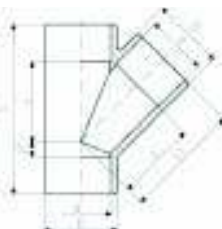
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**Elbow 90° PVC-U Inch BS**

d [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	L [mm]
3/8	15	721 101 105	10	220	0.014	10	24	25
1/2	15	721 101 106	10	100	0.018	13	27	30
3/4	15	721 101 107	10	60	0.026	14	33	34
1	15	721 101 108	10	100	0.042	17	40	39
1 1/4	15	721 101 109	10	50	0.081	22	51	49
1 1/2	15	721 101 110	10	50	0.122	26	58	56
2	15	721 101 111	1	10	0.247	32	72	68
2 1/2	16	721 100 112	5	-	0.329	40	87	83
3	15	721 101 113	5	-	0.602	46	107	97
4	15	721 101 115	6	-	1.190	59	137	122
5	16	721 100 116	4	-	2.340	70	162	146
6	15	721 101 117	1	1	4.530	86	201	176

21 25 11

**Tee 45° PVC-U Inch BS**



d [inch]	PN	Code	SP	GP	kg	z [mm]	z1 [mm]	D [mm]	L [mm]	L1 [mm]
½	9	721 251 106	10	50	0.035	30	6	28	68	46
¾	9	721 251 107	10	50	0.052	35	8	33	83	55
1	9	721 251 108	10	50	0.091	43	8	41	99	67
1 ¼	9	721 251 109	10	-	0.163	55	9	50	118	82
1 ½	9	721 251 110	10	-	0.276	67	13	60	140	97
2	9	721 251 111	10	-	0.500	87	16	74	175	123
2 ½	6	721 250 112	5	-	0.810	101	18	91	207	145
3	6	721 251 113	1	-	1.246	122	20	107	245	173
4	6	721 251 115	3	-	2.380	147	25	134	298	210
5	6	721 250 116	1	-	3.800	190	34	168	376	266

21 20 11

**Tee 90° equal PVC-U Inch BS**



d [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	L [mm]
¾	15	721 201 105	10	100	0.018	10	25	25
½	15	721 201 106	10	100	0.025	13	30	30
¾	15	721 201 107	10	50	0.051	16	35	37
1	15	721 201 108	10	100	0.080	19	43	43
1 ¼	15	721 201 109	10	30	0.086	22	50	51
1 ½	15	721 201 110	5	50	0.126	26	57	56
2	15	721 201 111	5	-	0.293	32	72	68
2 ½	16	721 200 112	5	-	0.473	39	87	83
3	15	721 201 113	5	-	0.843	46	107	97
4	15	721 201 115	8	-	1.879	59	138	122
5	16	721 200 116	1	1	3.546	71	169	147
6	15	721 201 117	1	1	5.800	86	202	176
8	9	721 201 120	1	-	9.100	114	256	233

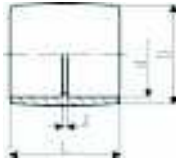
21 30 11

**Cross PVC-U Inch BS**



d [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	L [mm]
¾	12	721 301 107	10	40	0.050	14	36	33
1	12	721 301 108	10	50	0.100	17	44	39
1 ¼	12	721 301 109	5	50	0.150	22	53	49
1 ½	12	721 301 110	5	-	0.300	30	64	60
2	12	721 301 111	5	-	0.560	37	80	74
2 ½	10	721 300 112	3	-	0.660	40	92	83

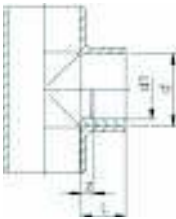
21 91 11



## Socket equal PVC-U Inch BS

d [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	L [mm]
3/8	15	721 911 105	10	350	0.007	3	23	32
1/2	15	721 911 106	10	150	0.011	3	27	36
3/4	15	721 911 107	10	100	0.016	3	33	45
1	15	721 911 108	10	100	0.028	3	41	51
1 1/4	15	721 911 109	10	50	0.048	3	51	57
1 1/2	15	721 911 110	10	50	0.089	3	58	63
2	15	721 911 111	5	50	0.126	3	72	77
2 1/2	16	721 910 112	10	-	0.191	4	87	92
3	15	721 911 113	10	-	0.350	7	104	107
4	15	721 911 115	15	-	0.600	8	134	135
5	16	721 910 116	2	-	1.200	7	162	159
6	15	721 911 117	2	-	1.800	11	197	192
8	9	721 911 120	1	1	4.140	10	253	248

21 91 13



## Reducing bush short pattern PVC-U Inch BS

d [inch]	d1 [inch]	PN	Code	SP	GP	kg	z [mm]	L [mm]
* 1/2	3/8	15	721 901 334	10	500	0.004	2	18
* 3/4	3/8	15	721 901 338	10	400	0.013	5	21
* 3/4	1/2	15	721 901 337	10	400	0.005	3	21
1	3/8	15	721 901 343	10	100	0.013	8	24
* 1	1/2	15	721 901 342	10	250	0.015	6	24
* 1	3/4	15	721 901 341	10	240	0.009	3	24
1 1/4	3/8	15	721 901 349	10	240	0.024	13	29
1 1/4	1/2	15	721 901 348	10	100	0.024	11	29
1 1/4	3/4	15	721 901 347	10	100	0.022	8	29
* 1 1/4	1	15	721 901 346	10	100	0.018	5	29
1 1/2	1/2	15	721 901 355	10	100	0.045	13	30
1 1/2	3/4	15	721 901 354	10	100	0.037	10	30
* 1 1/2	1	15	721 901 353	10	100	0.036	6	30
* 1 1/2	1 1/4	15	721 901 352	10	100	0.014	2	30
2	3/4	15	721 901 361	10	100	0.066	16	37
2	1	15	721 901 360	10	100	0.064	13	37
* 2	1 1/4	15	721 901 359	10	100	0.070	8	37
* 2	1 1/2	15	721 901 358	10	100	0.052	6	37
* 2 1/2	2	15	721 901 364	10	50	0.100	8	45
3	1	15	721 901 374	10	-	0.183	3	50
3	1 1/2	15	721 901 372	10	-	0.175	3	50
3	2	15	721 901 371	10	-	0.220	3	50
* 3	2 1/2	15	721 901 370	10	-	0.126	6	51
* 4	3	15	721 901 381	20	-	0.262	13	64
* 5	4	15	721 901 384	12	-	0.734	13	76
* 6	5	15	721 901 388	5	-	0.850	15	91
8	6	9	721 901 396	2	-	1.780	33	119

21 91 13



## Reducing bush long pattern PVC-U Inch BS

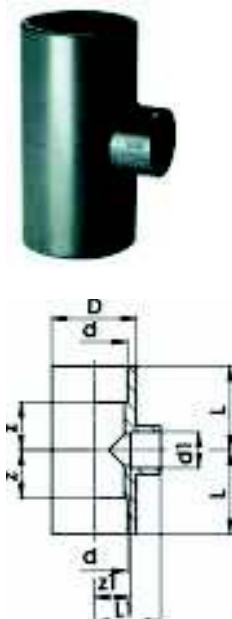
d [inch]	d1 [inch]	PN	Code	SP	GP	kg	z [mm]	L [mm]
5	3	15	721 911 386	10	-	0.730	111	162
6	4	15	721 911 389	6	-	1.300	133	197

21 96 11

**Cap PVC-U Inch BS**

d [inch]	PN	Code	SP	GP	kg	D [mm]	L [mm]
3/8	15	721 961 105	10	560	0.006	26	23
1/2	15	721 961 106	10	250	0.009	30	25
3/4	15	721 961 107	10	200	0.016	37	30
1	15	721 961 108	10	100	0.026	44	34
1 1/4	15	721 961 109	10	100	0.039	55	41
1 1/2	15	721 961 110	80	100	0.071	62	44
2	15	721 961 111	10	100	0.146	78	54
2 1/2	16	721 960 112	5	50	0.152	87	65
3	15	721 961 113	10	-	0.350	112	77
4	15	721 962 115	5	-	0.800	145	101
5	10	721 960 116	10	-	0.880	164	92

21 20 11

**Tee 90° reducing Inch BS**

d-d [inch]	PN	Code	SP	GP	kg	z [mm]	z1 [mm]	D [mm]	L [mm]	L1 [mm]
3/4 - 1/2	15	721 201 134	10	100	0.034	14	14	33	33	30
1 - 1/2	15	721 201 141	10	100	0.056	17	17	41	39	33
1 - 3/4	15	721 201 138	10	100	0.058	17	17	41	39	36
1 1/4 - 3/4	15	721 201 151	-	-	0.132	22	22	50	49	42
1 1/4 - 1	15	721 201 147	-	-	0.128	29	28	62	59	44
1 1/2 - 1/2	15	721 201 009	5	60	0.206	29	28	62	59	50
1 1/2 - 3/4	15	721 201 010	-	-	0.185	37	34	77	73	53
1 1/2 - 1	15	721 201 164	20	-	0.211	37	34	77	73	56
2 - 3/4	15	721 201 011	10	-	0.330	37	32	77	73	53
2 - 1	15	721 201 178	5	-	0.335	37	32	77	73	56
2 - 1 1/2	15	721 201 170	-	-	0.511	38	32	73	68	68
4 - 3	15	721 201 137	-	-	1.990	72	59	138	122	122
	16	721 200 149	1	-	3.000	72	78	172	148	122

**Barrel nipple PVC-U Inch BS****Model:**

- With solvent cement spigots on both sides
- For the shortest possible distance between fittings
- Overall length L = 2 x socket length

d [inch]	PN	Code	SP	GP	kg	L [mm]
3/8	16	721 901 905	-	-	0.002	29
1/2	16	721 901 906	-	-	0.004	33
3/4	16	721 901 907	-	-	0.008	39
1	16	721 901 908	-	-	0.015	45
1 1/4	16	721 901 909	-	-	0.027	54
1 1/2	16	721 901 910	-	-	0.050	60
2	16	721 901 911	-	-	0.098	72
2 1/2	16	721 900 912	-	-	0.160	88
3	16	721 901 913	-	-	0.226	101
4	16	721 901 914	-	-	0.476	126
5	16	721 900 916	-	-	0.953	152





## Barrel nipple PVC-U Inch BS

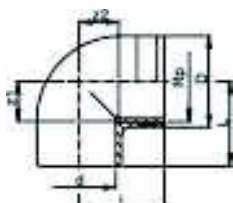
### Model:

- For the shortest possible distance between fittings
- Overall length L = 2 x socket length
- With solvent cement spigots on both sides

d [inch]	PN [bar]	Code	SP	GP	kg	L [mm]
3/8	10	<b>721 911 505</b>	-	-	0.010	28
1/2	10	<b>721 911 506</b>	-	-	0.012	32
3/4	10	<b>721 911 507</b>	-	-	0.023	38
1	10	<b>721 911 508</b>	-	-	0.135	44
1 1/4	10	<b>721 911 509</b>	-	-	0.040	52
1 1/2	10	<b>721 911 510</b>	-	-	0.060	62
2	10	<b>721 911 511</b>	-	-	0.120	76
3	10	<b>721 911 513</b>	-	-	0.300	102
4	10	<b>721 911 515</b>	-	-	0.560	122

## Adaptor fittings metric

21 10 02



### Elbow 90° PVC-U metric Rp

**Model:**

- With solvent cement socket metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

\* without reinforcement, connection for plastic threads only

d [mm]	Rp [inch]	PN	Code	SP	GP	kg	z1 [mm]	z2 [mm]	D [mm]	L [mm]
12	1/4	16	721 100 204	10	100	0.011	7	7	20	19
16	3/8	16	721 100 205	10	100	0.015	9	9	25	23
20	1/2	16	721 100 206	10	100	0.025	13	11	30	27
25	3/4	16	721 100 207	10	80	0.034	16	15	35	33
32	1	16	721 100 208	10	40	0.060	19	19	45	39
40	1 1/4	16	721 100 209	10	100	0.123	23	27	55	50
50	1 1/2	16	721 100 210	5	30	0.185	27	36	62	58
63	2	16	721 100 211	10	-	0.326	33	46	75	73
* 75	2 1/2	10	721 100 212	5	-	0.438	40	56	90	84
* 90	3	10	721 100 213	5	-	0.800	48	68	108	99
* 110	4	10	721 100 214	1	-	1.245	58	82	132	119

21 20 02



### Tee 90° PVC-U metric Rp

**Model:**

- With solvent cement socket metric, branch with parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

\* without reinforcement, connection for plastic threads only

d [mm]	Rp [inch]	PN	Code	SP	GP	kg	z1 [mm]	z2 [mm]	D [mm]	D1 [mm]	L [mm]
12	1/4	16	721 200 204	10	280	0.015	7	7	17	20	19
16	3/8	16	721 200 205	10	100	0.027	9	9	21	25	23
20	1/2	16	721 200 206	10	100	0.025	11	13	26	30	29
25	3/4	16	721 200 207	10	100	0.039	14	15	32	35	33
32	1	16	721 200 208	10	30	0.071	17	19	40	45	39
40	1 1/4	16	721 200 209	10	50	0.140	23	26	47	55	49
50	1 1/2	16	721 200 210	5	10	0.190	27	36	59	59	59
63	2	16	721 200 211	5	-	0.360	33	46	74	75	71
* 75	2 1/2	10	721 200 212	5	-	0.609	40	56	92	92	84
* 90	3	10	721 200 213	5	-	1.076	48	68	110	110	99
* 110	4	10	721 200 214	1	1	1.686	58	82	133	132	119

21 91 02



### Adaptor socket PVC-U metric Rp

**Model:**

- With solvent cement socket metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

d [mm]	Rp [inch]	PN	Code	SP	GP	kg	z [mm]	L [mm]	s [mm]
12	1/4	16	721 910 204	10	100	0.010	4	27	22
16	3/8	16	721 910 205	10	100	0.017	5	31	27
20	1/2	16	721 910 206	10	100	0.025	5	36	32
25	3/4	16	721 910 207	10	100	0.032	5	40	36
32	1	16	721 910 208	10	100	0.070	5	45	46
40	1 1/4	16	721 910 209	10	50	0.085	5	51	55
50	1 1/2	16	721 910 210	10	50	0.125	7	59	65
63	2	16	721 910 211	5	50	0.170	7	69	80

21 91 60



## Adaptor socket PVC-U metric Rp

### Model:

- With solvent cement socket metric and parallel female thread Rp
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

d [mm]	Rp [inch]	PN	Code	SP	GP	kg	z [mm]	L [mm]	s [mm]
75	2 ½	10	<b>721 916 012</b>	10	-	0.223	7	82	90
90	3	10	<b>721 916 013</b>	5	-	0.374	9	94	110
110	4	10	<b>721 916 014</b>	5	-	0.542	9	110	130

21 91 42



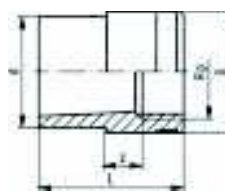
## Adaptor socket PVC-U metric NPT

### Model:

- With solvent cement socket metric and NPT (ASTM) taper female thread
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

d [mm]	NPT [inch]	PN	Code	SP	GP	kg	z [mm]	L [mm]	s [mm]
20	½	10	<b>721 914 206</b>	10	100	0.022	5	35	32
25	¾	10	<b>721 914 207</b>	10	100	0.027	6	40	36
32	1	10	<b>721 914 208</b>	10	100	0.050	6	45	46
40	1 ¼	10	<b>721 914 209</b>	10	100	0.075	6	51	55
50	1 ½	10	<b>721 914 210</b>	10	50	0.109	10	59	65
63	2	10	<b>721 914 211</b>	5	50	0.176	10	69	80
75	2 ½	10	<b>721 914 212</b>	10	-	0.247	11	82	90
90	3	10	<b>721 914 213</b>	5	-	0.381	14	94	110
110	4	10	<b>721 914 214</b>	5	-	0.557	18	110	130

21 91 04



## Reducing bush PVC-U metric Rp

### Model:

- With solvent cement spigot metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

d [mm]	Rp [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	L [mm]	s [mm]
* 12	¼	16	<b>721 910 404</b>	10	250	0.007	17	20	27	22
20	¾	16	<b>721 910 434</b>	10	100	0.014	24	25	35	15
25	½	16	<b>721 910 437</b>	10	100	0.021	27	30	41	21
32	¾	16	<b>721 910 441</b>	10	100	0.032	32	35	48	33
40	1	16	<b>721 910 446</b>	10	100	0.060	38	45	56	60
50	1 ¼	16	<b>721 910 452</b>	10	60	0.097	46	55	66	99
63	1 ½	16	<b>721 910 458</b>	5	45	0.148	57	62	77	150

