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ARMATUREN Handels - GmbH



Thermo Plastic Pressure Pipe Systems

Product Range and Technical Installation Guide
Catalogo Tecnico e Guida all'Installazione

PVCu



Most Widely Used Plastic Material
 Large Choice of Fittings
 Excellent Chemical Resistance
 Rigid Construction

Typical Applications

Industrial Process Systems
 Water Treatment and Chemical Dosing
 Food & Beverage
 Swimming Pools and Spas
 Cold Water Supply

ABS



Wide Temperature Range
 High Impact Strength
 Abrasion Resistance
 Non Toxic

Chilled Water
 Boosted Cold Water
 Plant Rooms
 Chemical & Pharmaceutical

Polypropylene



High Impact Strength
 Good Thermal and Electrical Insulator
 Excellent Chemical Resistance
 High Temperatures (<110°C)

Chemical Process Systems
 Metal Finishing
 Chemical Dosing

All Effast materials are suitable for a number of applications. The table below details common applications and the appropriate Effast materials for that situation

Applications Guide	ABS	PVCu	PP-H	Applications Guide	ABS	PVCu	PP-H	Applications Guide	ABS	PVCu	PP-H
Acids and Alkalis	✓	✓	✓	Effluent Treatment	✓		✓	Marine / Brine	✓		
A/C and Refrigeration	✓			Electro Plating	✓	✓	✓	Pharmaceutical	✓	✓	✓
Biotechnology	✓	✓	✓	Film Processing	✓	✓	✓	Potable Water	✓	✓	
Boosted Cold Water	✓			Food Processing & Beverages	✓			Pulp and Paper	✓		✓
Condensate	✓			Gas			✓	Semi Conductor	✓	✓	✓
Chemical Dosing	✓	✓	✓	Glycol Systems	✓			Slurries	✓		
Chemical Drainage			✓	Hot Cold Water		✓	✓	Sprinklers			
Chilled Water	✓			Hot Corrosive Materials			✓	Swimming Pools	✓	✓	
Compressed Air				Hot Water			✓	Water & Sewage Treatments	✓	✓	✓
De-Mineralised Water	✓	✓	✓	Irrigation	✓	✓		Water Industry	✓	✓	

Materials	Product Range	Size Range	Certifications/Norms	Applications
PVC UH Unplasticized High Density Polyvinyl Chloride	Solvent cement metric british standard fitting	16mm to 315mm 3/8" to 8"	IIP N°099/2005 NF N° 63-1P-01 KIWA 21166/01	Swimming pools - spas
	Adaptor Fittings BS/Metric	1/2" to 4"	EN1452	
	Threaded fittings mix solvent cement + threaded	16mm to 110mm 3/8" to 4"	WRAS-BSI KITE MARK 60041	Agriculture-Irrigation - Foodstuff Industry
	Metric/BS/BSP Threaded ball & check valves	16mm to 110mm 1/2" to 4"	Metric fittings in accordance to ISO 727 - DIN 8063 - EN1452-4	Building Industry low temperature H&C
	Butterfly valves	DN 65 to DN 300 (63mm to 315mm)	NFT 54/028 EN1452-4	Water treatment - potable water supply - effluents
	Electrical & pneumatical ball valves	20mm to 110mm	BS fittings in accordance to BS4346/1 EN1452-4	Chemical processing (-10°C + 60°C)
ABS Acrylonitrile Butadiene Styrene	Electrical & pneumatical butterfly valves	63mm to 315mm	EN1452-4	
	Solvent cement british standard fittings	1/2" to 8"	WRAS - BSI KITE MARK 60042	Food & beverage, water & sewerage treatment
	British standard ball & check valves	3/8" to 4"		Refrigeration - good resistance to diluted inorganic acids.
PPH Polypropylene Homopolymer	Electrical & pneumatical ball valves BS standard	1/2" to 4"	ABS BS fittings in accordance to BS 5392 part 1 and BS 21	Salts, animal fats & oils, organic acids (-40°C + 60°C) -chilled water - air conditioning - vacuum demineralized water
	Fittings for Polyfusion	20mm to 63mm	DIN 16962 UNIPLAST 383	Industrial applications - (chemical & pharmaceutical) good resistance to acids, alkalis, salts, organic solvents
	Threaded fittings	1/2" to 2"		
	Ball valves & check valves Polyfusion - Threaded	20mm to 63mm	DIN 16962 UNIPLAST 383 ISO 228/1	Suitable up to 90°C

PVCu



Il materiale plastico più usato
Ampia scelta di misure di Raccordi
Ottima Resistenza chimica
Elevata rigidità

Applicazioni tipiche

Impianti industriali
Trattamento acque e dosaggio nell'industria chimica
Trasporto liquidi alimentari
Impianti di piscine
Fornitura acqua fredda

ABS



Ampio range di temperatura di utilizzo
Elevata resistenza all'urto
Resistenza all'abrasione
Atossico

Acqua refrigerata
Trasporto acqua fredda
Impianti tecnici
Industria chimica e farmaceutica

Polipropilene



Elevata Resistenza all'urto
Ottime proprietà termiche e di isolamento termico
Eccellente Resistenza chimica
Adatto ad alte Temperature (fino a 110°C)

Impianti chimici
Lavorazione di metalli
Dosatura prodotti chimici

Tutti i prodotti Effast sono compatibili con numerose applicazioni. Lo schema sotto mostra i dettagli delle più comuni applicazioni e il relativo prodotto Effast più indicato.

Guida alle applicazioni	ABS	PVCu	PP-H	Guida alle applicazioni	ABS	PVCu	PP-H	Guida alle applicazioni	ABS	PVCu	PP-H
Acidi e Basi	✓	✓	✓	Trattamenti liquami	✓		✓	Marine	✓		
Impianti di Condizionamento	✓			Galvanica	✓	✓	✓	Farmaceutica	✓	✓	✓
Biotecnologie	✓	✓	✓	Film	✓	✓	✓	Acqua Potabile	✓	✓	
Acqua Fredda	✓			Industria alimentare	✓			Cartiere	✓		✓
Vapore	✓			Gas			✓	Semi conduttori	✓	✓	✓
Dosatura chimica	✓	✓	✓	Trasporto glicole	✓			Produzione malta liquida	✓		
Spurghi chimici			✓	Acqua calda/fredda		✓	✓	Antiincendio			
Acqua raffreddata	✓			Materiali altamente corrosivi			✓	Piscine	✓	✓	
Aria Compressa				Acqua calda			✓	Scarichi fognari	✓	✓	✓
Acqua Demineralizzata	✓	✓	✓	Irrigazione	✓	✓		Trattamento acque	✓	✓	

Materiali	Range di produzione	Misure	Norme e Certificazioni	Applicazioni
PVCu Cloruro di Polivinile plastificato ad alta Densità	Raccordi ad incollaggio metrici e in pollici	da 16mm a 315mm da 3/8" a 8"	IIP N°099/2005 NF N° 63-1P-01 KIWA 21166/01	Piscine
	Raccordi adattatori metrici/pollici	da 1/2" a 4"	EN1452	
	Raccordi di passaggio incollaggio/filettati	da 16mm a 110mm da 3/8" a 4"	WRAS-BSI KITE MARK 60041	Irrigazione – Agricoltura – Industria alimentare
	Valvole a sfera e di non ritorno, metriche, in pollici, filettate	da 16mm a 110mm da 1/2" a 4"	Raccordi conformi ISO 727 - DIN 8063 - EN1452-4	Industria edile
	Valvole a farfalla	da DN 65 a DN 300 (da 63mm a 315mm)	NFT 54/028 EN1452-4	Trattamento acque, acqua potabile, forniture, scarichi, fognature.
	Valvole a sfera con attuatore elettrico o pneumatico	da 20mm a 110mm	BS Raccordi conformi BS4346/1 EN1452-4	Industria chimica (-10 - + 60°C)
ABS Acrilonitrile butadiene	Valvole a farfalla con attuatore elettrico o pneumatico	da 63mm a 315mm	EN1452-4	
	Raccordi ad incollaggio serie in pollici	da 1/2" a 8"	WRAS - BSI KITE MARK 60042	Industri alimentare, trattamento acque
	Valvole a sfera e di non ritorno serie in pollici	da 3/8" a 4"	ABS BS Raccordi conformi BS 5392 part 1 and BS 21	Impianti di refrigerazione, buona resistenza ai diluenti e agli acidi, Sali, grassi animali, oli, acidi organici, (-40/+60), acque refrigerate, aria condizionata, acqua demineralizzata.
PPH Polipropilene Homopolimero	Valvole con attuatore pneumatico o elettrico serie in pollici	da 1/2" a 4"		
	Raccordi i polifusione	da 20mm a 63mm	DIN 16962 UNIPLAST 383	Applicazioni industriali (chimica e farmaceutica), buona resistenza agli acidi, basi, Sali, solventi organici.
	Raccordi filettati	1/2" to 2"		
	Valvole a sfera e di non ritorno per polifusione e incollaggio	da 20mm a 63mm	DIN 16962 UNIPLAST 383 ISO 228/1	Adatto fino a 90°C

PVCu Pipe Systems

Unplasticised polyvinyl chloride (PVCu) is one of the most widely used thermoplastic materials for pipe installations.

Being odourless and tasteless it is suitable for conveying potable water and many food products. PVCu has excellent chemical resistance.

The good flow characteristics are the result of the smooth bore and has good resistance to abrasion. It is light in weight, easy to join together making PVCu a good alternative to the more traditional materials.

PVCu is resistant to most solutions of acids, alkalis, salts and solvents that can be mixed with water. Additional information in this respect can be obtained from our Technical Department.

Materials

Polypipe Effast PVCu is stabilised with compounds conforming to the EEC safety levels for vinyl chloride monomer (VCM) and the WRAS requirements for use with potable water.

Colour

PVCu products are recognised by their dark grey colour RAL 7035.

Chemical Resistance

The chemical resistance properties of PVCu are excellent: it is resistant to most solutions of acids, alkalis and salts and to solvents that can be mixed with water. PVCu is not resistant to aromatic and chlorinated hydrocarbons.

Standards

Individual products are in compliance with appropriate Standards:

- EN ISO 15493

[Plastics piping systems in PVC-U for industrial applications.](#)

- EN uni EN ISO 1452

[Characteristics of PVC-U fittings and pipes of piping systems for water supply.](#)

- ISO 727

[Pipes and fittings in PVC-U. Dimensions and tolerances metric series.](#)

- ISO 4422

[Characteristics of PVC-U fittings of piping systems for water supply.](#)

- DIN 8063

[PVC-U fittings, dimensions.](#)

- KIWA

[\(Keurings Instituut Voor Waterleiding Artikelen Holland\)](#)

[KIWA BRL – K](#)

[504 e KIWA BRL – 502](#)

[Characteristics of PVC-U fittings and pipes of piping systems for water supply.](#)

- BSI (British Standard Institution UK) BS 4346-1

[Characteristics of PVC-U fittings of piping systems for fluids under pressure.](#)

- BS 3505-3506

[Characteristics of PVC-U pipes for industrial fluids and cold water.](#)

- UNI ISO 228/1:1983

[PVC-U fittings with threaded connections.](#)

Tubi e Raccordi in PVCu

Il Cloruro di Polivinile Non Plastificato (PVCu) è uno dei più diffusi materiali termoplastici per la costruzione di sistemi di adduzione liquidi in pressione attraverso raccordi e tubi.

Il PVCu può essere utilizzato anche in ambito alimentare essendo un materiale inodore ed insapore.