21 90 04

**Adaptor bush equal PVC-U metric Rp****Model:**

- With solvent cement spigot metric and parallel female thread Rp
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

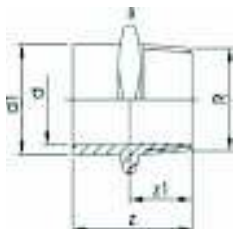


d [mm]	Rp [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	L [mm]
20	3/8	10	721 900 406	10	100	0.012	22	28	37
25	1/4	10	721 900 407	10	100	0.020	25	34	41
32	1	10	721 900 408	10	100	0.037	29	42	48
40	1 1/4	10	721 900 409	10	100	0.063	34	52	56
50	1 1/2	10	721 900 410	10	100	0.102	40	62	61
63	2	10	721 900 411	5	50	0.178	49	77	74

21 91 05

**Adaptor socket nipple PVC-U metric R****Model:**

- With solvent cement spigot/socket reducing metric and taper male thread R
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes



d [mm]	d1 [mm]	R [inch]	PN	Code	SP	GP	kg	z [mm]	z1 [mm]	s [mm]
12	16	3/8	16	721 910 555	10	100	0.011	35	23	27
16	20	1/2	16	721 910 556	10	100	0.019	42	28	32
20	25	3/4	16	721 910 557	10	100	0.025	47	31	36
25	32	1	16	721 910 558	10	100	0.040	54	35	46
32	40	1 1/4	16	721 910 559	10	100	0.062	60	38	55
40	50	1 1/2	16	721 910 560	10	50	0.093	66	40	65
50	63	2	16	721 910 561	5	60	0.165	78	47	80

21 91 07

**Adaptor bush equal PVC-U metric R****Model:**

- With solvent cement socket metric and taper male thread R
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes



d [mm]	R [inch]	PN	Code	SP	GP	kg	z [mm]	L [mm]	s [mm]
16	3/8	16	721 910 705	10	100	0.012	20	34	27
20	1/2	16	721 910 706	10	100	0.018	24	40	32
25	3/4	16	721 910 707	10	100	0.024	25	44	36
32	1	16	721 910 708	10	100	0.039	28	50	46
40	1 1/4	16	721 910 709	10	100	0.063	31	57	55
50	1 1/2	16	721 910 710	10	100	0.088	32	63	65
63	2	16	721 910 711	5	50	0.158	38	76	80
75	2 1/2	10	721 910 712	5	-	0.223	42	86	90
90	3	10	721 910 713	5	-	0.355	46	97	110
110	4	10	721 910 714	5	-	0.572	53	114	130

21 91 35

**Adaptor nipple PVC-U metric R****Model:**

- With solvent cement spigot metric and taper male thread R
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes



d [mm]	R [inch]	PN	Code	SP	GP	kg	z [mm]
16	3/8	10	721 913 505	10	100	0.006	31
20	1/2	10	721 913 506	10	100	0.010	35
25	3/4	10	721 913 507	10	100	0.015	40
32	1	10	721 913 508	10	100	0.027	46

## 20 91 07

### Adaptor socket brass/PVC-U metric R

**Model:**

- Brass with taper male thread R and PVC-U solvent cement socket insert, metric
- Install with low mechanical stress and avoid large cyclic temperature changes



d [mm]	R [inch]	PN	Code	SP	GP	kg	z [mm]	L [mm]	s [mm]
20	1/2	16	720 910 706	-	-	0.159	27	45	36
25	3/4	16	720 910 707	-	-	0.193	28	49	40
32	1	16	720 910 708	-	-	0.305	33	57	48
40	1 1/4	16	720 910 709	-	-	0.300	36	64	58
50	1 1/2	16	720 910 710	-	-	0.680	38	72	70
63	2	16	720 910 711	-	-	0.960	43	84	85

## 20 91 02

### Adaptor socket brass/PVC-U metric Rp

**Model:**

- Brass with parallel female thread Rp and PVC-U solvent cement socket insert, metric
- Install with low mechanical stress and avoid large cyclic temperature changes



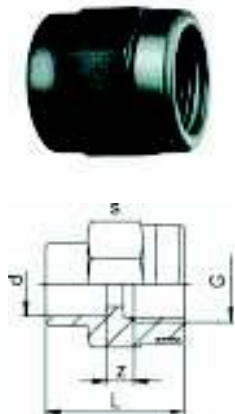
d [mm]	Rp [inch]	PN	Code	SP	GP	kg	z [mm]	L [mm]	s [mm]
20	1/2	16	720 910 206	-	-	0.162	14	46	36
25	3/4	16	720 910 207	-	-	0.204	14	50	40
32	1	16	720 910 208	-	-	0.323	16	58	48
40	1 1/4	16	720 910 209	-	-	0.489	17	66	58
50	1 1/2	16	720 910 210	-	-	0.767	19	74	70
63	2	16	720 910 211	-	-	1.102	19	86	83

## 21 91 62

### Manometer adaptor sockets PVC-U metric G

**Model:**

- With solvent cement socket metric and female thread G
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes



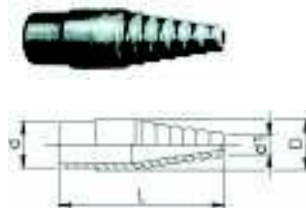
d [mm]	G [inch]	PN	Code	SP	GP	kg	z [mm]	L [mm]	s [mm]
12	1/4	16	721 916 204	10	100	0.010	4	27	22
16	1/2	16	721 916 206	10	100	0.028	7	36	32

## 21 96 03

### Hose connector PVC-U metric

**Model:**

- With solvent cement spigot metric and tapered hose connection



d [mm]	PN	Code	SP	GP	kg	d1 [mm]	D [mm]	L [mm]
10	16	721 960 303	10	650	0.004	6	12	51
12	16	721 960 304	10	650	0.004	6	12	51
16	16	721 960 305	10	400	0.007	8	16	57
20	16	721 960 306	10	230	0.016	11	22	73

21 96 04



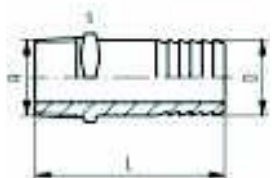
## Hose connector PVC-U metric

### Model:

- With solvent cement spigot metric and parallel hose connection

d [mm]	PN	Code	SP	GP	kg	D [mm]	L [mm]
10	16	<b>721 960 403</b>	10	750	0.002	8	47
12	16	<b>721 960 404</b>	10	600	0.004	12	51
16	16	<b>721 960 405</b>	10	350	0.009	16	57
20	16	<b>721 960 406</b>	10	100	0.015	20	73
25	16	<b>721 960 407</b>	10	100	0.021	25	79
32	16	<b>721 960 408</b>	10	100	0.036	30	89
40	16	<b>721 960 409</b>	5	50	0.061	40	100
50	16	<b>721 960 410</b>	5	50	0.111	50	105
63	16	<b>721 960 411</b>	5	50	0.178	60	120

21 96 07



## Hose connector PVC-U R

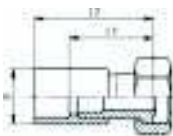
### Model:

- With taper male thread R
- With parallel hose connector
- Do not use thread sealing pastes that are harmful to PVC-U

R [inch]	PN	Code	SP	GP	kg	D [mm]	L [mm]	s [mm]
1/4	10	<b>721 960 704</b>	10	500	0.005	12	59	14
3/8	10	<b>721 960 705</b>	10	280	0.011	16	67	19
1/2	10	<b>721 960 706</b>	10	100	0.020	20	86	22
3/4	10	<b>721 960 707</b>	10	100	0.028	25	92	27
1	10	<b>721 960 708</b>	5	50	0.048	30	103	36
1 1/4	10	<b>721 960 709</b>	5	50	0.078	40	115	46

## Adaptor fittings Inch BS

21 55 14



### Tap connector PVC-U Inch BS Rp

**Model:**

- With solvent cement socket BS Inch and brass parallel female thread Rp

d [inch]	Rp [inch]	Code Code	SP	GP	kg	D [mm]	I1 [mm]	I2 [mm]	s [mm]
3/8	1/2	721 551 405	-	-	0.040	23	39	55	24
1/2	3/4	721 551 406	-	-	0.042	27	43	60	31

21 10 12

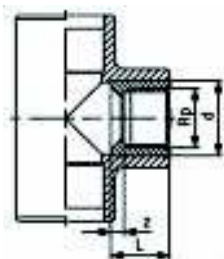


### Elbow 90° PVC-U Inch BS Rp

**Model:**

- With solvent cement socket BS Inch and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

d [inch]	Rp [inch]	PN	Code	SP	GP	kg	z1 [mm]	z2 [mm]	D [mm]	L [mm]
1/2	1/2	15	721 101 206	150	-	0.022	10	15	30	27
3/4	3/4	15	721 101 207	100	-	0.033	13	19	35	33
1	1	15	721 101 208	40	-	0.058	16	24	45	39



### Reducing bush short PVC-U Inch BS Rp

**Model:**

- With solvent cement spigot BS and parallel female thread Rp
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

d [inch]	Rp [inch]	PN	Code Code	SP	GP	kg	z [mm]	L [mm]
1/2	3/8	15	721 901 534	-	-	0.005	3	18
3/4	1/2	15	721 901 537	-	-	0.011	5	21
1	3/4	15	721 901 541	10	100	0.011	4	24
1	1/2	15	721 901 542	-	-	0.020	8	24

21 20 12

## Tee 90° PVC-U Inch BS Rp



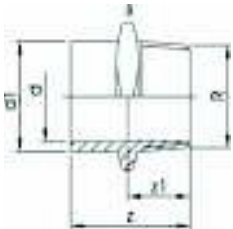
**Model:**

- With solvent cement socket BS Inch and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

d [inch]	Rp [inch]	PN	Code	SP	GP	kg	z1 [mm]	z2 [mm]	D [mm]	D1 [mm]	L [mm]
3/8	3/8	16	721 201 205	10	100	0.028	10	14	25	25	26
1/2	1/2	16	721 201 206	10	100	0.043	10	13	30	26	29
3/4	3/4	16	721 201 207	10	100	0.060	13	15	35	32	33
1	1	16	721 201 208	60	-	0.111	17	19	45	40	39

21 91 15

## Adaptor socket nipple PVC-U Inch BS R



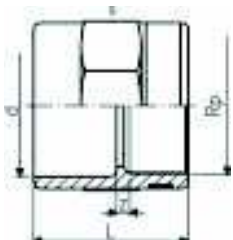
**Model:**

- With solvent cement spigot/reducing socket and taper male thread R
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

d [inch]	d1 [inch]	R [inch]	PN	Code Code	SP	GP	kg	z [mm]	z1 [mm]	s [mm]
1/4	3/8	3/8	15	721 911 555	-	-	0.011	36	21	27
3/8	1/2	1/2	15	721 911 556	-	-	0.020	43	28	32
1/2	3/4	3/4	15	721 911 557	-	-	0.019	48	31	36
3/4	1	1	15	721 911 558	-	-	0.040	55	35	46

21 91 10

## Adaptor socket PVC-U Inch BS Rp



**Model:**

- With solvent cement socket BS Inch and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

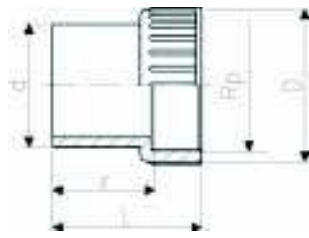
d [inch]	Rp [inch]	PN	Code Code	SP	GP	kg	z [mm]	L [mm]	s [mm]
3/8	3/8	15	721 911 005	10	280	0.016	4	31	27
1/2	1/2	15	721 911 006	10	150	0.030	4	35	32
3/4	3/4	15	721 911 007	10	100	0.032	3	40	36
1	1	15	721 911 008	10	70	0.053	3	45	46
1 1/4	1 1/4	15	721 911 009	10	70	0.079	3	51	55
1 1/2	1 1/2	15	721 911 010	10	50	0.130	8	59	65
2	2	15	721 911 011	5	60	0.195	8	69	80



21 90 14

**Adaptor bush equal PVC-U Inch BS Rp****Model:**

- With solvent cement socket BS Inch and parallel female thread Rp
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes



d [inch]	Rp [inch]	PN	Code Code	SP	GP	kg	z [mm]	D [mm]	L [mm]
1/2	1/2	15	721 901 406	10	100	0.013	21	28	37
3/4	3/4	15	721 901 407	10	100	0.021	23	34	41
1	1	15	721 901 408	10	100	0.039	27	42	48
1 1/4	1 1/4	15	721 901 409	10	100	0.067	33	52	56
1 1/2	1 1/2	15	721 901 410	10	100	0.097	38	62	61
2	2	15	721 901 411	5	50	0.168	47	77	74

21 91 17

**Adaptor bush equal PVC-U Inch BS R****Model:**

- With solvent cement socket BS Inch and taper male thread R
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes



d [inch]	R [inch]	PN	Code Code	SP	GP	kg	z [mm]	L [mm]	s [mm]
3/8	3/8	15	721 911 705	10	230	0.013	20	34	27
1/2	1/2	15	721 911 706	10	150	0.019	24	40	32
3/4	3/4	15	721 911 707	10	100	0.022	25	44	36
1	1	15	721 911 708	10	70	0.036	28	50	46
1 1/4	1 1/4	15	721 911 709	10	100	0.057	31	57	55
1 1/2	1 1/2	15	721 911 710	10	50	0.095	32	63	65
2	2	15	721 911 711	5	60	0.180	38	76	80
	2 1/2	10	721 910 712	5	-	0.223	42	86	90

21 91 17

**Adaptor bush reducing PVC-U Inch BS R****Model:**

- With solvent cement socket BS Inch and taper male thread R
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes



d [inch]	R [inch]	PN	Code Code	SP	GP	kg	z [mm]	L [mm]	s [mm]
1/2	3/4	15	721 911 737	120	-	0.050	22	40	36
3/4	1	15	721 911 741	70	-	0.034	27	48	46
1	1 1/4	15	721 911 746	70	-	0.052	29	53	55
1 1/4	1 1/2	15	721 911 752	60	-	0.060	29	58	65
1 1/2	2	15	721 911 758	75	-	0.071	34	64	80

21 91 14



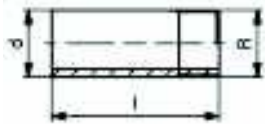
## Reducing bush PVC-U Inch BS

**Model:**

- With solvent cement socket BS Inch and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

d [inch]	Rp [inch]	PN	Code Code	SP	GP	kg	D [mm]	L [mm]	z [mm]
3/8	1/2	16	721 911 434	10	100	0.020	30	40	8

21 91 39



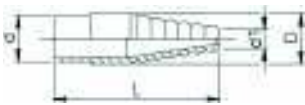
## Adaptor nipple PVC-U Inch BS R

**Model:**

- With solvent cement spigot BS Inch and taper male thread R
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

d [inch]	R [inch]	PN	Code Code	SP	GP	kg	L [mm]
3/8	3/8	15	721 913 905	-	-	0.010	43
1/2	1/2	15	721 913 906	-	-	0.015	50
3/4	3/4	15	721 913 907	-	-	0.020	56
1	1	15	721 913 908	-	-	0.135	63
1 1/4	1 1/4	15	721 913 909	-	-	0.040	75
1 1/2	1 1/2	15	721 913 910	-	-	0.060	88
2	2	15	721 913 911	-	-	0.120	88
3	3	15	721 913 913	-	-	0.300	128
4	4	15	721 913 915	-	-	0.560	153

21 96 13



## Hose connector PVC-U Inch BS

**Model:**

- With solvent cement spigot and taper hose connector

d [inch]	PN	Code	SP	GP	kg	d1 [mm]	D [mm]	L [mm]
1/4	15	721 961 304	10	-	0.004	6	12	51

21 96 14



## Hose connector PVC-U Inch BS

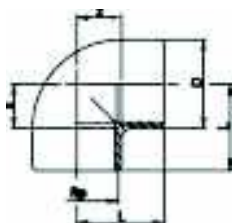
**Model:**

- With solvent cement spigot and parallel hose connection

d [inch]	PN	Code	SP	GP	kg	D [mm]	L [mm]
1/8	15	721 961 403	10	700	0.003	8	47
1/4	15	721 961 404	10	-	0.005	12	51

## Threaded fittings metric

21 10 16



### Elbow 90° PVC-U Rp

**Model:**

- With parallel female thread Rp
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