Un materiale che offre un'eccellente resistenza chimica e che è caratterizzato da superfici lineari, difficilmente esposte ad abrasioni, tali da garantire buona scorrevolezza ai flussi.

I raccordi in PVCu sono leggeri ed è molto facile collegarli fra loro ed ai tubi così da comporre un sistema realmente alternativo rispetto ai materiali tradizionali.

Il PVCu è resistente alla maggior parte degli acidi, dei prodotti alcalini, dei sali e dei solventi che possono trovarsi all'interno dei diversi liquidi; con particolare riguardo a questi aspetti, ulteriori informazioni possono essere facilmente ottenute contattando i nostri Uffici e chiedendo dei nostri tecnici.

Materia Prima

Il PVCu utilizzato dalla Polypipe è stabilizzato con additivi privi di metalli pesanti e conformi a quanto stabilito dalle normative europee in tema di compatibilità con l'acqua potabile.

Colore

I prodotti in PVCu sono riconoscibili per il loro caratteristico colore grigio RAL 7035.

Resistenza Chimica

Le proprietà di resistenza chimica del PVCu sono eccellenti; il PVCu è resistente alla maggior parte degli acidi, dei prodotti alcalini, dei sali e dei solventi che possono trovarsi all'interno dei diversi liquidi; il PVCu non resiste agli idrocarburi aromatici e clorurati.

Standards

I singoli prodotti sono prodotti in conformità con i seguenti riferimenti normativi:

- EN ISO 15493

[Sistemi di componenti \(Tubi, Raccordi e Valvole\) in PVC-U per applicazioni industriali.](#)

- UNI EN ISO 1452

[Caratteristiche di raccordi e tubi di PVC-U per i sistemi di tubazioni nel campo dell'adduzione d'acqua.](#)

- ISO 727

[Tubi e raccordi in PVC-U. Dimensioni e tolleranze serie metrica.](#)

- ISO 4422

[Caratteristiche dei raccordi di PVC-U per i sistemi di tubazioni nel campo dell'adduzione d'acqua.](#)

- DIN 8063

[Raccordi in PVC-U, dimensioni.](#)

- KIWA (Keurings Instituut Voor Waterleiding Artikelen Holland)

[KIWA BRL – K 504 e KIWA BRL – 502](#)

[Caratteristiche di raccordi e tubi di PVC-U per i sistemi di tubazioni nel campo dell'adduzione d'acqua.](#)

• DIN 2999 PVC-U fittings with threaded connections.	• BSI (British Standard Institution UK) BS 4346-1 Caratteristiche dei raccordi in PVC-U per i sistemi di tubazioni nel trasporto dei fluidi in pressione.
• BS 21 PVC-U fittings with threaded connections.	• BS 3505-3506 Caratteristiche dei tubi in PVC-U per applicazioni di fluidi industriali e acqua fredda.
• ISO R7:1984 PVC-U fittings with threaded connections sealing tight.	• UNI ISO 228/1:1983 Raccordi in PVC-U con terminali filettati.
• ISO 161/1 PVC-U pipes and fittings dimensions, metric series.	• DIN 2999 Raccordi in PVC-U con terminali filettati.
• DIN 8062 PVC-U pipes dimensions.	• BS 21 Raccordi in PVC-U con terminali filettati.
• ASTM D696 e DIN 53752 Coefficient of linear thermal expansion, test and method.	• ISO R7:1984 Raccordi in PVC-U con terminali filettati per accoppiamento a tenuta.
• DVS 2204 - 2221 Solvent welding of thermoplastic materials PVC-U	• ISO 161/1 Dimensioni di tubi e raccordi in PVC-U serie metrica
UNI 11242 Solvent welding of PVC-U pipes, fittings and valves	• DIN 8062 Dimensioni di tubi in PVC-U.
• ISO 9393 Thermoplastics valves-pressure test methods and requirements.	• ASTM D696 e DIN 53752 Coefficiente di dilatazione termica lineare, test e metodo di prova.
Industrial valves-Ball valves of thermoplastic materials.	• DVS 2204 - 2221 Incollaggio di materiali termoplastici PVC-U.
• EN ISO 16136 Industrial valves-Butterfly valves of thermoplastic materials.	• UNI 11242 Giunzione mediante incollaggio di tubi, raccordi e valvole in PVC-U
• EN ISO 16137 Industrial valves-Check valves of thermoplastic materials.	• ISO 9393 Valvole termoplastiche - metodi e requisiti dei test di pressione.
• EN ISO 16138 Industrial valves-Diaphragm valves of thermoplastic materials.	• EN ISO 16135 Valvole industriali- Valvole a sfera di materiale termoplastico.
• EN 558-1 Industrial valves-Face-to-face and center-to-face dimensions of metal valves for use in flanged pipe systems - Part 1: PN-designated valves.	• EN ISO 16136 Valvole industriali- Valvole a farfalla di materiale termoplastico.
• EN 1092-1 Flanges and their joints-Circular flanges for pipes, valves fittings and accessories- Part 1: Steel flanges, PN designated	• EN ISO 16137 Valvole industriali- Valvole di ritegno di materiale termoplastico.
• DIN 3202 Face-to-face and centre-to-face dimensions of valves.	• EN ISO 16138 Valvole industriali- Valvole a membrana di materiale termoplastico.
• DIN 3441-2 Ball valves; dimensions.	• EN 558-1 Valvole industriali - dimensioni di ingombro esterne di valvole metalliche per l'utilizzo in sistemi di tubazioni flangiate - Parte 1: progettazione secondo PN.
	• EN 1092-1 Flange e loro giunzioni - Flange circolari per tubazioni, raccordi valvole e accessori - Parte 1: Flange di acciaio, progettazione secondo PN.
	• DIN 3202 Dimensioni di ingombro valvole.
	• DIN 3441-2 Dimensioni delle valvole a sfera in PVCu

Imperial and Metric Sizes

The following notes may be helpful to those unfamiliar with the different ways of describing metric and imperial sizes when specifying pipe or fittings.

When specifying imperial pipe fittings and other components reference is made to the nominal size of the pipe bore in inches and fractions of an inch.

Metric Systems are specified by reference to the outside diameter of the pipe expressed in millimetres.

As a general guide the following table gives a comparison between metric and imperial sizes up to 8 inches. It is important to understand that metric sizes are not simply inch sizes which have been converted into millimetres and called metric. The actual equivalents are slightly different (except for Imperial size 2 1/2 inches and metric size 75mm and 5 inches and 140mm which happen to coincide exactly) and are not interchangeable.

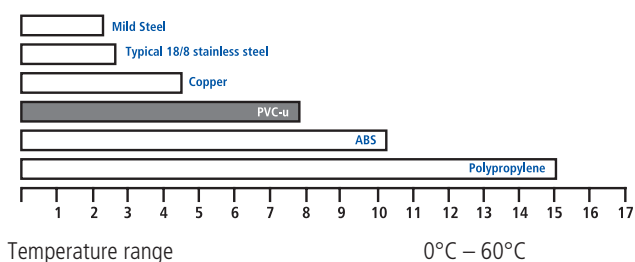
Imperial Sizes (inches)		Metric Sizes (mm)	
Nominal bore	Pipe outside dia.	Pipe outside dia.	Nominal bore
3/8"	17.1	16	10
1/2"	21.4	20	15
3/4"	26.7	25	20
1"	33.6	32	25
1 1/4"	42.2	40	32
1 1/2"	48.3	50	40
2"	60.3	63	50
2 1/2"	75.2	75	65
3"	88.9	90	80
4"	114.3	110	100
5"	140.2	140	125
6"	168.3	160	150
8"	219.1	225	200

Thermal Expansion

The thermal coefficient of linear expansion for PVCu is $7.8 \times 10^{-5} \text{m/m} \cdot ^\circ\text{C}$

It is necessary in certain situations to make special provision for this expansion and contraction.

Thermal expansion of PVCu is compared with other materials, in the following chart.



Misure British Standard e metriche

Le note che seguono possono essere utili per coloro che hanno scarsa familiarità con i diversi sistemi di misura (metrici o in pollici) usati nelle specifiche dei tubi in PVCu.

Quando il sistema di misura utilizzato è quello "in pollici" si fa riferimento al diametro nominale interno (dei tubi) espresso in pollici ed in frazioni di pollici.

I sistemi metrici fanno riferimento al diametro esterno dei tubi espresso in millimetri.

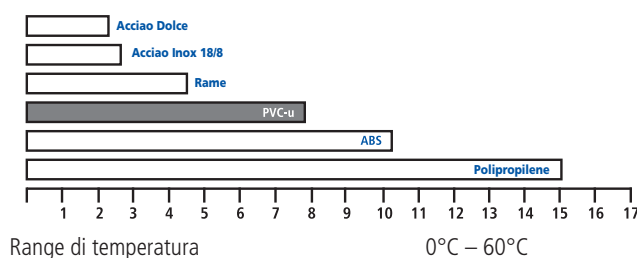
Come linea guida generale, la tabella che segue fornisce un confronto fra misure in pollici e metriche fino ad 8 pollici. E' importante sottolineare che le misure metriche non derivano dalla semplice conversione delle misure in pollici; ad eccezione della misura di 2 pollici e mezzo (esattamente corrispondente alla misura metrica di 75 mm) il sistema in pollici ed il sistema metrico non sono intercambiabili; non c'è equivalenza fra i due sistemi.

Misure in pollici (inches)		Misure metriche (mm)	
diámetro nominale	tubo esterno dia.	tubo esterno dia.	diámetro nominale
3/8"	17.1	16	10
1/2"	21.4	20	15
3/4"	26.7	25	20
1"	33.6	32	25
1 1/4"	42.2	40	32
1 1/2"	48.3	50	40
2"	60.3	63	50
2 1/2"	75.2	75	65
3"	88.9	90	80
4"	114.3	110	100
5"	140.2	140	125
6"	168.3	160	150
8"	219.1	225	200

Dilatazione termica

Il coefficiente di dilatazione lineare termica per il PVCu è $7,8 \times 10^{-5} \text{m/m} \cdot ^\circ\text{C}$.

Vi sono determinate situazioni nelle quali è necessario considerare attentamente la dilatazione e la contrazione termica del materiale. Nel grafico che segue presentiamo un confronto tra la dilatazione termica del PVCu e la dilatazione termica di materiali alternativi:



General properties of PVCu

PVCu is thermally stable in the temperature range 0°C to 60°C, however at low temperatures the impact strength of PVCu decreases. It is therefore not recommended for use at very low temperatures unless there is no likelihood of the piping materials being disturbed or subjected to impact damage. PVCu is free from toxic metals thus ensuring that it is physiologically harmless for drinking water and foodstuffs applications.

Some important advantages of PVCu are:

- Extensive choice of component parts
- Wide range of applications
- Good chemical and corrosion resistance
- Safe for potable water applications
- Low friction loss
- Self extinguishing
- High mechanical strength
- Simplified installation techniques using solvent cement welding
- Approved for potable water applications

Properties of PVCu (Average values)	
Property	Value
Density	1.38 g/cm ³
Tensile Strength	55 N/mm ²
Elongation at Break	>30 %
Impact Strength	No crack kJ/m ² (23°C)
Modulus of Elasticity (Young's Modulus)	3000 N/mm ²
Coefficient of Linear Expansion	0.08 mm/m °C
Maximum Operating Temperature	60°C
Minimum Operating Temperature	0°C
Vicat Softening Point	>76°C (VST/B 50)
Water Absorption	<4 mg/cm ³
Surface Resistance Approx.	1013 Ω
Thermal Conductivity	0.140 W/m · K
Flammability	V-0 UL94
Colour	7035 Dark Grey RAL

Symbol and Explanation

PFA - Allowable operating pressure:

Maximum hydrostatic pressure that a component is capable of withstanding continuously in service. (EN 805:2002).

PMA - Allowable maximum operating pressure:

maximum pressure occurring from time to time, including surge, that a component is capable of withstanding in service. (EN 805:2002).

PEA - Allowable site test pressure: maximum hydrostatic pressure that a newly installed component is capable of withstanding for a relatively short duration, in order to ensure the integrity and tightness of the pipeline. (EN 805:2002).

Rp - Designation of parallel internal thread.

R - Designation of taper external thread.

DN - Nominal Diameter

d - Pipe outside Diameter

Proprietà generali del PVCu

Il Cloruro di Polivinile non Plastificato PVC-U è stabile termicamente nell'intervallo di temperatura fra 0 e 60 °C. La resistenza all'urto del materiale decresce al diminuire della temperatura. Non è indicato all'uso con temperature molto basse per il rischio di fragilità all'impatto. Il PVCu è esente da metalli pesanti e questo permette l'uso per il contatto con acqua potabile e applicazioni alimentari.

Alcuni importanti vantaggi dell'uso del PVCu sono:

- Ampia gamma raccordi e valvole
- Ampi campi di applicazione
- Buona resistenza chimica e alla corrosione
- Indicato per l'uso con acqua potabile
- Basse perdite di carico
- Autoestinguenza
- Buona resistenza meccanica
- Facilità di installazione usando l'incollaggio
- Approvato per applicazioni con acqua potabile

Proprietà del PVC u (Valori medi)	
Proprietà	Valore
Densità	1.38 g/cm ³
Resistenza alla trazione	55 N/mm ²
Allungamento a rottura	>30 %
Resistenza all'urto	No crack kJ/m ² (23°C)
Modulo di elasticità	3000 N/mm ²
Coefficiente di espansione lineare	0.08 mm/m °C
Massima Temperatura di esercizio	60°C
Minima Temperatura di esercizio	0°C
Punto di rammollimento Vicat	>76°C (VST/B 50)
Assorbimento d'acqua	<4 mg/cm ³
Resistenza superficiale	1013 Ω
Conducibilità Termica	0.140 W/m · K
Infiammabilità	V-0 UL94
Colore	7035 Dark Grey RAL

Simboli e definizioni

PFA - Pressione di esercizio ammissibile:

Massima pressione idrostatica che un componente è capace di mantenere in servizio continuo (UNI EN 805:2002). Alla temperatura di 20°C e per 50 anni di servizio corrisponde alla definizione di PN.

PMA - Massima Pressione di esercizio Ammissibile:

Massimi picchi occasionali di pressione (inclusi i disturbi dovuta sovrappressioni), che un componente è in grado di mantenere in servizio continuo (UNI EN 805:2002).

PEA - Pressione di Collaudo ammissibile:

Massima pressione idrostatica che un componente nuovo, una volta installato, è capace di mantenere per un periodo di tempo relativamente corto, allo scopo di assicurare l'integrità e la tenuta della condotta (UNI EN 805:2002).

Rp - Filettatura interna cilindrica UNI EN 10226 a tenuta sul filetto.

R - Filettatura esterna conica UNI EN 10226 a tenuta sul filetto.

DN - Diametro Nominale

d - Diametro esterno del tubo

Temperature & Pressure Relationship (Metric)

Temp °C	PFA (PN) 16	PFA (PN) 10
0°C – 25°C	16	10
25°C – 30°C	14.4	9
30°C – 35 °C	12.8	8
35°C– 40°C	11.2	7
40°C- 45°C	10	6.25

British Standard

Temp°C	Class C		Class D		Class E	
	BAR	PSI	BAR	PSI	BAR	PSI
0	9.0	130	12.0	173	15.0	217
20	9.0	130	12.0	173	15.0	217
30	8.1	117	10.8	155	13.5	195
35	7.2	104	9.6	138	12.0	173
40	6.3	91	8.4	121	10.5	152
45	5.4	78	7.2	104	9.0	130
50	4.0	58	5.4	78	6.7	97
55	2.7	39	3.6	52	4.5	65
60	1.3	19	1.8	26	2.2	32

Pressure Ratings Fittings & Valves Imperial

Unless otherwise indicated the pressure ratings are as follows

Product	Size	Pressure Rating
Solvent Cement Fittings	3/8" - 6"	15 bar (217 PSI)
Solvent Cement Fittings	8"	9 bar (130 PSI)
Adaptor Fittings BS/Metric	1/2" - 4"	15 bar (217 PSI)
Valves	3/8" - 2"	16 bar (232 PSI)
Valves	2 1/2" - 4"	10 bar (145 PSI)

All pressure ratings are at 20°C

Pressure Ratings Fittings & Valves Metric

Unless otherwise indicated the pressure ratings are as follows

Product	Size mm	Pressure Rating
SOLVENT CEMENT FITTINGS	16 - 160	16 bar (232 PSI)
SOLVENT CEMENT FITTINGS	200 - 315	10 bar (145 PSI)
SOLVENT CEMENT VALVES	16 - 63	16 bar (232 PSI)
SOLVENT CEMENT VALVES	75 - 110	10 bar (145 PSI)
THREADED FITTINGS	3/8" - 4"	16 bar (232 PSI)
THREADED VALVES	3/8" - 2"	16 bar (232 PSI)
THREADED VALVES	2.1/2" - 4"	10 bar (145 PSI)

All pressure ratings are at 20°C

All threaded fittings are parallel threaded unless stated.
ie. BSP female and BSP male are parallel. BSPT = BSP taper thread

Relazione fra Temperature e Pressioni (PFA) (Metrico)

Temp °C	PFA (PN) 16	PFA (PN) 10
0°C – 25°C	16	10
25°C – 30°C	14.4	9
30°C – 35 °C	12.8	8
35°C– 40°C	11.2	7
40°C- 45°C	10	6.25

British Standard

Temp°C	Class C		Class D		Class E	
	BAR	PSI	BAR	PSI	BAR	PSI
0	9.0	130	12.0	173	15.0	217
20	9.0	130	12.0	173	15.0	217
30	8.1	117	10.8	155	13.5	195
35	7.2	104	9.6	138	12.0	173
40	6.3	91	8.4	121	10.5	152
45	5.4	78	7.2	104	9.0	130
50	4.0	58	5.4	78	6.7	97
55	2.7	39	3.6	52	4.5	65
60	1.3	19	1.8	26	2.2	32

Pressioni di Esercizio Raccordi e Valvole British Standard

Pressione di Esercizio Raccordi e Valvole in Pollici. Se non diversamente indicato le pressioni di esercizio sono le seguenti:

Prodotto	Misure	Pressione Nominale
Raccordi a incollaggio	3/8" - 6"	15 bar (217 PSI)
Raccordi a incollaggio	8"	9 bar (130 PSI)
Raccordi di passaggio	1/2" - 4"	15 bar (217 PSI)
Valvole	3/8" - 2"	16 bar (232 PSI)
Valvole	2 1/2" - 4"	10 bar (145 PSI)

Tutte le pressioni sono a 20°C

Pressione di Esercizio Raccordi e Valvole Metrici

Se non diversamente indicato le pressioni di esercizio sono le seguenti:


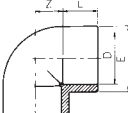
Prodotto	Misure	Pressione Nominale
Raccordi a incollaggio	16 - 160	16 bar (232 PSI)
Raccordi a incollaggio	200 - 315	10 bar (145 PSI)
Valvole a incollaggio	16 - 63	16 bar (232 PSI)
Valvole a incollaggio	75 - 110	10 bar (145 PSI)
Raccordi filettati	3/8" - 4"	16 bar (232 PSI)
Valvole Filettate	3/8" - 2"	16 bar (232 PSI)
Valvole Filettate	2.1/2" - 4"	10 bar (145 PSI)

Tutte le pressioni sono a 20°C


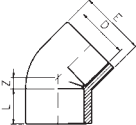
Tutte le filettature dei raccordi sono del tipo parallelo se non altrimenti specificato.
Es.: BSP Maschio e BSP Femmina sono Paralleli. BSPT = BSP filettatura conica.

PVCu solvent cement fittings metric / Raccordi a incollaggio Metrici

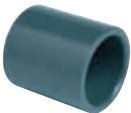
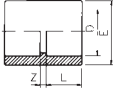
Elbow 90° plain / Gomito 90°

	Nominal Size Misura nominale	Code Codice	L	Z	E	Pack Imballo	Weight (GR) Peso
 	GOD 16 - ○ □	RDRGOD0160	14	9	23	S	13
	20 - ○ □	RDRGOD0200	16	11	27	S	20
	25 - ○ □ △	RDRGOD0250	19	13	33	M	35
	32 - ○ □ △	RDRGOD0320	22	17	41	M	60
	40 - ○ □ △	RDRGOD0400	26	22	50	M	90
	50 - ○ □ △	RDRGOD0500	30	26	60	L	135
	63 - ○ □ △	RDRGOD0630	38	32	74	L	220
	75 - ○ □ △	RDRGOD0750	45	39	89	L	375
	90 - ○ □ △	RDRGOD0900	51	46	105	L	600
	110 - ○	RDRGOD1100	61	56	130	L	1050
	125 - ○	RDRGOD1250	72	63	145	L	1350
	140 - ○	RDRGOD1400	79	73	164	L	2000
	160 - ○	RDRGOD1600	89	81	187	L	3200
	200*	RDRGOD2000	106	102	230	L	5850
	225*	RDRGOD2250	119	114	257	L	7500
	250*	RDRGOD2500	132	185	285	L	12480
	280*	RDRGOD2800	143	216	318	L	17000
315*	RDRGOD3150	164	239	360	L	23370	


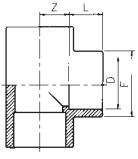
Elbow 45° plain / Gomito 45°

	Nominal Size Misura nominale	Code Codice	L	Z	E	Pack Imballo	Weight (GR) Peso
 	GYD 16 - ○ □	RDRGYD0160	14	6	23	S	10
	20 - ○ □	RDRGYD0200	17	4	28	S	17
	25 - ○ □ △	RDRGYD0250	19	7	33	M	30
	32 - ○ □ △	RDRGYD0320	22	8	41	M	47
	40 - ○ □ △	RDRGYD0400	26	10	50	M	77
	50 - ○ □ △	RDRGYD0500	32	11	62	L	115
	63 - ○ □ △	RDRGYD0630	37	14	75	L	154
	75 - ○ □ △	RDRGYD0750	43	17	88	L	310
	90 - ○ □ △	RDRGYD0900	51	22	106	L	451
	110 - ○	RDRGYD1100	61	24	128	L	835
	125 - ○	RDRGYD1250	69	27	145	L	1080
	140 - ○	RDRGYD1400	77	30	163	L	1640
	160 - ○	RDRGYD1600	87	35	185	L	2100
	200*	RDRGYD2000	106	42	232	L	5000
	225*	RDRGYD2250	119	48	258	L	6200
	250*	RDRGYD2500	131	57	288	L	7700
	280*	RDRGYD2800	147	59	322	L	10460
315*	RDRGYD3150	165	66	360	L	15500	

PVCu solvent cement fittings metric / Raccordi a incollaggio Metrici
Socket plain / Manicotto