Rp [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	L [mm]
3/8	10	721 101 605	10	100	0.013	9	23	23
1/2	10	721 101 606	10	100	0.018	12	27	27
3/4	10	721 101 607	10	100	0.028	15	33	33
1	10	721 101 608	10	100	0.042	19	39	39
1 1/4	10	721 101 609	10	50	0.069	27	48	49
1 1/2	10	721 101 610	5	50	0.176	35	61	59
2	10	721 101 611	5	-	0.319	44	75	72
2 1/2	10	721 101 612	24	-	0.450	56	90	84
3	10	721 101 613	5	-	0.858	68	108	99
4	10	721 101 614	1	1	1.233	82	132	119

21 20 16



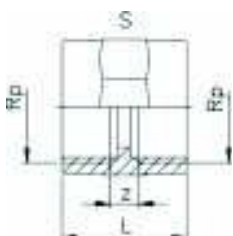
### Tee 90° equal PVC-U Rp

**Model:**

- With parallel female thread Rp
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

Rp [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	L [mm]
3/8	10	721 201 605	10	100	0.017	9	23	23
1/2	10	721 201 606	10	100	0.027	12	28	27
3/4	10	721 201 607	10	50	0.041	15	33	33
1	10	721 201 608	10	50	0.070	19	41	39
1 1/4	10	721 201 609	10	10	0.117	27	50	49
1 1/2	10	721 201 610	10	-	0.290	36	62	60
2	10	721 201 611	10	-	0.497	44	77	72
2 1/2	10	721 201 612	8	-	0.642	56	92	84
3	10	721 201 613	-	-	1.149	68	110	99
4	10	721 201 614	1	1	1.662	82	133	119

21 91 06



### Socket PVC-U Rp

**Model:**

- With parallel female thread Rp
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

Rp [inch]	PN	Code	SP	GP	kg	z [mm]	L [mm]	s [mm]
1/4	10	721 910 604	10	300	0.010	7	27	22
3/8	10	721 910 605	10	280	0.015	7	29	27
1/2	10	721 910 606	10	150	0.025	9	35	32
3/4	10	721 910 607	10	100	0.030	9	39	36
1	10	721 910 608	10	80	0.055	11	45	46
1 1/4	10	721 910 609	10	100	0.076	11	49	55
1 1/2	10	721 910 610	10	60	0.106	11	49	65
2	10	721 910 611	5	75	0.181	11	57	80

21 91 08



## Reducing bush PVC-U R Rp

### Model:

- With taper male thread R and parallel female thread Rp
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

R [inch]	Rp [inch]	PN	Code	SP	GP	kg	z [mm]	L [mm]	s [mm]
1/2	3/8	10	721 910 834	10	100	0.015	25	36	27
3/4	1/2	10	721 910 837	10	100	0.021	25	39	32
1	1/2	10	721 910 842	10	100	0.028	31	45	32
1	3/4	10	721 910 841	10	100	0.030	29	45	36
1 1/4	1	10	721 910 846	10	100	0.051	32	50	46
1 1/2	1 1/4	10	721 910 852	10	50	0.071	35	55	55
2	1 1/2	10	721 910 858	5	50	0.126	45	65	65

21 91 19



## Hexagon nipple PVC-U R

R [inch]	PN	Code	SP	GP	kg	L [mm]	s [mm]
3/8	10	721 911 905	10	100	0.007	37	19
1/2	10	721 911 906	10	100	0.012	45	22
3/4	10	721 911 907	10	100	0.019	49	27
1	10	721 911 908	10	50	0.035	57	36
1 1/4	10	721 911 909	10	50	0.053	62	46
1 1/2	10	721 911 910	10	50	0.071	67	50
2	10	721 911 911	5	50	0.124	76	65

21 96 06



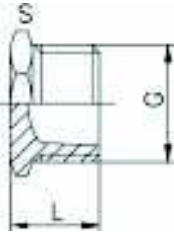
## Cap PVC-U Rp

### Model:

- With parallel female thread Rp
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

Rp [inch]	PN	Code	SP	GP	kg	D [mm]	L [mm]	s [mm]
1/8	10	721 960 603	10	-	0.013	20	14	17
1/4	10	721 960 604	10	-	0.024	25	16	22
3/8	10	721 960 605	10	100	0.005	31	19	27
1/2	10	721 960 606	10	100	0.018	37	21	32
3/4	10	721 960 607	10	100	0.024	42	24	36
1	10	721 960 608	10	100	0.040	50	26	46
1 1/4	10	721 960 609	10	100	0.060	60	29	55
1 1/2	10	721 960 610	10	100	0.073	65	31	60
2	10	721 960 611	5	50	0.128	81	36	75

21 96 09



## Plug PVC-U G

### Model:

- With parallel male thread G
- Connection to plastic threads only
- Flat gasket necessary for sealing
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

G [inch]	PN	Code	SP	GP	kg	L [mm]	s [mm]
3/8	10	<b>721 960 905</b>	10	450	0.006	21	22
1/2	10	<b>721 960 906</b>	10	320	0.010	25	27
3/4	10	<b>721 960 907</b>	10	100	0.019	29	36
1	10	<b>721 960 908</b>	10	100	0.030	32	41
1 1/4	10	<b>721 960 909</b>	10	100	0.048	36	50
1 1/2	10	<b>721 960 910</b>	10	100	0.069	37	60
2	10	<b>721 960 911</b>	5	50	0.120	42	75

21 96 19



## Plug PVC-U R

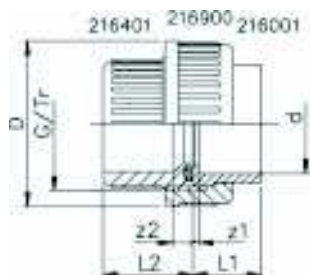
### Model:

- With taper male thread R
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

R [inch]	PN	Code	SP	GP	kg	L [mm]	s [mm]
3/8	10	<b>721 961 905</b>	10	450	0.006	21	22
1/2	10	<b>721 961 906</b>	10	320	0.010	25	27
3/4	10	<b>721 961 907</b>	10	100	0.019	29	36
1	10	<b>721 961 908</b>	10	100	0.030	32	41
1 1/4	10	<b>721 961 909</b>	10	100	0.048	36	50
1 1/2	10	<b>721 961 910</b>	10	100	0.070	37	60
2	10	<b>721 961 911</b>	5	50	0.117	42	75

# Unions metric

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## Union for solvent cement jointing PVC-U metric

### Model:

- Union End: solvent socket metric
- Union Bush: Solvent socket metric
- Jointing face: With O-ring groove
- Gasket: O-Ring EPDM No. 48 41 00, FPM No. 49 41 00

d [mm]	d [inch]	PN	EPDM Code	FPM Code	SP	GP	kg
10		16	721 510 103	721 510 128	10	100	0.020
12		16	721 510 104	721 510 129	10	100	0.019
16		16	721 510 105	721 510 130	10	100	0.025
20		16	721 510 106	721 510 131	10	80	0.040
25		16	721 510 107	721 510 132	10	100	0.066
32		16	721 510 108	721 510 133	10	60	0.090
40		16	721 510 109	721 510 134	10	30	0.153
50		16	721 510 110	721 510 135	2	60	0.204
63		16	721 510 111	721 510 136	10	-	0.367
75	2 ½	10	721 510 112	721 510 137	2	-	0.615
90		10	721 510 313	721 510 338	2	-	0.925
110		10	721 510 114	721 510 139	1	-	1.425

d [mm]	z1 [mm]	z2 [mm]	D [mm]	L1 [mm]	L2 [mm]	G/Tr
10	3	10	31	15	22	5/8
12	3	10	31	15	22	5/8
16	3	10	35	17	24	3/4
20	3	10	43	19	26	1
25	3	10	51	22	29	1 1/4
32	3	10	58	25	33	1 1/2
40	3	12	72	29	39	2
50	3	14	83	34	46	2 1/4
63	3	18	100	41	58	2 3/4
75	3	18	135	47	62	Tr108x5
90	5	18	158	56	69	Tr128x5
110	5	11	188	66	72	Tr154x6

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## PRO-FIT Unions for solvent cement jointing, PVC-U metric

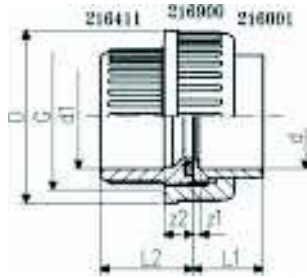
### Model:

- Union End: Solvent cemented spigot in combination with reducing socket metric
- Union Bush: Solvent socket metric
- Gasket: O-Ring EPDM No. 48 41 00, FPM No. 49 41 00

d [mm]	d1 [mm]	PN	EPDM Code	FPM Code	SP	GP	kg
* 16	12	16	721 510 305	721 510 330	10	-	0.029
* 20	16	16	721 510 306	721 510 331	10	-	0.044
* 25	20	16	721 510 307	721 510 332	10	-	0.073
* 32	25	16	721 510 308	721 510 333	10	-	0.105
40	32	16	721 510 309	721 510 334	10	-	0.171
50	40	16	721 510 310	721 510 335	10	-	0.250
63	50	16	721 510 311	721 510 336	10	-	0.449

d [mm]	z1 [mm]	z2 [mm]	z3 [mm]	D [mm]	L1 [mm]	L2 [mm]	G [inch]
* 16	22	10	24	35	36	24	¾
* 20	24	10	26	43	40	26	1
* 25	25	10	28	51	44	29	1 ¼
* 32	27	10	30	58	49	33	1 ½
40	31	12	35	74	57	39	2
50	35	14	40	83	66	46	2 ¼
63	39	18	46	100	77	58	2 ¾

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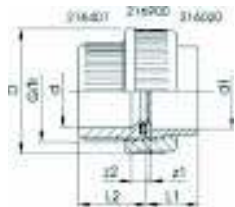
**Adaptor union PVC-U metric Inch BS**

**Model:**

- Union End: Solvent cement socket metric
- Union Bush: Solvent cement socket BS inch
- Gasket: O-ring EPDM No. 48 41 00
- Can be supplied with FPM O-Ring No. 49 41 00

d [mm]	d1 [inch]	PN	Code	SP	GP	kg	z1 [mm]	z2 [mm]	D [mm]	L1 [mm]	L2 [mm]	G [inch]
16	3/8	16	721 513 105	100	-	0.025	3	8	35	17	24	3/4
20	1/2	16	721 513 106	10	100	0.040	3	9	43	19	26	1
25	3/4	16	721 513 107	50	-	0.065	3	9	51	22	29	1 1/4
32	1	16	721 513 108	35	-	0.090	3	9	58	25	33	1 1/2
40	1 1/4	16	721 513 109	20	-	0.155	3	10	72	29	39	2
50	1 1/2	16	721 513 110	15	-	0.200	3	10	83	34	46	2 1/4
63	2	16	721 513 111	10	-	0.355	3	10	100	41	58	2 3/4

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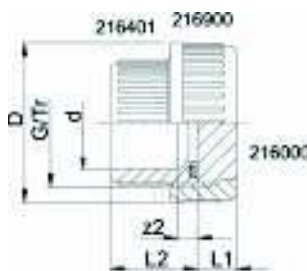
**Union for solvent cement jointing PVC-U metric/ASTM**

**Model:**

- Union End: Solvent cement socket ASTM
- Union Bush: Solvent socket metric
- Gasket: O-ring EPDM No. 48 41 00
- Can be supplied with FPM O-Ring No. 49 41 00

d [mm]	d1 [inch]	PN	Code	kg	z1 [mm]	z2 [mm]	D [mm]	L1 [mm]	L2 [mm]	G [inch]
16	3/8	16	721 514 105	0.022	3	10	35	22	24	3/4
20	1/2	16	721 514 106	0.047	3	10	43	25	26	1
25	3/4	16	721 514 107	0.065	3	10	51	28	29	1 1/4
32	1	16	721 514 108	0.103	3	10	58	32	33	1 1/2
40	1 1/4	16	721 514 109	0.174	3	12	72	35	39	2
50	1 1/2	16	721 514 110	0.239	3	14	83	38	46	2 1/4
63	2	16	721 514 111	0.435	3	18	100	41	58	2 3/4

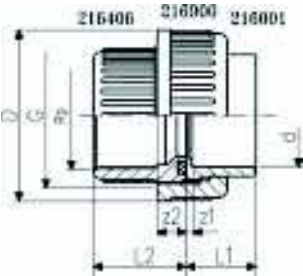
21 51 00



**Union with union end blank PVC-U metric**

d [mm]	PN	EPDM Code	FPM Code	SP	GP	kg	z2 [mm]	D [mm]	L1 [mm]	L2 [mm]	G/Tr
10	16	721 510 003	721 510 028	10	100	0.020	9	31	10	22	5/8
12	16	721 510 004	721 510 029	10	100	0.020	9	31	15	22	5/8
16	16	721 510 005	721 510 030	10	100	0.026	10	35	10	24	3/4
20	16	721 510 006	721 510 031	10	80	0.041	10	43	11	26	1
25	16	721 510 007	721 510 032	10	100	0.068	10	51	11	29	1 1/4
32	16	721 510 008	721 510 033	10	60	0.095	10	58	12	33	1 1/2
40	16	721 510 009	721 510 034	10	30	0.159	12	72	13	39	2
50	16	721 510 010	721 510 035	5	50	0.227	14	83	16	46	2 1/4
63	16	721 510 011	721 510 036	10	-	0.405	18	100	18	58	2 3/4
75	10	721 510 012	721 510 037	2	-	0.693	18	135	22	62	Tr108x5
90	10	721 510 213	721 510 238	2	-	1.022	18	158	24	69	Tr128x5
110	10	721 510 014	721 510 039	1	-	1.573	11	188	26	72	Tr154x6

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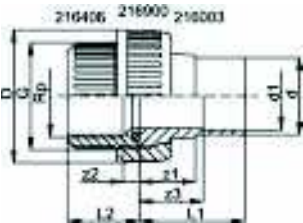
## Adaptor Unions, PVC-U metric - Rp

**Model:**

- Union End: Solvent cement socket metric
- Union Bush: Parallel female thread Rp
- Gasket: O-Ring No. 48 41 00
- Can be supplied with FPM O-Ring No. 49 41 00
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U

d [mm]	Rp [inch]	PN	Code	SP	GP	kg	z1 [mm]	z2 [mm]	D [mm]	L1 [mm]	L2 [mm]	G [inch]
12	1/4	10	721 510 204	10	220	0.019	3	12	31	15	22	5/8
16	3/8	10	721 510 205	10	140	0.020	3	13	35	17	24	3/4
20	1/2	10	721 510 206	10	80	0.042	3	13	43	19	26	1
25	3/4	10	721 510 207	10	100	0.072	3	14	51	22	29	1 1/4
32	1	10	721 510 208	10	60	0.095	3	15	58	25	33	1 1/2
40	1 1/4	10	721 510 209	10	30	0.160	3	19	72	29	39	2
50	1 1/2	10	721 510 210	2	60	0.255	3	26	83	34	46	2 1/4
63	2	10	721 510 211	2	32	0.400	3	33	100	41	58	2 3/4

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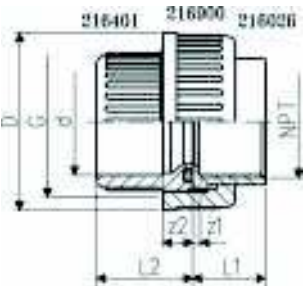
## PRO-FIT Adaptor Unions, PVC-U metric - Rp

**Model:**

- Union End: Solvent cemented spigot in combination with reducing socket metric
- Union Bush: Threaded socket with parallel female thread Rp
- Gasket: O-Ring EPDM No. 48 41 00, FPM No. 49 41 00
- Can be supplied with FPM O-Ring No. 49 41 00
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U

d [mm]	d1 [mm]	Rp [inch]	PN	EPDM Code	SP	GP	kg	z1 [mm]	z2 [mm]	z3 [mm]	D [mm]	L1 [mm]	L2 [mm]	G [inch]
* 16	12	3/8	10	721 510 405	10	-	0.032	22	13	24	35	36	24	3/4
* 20	16	1/2	10	721 510 406	10	10	0.046	24	13	26	43	40	26	1
* 25	20	3/4	10	721 510 407	10	-	0.079	25	14	28	51	44	29	1 1/4
* 32	25	1	10	721 510 408	10	-	0.116	27	15	30	58	49	32	1 1/2
40	32	1 1/4	10	721 510 409	10	-	0.192	31	19	35	74	57	38	2
50	40	1 1/2	10	721 510 410	10	-	0.301	35	26	40	83	66	45	2 1/4
63	50	2	10	721 510 411	10	10	0.496	39	33	46	100	77	56	2 3/4