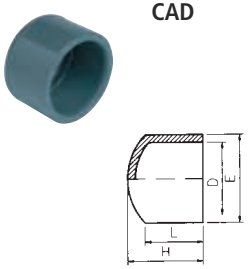
	Nominal Size Misura nominale	Code Codice	L	Z	E	Pack Imballo	Weight (GR) Peso
 	MAD 16 - ○ □	RDRMAD0160	14	3	23	S	9
	20 - ○ □ △	RDRMAD0200	16	4	26	S	15
	25 - ○ □ △	RDRMAD0250	19	4	33	M	23
	32 - ○ □ △	RDRMAD0320	22	4	41	M	36
	40 - ○ □ △	RDRMAD0400	26	5	51	M	60
	50 - ○ □ △	RDRMAD0500	31	4	60	L	85
	63 - ○ □ △	RDRMAD0630	38	4	74	L	145
	75 - ○ □ △	RDRMAD0750	43	6	88	L	218
	90 - ○ □ △	RDRMAD0900	50	7	105	L	348
	110 - ○	RDRMAD1100	61	5	128	L	605
	125 - ○	RDRMAD1250	69	7	145	L	840
	140 - ○	RDRMAD1400	76	11	161	L	1100
	160 - ○	RDRMAD1600	86	8	182	L	1400
	200	RDRMAD2000	106	14	230	L	2600
	225*	RDRMAD2250	118	14	247	L	4100
	250*	RDRMAD2500	133	10	286	L	6000
	280*	RDRMAD2800	147	10	318	L	7630
	315*	RDRMAD3150	167	13	354	L	9780

Tee 90° plain / Raccordo T 90°

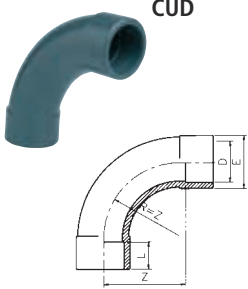
	Nominal Size Misura nominale	Code Codice	L	Z	E	Pack Imballo	Weight (GR) Peso
 	TID 16 - ○ □	RDRTID0160	14	9	23	S	15
	20 - ○ □	RDRTID0200	17	11	27	M	25
	25 - ○ □	RDRTID0250	19	14	33	M	44
	32 - ○ □	RDRTID0320	22	18	42	M	75
	40 - ○ □	RDRTID0400	26	21	51	M	120
	50 - ○ □	RDRTID0500	31	26	62	L	172
	63 - ○ □	RDRTID0630	38	33	76	L	300
	75 - ○ □	RDRTID0750	44	39	89	L	495
	90 - ○ □	RDRTID0900	51	47	106	L	790
	110 - ○	RDRTID1100	61	56	130	L	1452
	125 - ○	RDRTID1250	72	64	145	L	2100
	140 - ○	RDRTID1400	79	72	162	L	2550
	160 - ○	RDRTID1600	89	81	188	L	4100
	200*	RDRTID2000	106	101	232	L	7362
	225*	RDRTID2250	119	114	258	L	9700
	250*	RDRTID2500	131	128	287	L	13250
	280*	RDRTID2800	147	143	318	L	17840
	315*	RDRTID3150	165	166	359	L	25300

PVCu solvent cement fittings metric / Raccordi a incollaggio Metrici

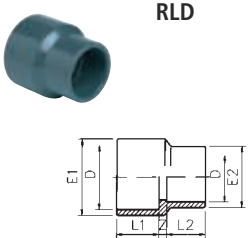
Cap plain / Calotta

	Nominal Size Misura nominale	Code Codice	L	H	E	Pack Imballo	Weight (GR) Peso
 <p>CAD</p>	16	RDRCAD0160	16	22	23	S	7
	20 - ○ □	RDRCAD0200	16	30	27	S	10
	25 - ○ □ △	RDRCAD0250	19	31	33	S	18
	32 - ○ □ △	RDRCAD0320	23	36	41	S	30
	40 - ○ □ △	RDRCAD0400	27	43	51	M	45
	50 - ○ □ △	RDRCAD0500	33	49	61	M	65
	63 - ○ □ △	RDRCAD0630	38	57	75	M	110
	75 - ○ □ △	RDRCAD0750	45	67	88	M	208
	90 - ○ □ △	RDRCAD0900	52	81	105	L	325
	110 - ○	RDRCAD1100	63	97	128	L	500
	125 - ○	RDRCAD1250	69	99	145	L	670
	140 - ○	RDRCAD1400	77	107	161	L	920
	160* - ○	RDRCAD1600	87	126	182	L	1120
	200*	RDRCAD2000	106	166	231	L	1680
225*	RDRCAD2250	118	173	247	L	2978	

Bend 90° short radius plain / Curva 90°

	Nominal Size Misura nominale	Code Codice	L	Z	E	Pack Imballo	Weight (GR) Peso
 <p>CUD</p>	20	RDRCUD0200	16	41	30	M	30
	25	RDRCUD0250	19	51	36	M	50
	32	RDRCUD0320	22	64	44	M	92
	40	RDRCUD0400	26	80	53	M	165
	50	RDRCUD0500	31	100	62	L	270
	63	RDRCUD0630	38	127	75	L	490
	75	RDRCUD0750	44	151	94	L	990
	90	RDRCUD0900	50	180	113	L	1600
	110	RDRCUD1100	61	220	137	L	2150


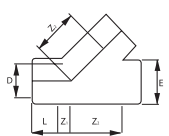
Reducing socket plain / Riduzione Lunga

	Nominal Size Misura nominale	Code Codice	L1	L2	Z	E2	E1	Pack Imballo	Weight (GR) Peso
 <p>RLD</p>	20 x 25 x 16	RDRRLD020A	16	14	6	23		S	15
	20 x 25 x 20	RDRRLD020B	19	16	6	28		S	25
	25 x 32 x 16	RDRRLD025A	22	19	6	33		S	35
	25 x 32 x 20	RDRRLD025B	26	22	10	41		S	75
	25 x 32 x 25	RDRRLD025C	31	26	12	50		S	110
	32 x 40 x 20	RDRRLD032B	38	26	17	50		S	140
	32 x 40 x 25	RDRRLD032C	38	31	12	61		S	130
	32 x 40 x 32	RDRRLD032D	44	38	18	75		S	295
	40 x 50 x 25	RDRRLD040C	51	44	16	88		M	525
	40 x 50 x 32	RDRRLD040D	61	51	17	106		M	530
	40 x 50 x 40	RDRRLD040E	69	61	17	129		M	580
	50 x 63 x 32	RDRRLD050D	76	61	18	129		M	905
	50 x 63 x 40	RDRRLD050E	39	26	5	50	63	M	
	50 x 63 x 50	RDRRLD050F						M	
	63 x 75 x 40	RDRRLD063E						M	
63 x 75 x 50	RDRRLD063F						M		


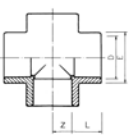
PVCu solvent cement fittings metric / Raccordi a incollaggio Metrici
Reducing socket plain / Riduzione Lunga

	Nominal Size Misura nominale	Code Codice	Pack Imballo	Weight (GR) Peso
 	RLD 63 x 75 x 63	RDRRLD063G	M	140
	75 x 90 x 50	RDRRLD075F	M	204
	75 x 90 x 63	RDRRLD075G	M	222
	75 x 90 x 75	RDRRLD075H	M	320
	90 x 110 x 50	RDRRLD090F	M	364
	90 x 110 x 63	RDRRLD090G	M	375
	90 x 110 x 75	RDRRLD090H	M	400
	90 x 110 x 90	RDRRLD090I	M	434
	110 x 125 x 63	RDRRLD110G	M	400
	110 x 125 x 75	RDRRLD110H	L	520
	110 x 125 x 90	RDRRLD110I	L	530
	110 x 125 x 110	RDRRLD110L	L	471
	125 x 140 x 90	RDRRLD125I	L	580
	125 x 140 x 110	RDRRLD125L	L	580
	125 x 140 x 125	RDRRLD125M	L	590
	140 x 160 x 110	RDRRLD140L	L	930
	140 x 160 x 125	RDRRLD140M	L	940
160 x - x 140	RDRRLD160N	L	1350	
200 x - x 160	RDRRLD200O	L	2545	

Tee 45° plain / Raccordo T 45°

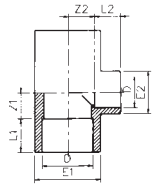
	Nominal Size Misura nominale	Code Codice	L	Z1	Z2	Pack Imballo	Weight (GR) Peso
 	TYD 20	RDRTYD0200	16	7	29	S	36
	25	RDRTYD0250	19	7	36	S	59
	32	RDRTYD0320	22	8	44	M	103
	40	RDRTYD0400	26	10	54	M	125
	50	RDRTYD0500	31	12	65	M	254
	63	RDRTYD0630	38	14	80	M	420
		RDRTYD0750					

Cross 90° plain / Raccordo a Croce 90°

	Nominal Size Misura nominale	Code Codice	L	Z	E	Pack Imballo	Weight (GR) Peso
 	CRD 20	RDRCRD0200	16	11	28	S	30
	25	RDRCRD0250	19	14	34	S	60
	32	RDRCRD0320	22	17	42	M	110
	40	RDRCRD0400	26	21	51	M	180
	50	RDRCRD0500	31	26	61	M	270
	63	RDRCRD0630	38	33	75	M	510
	75	RDRCRD0750				M	710
	90	RDRCRD0900				L	950
	110	RDRCRD1100				L	1840

PVCu solvent cement fittings metric / Raccordi a incollaggio Metrici

Tee 90° reduced on branch plain / Raccordo a T ridotto


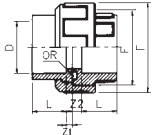


TRD


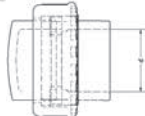
Nominal Size Misura nominale	Code Codice	L1	L2	Z1	Z2	E1	E2	Pack Imballo	Weight (GR) Peso
20 x 16	RDRTRD020A	16	13	11	11	28	23	S	26
25 x 16	RDRTRD025A	19	14	14	14	33	23	M	40
25 x 20	RDRTRD025B	19	16	14	14	34	28	M	42
32 x 16	RDRTRD032A	23	16	18	18	42	23	M	68
32 x 20	RDRTRD032B	23	16	18	18	42	28	M	69
32 x 25	RDRTRD032C	23	19	18	18	42	34	M	70
40 x 20	RDRTRD040B	27	16	21	21	50	28	M	105
40 x 25	RDRTRD040C	26	19	21	21	51	34	M	107
40 x 32	RDRTRD040D	27	22	21	21	50	42	M	112
50 x 20	RDRTRD050B	31	15	26	26	61	28	L	155
50 x 25	RDRTRD050C	31	19	26	26	61	34	L	157
50 x 32	RDRTRD050D	31	22	26	26	61	42	L	162
50 x 40	RDRTRD050E	31	26	26	26	61	51	L	168
63 x 25	RDRTRD063C	38	19	33	33	74	34	L	270
63 x 32	RDRTRD063D	38	22	33	33	74	42	L	275
63 x 40	RDRTRD063E	38	26	33	33	74	51	L	277
63 x 50	RDRTRD063F	38	31	33	33	74	60	L	296
75 x 40	RDRTRD075E	45	26	39	39	90	51	L	465
75 x 50	RDRTRD075F	45	31	39	39	90	61	L	465
75 x 63	RDRTRD075G	45	38	39	39	90	74	L	478
90 x 50	RDRTRD090F	51	31	47	47	106	61	L	703
90 x 63	RDRTRD090G	51	39	47	47	106	75	L	713
90 x 75	RDRTRD090H	51	43	47	47	106	90	L	730
110 x 50	RDRTRD110F	61	31	56	56	130	61	L	1250
110 x 63	RDRTRD110G	61	34	56	56	130	75	L	1318
110 x 75	RDRTRD110H	61	44	56	56	130	90	L	1260
110 x 90	RDRTRD110I	61	51	56	56	130	106	L	1295
125 x 75	RDRTRD125H								
125 x 90	RDRTRD125I	74	52	64	64	145	106	L	
125 x 110	RDRTRD125L	74	63	64	64	145	130	L	
140 x 90	RDRTRD140I	76	51	72	72	163	106	L	
140 x 110	RDRTRD140L	76	61	72	72	163	103	L	
140 x 125	RDRTRD140M							L	
160 x 90	RDRTRD160I	89	51	81	81	187	106	L	3750
160 x 110	RDRTRD160L	89	61	81	81	187	130	L	3800
160 x 140	RDRTRD160N	86	76	81	81	182	163	L	3940
160 x 125	RDRTRD160M	86	68	81	71	187	145		

PVCu solvent cement fittings metric / Raccordi a incollaggio Metrici


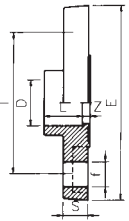
Union plain. Available also with FMP o-rings on request. / Bocchettone con o'ring. Disponibile anche con guarnizione in FMP richiesta

	Nominal Size Misura nominale	Code Codice	L	Z1	Z2	E	Pack Imballo	Weight (GR) Peso
 	BOD 16	RDRBOD0160	14	3	10	34	S	30
	20	RDRBOD 0200	16	3	10	42	S	42
	25	RDRBOD0250	19	3	10	52	M	70
	32	RDRBOD0320	22	3	10	59	M	97
	40	RDRBOD0400	26	3	12	72	M	115
	50	RDRBOD0500	31	3	14	79	M	216
	63	RDRBOD0630	38	3	18	96	M	350
	75*	RDRBOD0750	44	3	18	119	L	580
	90*	RDRBOD0900	51	5	18	134	L	760
110*	RDRBOD1100	61	5	18	163	L	1340	


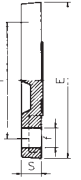
Union with cap / Union 3 pièces avec Bouchon / Verschraubung 3 Stk. mit Kappe / Bocchettone con tappo / Unión con tapon

	d	Code Codice	L	Z1	Z2	E	Pack Imballo	Weight (GR) Peso
 	BOT 20	RDRBOT0200					S	
	25	RDRBOT0250					M	
	32	RDRBOT0320					M	
	40	RDRBOT0400					M	
	50	RDRBOT0500					M	
	63	RDRBOT0630					M	

Full faced flange drilled to BS4504 NP10/16 plain / Flangia Fissa BS 4505 DIN 8063 PFA 10/16


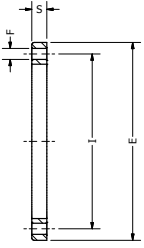
	d	DN	Code Codice	L	Z	E	I	f	HOLES	S	Pack Imballo	Weight (GR) Peso
 	FFD 20	25	RDRFFD0200	16	5	95	65	14	4	11	S	78
	25	32	RDRFFD0250	19	5	105	75	14	4	12	S	105
	32	40	RDRFFD0320	22	5	115	85	14	4	14	S	143
	40	50	RDRFFD0400	26	5	142	100	18	4	15	M	220
	50	63	RDRFFD0500	31	5	152	110	18	4	16	M	280
	63	75	RDRFFD0630	38	5	165	125	18	4	18	M	380
	75	90	RDRFFD0750	44	6	185	145	18	4	19	M	505
	90	11	RDRFFD0900	51	7	200	160	18	8	20	M	685
	110	125	RDRFFD1100	61	8	220	180	18	8	22	L	940

Blanking flange drilled to BS4504 NP10/16. / Flangia cieca BS 4505 DIN 8063 PFA 10/16


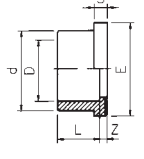
	d	DN	Code Codice	E	S	I	HOLES	Pack Imballo	Weight (GR) Peso
 	FCD 20	25	RDRFCD0200	95	11	65	4	S	76
	25	32	RDRFCD0250	105	12	75	4	S	104
	32	40	RDRFCD0320	115	14	85	4	S	140
	40	50	RDRFCD0400	142	15	100	4	M	220
	50	63	RDRFCD0500	152	16	110	4	M	280
	63	75	RDRFCD0630	165	18	125	4	M	370
	75	90	RDRFCD0750	185	19	145	4	M	495
	90	11	RDRFCD0900	200	20	160	8	M	655
	110	125	RDRFCD1100	220	22	180	8	M	850
	125		RDRFCD1250	230	24	190	8	M	950
	140		RDRFCD1400	250	26	210	8	M	1165
	160		RDRFCD1600	285	28	240	8	L	1610
200		RDRFCD2000	340	30	295	8	L	2480	
225		RDRFCD2250	340	30	295	8	L	2480	

PVCu solvent cement fittings metric / Raccordi a incollaggio Metrici

PVCu Backing Ring Drilled to BS4504 NP10/16 / Flangia libera BS4504 DIN 8063 PFA 10/16

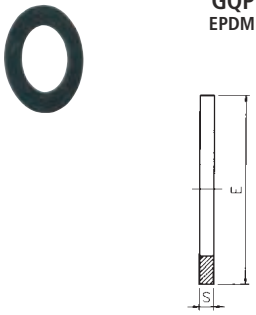
	d	DN	Code Codice	D	E	S	I	f	Drill N. Fori	Bolts Bulloni	Pack	Weight (GR) Peso
 	FLD	28	15	RDRFLD0200	20	95	11	65	14	4 M12x55	S	
		34	20	RDRFLD2500	25	105	12	75	14	4 M12x60	S	55
		42	25	RDRFLD0320	32	115	14	85	14	4 M12x60	S	85
		51	32	RDRFLD0400	40	142	15	100	18	4 M16x70	M	120
		62	40	RDRFLD0500	50	152	16	110	18	4 M16x75	M	175
		78	50	RDRFLD0630	63	165	18	125	18	4 M16x80	M	210
		92	65	RDRFLD0750	75	185	19	145	18	4 M16x90	M	300
		110	80	RDRFLD0900	90	200	20	160	18	8 M16x90	M	355
		135	100	RDRFLD1100	110	220	22	180	18	8 M16x100	M	430
		149	110	RDRFLD1250	125	230	24	190	18	8 M16x100	M	
		167	125	RDRFLD1400	140	250	26	210	18	8 M16x110	M	520
		190	150	RDRFLD1600	160	285	28	240	22	8 M20x120	L	585
		235	200	RDRFLD2000	200	340	30	295	22	8 M20x120	L	700
		250	200	RDRFLD2250	225	340	30	295	22	8 M20x120	L	960
		280	225	RDRFLD2500	250	395	34	350	22	12 M20x120	L	1230
		309	250	RDRFLD2800	280	396	30	350	22	12 M20x120	L	1150
		349	300	RDRFLD3150	315	449	31	400	22	12 M20x120	L	

Stub flange (serrated face) plain / Collare per flange Rigato

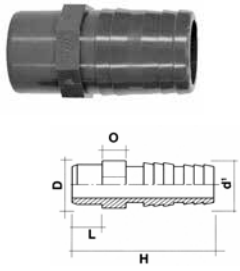
	Nominal Size Misura nominale	Code Codice	L	Z	d	E	Pack Imballo	Weight (GR) Peso
 	QRD	RDRQRD0200	16	3	27	34	S	10
		RDRQRD0250	19,5	3,5	32	41	S	16
		RDRQRD0320	22,5	3,5	41	50	S	25
		RDRQRD0400	26	3	50	61	M	41
		RDRQRD0500	32	3,5	61	73	M	60
		RDRQRD0630	38,5	4	76	90	M	105
		RDRQRD0750	44	4	90	106	L	160
		RDRQRD0900	53	3,5	107	125	L	280
		RDRQRD1100	62	4	130	149	L	445
		RDRQRD1250	70	5	146	168	L	540
		RDRQRD1400	77	8	165	188	L	740
		RDRQRD1600	87	6	185	214	L	1000
		RDRQRD2000	106	7	232	254	L	2000
		RDRQRD2250	119	8	248	274	L	1700
		RDRQRD2500	131	8	271	305	L	2300
	RDRQRD2800	147	15	307	325	L	3650	
	RDRQRD3150	165	16	346	377	L	4950	

PVCu solvent cement fittings metric / Raccordi a incollaggio Metrici

Flat Gaskets for Stub Flanges / Guarnizione Piana per QRD, FFD, FCD

	Inches	mm	Code Codice	E	S	Weight (GR) Peso
 <p>GQP EPDM</p>	1/2"	20	RGRGQP0200	29	2	20
	3/4"	24	RGRGQP0250	35	2	21
	1"	29	RGRGQP0320	44	2	26
	1 1/4"	40	RGRGQP0400	58	2	29
	1 1/2"	50	RGRGQP0500	70	2	34
	2"	63	RGRGQP0630	90	3	35
	2 1/2"	75	RGRGQP0750	106	3	38
	3"	90	RGRGQP0900	125	3	40
	4"	110	RGRGQP1100	150	4	43
	5"	125	RGRGQP1250	168	4	47
	5"	140	RGRGQP1400	188	4	59
	6"	160	RGRGQP1600	213	4	73
	8"	200	RGRGQP2000	254	4	80
	8"	225	RGRGQP2250	274	4	88
	10"	250	RGRGQP2500			
12"	315	RGRGQP3150				

Hose Adaptor Male Solvent Cement/ Portagomma maschio a incollaggio

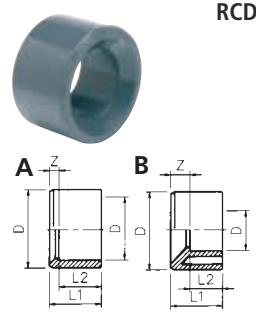
	Nominal Size Misura nominale	Code Codice	L	H	O	Pack Imballo	Weight (GR) Peso
 <p>PGD</p>	16 x 16 x 18	RDRPGD0160	14	66	19	S	14
	20 x 20 x 22	RDRPGD0200	16	70	24	S	20
	25 x 25 x 27	RDRPGD0250	19	79	30	S	30
	32 x 30 x 32	RDRPGD0320	22	83	36	M	47
	40 x 40 x 42	RDRPGD0400	26	96	46	L	72
	50 x 50 x 52	RDRPGD0500	31	108	55	L	135
	63 x 63 x 64	RDRPGD0630	38	130	65	M	208

Reducing bush plain Male/Female / Riduzione Maschio/Femmina Corta


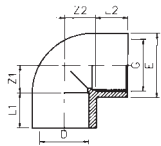
	Nominal Size Misura nominale	Code Codice	L1	L2	Z	Pack Imballo	Weight (GR) Peso
 <p>RCD</p>	20 x 16	RDRRCD020A	16	14	2	S	3
	25 x 16	RDRRCD025A	19	14	2,5	S	10
	25 x 20	RDRRCD025B	19	16	3	S	6
	32 x 16	RDRRCD032A	22	14	8	S	15
	32 x 20	RDRRCD032B	22	16	5	S	15
	32 x 25 - Δ	RDRRCD032C	22	19	3	S	10
	40 x 20	RDRRCD040B	26	16	10	S	25
	40 x 25	RDRRCD040C	26	19	8	S	30