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## Adaptor Unions, PVC-U metric - NPT

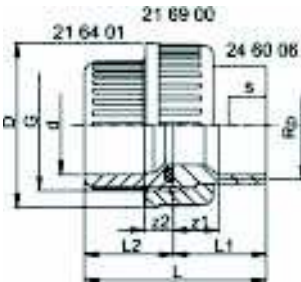
**Model:**

- Union End: Taper female thread NPT (ASTM)
- Union Bush: Solvent socket metric
- Gasket: O-ring EPDM No. 48 41 00
- Can be supplied with FPM O-Ring No. 49 41 00
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U

d [mm]	NPT [inch]	PN	Code	kg	z1 [mm]	z2 [mm]	D [mm]	L1 [mm]	L2 [mm]	G [inch]
16	3/8	10	721 514 205	0.026	4	10	35	17	24	3/4
20	1/2	10	721 514 206	0.042	2	10	43	19	26	1
25	3/4	10	721 514 207	0.068	4	10	51	22	29	1 1/4
32	1	10	721 514 208	0.093	4	10	58	25	33	1 1/2
40	1 1/4	10	721 514 209	0.163	6	12	72	29	39	2
50	1 1/2	10	721 514 210	0.221	11	14	83	34	46	2 1/4
63	2	10	721 514 211	0.395	17	18	100	41	58	2 3/4



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## Adaptor Unions, PVC-U / Stainless Steel metric - Rp

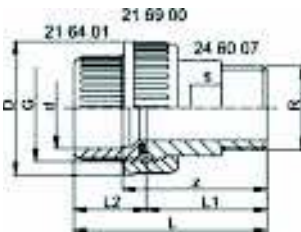
### Model:

- Union End: Stainless Steel 1.4404 (316L), parallel female thread Rp
- Union Bush: Solvent cement socket PVC-U metric
- Union nut: PVC-U
- Gasket: O-Ring EPDM No. 48 41 00, FPM No. 49 41 00

d [mm]	Rp [inch]	PN	EPDM Code	FPM Code	SP	kg
16	3/8	16	721 540 205	721 540 230	-	0.053
20	1/2	16	721 540 206	721 540 231	-	0.096
25	3/4	16	721 540 207	721 540 232	-	0.154
32	1	16	721 540 208	721 540 233	-	0.212
40	1 1/4	16	721 540 209	721 540 234	-	0.356
50	1 1/2	16	721 540 210	721 540 235	-	0.455
63	2	16	721 540 211	721 540 236	-	0.721

d [mm]	z1 [mm]	z2 [mm]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	G [inch]	s [mm]
16	9	10	35	43	19	24	3/4	19
20	11	10	43	50	24	26	1	24
25	11	10	51	55	26	29	1 1/4	29
32	12	10	58	61	29	33	1 1/2	36
40	14	12	72	71	33	39	2	45
50	15	14	83	79	34	46	2 1/4	54
63	15	18	100	95	39	58	2 3/4	63

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## Adaptor Unions, PVC-U / Stainless Steel metric - R

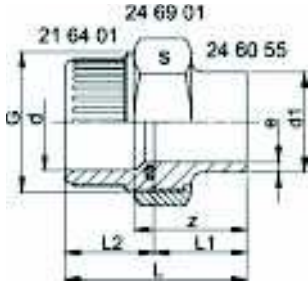
### Model:

- Union End: Stainless Steel 1.4404 (316L), taper male thread R
- Union Bush: Solvent cement socket PVC-U metric
- Union nut: PVC-U
- Gasket: O-Ring EPDM No. 48 41 00, FPM No. 49 41 00

d [mm]	R [inch]	PN	EPDM Code	FPM Code	SP	kg
16	3/8	16	721 540 705	721 540 730	-	0.073
20	1/2	16	721 540 706	721 540 731	-	0.126
25	3/4	16	721 540 707	721 540 732	-	0.174
32	1	16	721 540 708	721 540 733	-	0.262
40	1 1/4	16	721 540 709	721 540 734	-	0.476
50	1 1/2	16	721 540 710	721 540 735	-	0.535
63	2	16	721 540 711	721 540 736	-	0.931

d [mm]	z [mm]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	G [inch]	s [mm]
16	40	35	54	30	24	3/4	19
20	44	43	60	34	26	1	24
25	46	51	65	36	29	1 1/4	32
32	50	58	72	40	33	1 1/2	37
40	58	72	84	46	39	2	48
50	62	83	93	48	46	2 1/4	54
63	73	100	111	55	58	2 3/4	69

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## Adaptor Unions, PVC-U / Stainless Steel metric - Welding End

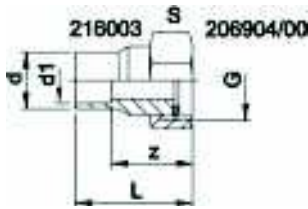
**Model:**

- Union End: Stainless Steel 1.4404 (316L) with welding end
- Union Bush: Solvent cement socket PVC-U metric
- Union Nut: Stainless Steel WN 1.4404 (316L)
- Gasket: O-Ring EPDM No. 48 41 00, FPM No. 49 41 00

d [mm]	d1 [mm]	PN	EPDM Code	FPM Code	SP	GP	kg
16	17	16	721 545 505	721 545 530	-	-	0.101
20	21	16	721 545 506	721 545 531	-	-	0.176
25	27	16	721 545 507	721 545 532	-	-	0.204
32	34	16	721 545 508	721 545 533	-	-	0.313
40	42	16	721 545 509	721 545 534	-	-	0.493
50	48	16	721 545 510	721 545 535	-	-	0.566
63	60	16	721 545 511	721 545 536	-	-	0.902

d [mm]	z [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	G [inch]	s [mm]
16	28	42	18	24	1.6	¾	32
20	32	48	22	26	2.0	1	41
25	33	52	23	29	2.0	1 ¼	46
32	36	58	26	33	2.0	1 ½	55
40	38	64	26	39	2.0	2	68
50	42	73	28	46	2.0	2 ¼	74
63	50	88	32	58	2.6	2 ¾	88

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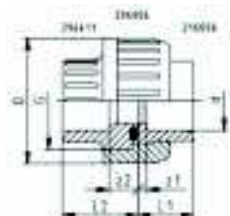
## Tap Connectors, PVC-U / Brass metric - G

**Model:**

- Union End: PVC-U, solvent cement socket / spigot metric
- Union Nut: brass with female thread G
- Gasket: flat gasket EPDM No. 48 40 02

d [mm]	d1 [mm]	G [inch]	PN	Code	SP	GP	kg	z [mm]	L [mm]	s [mm]
16	12	½	16	721 550 305	10	280	0.031	22	34	24
20	16	¾	16	721 550 306	10	160	0.049	24	38	30
25	20	1	16	721 550 307	10	80	0.079	27	43	38

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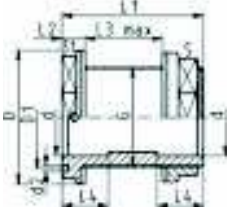
## Thread Unions, PVC-U Rp-Rp

**Model:**

- Union End: Parallel female thread Rp
- Union Bush: Parallel female thread Rp
- Union nut: PVC-U
- Gasket: O-Ring EPDM No. 48 41 00
- Can be supplied with FPM O-Ring No. 49 41 00
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U

Rp [inch]	PN	Code	SP	GP	kg	z1 [mm]	z2 [mm]	D [mm]	L1 [mm]	L2 [mm]	G [inch]
¼	10	721 510 604	10	220	0.019	3	12	31	22	15	⅝
⅜	10	721 510 605	10	140	0.027	3	13	35	24	17	¾
½	10	721 510 606	10	80	0.042	3	13	43	26	19	1
¾	10	721 510 607	10	110	0.065	3	14	51	29	22	1 ¼
1	10	721 510 608	10	60	0.093	3	15	58	32	25	1 ½
1 ¼	10	721 510 609	10	30	0.160	3	19	72	38	29	2
1 ½	10	721 510 610	2	60	0.220	3	26	83	45	34	2 ¼
2	10	721 510 611	2	32	0.410	3	33	100	56	41	2 ¾

610504



### Tank Adaptors Type 050 Compact, PVC-U metric

**Model:**

- End connection: solvent cement socket, metric
- Gasket: flat gasket EPDM
- Washer: PP
- Run-out holes: Two holes in octagonal head

d [mm]	PN	EPDM Code	SP	GP	kg
16	16	161 050 445	75	-	0.041
20	16	161 050 446	50	-	0.066
25	16	161 050 447	70	-	0.109
32	16	161 050 448	50	-	0.153
40	16	161 050 449	30	-	0.225
50	16	161 050 450	20	-	0.260
63	16	161 050 451	20	-	0.390

d [mm]	d2 [mm]	D [mm]	D1 [mm]	L1 [mm]	L2 [mm]	L3 max [mm]	L4 [mm]	G [inch]	S [mm]	S1 [mm]	Diameter of bore in tank side [mm]
16	5	44	29	58	11	28	14	3/4	32	40	28
20	5	54	35	61	12	28	16	1	40	50	35
25	5	60	42	65	13	28	19	1 1/4	50	55	43
32	5	69	49	67	13	28	22	1 1/2	56	65	49
40	5	84	59	72	13	29	26	2	69	80	61
50	5	92	70	76	15	30	31	2 1/4	76	85	67
63	5	108	82	84	15	35	38	2 3/4	95	100	83

610503



### Tank Adaptors Type 050, PVC-U Union End with Spigot reducing socket, metric

**Model:**

- End connection: union with union end spigot/reducing socket, metric
- Gasket: flat gasket EPDM
- Washer: PP
- Run-out holes: Two holes in octagonal head

d [mm]	d1 [mm]	PN	EPDM Code	SP	GP	kg
16	12	16	161 050 345	1	-	0.064
20	16	16	161 050 346	1	-	0.102
25	20	16	161 050 347	1	-	0.157
32	25	16	161 050 348	1	-	0.220
40	32	16	161 050 349	1	-	0.333
50	40	16	161 050 350	1	-	0.438
63	50	16	161 050 351	1	-	0.680

d [mm]	d2 [mm]	D [mm]	D1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 max [mm]	L4 [mm]	L5 [mm]	G [inch]	S [mm]	S1 [mm]	Diameter of bore in tank side [mm]
16	5	44	29	96	58	11	19	14	12	3/4	32	40	28
20	5	54	35	104	61	12	17	16	14	1	40	50	35
25	5	60	42	112	65	13	18	19	16	1 1/4	50	55	43
32	5	69	49	119	67	13	19	22	19	1 1/2	56	65	49
40	5	84	59	132	72	13	16	26	22	2	69	80	61
50	5	92	70	145	76	15	16	31	26	2 1/4	76	85	67
63	5	108	82	163	84	15	19	38	31	2 3/4	95	100	83

610502



## Tank Adaptor Type 050, PVC-U Union End with socket, metric

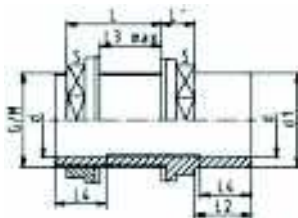
### Model:

- End connection: union with solvent cement socket, metric
- Gasket: flat gasket EPDM
- Washer: PP
- Run-out holes: Two holes in octagonal head

d [mm]	PN	Code	SP	GP	kg
16	16	<b>161 050 245</b>	1	-	0.040
20	16	<b>161 050 246</b>	1	-	0.070
25	16	<b>161 050 247</b>	-	-	0.100
32	16	<b>161 050 248</b>	1	-	0.196
40	16	<b>161 050 249</b>	1	-	0.240
50	16	<b>161 050 250</b>	1	-	0.350
63	16	<b>161 050 251</b>	1	-	0.530

d [mm]	d2 [mm]	D [mm]	D1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 max [mm]	L4 [mm]	G [inch]	S [mm]	S1 [mm]	Diameter of bore in tank side [mm]
16	5	44	29	77	58	11	19	14	¾	32	40	28
20	5	54	35	83	61	12	17	16	1	40	50	35
25	5	60	42	90	65	13	18	19	1 ¼	50	55	43
32	5	69	49	95	67	13	19	22	1 ½	56	65	49
40	5	84	59	104	72	13	16	26	2	69	80	61
50	5	92	70	113	76	15	16	31	2 ¼	76	85	67
63	5	108	82	128	84	15	19	38	2 ¾	95	100	83

610502



## Tank Adaptor Type 050, PVC-U metric

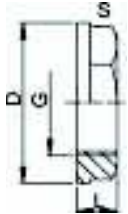
### Model:

- End connection: solvent cement socket and spigot, metric
- Gasket: flat gasket EPDM
- Washer: PP

d [mm]	d1 [mm]	Code	SP	GP	kg
20	25	<b>161 050 206</b>	75	-	0.040
25	32	<b>161 050 207</b>	50	-	0.070
32	40	<b>161 050 208</b>	50	-	0.100
40	50	<b>161 050 209</b>	35	-	0.190
50	63	<b>161 050 210</b>	25	-	0.240
63	75	<b>161 050 211</b>	15	-	0.350
75	90	<b>161 050 212</b>	20	-	0.530
90	110	<b>161 050 213</b>	10	-	1.050
110	125	<b>161 050 214</b>	6	-	1.350

d [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 max [mm]	L4 [mm]	G [inch]	M	s [mm]	Diameter of bore in tank side [mm]
20	42	13	19	23	16	¾		32	28
25	45	15	22	23	19	1		40	35
32	27	17	26	24	22	1 ¼		50	43
40	48	19	31	21	26	1 ¾		60	55
50	52	21	38	21	31	2		69	61
63	53	23	44	23	38	2 ½		85	77
75	56	26	51	20	44	3		100	89
90	62	32	61	20	51		M113	125	115
110	66	36	69	22	61		M133	147	135

61 49 06



## Backing Nut, PVC-U

### Model:

- With G thread ISO 228/1
- For Tank Adaptor Type 050

G [inch]	Code	SP	GP	kg	D [mm]	L [mm]	s [mm]
3/4	<b>161 490 630</b>	400	-	0.007	39	13	32
1	<b>161 490 632</b>	200	-	0.012	48	15	40
1 1/4	<b>161 490 634</b>	100	-	0.020	58	17	50
1 1/2	<b>161 490 635</b>	100	-	0.025	65	18	56
1 3/4	<b>161 490 636</b>	75	-	0.036	72	19	64
2	<b>161 490 637</b>	50	-	0.044	79	21	69
2 1/4	<b>161 490 638</b>	50	-	0.053	86	21	76
2 1/2	<b>161 490 639</b>	25	-	0.063	94	23	85
2 3/4	<b>161 490 640</b>	25	-	0.080	106	25	95
3	<b>161 490 641</b>	20	-	0.101	112	26	100
4	<b>161 490 644</b>	10	-	0.164	139	32	126

21 60 01



## Union Ends, PVC-U metric

### Model:

- Solvent cement socket metric
- Suitable for unions, tank connectors and diaphragm valves Type 314

\* for Adaptor Unions 21 53 02, 21 53 07, 21 55 02, 21 55 07 old version

d [mm]	PN	Code	SP	GP	kg	z [mm]	D [mm]	D1 [mm]	L [mm]
10	16	<b>721 600 103</b>	-	-	0.004	3	20	18	15
12	16	<b>721 600 104</b>	-	-	0.004	3	20	18	15
16	16	<b>721 600 105</b>	-	-	0.006	3	24	22	17
20	16	<b>721 600 106</b>	-	-	0.009	3	30	28	19
25	16	<b>721 600 107</b>	-	-	0.015	3	39	36	22
32	16	<b>721 600 108</b>	-	-	0.020	3	45	42	25
40	16	<b>721 600 109</b>	-	-	0.038	3	57	53	29
50	16	<b>721 600 110</b>	-	-	0.039	3	63	59	34
63	16	<b>721 600 111</b>	-	-	0.072	3	78	74	41
75	10	<b>721 600 162</b>	-	-	0.140	3	101	90	47
90	10	<b>721 600 163</b>	-	-	0.242	5	121	108	56
110	10	<b>721 600 164</b>	-	-	0.390	5	146	131	66
* 75	10	<b>721 600 112</b>	110	-	0.155	3	97	90	47
* 90	10	<b>721 600 113</b>	-	-	0.196	5	110	105	56

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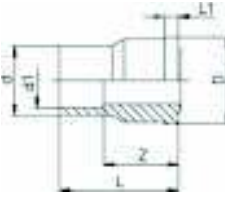
## Union Ends with Spigot, PVC-U metric