PVCu solvent cement fittings metric / Raccordi a incollaggio Metrici


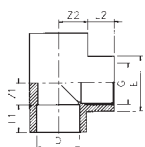
Reducing bush plain Male/Female / Riduzione Maschio/Femmina Corta

	Nominal Size Misura nominale	Code Codice	L1	L2	Z	Pack Imballo	Weight (GR) Peso
	RCD 40 x 32 - △	RDRRCD040D	26	22	4	S	16
	50 x 25	RDRRCD050C	31	19	12	S	45
	50 x 32	RDRRCD050D	31	22	8	S	40
	50 x 40 - ○ □ △	RDRRCD050E	31	26	6	S	30
	63 x 32 - ○	RDRRCD063D	39	22	6	M	83
	63 x 40 - ○ □	RDRRCD063E	39	26	11	M	78
	63 x 50 - ○ □ △	RDRRCD063F	39	31	6	M	62
	75 x 40 - ○	RDRRCD075E	44	26	18	M	120
	75 x 50 - ○ □	RDRRCD075F	44	31	13	M	122
	75 x 63 - ○ □ △	RDRRCD075G	44	38	6	M	80
	90 x 50 - ○	RDRRCD090F	51	31	20	M	210
	90 x 63 - ○	RDRRCD090G	53	38	15	M	195
	90 x 75 - ○ □ △	RDRRCD090H	53	44	8	M	140
	110 x 63 - ○	RDRRCD110G	63	38	23	M	372
	110 x 75 - ○	RDRRCD110H	61	44	17	M	370
	110 x 90 - ○	RDRRCD110I	61	51	9	M	275
	125 x 75 - ○	RDRRCD125H	70	44	24	L	412
	125 x 90 - ○	RDRRCD125I	70	51	18	L	450
	125 x 110 - ○	RDRRCD125L	70	61	7	L	260
	140 x 90 - ○	RDRRCD140I	77	51	25	L	550
	140 x 110 - ○	RDRRCD140L	77	61	14	L	510
	140 x 125 - ○	RDRRCD140M	77	69	7	L	320
	160 x 90 - ○	RDRRCD160I	89	61	32	L	820
	160 x 110 - ○	RDRRCD160L	89	61	26	L	820
	160 x 125 - ○	RDRRCD160M	89	69	17	L	725
	160 x 140 - ○	RDRRCD160N	89	76	11	L	555
	200 x 160*	RDRRCD200O	107	86	21	L	710
	225 x 160*	RDRRCD225O	120	86	34	L	1700
	225 x 200*	RDRRCD225Q	120	106	14	L	1360
	250 x 160*	RDRRCD250O	132	87	45	L	3050
	250 x 200*	RDRRCD250Q	135	97	28	L	3500
	250 x 225*	RDRRCD250R	135	107	14	L	2150
280 x 225*	RDRRCD280R	148	119	28	L	2630	
280 x 250	RDRRCD280S	148	119	15	L	2630	
315 x 200*	RDRRCD315Q	166	107	59	L	8650	
315 x 225*	RDRRCD315R	166	120	45	L	8100	
315 x 250*	RDRRCD315S	166	132	18	L	5080	


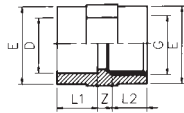
PVCu adaptor fittings metric / PVCu Raccordi e Adattatori metrici Filettati
Elbow 90° plain/BSP female threaded / Raccordo a gomito 90° incollaggio/Filettato Femmina

	d x Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	Z1	Z2	E	Pack Imballo	Weight (GR) Peso
 	GOG 16 x 3/8"	RGRGOG016A	14	11	9	12	23	S	13
	20 x 1/2"	RGRGOG020B	16	15	11	12	28	S	20
	25 x 3/4"	RGRGOG025C	19	16	14	17	34	M	35
	32 x 1"	RGRGOG032D	22	19	17	20	42	M	56
	40 x 1 1/4"	RGRGOG040E	26	21	21	26	51	M	90
	50 x 1 1/2"	RGRGOG050F	31	21	26	36	61	L	155
	63 x 2"	RGRGOG063G	38	26	33	45	75	L	265
	75 x 2 1/2"	RGRGOG075H	44	30	39	53	89	L	400
	90 x 3"	RGRGOG090I	51	33	47	65	106	L	670
	110 x 4"	RGRGOG110L	61	39	57	79	129	L	1055

Tee 90° plain/BSP female threaded branch / Raccordo a T 90° Incollaggio/bocca centrale Filettata Femmina


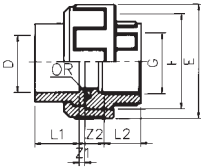
	d x Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	Z1	Z2	E	Pack Imballo	Weight (GR) Peso
 	TIG 16 x 3/8"	RGRTIG016A	14	11	9	12	23	S	17
	20 x 1/2"	RGRTIG020B	16	15	11	12	28	M	30
	25 x 3/4"	RGRTIG025C	19	16	14	17	34	M	45
	32 x 1"	RGRTIG032D	22	19	17	20	42	M	75
	40 x 1 1/4"	RGRTIG040E	26	21	21	26	51	M	120
	50 x 1 1/2"	RGRTIG050F	31	21	26	36	61	L	195
	63 x 2"	RGRTIG063G	38	26	33	45	75	L	335
	75 x 2 1/2"	RGRTIG075H	44	30	39	53	89	L	505
	90 x 3"	RGRTIG090L	51	33	47	65	106	L	810
	110 x 4"	RGRTIG110L	61	39	57	79	129	L	1325

Socket plain/BSP female threaded / Manicotto incollaggio/Filettatura Femmina


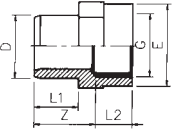
	d x Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	Z	E	Pack Imballo	Weight (GR) Peso
 	MAG 16 x 3/8"	RGRMAG016A	14	11	6	23	S	9
	20 x 1/2"	RGRMAG020B	17	15	4	28	S	18
	25 x 3/4"	RGRMAG025C	20	16	6	34	M	25
	32 x 1"	RGRMAG032D	23	19	7	42	M	38
	40 x 1 1/4"	RGRMAG040E	28	21	7	51	M	60
	50 x 1 1/2"	RGRMAG050F	32	21	7	61	M	95
	63 x 2"	RGRMAG063G	39	26	7	75	M	165
	75 x 2 1/2"	RGRMAG075H	44	30	8	89	M	215
	90 x 3"	RGRMAG090I	51	33	9	106	M	340
	110 x 4"	RGRMAG110L	61	39	10	129	L	550

PVCu adaptor fittings metric / PVCu Raccordi e Adattatori metrici Filettati

Union plain/BSP female threaded. Available also with FMP o-rings on request / Bocchettone con o'ring incollaggio/Filettato Femmina. Disponibile anche con guarnizione in FMP A richiesta

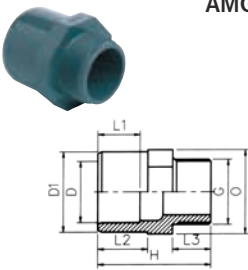
	d x Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	Z1	Z2	F	E	Pack Imballo	Weight (GR) Peso
 	BOG 16 x 3/8"	RGRBOG016A	14	11	3	14	3/4"	34	S	30
	20 x 1/2"	RGRBOG020B	16	15	3	11	1"	42	S	42
	25 x 3/4"	RGRBOG025C	19	16	3	13	1 1/4"	52	M	70
	32 x 1"	RGRBOG032D	22	19	3	13	1 1/2"	59	M	95
	40 x 1 1/4"	RGRBOG040E	26	21	3	17	2"	72	M	155
	50 x 1 1/2"	RGRBOG050F	31	21	3	24	2 1/4"	79	M	240
	63 x 2"	RGRBOG063G	38	26	3	30	2 3/4"	96	M	405
	75 x 2 1/2"*	RGRBOG075H	44	30	3	32	3 1/2"	119	L	625
	90 x 3"*	RGRBOG090I	51	33	5	36	4"	134	L	865
	110 x 4"*	RGRBOG110L	61	39	5	40	5"	163	L	1340

Spigot plain/BSP female threaded / Adattatore Incollaggio/Filettatura Femmina


	d x Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	E	Z	Pack Imballo	Weight (GR) Peso
 	AFG 16 x 3/8"	RGRAFG016A	14	12	23	22	S	16
	20 x 1/2"	RGRAFG020B	16	15	28	24	S	20
	20 x 3/4"	RGRAFG020C	16	16	34	24	S	25
	25 x 1/2"	RGRAFG025B	19	15	28	27	M	20
	25 x 3/4"	RGRAFG025C	19	16	34	27	M	25
	25 x 1"	RGRAFG025D	19	19	42	27	M	40
	32 x 3/4"	RGRAFG032C	22	16	34	30	M	32
	32 x 1"	RGRAFG032D	22	19	42	30	M	43
	40 x 1"	RGRAFG040D	26	19	42	36	M	50
	40 x 1 1/4"	RGRAFG040E	26	21	51	36	M	65
	50 x 1 1/4"	RGRAFG050E	31	21	55	41	M	78
	50 x 1 1/2"	RGRAFG050F	31	21	58	41	M	73
	50 x 2"	RGRAFG050G	31	26	72	41	M	80
	63 x 2"	RGRAFG063G	38	26	72	48	M	135
	75 x 2"	RGRAFG075G	44	26	72	53	M	175
	75 x 2 1/2"	RGRAFG075H	44	30	89	58	L	225
	75 x 3"	RGRAFG075I	44	33	103	58	M	295
	90 x 2 1/2"	RGRAFG090H	51	30	89	65	L	275
	90 x 3"	RGRAFG090I	51	33	103	65	L	310
	90 x 4"	RGRAFG090L	51	39	130	65	L	450
110 x 3"	RGRAFG110I	61	33	103	76	L	440	
110 x 4"	RGRAFG110L	61	39	130	76	L	480	

PVCu adaptor fittings metric / Adattatore Incollaggio/Filettatura Maschio

Socket or spigot plain/BSP male threaded / Adattatore Incollaggio/Filettatura Maschio