### Model:

- Solvent cement spigot in combination with reducing socket metric
- Suitable for unions, tank connectors and diaphragm valves Type 314

d [mm]	d1 [mm]	PN	Code	SP	GP	kg	z [mm]	z1 [mm]	D [mm]	D1 [mm]	L [mm]
* 16	12	16	<b>721 600 405</b>	1800	10	0.010	22	24	24	22	36
* 20	16	16	<b>721 600 406</b>	2100	-	0.013	24	26	30	28	40
* 25	20	16	<b>721 600 407</b>	1200	-	0.022	25	28	39	36	44
* 32	25	16	<b>721 600 408</b>	740	-	0.035	27	30	45	42	49
40	32	16	<b>721 600 409</b>	260	-	0.057	31	35	57	53	57
50	40	16	<b>721 600 410</b>	190	-	0.086	35	40	63	59	66
63	50	16	<b>721 600 411</b>	110	-	0.153	39	46	79	74	77

21 60 03



## Union Ends, PVC-U metric

d [mm]	d1 [mm]	PN	Code	SP	GP	kg	z [mm]	D [mm]	L [mm]	L1 [mm]
16	12	16	721 600 305	-	-	0.005	22	19	34	3
20	16	16	721 600 306	-	-	0.009	24	24	38	5
25	20	16	721 600 307	-	-	0.016	27	30	43	5

21 60 20



## Union Ends, PVC-U ASTM

### Model:

- With solvent cement socket ASTM

d [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	D1 [mm]	L [mm]
3/8	16	721 602 005	-	-	0.006	3	24	22	22
1/2	16	721 602 006	-	-	0.009	3	30	28	25
3/4	16	721 602 007	-	-	0.016	3	39	36	28
1	16	721 602 008	-	-	0.022	3	45	42	32
1 1/4	16	721 602 009	-	-	0.037	3	57	53	35
1 1/2	16	721 602 010	-	-	0.052	3	63	59	38
2	16	721 602 011	-	-	0.088	3	78	74	41
2 1/2	10	721 602 012	-	-	0.140	3	101	90	47
3	10	721 602 013	-	-	0.255	5	121	108	56
3 1/2	10	721 602 014	-	-	0.390	5	146	131	66

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## Union Ends, PVC-U NPT (ASTM)

### Model:

- Taper female thread NPT (ASTM)

NPT [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	D1 [mm]	L [mm]
3/8	10	721 602 655	-	-	0.005	4	24	22	17
1/2	10	721 602 656	-	-	0.008	2	30	28	19
3/4	10	721 602 657	-	-	0.016	4	39	36	22
1	10	721 602 658	-	-	0.022	3	45	42	25
1 1/4	10	721 602 659	-	-	0.040	6	57	53	29
1 1/2	10	721 602 660	-	-	0.058	11	63	59	34
2	10	721 602 661	-	-	0.128	17	78	74	41

21 60 11



## Union Ends, PVC-U BS Inch

### Model:

- Solvent cement socket BS inch

d [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	D1 [mm]	L [mm]
3/8	15	721 601 105	-	-	0.005	3	24	22	19
1/2	15	721 601 106	-	-	0.008	3	30	27	21
3/4	15	721 601 107	-	-	0.014	3	38	36	24
1	15	721 601 108	-	-	0.019	3	44	41	27
1 1/4	15	721 601 109	1	-	0.033	3	56	53	32
1 1/2	15	721 601 110	-	-	0.043	3	62	59	33
2	15	721 601 111	-	-	0.082	3	78	74	40

## 21 60 06



## Union Ends, PVC-U Rp

### Model:

- Parallel female thread Rp

Rp [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	D1 [mm]	L [mm]
1/4	10	721 600 654	-	-	0.004	5	20	18	15
3/8	10	721 600 655	-	-	0.005	6	24	22	17
1/2	10	721 600 656	1430	-	0.010	6	30	28	19
3/4	10	721 600 657	-	-	0.013	7	39	36	22
1	10	721 600 658	-	-	0.021	8	45	42	25
1 1/4	10	721 600 659	-	-	0.038	10	57	53	29
1 1/2	10	721 600 660	-	-	0.045	11	63	59	34
2	10	721 600 661	-	-	0.110	18	78	74	41

## 21 60 00



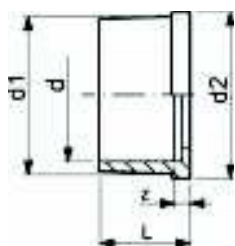
## Union Ends Blank, PVC-U

### Model:

- For Unions, Tank Adaptor and Diaphragm Valve Type 314
- Flat sealing faces

d [mm]	DN [mm]	Inch	PN	Code	SP	GP	kg	D [mm]	D1 [mm]	L [mm]	L1 [mm]
10	6	1/8	16	721 600 004	-	-	0.004	20	18	9	4
16	10	3/8	16	721 600 005	-	-	0.006	24	22	10	5
20	15	1/2	16	721 600 006	-	-	0.010	30	28	11	5
25	20	3/4	16	721 600 007	-	-	0.017	39	36	11	6
32	25	1	16	721 600 008	-	-	0.025	45	42	12	6
40	32	1 1/4	16	721 600 009	-	-	0.043	57	53	13	7
50	40	1 1/2	16	721 600 010	-	-	0.062	63	59	16	7
63	50	2	16	721 600 011	-	-	0.110	78	74	18	8
75	65	2 1/2	10	721 600 012	-	-	0.218	101	90	22	10
90	80	3	10	721 600 013	-	-	0.339	121	108	24	11
110	100	4	10	721 600 014	-	-	0.538	146	131	26	12

## 34 60 01



## Union Ends, PE80

### Model:

- With fusion socket metric
- Suitable for unions, tank connectors and diaphragm valves Type 314

d [mm]	PN	Code	SP	GP	kg	d1 [mm]	d2 [mm]	L [mm]	L1 [mm]	z [mm]
20	10	734 600 106	-	-	0.006	28	30	19	5	5
25	10	734 600 107	-	-	0.012	36	39	21	5	5
32	10	734 600 108	-	-	0.015	42	45	23	6	5
40	10	734 600 109	-	-	0.026	53	57	25	6	5
50	10	734 600 110	-	-	0.027	59	63	28	7	5
63	10	734 600 111	-	-	0.045	74	79	32	8	5



## Union Ends long, PE100

### Model:

- For butt-, IR Plus® and electrofusion
- Suitable for unions, tank connectors and diaphragm valves Type 314



d [mm]	PN	FM	Code	SP	GP	kg	D [mm]	L [mm]	L1 [mm]	e [mm]
20	16	IR	753 608 616	1	-	0.011	30	67	52	1,9
25	16	IR	753 608 617	1	-	0.019	39	71	53	2,3
32	16	IR	753 608 618	1	-	0.027	45	73	55	2,9
40	16	IR	753 608 619	1	-	0.045	57	81	60	3,7
50	16	IR	753 608 620	1	-	0.062	63	87	66	4,6
63	16	IR	753 608 621	1	-	0.119	78	93	70	5,8

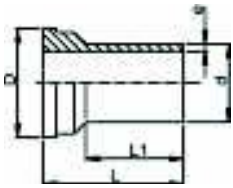
53 60 86



## Union Ends, PE100 SDR11

### Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared- (IR Plus®) compatible.
- For the dimensions d75-110 please see instructions for the installation



d [mm]	PN	FM	Code	SP	GP	kg	D [mm]	L [mm]	L1 [mm]	e [mm]
20	16	IR	753 608 606	-	-	0.011	30	54	38	1,9
25	16	IR	753 608 607	-	-	0.018	39	57	42	2,3
32	16	IR	753 608 608	-	-	0.027	45	60	41	2,9
40	16	IR	753 608 609	-	-	0.045	57	63	42	3,7
50	16	IR	753 608 610	-	-	0.062	63	66	44	4,6
63	16	IR	753 608 611	-	-	0.100	78	69	45	5,8
75	10	IR	753 608 612	-	-	0.147	101	66	34	6,8
90	10	IR	753 608 613	-	-	0.156	101	66	45	8,2
110	10	IR	753 608 614	-	-	0.226	121	66	40	10,0

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## Union Ends, Stainless Steel 1.4404 (316L)

### Rp

### Model:

- Material: Stainless Steel 1.4404 (316L)
- Parallel female thread Rp



Rp [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	D1 [mm]	L [mm]	s [mm]
3/8	16	724 600 655	-	-	0.030	9	24	22	19	19
1/2	16	724 600 656	-	-	0.060	11	30	28	24	24
3/4	16	724 600 657	-	-	0.100	11	39	36	26	29
1	16	724 600 658	-	-	0.140	12	45	42	29	36
1 1/4	16	724 600 659	-	-	0.230	14	57	53	33	45
1 1/2	16	724 600 660	-	-	0.320	15	63	59	34	54
2	16	724 600 661	-	-	0.450	15	78	74	39	63

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## Union Ends, Stainless Steel 1.4404 (316L)

### R

### Model:

- Material: Stainless Steel 1.4404 (316L)
- Taper male thread R



R [inch]	PN	Code	SP	GP	kg	D [mm]	D1 [mm]	L [mm]	s [mm]
3/8	16	724 600 705	-	-	0.050	24	22	30	19
1/2	16	724 600 706	-	-	0.090	30	28	34	24
3/4	16	724 600 707	-	-	0.120	39	36	36	32
1	16	724 600 708	-	-	0.190	45	42	40	37
1 1/4	16	724 600 709	-	-	0.350	57	53	46	48
1 1/2	16	724 600 710	-	-	0.400	63	59	48	54
2	16	724 600 711	-	-	0.660	78	74	55	69



24 60 55



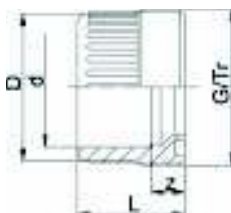
## Union Ends, Stainless Steel 1.4404 (316L) Welding End

**Model:**

- Material: Stainless Steel 1.4404 (316L)

d [mm]	d1 [mm]	PN	Code	SP	GP	kg	D [mm]	D1 [mm]	L [mm]	e [mm]
16	17	16	724 605 505	-	-	0.030	24	22	18	1.6
20	21	16	724 605 506	-	-	0.050	30	28	22	2.0
25	26	16	724 605 507	-	-	0.080	39	36	23	2.0
32	33	16	724 605 508	-	-	0.110	45	42	26	2.0
40	42	16	724 605 509	-	-	0.190	57	53	26	2.0
50	48	16	724 605 510	-	-	0.220	63	59	28	2.0
63	60	16	724 605 511	-	-	0.370	78	74	32	2.6

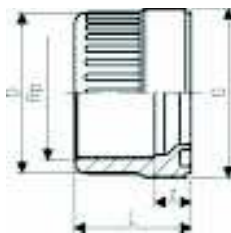
21 64 01



## Union Bushes, PVC-U metric

d [mm]	PN	Code	SP	GP	kg	z [mm]	D [mm]	L [mm]	G/Tr
10	16	721 640 103	-	-	0.007	10	20	22	5/8
12	16	721 640 104	-	-	0.007	10	20	22	5/8
16	16	721 640 105	-	-	0.009	10	24	24	3/4
20	16	721 640 106	10	-	0.014	10	29	26	1
25	16	721 640 107	10	-	0.023	10	34	29	1 1/4
32	16	721 640 108	-	-	0.032	10	42	33	1 1/2
40	16	721 640 109	10	-	0.058	12	52	39	2
50	16	721 640 110	10	-	0.039	14	62	46	2 1/4
63	16	721 640 111	10	-	0.132	18	78	58	2 3/4
75	10	721 640 112	10	-	0.210	18	93	62	Tr108x5
90	10	721 640 123	-	-	0.355	18	110	69	Tr128x5
110	10	721 640 114	-	-	0.445	11	133	72	Tr154x6

21 64 06



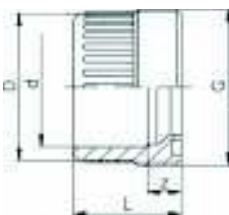
## Union Bushes, PVC-U Rp

**Model:**

- With parallel female thread Rp
- Jointing face: With O-Ring groove
- Gasket: O-Ring EPDM No. 48 41 00, FPM No. 49 41 00
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U

Rp [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	L [mm]	G [inch]
1/4	10	721 640 604	-	-	0.006	12	20	22	5/8
3/8	10	721 640 605	-	-	0.008	13	24	24	3/4
1/2	10	721 640 606	-	-	0.013	13	29	26	1
3/4	10	721 640 607	-	-	0.021	14	34	29	1 1/4
1	10	721 640 608	-	-	0.032	15	42	32	1 1/2
1 1/4	10	721 640 609	-	-	0.057	19	53	38	2
1 1/2	10	721 640 610	-	-	0.095	26	63	45	2 1/4
2	10	721 640 611	10	-	0.160	33	78	56	2 3/4

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## Union Bushes, PVC-U BS Inch

### Model:

- Solvent cement socket BS inch
- Jointing face: With O-Ring groove
- Gasket: O-Ring EPDM No. 48 41 00, FPM No. 49 41 00

d [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	L [mm]	G [inch]
3/8	15	721 641 105	-	-	0.008	8	24	24	3/4"
1/2	15	721 641 106	-	-	0.012	9	29	26	1"
3/4	15	721 641 107	-	-	0.021	9	34	29	1 1/4"
1	15	721 641 108	-	-	0.031	9	42	33	1 1/2"
1 1/4	15	721 641 109	-	-	0.056	10	52	39	2"
1 1/2	15	721 641 110	10	-	0.075	10	62	46	2 1/4"
2	15	721 641 111	-	-	0.139	10	78	58	2 3/4"

24 63 06



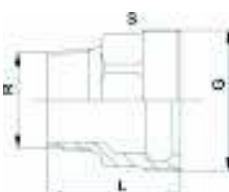
## Union Bushes, Malleable Iron Galvanized Rp

### Model:

- Parallel female thread Rp

d [mm]	Rp [inch]	PN	Code	kg	z [mm]	L [mm]	G [inch]	s [mm]
20	1/2	16	724 630 606	0.058	12	25	1	25
25	3/4	16	724 630 607	0.096	13	28	1 1/4	31
32	1	16	724 630 608	0.127	14	31	1 1/2	28
40	1 1/4	16	724 630 609	0.204	14	33	2	47
50	1 1/2	16	724 630 610	0.268	17	36	2 1/4	53
63	2	16	724 630 611	0.443	18	42	2 3/4	66
75	2 1/2	16	724 630 612	0.737	19	46	3 1/2	82
90	3	16	724 630 613	0.913	22	52	4	96

24 63 09



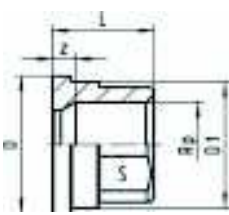
## Union Bushes, Malleable Iron Galvanized R

### Model:

- Taper male thread R

d [mm]	R [inch]	PN	Code	kg	L [mm]	G [inch]	s [mm]
20	1/2	16	724 630 906	0.085	43	1	25
25	3/4	16	724 630 907	0.147	49	1 1/4	31
32	1	16	724 630 908	0.210	53	1 1/2	38
40	1 1/4	16	724 630 909	0.315	58	2	47
50	1 1/2	16	724 630 910	0.411	62	2 1/4	53
63	2	16	724 630 911	0.665	71	2 3/4	66
75	2 1/2	16	724 630 912	0.897	78	3 1/4	82
90	3	16	724 630 913	1.146	87	4	96

20 60 02



## Union end brass Rp

### Model:

- Union End: Brass with parallel female thread Rp

d [mm]	Rp [inch]	Code	SP	GP	kg	D [mm]	D1 [mm]	z [mm]	L [mm]	s [mm]
20	1/2	720 600 236	1	-	0.059	30	28	5	22	25
25	3/4	720 600 237	1	-	0.100	39	36	6	25	30
32	1	720 600 238	1	-	0.128	45	42	6	27	36
40	1 1/4	720 600 239	1	-	0.232	56	53	7	31	46
50	1 1/2	720 600 240	1	-	0.324	62	59	7	35	55
63	2	720 600 241	1	-	0.510	78	74	8	40	65
75	2 1/2	720 600 242	1	-	0.941	100	92	10	47	85
90	3	720 600 243	1	-	1.395	121	110	11	52	95

20 60 02



## Union end brass R

### Model:

- Union End: Brass with taper male thread R

d [mm]	R [inch]	Code	SP	GP	kg	D [mm]	D1 [mm]	L [mm]	z [mm]	s [mm]
20	1/2	720 600 246	1	-	0.098	30	28	37	22	25
25	3/4	720 600 247	1	-	0.151	39	36	42	25	30
32	1	720 600 248	1	-	0.232	45	42	46	28	36
32	1 1/4	720 600 249	1	-	0.408	56	53	52	32	46
50	1 1/2	720 600 250	1	-	0.538	62	59	56	36	55
63	2	720 600 251	1	-	0.859	78	74	67	42	65
75	2 1/2	720 600 252	1	-	1.446	100	92	77	49	85
90	3	720 600 253	1	-	2.063	121	110	86	54	95

21 69 00

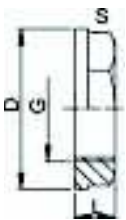


## Union Nuts, PVC-U

\* for Adaptor unions PVC-U / malleable iron only

d [mm]	PN	Code	SP	GP	kg	D [mm]	L [mm]	G [inch]	Tr
10 - 12	16	721 690 004	-	-	0.009	31	19	5/8	
16	16	721 690 005	-	-	0.013	35	21	3/4	
20	16	721 690 006	-	-	0.020	43	23	1	
25	16	721 690 007	-	-	0.022	51	24	1 1/4	
32	16	721 690 008	-	-	0.031	58	26	1 1/2	
40	16	721 690 009	-	-	0.050	72	29	2	
50	16	721 690 010	-	-	0.087	83	34	2 1/4	
63	16	721 690 011	-	-	0.130	100	38	2 3/4	
75	10	721 690 012	-	-	0.130	135	40		Tr 108x5
90	10	721 690 013	-	-	0.355	158	43		Tr 128x5
110	10	721 690 014	-	-	0.575	188	48		Tr 154x6

61 49 06



## Backing Nut, PVC-U

### Model:

- With G thread ISO 228/1
- For Tank Adaptor Type 050

G [inch]	Code	SP	GP	kg	D [mm]	L [mm]	s [mm]
3/4	161 490 630	400	-	0.007	39	13	32
1	161 490 632	200	-	0.012	48	15	40
1 1/4	161 490 634	100	-	0.020	58	17	50
1 1/2	161 490 635	100	-	0.025	65	18	56
1 3/4	161 490 636	75	-	0.036	72	19	64
2	161 490 637	50	-	0.044	79	21	69
2 1/4	161 490 638	50	-	0.053	86	21	76
2 1/2	161 490 639	25	-	0.063	94	23	85
2 3/4	161 490 640	25	-	0.080	106	25	95
3	161 490 641	20	-	0.101	112	26	100
4	161 490 644	10	-	0.164	139	32	126

24 69 01

**Union nut stainless steel 1.4404 (316L)**

\* Octagon union nut



d [mm]	PN	Code	SP	GP	kg	L [mm]	G [inch]	s [mm]	closest inch
16	16	724 690 105	-	-	0.060	19	¾	32	¾
20	16	724 690 106	-	-	0.110	21	1	41	½
25	16	724 690 107	-	-	0.100	23	1 ¼	46	¾
32	16	724 690 108	-	-	0.170	24	1 ½	55	1
* 40	16	724 690 109	-	-	0.240	27	2	68	1 ¼
* 50	16	724 690 110	-	-	0.300	31	2 ¼	74	1 ½
* 63	16	724 690 111	-	-	0.390	35	2 ¾	88	2

20 69 00

**Union nut brass**

20 69 04

• d12 - d20 for tap connector No. 21 55 03



d [mm]	G [inch]	PN	Code	SP	GP	kg	L [mm]	s [mm]
16	½	16	720 690 405	-	-	0.026	16	24
16	¾	16	720 690 005	1	-	0.042	17	30
20	1	16	720 690 006	1	-	0.060	19	38
25	1 ¼	16	720 690 007	1	-	0.108	20	47
32	1 ½	16	720 690 008	1	-	0.105	22	52
40	2	16	720 690 009	1	-	0.199	25	66
50	2 ¼	16	720 690 010	1	-	0.268	25	72
63	2 ¾	16	720 690 011	1	-	0.280	27	87
75	3 ½	16	720 690 012	1	-	0.675	34	110

EPDM 48 41 00

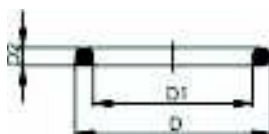
**O-Ring Gaskets**

FPM 49 41 00

**Model:**

- For unions and adaptor unions
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FPM minimum temperature -15°C

\* for unions PVC-U, PVC-C and ABS: 21 51 01, 21 51 11, 21 53 03, 21 53 08, 21 55 04, 21 55 13, 21 55 18, 23 51 01 and 29 51 01 only



d [mm]	DN [mm]	EPDM Code	FPM Code	SP	GP	kg	D [mm]	D1 [mm]	D2 [mm]	closest inch
10 - 12	8	748 410 004	749 410 004	-	-	0.002	18	12	2.62	¼
16	10	748 410 005	749 410 005	-	-	0.002	21	16	2.62	⅜
20	15	748 410 006	749 410 006	-	-	0.002	27	20	3.53	½
25	20	748 410 007	749 410 007	100	1400	0.002	35	28	3.53	¾
32	25	748 410 008	749 410 008	100	-	0.002	40	33	3.53	1
40	32	748 410 009	749 410 009	-	-	0.006	51	41	5.34	1 ¼
50	40	748 410 010	749 410 010	-	-	0.007	58	47	5.34	1 ½
63	50	748 410 011	749 410 011	100	3500	0.010	70	60	5.34	2
75	65	748 410 014	749 410 014	100	600	0.012	93	82	5.34	2 ½
90	80	748 410 015	749 410 015	100	600	0.015	112	101	5.34	3
110	100	748 410 016	749 410 016	50	200	0.031	134	120	6.99	4

EPDM 48 40 00  
FPM 49 40 00

## Flat Gaskets



d [mm]	Inch	EPDM Code	FPM Code	kg	D [mm]	D1 [mm]	H [mm]
12	1/4	748 400 004	-	0.002	20	13	2
16	3/8	748 400 005	749 400 005	0.002	24	17	2
20	1/2	748 400 006	749 400 006	0.003	30	21	3
25	3/4	748 400 007	749 400 007	0.004	38	27	3
32	1	748 400 008	749 400 008	0.002	44	32	3
40	1 1/4	748 400 009	749 400 009	0.003	55	42	3
50	1 1/2	748 400 010	749 400 010	0.004	62	46	3
63	2	748 400 011	749 400 011	0.006	78	60	3
75	2 1/2	748 400 012	749 400 012	0.009	97	75	3
90	3	748 400 013	749 400 013	0.011	109	88	3

EPDM 48 40 02

## Flat Gaskets



### Model:

- Hardness approx. 65° Shore
- For tap connectors No. 21 55 03

### Attention:

- For tap connector d16 - 1/2": 748 400 030
- For tap connector d20 - 3/4": 748 400 005
- For tap connector d25 - 1": 748 400 006

EPDM Code	SP	GP	kg	D [mm]	D1 [mm]	H [mm]
748 400 030	-	-	0.003	18	14	2
748 400 005	1	-	0.001	24	17	2
748 400 006	1	-	0.003	30	21	3

# Unions Inch BS

21 51 11



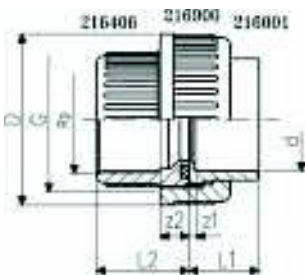
## Union for solvent cement jointing PVC-U Inch BS

### Model:

- Union End: Solvent cement socket BS Inch
- Union Bush: Solvent cement socket BS Inch
- Gasket: O-Ring EPDM No. 48 41 00, FPM No. 49 41 00

d [inch]	PN	EPDM Code	FPM Code	SP	GP	kg	z1 [mm]	z2 [mm]	D [mm]	L1 [mm]	L2 [mm]	G/Tr
3/8	15	721 511 105	721 511 130	-	-	0.025	3	8	35	19	24	3/4
1/2	15	721 511 106	721 511 131	-	-	0.040	3	9	43	21	26	1
3/4	15	721 511 107	721 511 132	-	-	0.064	3	9	51	24	29	1 1/4
1	15	721 511 108	721 511 133	10	50	0.088	3	9	58	27	33	1 1/2
1 1/4	15	721 511 109	721 511 134	-	-	0.049	3	10	72	32	39	2
1 1/2	15	721 511 110	721 511 135	-	-	0.204	3	10	83	33	46	2 1/4
2	15	721 511 111	721 511 136	10	-	0.366	3	10	100	40	58	2 3/4
2 1/2	10	721 510 112	721 510 137	2	-	0.615	3	18	135	47	62	Tr108x5

21 51 12



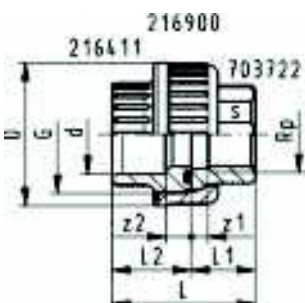
## Adaptor union PVC-U Inch BS Rp

### Model:

- Union End: Solvent cement socket BS Inch
- Union Bush: Parallel female thread Rp
- Gasket: O-Ring No. 48 41 00
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U

d [inch]	Rp [inch]	PN	Code	SP	GP	kg	z1 [mm]	z2 [mm]	D [mm]	L1 [mm]	L2 [mm]	G [inch]
3/8	3/8	10	721 511 205	-	-	0.025	3	13	35	17	24	3/4
1/2	1/2	10	721 511 206	10	80	0.042	3	13	43	19	26	1
3/4	3/4	10	721 511 207	-	-	0.068	3	14	51	22	29	1 1/4
1	1	10	721 511 208	-	-	0.094	3	15	58	25	32	1 1/2
1 1/4	1 1/4	10	721 511 209	-	-	0.168	3	19	72	29	38	2
1 1/2	1 1/2	10	721 511 210	-	-	0.223	3	26	83	34	45	2 1/4
2	2	10	721 511 211	5	-	0.405	3	33	100	41	56	2 3/4

21 53 13



## Adaptor union PVC-U/malleable iron Inch BS Rp



### Model:

- Union nut: PVC-U
- Union Bush: Solvent cement socket BS Inch
- Union End: malleable iron with parallel female thread Rp
- Gasket: O-Ring EPDM No. 48 41 00

d [inch]	Rp [inch]	Code	SP	GP	kg	D [mm]	L [mm]	L1 [mm]	L2 [mm]	z1 [mm]	z2 [mm]	G [inch]	s [mm]
1/2	1/2	721 531 306	10	7	0.120	43	48	22	26	9	10	1	25
3/4	3/4	721 531 307	5	10	0.190	51	51	22	29	7	10	1 1/4	31
1	1	721 531 308	2	18	0.250	58	58	26	33	9	10	1 1/2	38
1 1/4	1 1/4	721 531 309	2	8	0.400	72	69	31	39	12	12	2	48
1 1/2	1 1/2	721 531 310	2	7	0.510	83	78	33	46	14	14	2 1/4	54
2	2	721 531 311	5	10	0.780	100	91	35	58	11	18	2 3/4	67
2 1/2	2 1/2	721 530 312	2	-	1.100	127	101	39	62	12	18	Tr 108x5	85
3	3	721 531 313	2	-	1.740	150	114	45	69	15	19	Tr 128x5	96

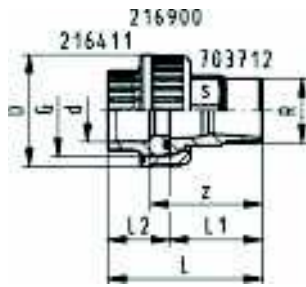
21 53 18

## Adaptor union PVC-U/malleable iron Inch BS R



**Model:**

- Union nut: PVC-U
- Union Bush: Solvent cement socket BS Inch
- Union End: Malleable iron with taper male thread R
- Gasket: O-Ring EPDM No. 48 41 00



d [inch]	R [inch]	Code	SP	GP	kg	D [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]	G [inch]	s [mm]
1/2	1/2	721 531 806	1	1	0.156	43	66	40	26	50	1	25
3/4	3/4	721 531 807	1	1	0.230	51	72	43	29	53	1 1/4	31
1	1	721 531 808	1	1	0.330	58	80	48	33	58	1 1/2	38
1 1/4	1 1/4	721 531 809	1	1	0.480	72	95	57	39	69	2	48
1 1/2	1 1/2	721 531 810	1	1	0.683	83	104	59	46	73	2 1/4	54
2	2	721 531 811	8	5	1.082	100	118	62	58	80	2 3/4	67
	2 1/2	721 530 812	2	2	1.360	127	137	75	62	93	Tr 108x5	85
3	3	721 531 813	1	2	2.035	150	149	80	69	99	Tr 128x5	96

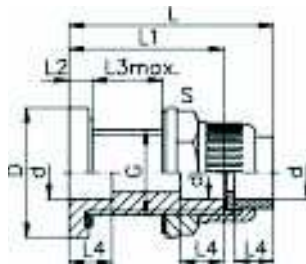
61 05 02

## Tank adaptor PVC-U Inch BS



**Model:**

- End connection: Union with solvent cement socket BS Inch
- Gasket: flat gasket EPDM



d [inch]	Code Code	SP	GP	kg
3/8	161 050 225	-	-	0.040
1/2	161 050 226	-	-	0.070
3/4	161 050 227	1	-	0.100
1	161 050 228	-	-	0.196
1 1/4	161 050 229	1	-	0.240
1 1/2	161 050 230	1	-	0.350
2	161 050 231	1	-	0.530

d [inch]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 max [mm]	L4 [mm]	G [inch]	s [mm]	Diameter of bore in tank side [mm]
3/8	44	85	65	10	32	14	3/4"	33	28
1/2	56	89	67	11	30	16	1"	46	35
3/4	65	97	72	12	32	19	1 1/4"	50	43
1	70	103	75	12	33	22	1 1/2"	60	49
1 1/4	95	111	78	12	32	26	2"	80	61
1 1/2	95	119	82	13	32	31	2 1/4"	80	67
2	115	131	87	13	33	38	2 3/4"	95	83

61 10 87

## Tank adaptor PVC-U Inch BS



**Model:**

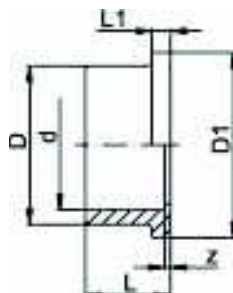
- With solvent cement socket BS Inch and parallel female thread G
- Gasket: flat gasket EPDM



d [inch]	PN	Code Code	SP	GP	kg	h [mm]	I1 [mm]	I2 [mm]	a [mm]	G [inch]
1/2	15	161 108 706	-	-	0.050	37	34	24	23	1/2
3/4	15	161 108 707	-	-	0.048	42	34	29	28	3/4

# Flange Adaptors and Flanges metric

21 79 01



## Flange Adaptors, PVC-U Jointing face serrated, metric

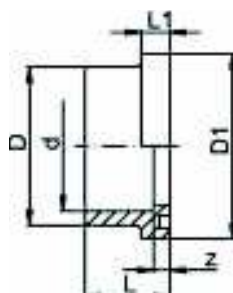
### Model:

- Solvent cement socket metric
- d16 - d50: Jointing face flat
- d63 - d400: Combined Jointing face flat and serrated
- Gasket: Profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07 or Flat gasket EPDM No. 48 40 03  
Only use O-ring EPDM No. 48 41 01, FPM No. 49 41 01 in combination with counterpart Flange Adaptor No. 21 81 01
- Flange: PVC-U No. 21 70 00, PP with steel ring No. 27 70 02, Backing Flange PP-V for socket systems metric No. 27 70 04

**Note: The flat gasket affects the maximum allowable operating pressure!**

d [mm]	d [inch]	DN [mm]	PN	Code	SP	GP	kg	z [mm]	D [mm]	D1 [mm]	L [mm]	L1 [mm]
63	2 ½	50	16	721 790 111	10	50	0.103	3	77	90	41	9
75		65	16	721 790 112	10	-	0.155	3	91	106	47	10
90		80	16	721 790 113	10	-	0.254	5	108	125	56	11
110		100	16	721 790 114	10	-	0.418	5	131	150	66	12
125	5	100	16	721 790 115	5	-	0.548	5	148	170	74	13
140		125	16	721 790 116	6	-	0.740	5	165	188	81	14
160		150	16	721 790 117	2	-	1.077	5	188	213	91	16
200		200	10	721 790 119	2	-	1.476	6	224	250	112	24
225		200	10	721 790 120	2	-	1.758	6	248	274	125	25
250		250	10	721 790 121	1	-	2.150	9	274	303	140	23
280		250	10	721 790 122	1	1	2.895	5	308	329	151	23
315		300	6	721 790 123	1	1	4.450	8	346	379	172	27
355	350	6	721 790 124	1	-	5.800	10	384	430	194	32	
400	400	6	721 790 125	1	-	8.900	10	438	482	216	34	