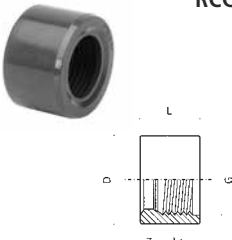
	d x D x R (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	L3	H	O	Pack Imballo	Weight (GR) Peso
	AMG 12 x 16 x 3/8"	RGRAMG012A	12	14	11	36	22	S	6
	16 x 20 x 3/8"	RGRAMG016A	14	16	11	40	24	S	10
	16 x 20 x 1/2"	RGRAMG016B	14	16	15	43	24	S	11
	20 x 25 x 3/8"	RGRAMG020A	16	19	11	43	30	S	15
	20 x 25 x 1/2"	RGRAMG020B	16	19	15	46	30	S	16
	20 x 25 x 3/4"	RGRAMG020C	16	19	16	47	30	S	18
	25 x 32 x 1/2"	RGRAMG025B	19	22	15	49	36	M	25
	25 x 32 x 3/4"	RGRAMG025C	19	22	16	50	36	M	26
	25 x 32 x 1"	RGRAMG025D	19	22	19	53	36	M	28
	32 x 40 x 3/4"	RGRAMG032C	22	26	16	54	46	M	42
	32 x 40 x 1/2"	RGRAMG032C	22	26	15	53	46	M	39
	32 x 40 x 1"	RGRAMG032D	22	26	19	57	46	M	42
	32 x 40 x 1 1/4"	RGRAMG032E	22	26	21	60	46	M	45
	40 x 50 x 1"	RGRAMG040D	26	31	19	64	55	M	71
	40 x 50 x 1 1/4"	RGRAMG040E	26	31	21	67	55	M	72
	40 x 50 x 1 1/2"	RGRAMG040F	26	31	21	67	55	M	70
	50 x 63 x 1 1/4"	RGRAMG050E	31	38	21	74	65	M	115
	50 x 63 x 1 1/2"	RGRAMG050F	31	38	21	74	65	M	113
	50 x 63 x 2"	RGRAMG050G	31	38	26	78	65	M	120
	63 x 75 x 1 1/2"	RGRAMG063F	38	44	21	80	80	M	182
63 x 75 x 2"	RGRAMG063G	38	44	26	84	80	M	181	
63 x 75 x 2 1/2"	RGRAMG063H	38	44	30	91	80	L	188	
75 x 90 x 2"	RGRAMG075G	44	52	26	94	95	M	270	
75 x 90 x 2 1/2"	RGRAMG075H	44	52	30	99	95	M	280	
75 x 90 x 3"	RGRAMG075I	44	52	33	102	95	L	292	
90 x 110 x 2 1/2"	RGRAMG090H	51	61	30	110	115	L	470	
90 x 110 x 3"	RGRAMG090I	51	61	33	113	115	L	483	
90 x 110 x 4"	RGRAMG090L	51	61	39	118	115	L	485	
110 x 125 x 3"	RGRAMG110I	61	66	33	115	130	L	475	
110 x 125 x 4"	RGRAMG110L	61	66	39	120	130	L	500	
110 x 125 x 5"	RGRAMG110M	61	66	39	120	130	L	510	

Adaptor Male Threaded / Adattatore Incollaggio/Filettatura Maschio

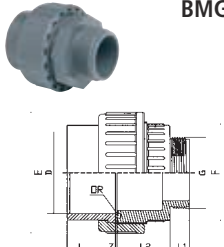
	d x R (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	L3	H	O	Pack Imballo	Weight (GR) Peso
	ADG 90 x 3"	RGRADG090I	44	51	33	97	115	L	330
	110 x 4"	RGRADG110L	51	61	39	108	130	L	520
	160 x 6"	RGRADG160O		86	48	146		L	1333

PVCu adaptor fittings metric / PVCu Raccordi e Adattatori metrici Filettati

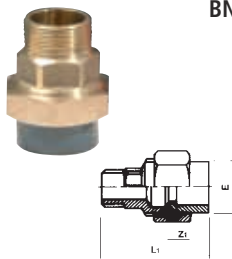
Adaptor bush / Riduzione di Passaggio

	d x Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L	Z	L1	Pack Imballo	Weight (GR) Peso
	RCG 25 x 1/2"	RGRRCG025B	19	4	15	S	8
	32 x 3/4"	RGRRCG032C	22	5,7	16,3	S	10
	40 x 1"	RGRRCG040D	26	6,9	19,1	S	17
	50 x 1 1/4"	RGRRCG050E	31	9,6	21,4	M	30
	63 x 1 1/2"	RGRRCG063F	38	16,6	21,4	M	72
	75 x 2"	RGRRCG075G	44	18,3	25,7	M	105
	90 x 2 1/2"	RGRRCG090H	51	20,8	30,2	M	154
110 x 3"	RGRRCG110I	61	27,7	33,3	M	300	

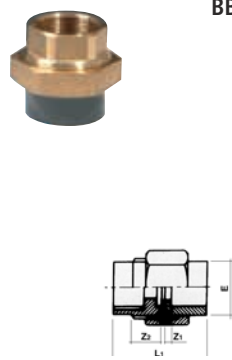
Adaptor Union Socket Plain / Bocchettone Incollaggio Femmina/Filettato Maschio

	d x R (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	E	F	Z	O-ring	Pack Imballo	Weight (GR) Peso
	BMG 50 x 1 1/2"	RGRBMG050F	31	21,4	7,9	2 1/4	3	6187	L	330
	50 x 2"	RGRBMG050G	31	25,7	7,9	2 1/4	3	6187	L	520
	63 x 2"	RGRBMG063G	38	25,7	9,6	2 3/4	3	6237	L	1333

Adaptor plain/ brass male threaded / Adattatore Incollaggio /raccordo Ottone Filettato Maschio

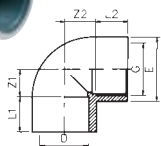
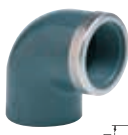
	d x R (EN UNI 10226) Nominal Size Misura nominale	Code Codice	E	L1	Z1	Pack Imballo	Weight (GR) Peso
	BNG 20 x 1/2"	RGRBNG020B	27,5	57,5	3	S	190
	25 x 3/4"	RGRBNG025C	36	68,5	3	M	242
	32 x 1"	RGRBNG032D	41,5	71,5	3	M	324
	40 x 1 1/4"	RGRBNG040E	53	85,5	3	M	480
	50 x 1 1/2"	RGRBNG050F	59	91,5	3	M	645
	63 x 2"	RGRBNG063G	74	109	3	M	1010
	75 x 2 1/2"	RGRBNG075H	92,5	126,5	3	L	1550
90 x 3"	RGRBNG090I	105	138,5	5	L	2140	

Adaptor plain/brass female threaded / Adattatore Incollaggio/ Raccordo Ottone Filettato Femmina

	d x Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	E	L1	Z1	Z2	Pack Imballo	Weight (GR) Peso
	BBG 20 x 1/2"	RGRBBG020B	27,5	44,5	3	8	S	172
	25 x 3/4"	RGRBBG025C	36	49	3	8	M	210
	32 x 1"	RGRBBG032D	41,5	52	3	8	M	280
	40 x 1 1/4"	RGRBBG040E	53	60	3	8	M	400
	50 x 1 1/2"	RGRBBG050F	59	68	3	9	M	490
	63 x 2"	RGRBBG063G	74	81	3	10	M	820
	75 x 2 1/2"	RGRBBG075H	92,5	94	3	16	L	1340
	90 x 3"	RGRBBG090I	105	103	5	14	L	1650
	40 x 1 1/4"	RGRGOR040E	53	60	3	8	M	106
	50 x 1 1/2"	RGRGOR050F	59	68	3	9	L	175
63 x 2"	RGRGOR063G	74	81	3	10	L	289	

PVCu adaptor fittings metric / PVCu Raccordi e Adattatori metrici Filettati

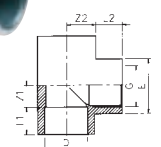
Elbow 90° Plain/BSP Female with Stainless Reinforcing Ring / Raccordo a Gomitto 90° Incollaggio/Filettato Femmina con anello di rinforzo in acciaio Inox



GOR

d x Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	Z1	Z2	E	Pack Imballo	Weight (GR) Peso
20 x 1/2"	RRGOR020B	16	15	11	12	28	S	24
25 x 3/4"	RRGOR025C	19	16	14	17	34	M	43
32 x 1"	RRGOR032D	22	19	17	20	42	M	72
40 x 1 1/4"	RRGOR040E	26	21	21	26	51	M	106
50 x 1 1/2"	RRGOR050F	31	21	26	36	61	L	175
63 x 2"	RRGOR063G	38	26	33	45	75	L	289

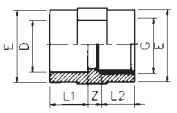
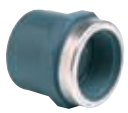
Tee 90° plain/BSP female threaded branch with stainless steel reinforcing ring / Raccordo a T 90° Incollaggio/Bocca Centrale Filettata Femmina con anello di rinforzo in acciaio Inox



TIR

d x Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	Z1	Z2	E	Pack Imballo	Weight (GR) Peso
20 x 1/2"	RRTIR020B	16	15	11	12	28	M	34
25 x 3/4"	RRTIR025C	19	16	14	17	34	M	53
32 x 1"	RRTIR032D	22	19	17	20	42	M	87
40 x 1 1/4"	RRTIR040E	27	21	21	26	51	M	136
50 x 1 1/2"	RRTIR050F	32	21	26	36	61	L	215
63 x 2"	RRTIR063G	39	26	33	45	75	L	359

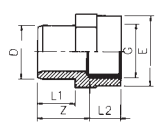
Socket plain/BSP female threaded with stainless steel reinforcing ring / Manicotto Incollaggio/Filettato Femmina con anello di rinforzo in Acciaio Inox



MAR

d x Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	Z	E	Pack Imballo	Weight (GR) Peso
20 x 1/2"	RGRMAR020B	16	15	4	28	S	22
25 x 3/4"	RGRMAR025C	19	16	6	34	M	33
32 x 1"	RGRMAR032D	22	19	6	42	M	50
40 x 1 1/4"	RGRMAR040E	27	21	8	51	M	76
50 x 1 1/2"	RGRMAR050F	32	21	13	61	M	115
63 x 2"	RGRMAR063G	39	26	15	75	M	189

Spigot plain/BSP female threaded with stainless steel reinforcing ring / Adattatore Incollaggio/ Filettato Femmina con anello di rinforzo in Acciaio Inox

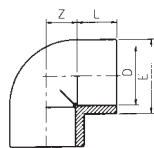


AFR

d x Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	E	Z	Pack Imballo	Weight (GR) Peso
20 x 1/2"	RGRAFR020B	16	15	28	24	S	24
20 x 3/4"	RGRAFR020C					S	
25 x 1/2"	RGRAFR025B					M	
25 x 3/4"	RGRAFR025C	19	16	34	27	M	33
25 x 1"	RGRAFR025D					M	
32 x 3/4"	RGRAFR032C					M	
32 x 1"	RGRAFR032D	22	19	42	30	M	55
40 x 1"	RGRAFR040D					M	
40 x 1 1/4"	RGRAFR040E	27	21	51	36	M	81
50 x 1 1/4"	RGRAFR050E					M	

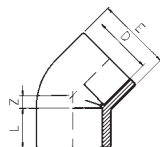
PVCu solvent cement fittings / PVCu Raccordi British Standard

Elbow 90° plain BS / Gomito a 90° BS



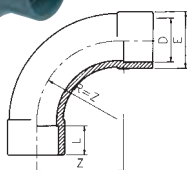
	Nominal Size Misura nominale	Code Codice	L	Z	E	Pack Imballo	Weight (GR) Peso
GOA	3/8"	RARGOA0160	15	9	23	S	13
	1/2"	RARGOA0200	17	11	27	S	20
	3/4"	RARGOA0250	20	14	33	M	35
	1" - ▽	RARGOA0320	23	17	41	M	60
	1 1/4"	RARGOA0400	27	23	51	M	90
	1 1/2" - ▽	RARGOA0500	31	28	61	L	135
	2" - ▽	RARGOA0630	38	34	75	L	220
	2 1/2"	RARGOA0750	44	40	89	L	375
	3" - ▽	RARGOA0900	52	48	106	L	600
	4" - ▽	RARGOA1100	63	58	133	L	1060
	5" - ▽	RARGOA1400	76	72	164	L	2000
6" - ▽	RARGOA1600	90	81	198	L	3200	
8"*	RARGOA2250	119	115	258	L	7500	