21 81 01



## Flange Adaptors, PVC-U Jointing face with O-ring groove, metric

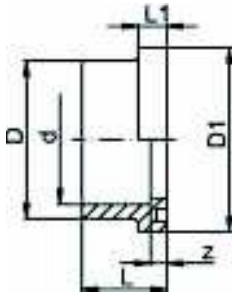
### Model:

- Solvent cement socket metric
- Counterpart: Flange Adaptor flat No. 21 80 01  
Combined Flange Adaptor (d160, d200, d225, d280, d315)
- Gasket: O-ring EPDM No. 48 41 01, FPM No. 49 41 01
- Flange: PVC-U No. 21 70 00, PP/Steel Nr. 27 70 02, PP-V for socket systems metric No. 27 70 04

d [mm]	DN [mm]	d [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	D1 [mm]	L [mm]	L1 [mm]
16	10		16	721 810 105	10	100	0.008	6	22	29	20	9
20	15		16	721 810 106	100	-	0.011	6	27	34	22	9
25	20		16	721 810 107	10	100	0.018	6	33	41	25	10
32	25		16	721 810 108	10	100	0.027	6	41	50	28	10
40	32		16	721 810 109	10	100	0.045	8	50	61	34	13
50	40		16	721 810 110	10	50	0.068	8	61	73	39	13
63	50		16	721 810 111	10	50	0.120	8	77	90	46	14
75	65	2 ½	16	721 810 112	10	-	0.182	8	91	106	52	15
90	80		16	721 810 113	10	-	0.291	10	108	125	61	16

table continued next page





d [mm]	DN [mm]	d [inch]	PN	Code	SP	GP	kg	z [mm]	D [mm]	D1 [mm]	L [mm]	L1 [mm]
110	100		16	721 810 114	10	-	0.468	11	131	150	72	18
125	100		16	721 810 115	5	-	0.753	11	148	170	80	19
140	125	5	16	721 810 116	6	-	0.830	11	165	188	87	20
160	150		16	721 810 117	2	-	1.180	11	188	213	97	22
200	200		10	721 810 119	2	-	1.593	12	224	250	118	30
225	200		10	721 810 120	2	-	1.895	12	248	274	131	31
250	250		10	721 810 121	1	-	2.150	9	274	303	140	23
280	250		10	721 810 122	1	-	3.100	13	308	329	158	30
315	300		6	721 810 123	1	-	4.830	17	346	379	180	35

21 70 00

## Backing flange PVC-U metric

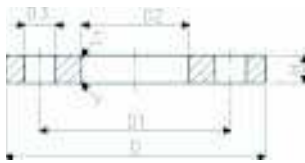
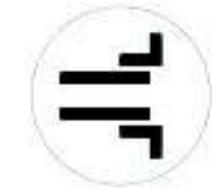
### Model:

- For socket systems
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- Maximum medium- or ambient temperature 45 °C
- **Bolt circle PN 10**

<sup>1</sup> Connecting dimension: ISO 2536, bolt circle acc. DN125, suitable for flange adaptor d125/DN100

<sup>2</sup> Connecting dimension: ISO 2536, bolt circle acc. DN225, suitable for flange adaptor d250/DN250

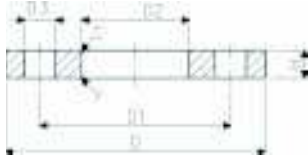
AL: number of holes



d [mm]	DN [mm]	Inch	PN	Code	GP	kg
16	10	3/8	10	721 700 005	-	0.055
20	15	1/2	10	721 700 006	-	0.069
25	20	3/4	10	721 700 007	-	0.092
32	25	1	10	721 700 008	-	0.132
40	32	1 1/4	10	721 700 009	-	0.194
50	40	1 1/2	10	721 700 010	-	0.245
63	50	2	10	721 700 011	-	0.311
75	65	2 1/2	10	721 700 012	-	0.375
90	80	3	10	721 700 013	-	0.471
110	100	4	10	721 700 014	-	0.554
<sup>1</sup> 125	125	4 1/2	10	721 700 015	-	0.995
140	125	5	10	721 700 016	-	0.746
200	200	7	10	721 700 019	-	1.658
225	200	8	10	721 700 020	-	1.380
250	250	9	6	721 700 021	-	1.700
<sup>2</sup> 250	225	9	6	721 700 136	-	1.700
280	250	10	6	721 700 137	-	1.730
315	300	12	6	721 700 138	-	2.350
355	350	14	6	721 700 139	-	3.400
400	400	16	6	721 700 140	-	4.500

d [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	r [mm]	AL	SC
16	90	60	23	14	10	1	4	M12
20	95	65	28	14	11	1	4	M12
25	105	75	34	14	12	2	4	M12
32	115	85	42	14	14	2	4	M12
40	140	100	51	18	15	2	4	M16
50	150	110	62	18	16	2	4	M16
63	165	125	78	18	18	3	4	M16
75	185	145	92	18	19	3	4	M16
90	200	160	110	18	20	3	8	M16
110	220	180	133	18	22	3	8	M16
<sup>1</sup> 125	250	210	150	18	26	5	8	M16
140	250	210	167	18	26	4	8	M16
200	340	295	226	22	32	4	8	M20
225	340	295	250	22	32	4	8	M20
250	395	350	277	22	36	4	12	M20
<sup>2</sup> 250	370	325	277	22	36	4	8	M20
280	395	350	310	22	36	4	12	M20
315	445	400	348	22	36	4	12	M20
355	505	460	388	22	38	5	16	M20
400	565	515	442	26	42	5	16	M24

21 70 22



## Backing Flanges, PVC-U Inch ASTM / ANSI

### Model:

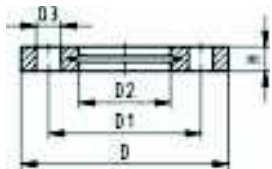
- For socket systems
- For Flange Adaptors BS/ANSI
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**

\* Only for use with metric flange adaptors

AL: number of holes

Inch	DN [mm]	d [mm]	PN	Code	SP	GP	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	r [mm]	AL
1/2	15		10	721 702 206	90	-	0.067	95	60	28	16	11	1	4
3/4	20		10	721 702 207	50	-	0.088	105	70	34	16	12	2	4
1	25		10	721 702 208	40	-	0.128	115	79	42	16	14	2	4
1 1/4	32		10	721 702 209	25	-	0.204	140	89	51	16	15	2	4
1 1/2	40		10	721 702 210	20	-	0.253	150	98	62	16	16	2	4
2	50		10	721 702 211	30	-	0.305	165	121	78	19	18	3	4
2 1/2	65		10	721 702 212	27	-	0.382	185	140	92	19	19	3	4
3	80		10	721 702 213	20	-	0.498	200	152	110	19	20	3	4
4	100		10	721 702 214	-	-	0.515	220	190	138	19	22	3	8
* 4	100	110	10	161 483 180	30	-	0.563	220	190	133	19	22	3	8
5	125		10	721 702 216	12	-	0.727	250	216	167	22	26	4	8
6	150		10	721 702 217	9	-	1.910	285	241	200	22	28	4	8
8	200		10	721 702 220	8	-	1.349	340	298	250	22	32	4	8

27 70 04  
27 70 05



## Backing Flanges, PP-V For socket systems metric

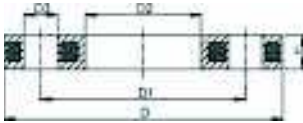
### Model:

- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt retainers as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**

AL: number of holes

d [mm]	Inch	DN [mm]	PN	Code	SP	GP	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
20		15	16	727 700 406	56	-	0.080	95	65	28	14	16	4	M12
25		20	16	727 700 407	38	-	0.100	105	75	34	14	17	4	M12
32		25	16	727 700 408	80	-	0.140	115	85	42	14	18	4	M12
40		32	16	727 700 409	40	-	0.220	140	100	51	18	20	4	M16
50		40	16	727 700 410	30	-	0.210	150	110	62	18	22	4	M16
63		50	16	727 700 411	25	-	0.380	165	125	78	18	24	4	M16
75		65	16	727 700 412	19	-	0.480	185	145	92	18	26	4	M16
90		80	16	727 700 413	15	-	0.520	200	160	110	18	27	8	M16
110		100	16	727 700 414	13	-	0.680	220	180	133	18	28	8	M16
140		125	16	727 700 416	10	-	0.800	250	210	167	18	30	8	M16
160	6	150	16	727 700 417	-	-	1.200	285	241	190	22	32	8	M20
200		200	16	727 700 419	-	-	1.500	340	296	226	22	34	8	M20
225	8	200	16	727 700 420	-	-	1.400	340	295	250	22	34	8	M20
250		250	16	727 700 421	-	-	1.700	395	350	277	22	38	12	M20
280		250	16	727 700 422	-	-	1.700	395	350	310	22	38	12	M20
315		300	16	727 700 423	-	-	2.400	445	400	348	22	42	12	M20
355		350	10	727 700 424	-	-	3.000	515	460	388	22	46	16	M20
400		400	10	727 700 425	-	-	3.500	574	515	442	26	50	16	M24

27 70 02



## Backing flange PP-Steel For socket systems metric

### Model:

- PP-GF (30% glass-fibre reinforced) with steel ring
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**

<sup>1</sup> Connecting dimension: ISO 2536, bolt circle acc. DN125, suitable for flange adaptor d125/DN100

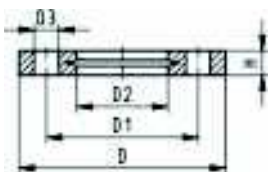
<sup>2</sup> Connecting dimension: ISO 2536, bolt circle acc. DN225, suitable for flange adaptor d250/DN250

AL: number of holes

d [mm]	d [inch]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
20		15	16	727 700 206	0.220	95	65	28	14	12	4	M12
25		20	16	727 700 207	0.260	105	75	34	14	12	4	M12
32		25	16	727 700 208	0.430	115	85	42	14	16	4	M12
40		32	16	727 700 209	0.650	140	100	51	18	16	4	M16
50		40	16	727 700 210	0.820	150	110	62	18	20	4	M16
63		50	16	727 700 211	0.940	165	125	78	18	20	4	M16
75		65	16	727 700 212	1.300	185	145	92	18	20	4	M16
90		80	16	727 700 213	1.400	200	160	110	18	20	8	M16
110		100	16	727 700 214	1.560	220	180	133	18	20	8	M16
125		125	16	727 700 215	2.590	250	210	150	18	24	8	M16
140		125	16	727 700 216	2.120	250	210	167	18	24	8	M16
160	6	150	16	727 700 217	3.390	285	240	190	22	24	8	M20
200		200	16	727 700 219	5.850	340	295	226	22	27	8	M20
225		200	16	727 700 220	4.410	340	295	250	22	27	8	M20
250		250	16	727 700 021	8.340	395	350	277	22	30	12	M20
250		225	16	727 700 221	8.340	395	325	277	22	30	8	M20
280		250	16	727 700 222	5.520	395	350	310	22	30	12	M20
315		300	16	727 700 223	7.600	445	400	348	22	34	12	M20
355		350	16	727 700 224	13.960	515	460	388	23	40	16	M20
400		400	16	727 700 225	17.380	574	515	442	26	40	16	M24

27 70 14

27 70 15



## Backing Flanges, PP-V For socket systems Inch/ANSI

### Model:

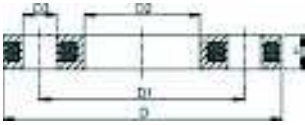
- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt-fixing as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**

<sup>1</sup>) Suitable for socket- and butt fusion systems (no pictograph on flange)

AL: number of holes

Inch	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
1/2	15	16	727 701 406	0.080	95	60	28	16	16	4	M12
3/4	20	16	727 701 407	0.100	105	70	34	16	17	4	M12
1	25	16	727 701 408	0.140	115	79	42	16	18	4	M12
1 1/4	32	16	727 701 409	0.220	140	89	51	16	20	4	M16
1 1/2	40	16	727 701 410	0.210	150	98	62	16	22	4	M16
2	50	16	727 701 411	0.380	165	121	78	19	24	4	M16
2 1/2	65	16	727 701 412	0.480	185	140	92	19	26	4	M16
3	80	16	727 701 413	0.520	200	152	110	19	27	4	M16
4	100	16	727 701 414	0.680	229	190	133	19	28	8	M16
6	150	16	727 700 417	1.200	285	241	190	22	32	8	M20
10	250	16	727 701 422	1.700	406	362	310	26	38	12	M20
12	300	16	727 701 423	2.400	483	432	348	26	42	12	M20

27 70 12



## Backing flange PP-Steel For socket systems Inch/ANSI

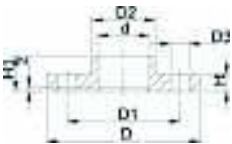
### Model:

- For Flange Adaptors BS/ANSI
- Material: PP (30 % glass-fibre reinforced) with steel ring
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**
- DN100 and DN150: only for use with original metric flange adaptors

AL: number of holes

d [inch]	DN [mm]	d [mm]	PN	Code	GP	kg	D1 [mm]	D2 [mm]	D3 [mm]	D [mm]	H [mm]	AL
1/2	15	20	16	727 701 206	-	0.210	60	28	16	95	12	4
3/4	20	25	16	727 701 207	-	0.250	70	34	16	105	12	4
1	25	32	16	727 701 208	-	0.420	79	42	16	115	16	4
1 1/4	32	40	16	727 701 209	-	0.670	89	51	16	140	16	4
1 1/2	40	50	16	727 701 210	-	0.860	98	62	16	150	18	4
2	50	63	16	727 701 211	-	0.930	121	78	19	165	18	4
2 1/2	65	75	16	727 701 212	-	1.340	140	92	19	185	18	4
3	80	90	16	727 701 213	-	1.550	152	110	19	200	20	4
4	100	110	16	727 701 214	-	1.810	190	133	19	229	20	8
8	200	200	16	727 701 220	-	4.410	298	250	22	340	27	8

21 73 02



## Fixed Flanges, PVC-U Jointing face flat, metric

### Model:

- Solvent cement socket metric
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10
- **Bolt circle PN 10**

\* Combined Flange, connecting dimensions EN1092 PN 10 and ANSI B 16.5 Class 150

d [mm]	DN [mm]	Inch	PN	Code	GP	kg
20	15	1/2	16	721 730 206	-	0.105
25	20	3/4	16	721 730 207	-	0.130
32	25	1	16	721 730 208	-	0.183
40	32	1 1/4	16	721 730 209	-	0.305
50	40	1 1/2	16	721 730 210	-	0.365
63	50	2	16	721 730 211	-	0.510
* 75	65	2 1/2	10	721 730 212	-	0.520
* 90	80	3	10	721 730 213	-	0.720
* 110	100	4	10	721 730 214	-	0.920
* 140	125	5	10	721 730 216	-	1.380
* 160	150	6	10	721 730 217	-	2.020

d [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	z [mm]	H [mm]	H1 [mm]	AL	SC
20	95	65	27	14	3	12	19	4	M12
25	105	75	33	14	3	13	22	4	M12
32	115	85	41	14	3	14	25	4	M12
40	140	100	51	18	3	17	29	4	M16
50	150	110	62	18	3	17	34	4	M16
63	165	125	77	18	3	20	41	4	M16
* 75	185	142	91	22	3	21	47	4	M20
* 90	200	156	108	22	5	22	56	8	M20
* 110	220	186	131	24	5	24	66	8	M20
* 140	250	215	165	23	5	28	91	8	M20
* 160	285	240	188	23	5	30	91	8	M20

21 74 01

## Fixed Flanges, PVC-U Jointing face serrated, metric

**Model:**

- Solvent cement socket metric
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10
- **Bolt circle PN 10**

\* Combined Flange, connecting dimensions EN1092 PN 10 and ANSI B 16.5 Class 150  
d75 - d110: bolt hole as long hole version

AL: number of holes

d [mm]	DN [mm]	d [inch]	PN	Code	GP	kg
20	15		16	<b>721 740 106</b>	-	0.100
25	20		16	<b>721 740 107</b>	-	0.130
32	25		16	<b>721 740 108</b>	-	0.185
40	32		16	<b>721 740 109</b>	-	0.305
50	40		16	<b>721 740 110</b>	-	0.368
63	50		16	<b>721 740 111</b>	-	0.510
* 75	65	2 ½	10	<b>721 740 112</b>	-	0.520
* 90	80	3	10	<b>721 740 113</b>	-	0.720
* 110	100	4	10	<b>721 740 114</b>	-	0.920
* 140	125	5	10	<b>721 740 116</b>	-	1.380
* 160	150	6	10	<b>721 740 117</b>	-	2.020

d [mm]	D [mm]	D1 [mm]	D1 max. [mm]	D1 min. [mm]	D2 [mm]	D3 [mm]	H [mm]	H1 [mm]	z [mm]	AL	SC
20	95	65			27	14	12	19	3	4	M12
25	105	75			33	14	13	22	3	4	M12
32	115	85			41	14	14	25	3	4	M12
40	140	100			51	18	17	29	3	4	M16
50	150	110			62	18	17	34	3	4	M16
63	165	125			77	18	20	41	3	4	M16
* 75	185		139.5	144.0	91	19	21	47	3	4	M16
* 90	200		152.5	159.0	108	19	22	56	5	8	M16
* 110	220		181.0	190.5	131	24	24	66	5	8	M20
* 140	250	215			165	23	28	91	5	8	M20
* 160	285	240			188	23	30	91	5	8	M20



## Blanking Flanges, PVC-U Jointing face serrated, metric

**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- **d63 to d160: combined jointing face (serrated and flat)**
- d250: connecting dimension: ISO 2536
- **Bolt circle PN 10**

\* Combined Flange, connecting dimensions EN1092 PN 10 and ANSI B 16.5 Class 150  
d20 - d110: bolt hole as long hole version

AL: number of holes



d [mm]	DN [mm]	Inch	PN	Code	GP	kg
* 20	15	1/2	10	<b>721 700 506</b>	-	0.075
* 25	20	3/4	10	<b>721 700 507</b>	-	0.097
* 32	25	1	10	<b>721 700 508</b>	-	0.145
* 40	32	1 1/4	10	<b>721 700 509</b>	-	0.222
* 50	40	1 1/2	10	<b>721 700 510</b>	-	0.278
* 63	50	2	10	<b>721 700 511</b>	-	0.380
* 75	65	2 1/2	10	<b>721 700 512</b>	-	0.534
* 90	80	3	10	<b>721 700 513</b>	-	0.667
* 110	100	4	10	<b>721 700 514</b>	-	0.872
* 140	125	5	10	<b>721 700 516</b>	-	1.312
* 160	150	6	10	<b>721 700 517</b>	-	1.730
225	200	8	10	<b>721 700 520</b>	-	2.600
250	250	10	10	<b>721 700 521</b>	-	3.300
280	250	10	10	<b>721 700 522</b>	-	4.650
315	300	12	6	<b>721 700 523</b>	-	5.750
355	350	14	6	<b>721 700 524</b>	-	6.800
400	400	16	6	<b>721 700 525</b>	-	9.000

d [mm]	D [mm]	D1 [mm]	D1 min. [mm]	D1 max. [mm]	D2 [mm]	D3 [mm]	D4 [mm]	H [mm]	H1 [mm]	AL
* 20	95		61.0	63.0	34	16	15	15	12	4
* 25	105		70.0	73.0	41	16	20	16	13	4
* 32	115		79.0	83.0	50	16	25	19	15	4
* 40	140		91.0	100.0	61	18	34	20	16	4
* 50	150		101.0	110.0	74	18	44	22	17	4
* 63	165		121.0	124.0	91	19	57	25	20	4
* 75	185		140.0	145.0	106	22	69	29	21	4
* 90	200		152.0	160.0	125	22	82	32	22	8
* 110	220		180.0	191.0	150	24	102	36	24	8
* 140	250	215			184	23	120	41	28	8
* 160	285	240			212	23	152	45	30	8
225	340	295			273	22	213	63	36	8
250	370	325			303	22	238	63	36	8
280	395	350			328	22	266	65	36	12
315	445	400			378	22	299	65	36	12
355	505	460			430	22	341	67	38	16
400	565	515			482	26	384	71	42	16

## Flange adaptors Inch BS

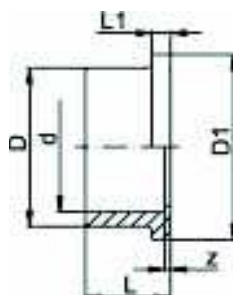
21 79 11



### Flange adaptor PVC-U Combined jointing face flat and serrated Inch BS

**Model:**

- Counterpart:  
Flange Adaptor serrated BS Inch No. 21 79 11  
Flange Adaptor flat BS inch No. 21 80 11  
Flange Adaptor serrated metric No. 21 79 01
- Gasket: Flat gasket EPDM No. 48 40 03



d [inch]	DN [mm]	PN	Code	SP	GP	kg	z [mm]	D [mm]	D1 [mm]	L [mm]	L1 [mm]
1/2	15	15	<b>721 791 106</b>	10	100	0.010	3	27	34	21	6
3/4	20	15	<b>721 791 107</b>	-	-	0.015	3	33	41	24	7
1	25	15	<b>721 791 108</b>	10	100	0.023	3	41	50	27	7
1 1/4	32	15	<b>721 791 109</b>	-	-	0.036	3	50	61	32	8
1 1/2	40	15	<b>721 791 110</b>	10	50	0.048	3	61	73	33	8
2	50	15	<b>721 791 111</b>	5	50	0.107	3	77	91	40	9
2 1/2	65	16	<b>721 790 112</b>	10	-	0.155	3	91	106	47	10
3	80	15	<b>721 791 113</b>	20	-	0.225	5	108	125	56	11
4	100	15	<b>721 791 115</b>	10	-	0.430	5	136	155	69	12
5	125	16	<b>721 790 116</b>	6	-	0.740	5	165	188	81	14
6	150	15	<b>721 791 117</b>	2	-	1.250	5	198	217	96	16
8	200	9	<b>721 791 120</b>	2	-	2.035	6	248	274	122	20
10	250	9	<b>721 791 122</b>	1	-	3.020	9	307	329	151	23
12	300	6	<b>721 791 123</b>	1	-	3.400	4	346	379	172	27

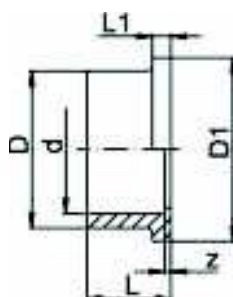
21 80 11



### Flange adaptor PVC-U Jointing face flat Inch BS

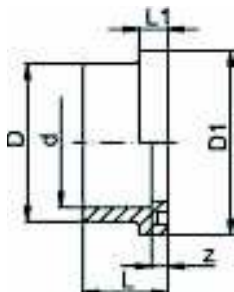
**Model:**

- Counterpart: Flange Adaptor with groove BS Inch No. 21 81 11
- Gasket: Flat gasket No. 48 40 03 EPDM



d [inch]	DN [mm]	PN	Code	SP	GP	kg	z [mm]	D [mm]	D1 [mm]	L [mm]	L1 [mm]
2	50	15	<b>721 801 111</b>	2	50	0.108	3	77	91	41	9
3	80	15	<b>721 801 113</b>	18	-	0.265	5	108	125	56	11
4	100	15	<b>721 801 115</b>	20	-	0.430	5	136	155	69	12
6	150	15	<b>721 801 117</b>	2	-	1.250	5	198	217	96	16
8	200	9	<b>721 801 120</b>	2	-	1.943	6	248	274	122	20

## Flange adaptor PVC-U Jointing face with O-ring groove Inch BS



d [inch]	DN [mm]	PN	Code	SP	GP	kg	z [mm]	D [mm]	D1 [mm]	L [mm]	L1 [mm]
1/2	15	15	<b>721 811 106</b>				6	27	34	21	9
3/4	20	15	<b>721 811 107</b>				6	33	41	24	10
1	32	15	<b>721 811 108</b>				6	41	50	27	10
1 1/4	40	15	<b>721 811 109</b>				8	50	61	32	11
2	50	15	<b>721 811 111</b>	5	50	0.125	8	77	91	46	14
2 1/2	65	16	<b>721 810 112</b>	10	-	0.182	8	91	106	52	15
3	80	15	<b>721 811 113</b>	18	-	0.305	10	108	125	61	16
4	100	15	<b>721 811 115</b>	8	-	0.482	11	136	155	69	18
5	125	16	<b>721 810 116</b>	6	-	0.830	11	165	188	87	20
6	150	15	<b>721 811 117</b>	2	-	1.350	11	198	217	96	22
8	200	9	<b>721 811 120</b>	-	-	2.070	12	248	274	128	26



# Branch and Tapping Saddles

21 111



## Branch Saddle

- Outlet with solvent cement socket metric
- For operating pressure up to 10 bar water
- Top saddle with rubber seal
- Seal: NBR (Nitrile-Rubber) shore hardness: 60 ±5 Shore A

d [mm]	Code	SP	GP	kg	d1 [mm]	d2 [mm]	L [mm]
63	<b>161 111 035</b>	1	1	0.699	40	22	105
63	<b>161 111 036</b>	1	1	0.730	50	22	105
75	<b>161 111 046</b>	1	4	0.797	50	31	105
90	<b>161 111 055</b>	1	12	0.826	40	31	105
90	<b>161 111 056</b>	1	12	0.856	50	31	105
110	<b>161 111 065</b>	1	12	0.935	40	31	105
110	<b>161 111 066</b>	1	12	0.949	50	40	105
110	<b>161 111 067</b>	1	12	0.995	63	40	105
160	<b>161 111 095</b>	1	8	1.430	40	31	120
160	<b>161 111 096</b>	1	8	1.260	50	40	120
160	<b>161 111 097</b>	1	8	1.300	63	40	120
225	<b>161 111 116</b>	1	-	1.587	50	40	120
225	<b>161 111 117</b>	1	-	1.624	63	40	120

21 110 200



## Repair Saddle

- For operating pressure up to 10 bar water
- For repair of damaged pipes
- Saddle halves can be solvent cemented
- Cementing only possible on dry mains without pressure

d [mm]	Code	SP	GP	kg	Max. pipe aperture e [mm]	L [mm]
63	<b>161 110 230</b>	1	4	0.584	39	105
90	<b>161 110 250</b>	1	4	0.678	48	105
110	<b>161 110 260</b>	1	12	0.795	48	105
160	<b>161 110 290</b>	1	8	1.213	60	120
225	<b>161 110 310</b>	1	-	1.340	60	120

# Sensor-Installation Fittings

21 31 20



## Installation fitting type 312 PVC-U metric glue on saddle

### Model:

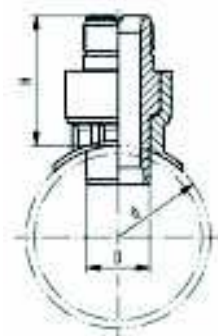
- Material: PVC-U
- Saddle with threaded outlet 1 ¼" NPSM
- Top saddle for solvent cement bonding

### Range of use:

- compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512

### Attention:

- sensor length depends on installation fitting



d [mm]	DN [mm]	PN	Code	SP	GP	kg	D [mm]	H [mm]	Sensor Type
75	65	10	721 312 012	-	-	0.220	38	89	flow X1
90	80	10	721 312 013	-	-	0.225	38	89	flow X1
110	100	10	721 312 014	-	-	0.226	38	89	flow X1
125	100	10	721 312 015	-	-	0.224	38	81	flow X1
140	125	10	721 312 016	-	-	0.211	38	79	flow X1
160	150	10	721 312 017	-	-	0.217	38	76	flow X1
200	200	10	721 312 019	-	-	0.199	38	69	flow X1
225	200	10	721 312 020	-	-	0.301	38	141	flow X2
250	250	10	721 312 021	-	-	0.298	38	137	flow X2
315	300	10	721 312 023	1	-	0.294	38	127	flow X2

21 31 00



## Installation fitting type 310 PVC-U For socket systems metric

### Model:

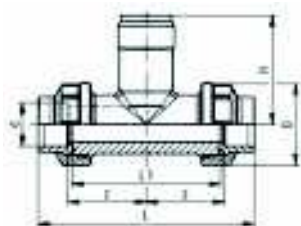
- Material: PVC-U
- Threaded outlet 1 ¼" NPSM
- Union end with solvent cement socket PVC-U

### Range of use:

- compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- compatible signet pH/ORP sensors: type 2724, 2725, 2726

### Attention:

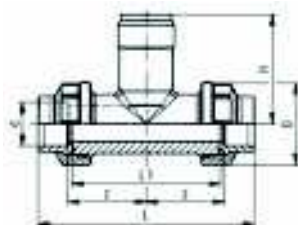
- sensor length depends on installation fitting



d [mm]	DN [mm]	PN	EPDM Code	FPM Code	kg
20	15	16	721 310 006	721 310 036	0.181
25	20	16	721 310 007	721 310 037	0.244
32	25	16	721 310 008	721 310 038	0.333
40	32	16	721 310 009	721 310 039	0.440
50	40	16	721 310 010	721 310 040	0.700
63	50	16	721 310 011	721 310 041	1.011

d [mm]	DN [mm]	D [mm]	z [mm]	L [mm]	L1 [mm]	H [mm]	Sensor Type
20	15	43	48	128	90	76	flow X0, pH XX
25	20	51	53	144	100	78	flow X0, pH XX
32	25	58	58	160	110	81	flow X0, pH XX
40	32	72	58	168	110	85	flow X0, pH XX
50	40	83	63	188	120	89	flow X0, pH XX
63	50	100	68	212	130	95	flow X0, pH XX

21 31 03



## Installation fitting type 310 PVC-U For socket systems Inch BS

**Model:**

- Material: PVC-U
- Threaded outlet 1 ¼" NPSM
- Union end with solvent cement socket PVC-U

**Range of use:**

- compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- compatible signet pH/ORP sensors: type 2724, 2725, 2726

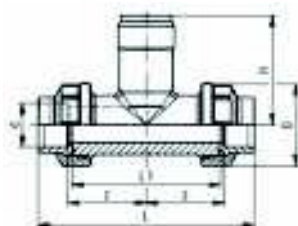
**Attention:**

- sensor length depends on installation fitting

d [inch]	DN [mm]	PN	EPDM Code	FPM Code	kg
½	15	15	721 310 306	721 310 336	0.181
¾	20	15	721 310 307	721 310 337	0.244
1	25	15	721 310 308	721 310 338	0.333
1 ¼	32	15	721 310 309	721 310 339	0.440
1 ½	40	15	721 310 310	721 310 340	0.700
2	50	15	721 310 311	721 310 341	1.011

d [inch]	DN [mm]	D [mm]	z [mm]	L [mm]	L1 [mm]	H [mm]	Sensor Type
½	15	43	48	131	90	76	flow X0, pH XX
¾	20	51	53	147	100	78	flow X0, pH XX
1	25	58	58	164	110	81	flow X0, pH XX
1 ¼	32	72	58	171	110	85	flow X0, pH XX
1 ½	40	83	63	188	120	89	flow X0, pH XX
2	50	100	68	211	130	95	flow X0, pH XX

21 31 04



## Installation fitting type 310 PVC-U for socket systems Inch ASTM

**Model:**

- Material: PVC-U
- Threaded outlet 1 ¼" NPSM
- Union end with solvent cement socket PVC-U

**Range of use:**

- compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- compatible signet pH/ORP sensors: type 2724, 2725, 2726

**Attention:**

- sensor length depends on installation fitting

d [inch]	DN [mm]	PN	EPDM Code	FPM Code	kg
½	15	16	721 310 406	721 310 436	0.181
¾	20	16	721 310 407	721 310 437	0.244
1	25	16	721 310 408	721 310 438	0.333
1 ¼	32	16	721 310 409	721 310 439	0.440
1 ½	40	16	721 310 410	721 310 440	0.700
2	50	16	721 310 411	721 310 441	1.011

d [inch]	DN [mm]	D [mm]	z [mm]	L [mm]	L1 [mm]	H [mm]	Sensor Type
½	15	43	48	140	90	76	flow X0, pH XX
¾	20	51	53	156	100	78	flow X0, pH XX
1	25	58	58	174	110	81	flow X0, pH XX
1 ¼	32	72	58	180	110	85	flow X0, pH XX
1 ½	40	83	63	196	120	89	flow X0, pH XX
2	50	100	68	212	130	95	flow X0, pH XX