Elbow 45° plain BS / Gomito a 45° BS



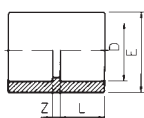
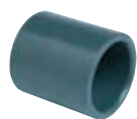
	Nominal Size Misura nominale	Code Codice	L	Z	E	Pack Imballo	Weight (GR) Peso
GYA	3/8"	RARGYA0160	15	6	23	S	10
	1/2"	RARGYA0200	17	5	27	S	17
	3/4"	RARGYA0250	20	6	33	M	30
	1" - ▽	RARGYA0320	23	8	41	M	47
	1 1/4"	RARGYA0400	27	10	50	M	77
	1 1/2" - ▽	RARGYA0500	31	12	61	M	115
	2" - ▽	RARGYA0630	38	15	75	L	154
	2 1/2"	RARGYA0750	44	18	89	L	310
	3" - ▽	RARGYA0900	52	21	106	L	485
	4" - ▽	RARGYA1100	63	25	133	L	835
	5" - ▽	RARGYA1400	76	32	164	L	1640
6" - ▽	RARGYA1600	90	36	198	L	2100	
8"*	RARGYA2250	119	49	258	L	6200	

Bend 90° short radius plain BS / Curva a 90° BS



	Nominal Size Misura nominale	Code Codice	L	Z	E	Pack Imballo	Weight (GR) Peso
CUA	1/2"	RARCUA0200	17	39	27	300	30
	3/4"	RARCUA0250	20	49	33	150	50
	1"	RARCUA0320	23	63	41	100	92
	1 1/4"	RARCUA0400	27	80	50	50	165
	1 1/2"	RARCUA0500	31	100	61	60	270
	2"	RARCUA0630	38	126	76	30	490
	2 1/2"	RARCUA0750	44	150	90	20	990
	3"	RARCUA0900	51	180	110	12	1600
4"	RARCUA1100	63	220	133	6	2150	

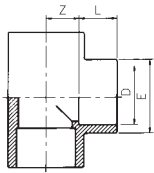
Socket plain BS / Manicotto BS



	Nominal Size Misura nominale	Code Codice	L	Z	E	Pack Imballo	Weight (GR) Peso
MAA	3/8"	RARMAA0160	15	3	23	S	9
	1/2"	RARMAA0200	17	3	27	S	15
	3/4"	RARMAA0250	20	3	33	M	23
	1" - ▽	RARMAA0320	23	3	41	M	36
	1 1/4"	RARMAA0400	27	3	50	M	60
	1 1/2" - ▽	RARMAA0500	31	3	61	L	85
	2" - ▽	RARMAA0630	38	3	76	L	145
	2 1/2"	RARMAA0750	44	4	90	L	222
	3" - ▽	RARMAA0900	51	5	110	L	353
	4" - ▽	RARMAA1100	63	6	133	L	605
	5"	RARMAA1400	76	8	161	L	1100
	6" - ▽	RARMAA1600	90	8	198	L	1400
	8"*	RARMAA2250	119	11	258	L	4100

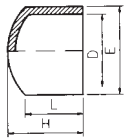
PVCu solvent cement fittings / PVCu Raccordi British Standard

Tee 90° plain BS / Raccordo a T 90° BS



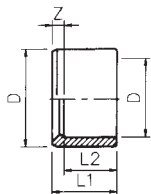
	Nominal Size Misura nominale	Code Codice	L	Z	E	Pack Imballo	Weight (GR) Peso
TIA	3/8"	RARTIA0160	15	9	24	S	15
	1/2"	RARTIA0200	17	11	28	M	25
	3/4"	RARTIA0250	20	14	34	M	44
	1" - ▽	RARTIA0320	23	17	42	M	75
	1 1/4"	RARTIA0400	27	21	51	M	120
	1 1/2" - ▽	RARTIA0500	31	26	61	L	172
	2" - ▽	RARTIA0630	38	33	75	L	363
	2 1/2"	RARTIA0750	44	39	89	L	495
	3" - ▽	RARTIA0900	52	47	106	L	790
	4" - ▽	RARTIA1100	63	57	133	L	1330
	5"	RARTIA1400	76	71	163	L	2550
	6" - ▽	RARTIA1600	90	81	198	L	4100
	8"*	RARTIA2250	119	114	258	L	9700

Cap plain BS / Calotta BS



	Nominal Size Misura nominale	Code Codice	L	H	E	Pack Imballo	Weight (GR) Peso
CAA	3/8"	RARCAA0160	15	26	23	S	7
	1/2"	RARCAA0200	17	30	27	S	10
	3/4"	RARCAA0250	20	34	33	S	18
	1"	RARCAA0320	23	38	42	M	30
	1 1/4"	RARCAA0400	27	43	50	M	45
	1 1/2"	RARCAA0500	31	48	61	M	65
	2"	RARCAA0630	38	56	75	M	110
	2 1/2"	RARCAA0750	44	67	89	M	208
	3"	RARCAA0900	52	78	106	L	325
	4"	RARCAA1100	63	81	133	L	500
	5"	RARCAA1400	76	114	162	L	920
	6"	RARCAA1600	90	127	198	L	1120
	8"*	RARCAA2250	119	165	255	L	2978

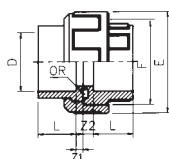
Reducing bush plain BS / Riduzione Corta Maschio Femmina BS



	Nominal Size Misura nominale	Code Codice	L1	L2	Z	FIG	Pack Imballo	Weight (GR) Peso
RCA	1/2" x 3/8"	RARRCA020A	17	15	2	A	S	3
	3/4" x 1/2"	RARRCA025B	20	17	3	A	S	6
	1" x 1/2"	RARRCA032B	23	17	6	B	S	15
	1" x 3/4"	RARRCA032C	23	20	3	A	S	10
	1 1/4" x 1"	RARRCA040D	27	23	4	A	S	16
	1 1/2" x 3/4"	RARRCA050C	31	20	12	B	M	45
	1 1/2" x 1"	RARRCA050D	31	23	9	B	M	40
	1 1/2" x 1 1/4"	RARRCA050E	31	27	5	A	M	30
	2" x 1"	RARRCA063D	38	23	16	B	M	83
	2" x 1 1/4"	RARRCA063E	38	27	12	B	M	78
	2" x 1 1/2"	RARRCA063F	38	31	7	A	M	61
	2 1/2" x 1 1/2"	RARRCA075F	44	31	13	B	M	122
	2 1/2" x 2"	RARRCA075G	44	38	6	A	M	94
	3" x 1 1/2"	RARRCA090F	52	31	20	B	M	210
	3" x 2"	RARRCA090G	52	38	13	B	M	195
	3" x 2 1/2"	RARRCA090H	52	44	7	A	M	140
	4" x 2"	RARRCA110G	63	38	23	B	M	372
	4" x 3"	RARRCA110I	63	52	10	A	M	275
	5" x 4"	RARRCA140L	76	63	15	B	L	510
	6" x 4"	RARRCA160L	90	63	25	B	L	830
	8" x 6"*	RARRCA2250	119	90	33	B	L	1700

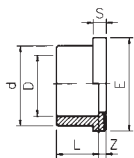
PVCu solvent cement fittings / PVCu Raccordi British Standard

Union plain BS. Unions up to 2" 15 bar (20°C), above 2" 10 bar (20°C) / Bocchettone BS con o'ring BS (PFA 15 bar fino a 2", 10 bar fino a 4" a 20°C)



	Nominal Size Misura nominale	Code Codice	L	Z1	Z2	F	E	Pack Imballo	Weight (GR) Peso
BOA	3/8"	RARBOA0160	15	3	10	3/4"	34	S	30
	1/2"	RARBOA0200	17	3	10	1"	42	S	42
	3/4"	RARBOA0250	20	3	10	1 1/4"	52	M	70
	1"	RARBOA0320	23	3	10	1 1/2"	59	M	97
	1 1/4"	RARBOA0400	27	3	12	2"	72	M	115
	1 1/2"	RARBOA0500	31	3	14	2 1/4"	79	L	216
	2"	RARBOA0630	38	3	18	2 3/4"	96	L	350
	2 1/2"*	RARBOA0750	44	3	18	3 1/2"	119	L	580
	3"*	RARBOA0900	52	5	18	4"	134	L	760
	4"*	RARBOA1100	63	5	18	5"	163	L	1340

Stub flange (serrated face) plain BS / Collare per flange Rigato BS

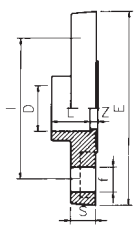


	Nominal Size Misura nominale	Code Codice	L	Z	d	S	E	Pack Imballo	Weight (GR) Peso
QRA	1/2"	RARQRA0200	17	3	27	6	34	S	10
	3/4"	RARQRA0250	20	3	33	7	41	S	16
	1"	RARQRA0320	23	3	41	7	50	S	25
	1 1/4"	RARQRA0400	27	3	50	8	61	M	40
	1 1/2"	RARQRA0500	32	3	61	8	73	M	60
	2"	RARQRA0630	39	3	76	9	90	M	105
	2 1/2"	RARQRA0750	44	3	90	10	106	L	160
	3"	RARQRA0900	52	5	108	11	125	L	280
	4"	RARQRA1100	63	5	133	12	150	L	445
	5"	RARQRA1400	76	6	165	13	188	L	740
	6"	RARQRA1600	90	7	193	13	218	L	1000
	8"*	RARQRA2250	119	7	248	19	274	L	1700

Refer to metric equivalent

PVCu full face flanges (drilled) / PVCu Flange Forate

Drilled to BS 10 table D&E plain BS / Foratura BS 10 tavola D&E BS

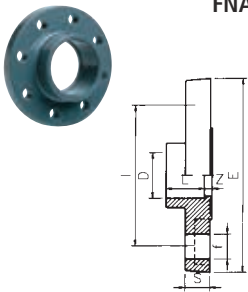


	Nominal Size Misura nominale	Code Codice	L	Z	E	f	I	S	HOLES	Pack Imballo	Weight (GR) Peso
FFA	1/2"	RARFFA0200	17	5	95	14	67	11	4	S	78
	3/4"	RARFFA0250	20	5	105	14	73	12	4	S	105
	1"	RARFFA0320	23	5	115	14	83	14	4	S	143
	1 1/2"	RARFFA0500	32	5	152	18	98	16	4	M	280
	2"	RARFFA0630	38	5	165	18	115	18	4	M	380
	3"	RARFFA0900	51	7	200	18	146	20	8	M	685
	4"	RARFFA1100	63	8	220	18	178	22	8	L	940

Refer to metric equivalent

PVCu full face flanges (drilled) / PVCu Flange Forate

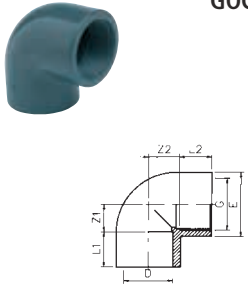
Drilled to BS 4504 NP10/16 plain BS / Foratura BS4505 PFA 10/16 BS

	Nominal Size Misura nominale	Code Codice	L	Z	E	f	I	S	HOLES	Pack Imballo	Weight (GR) Peso
	FNA 1/2"	RARFNA0200	17	5	95	14	65	8	4	S	78
	3/4"	RARFNA0250	20	5	105	14	75	9	4	S	105
	1"	RARFNA0320	23	5	115	14	85	16	4	S	143
	1 1/4"	RARFNA0400	27	5	142	18	100	17	4	M	220
	1 1/2"	RARFNA0500	32	5	152	18	110	17	4	M	280
	2"	RARFNA0630	38	5	165	18	125	20	4	M	380
	2 1/2"	RARFNA0750	44	6	185	18	145	19	4	M	505
	3"	RARFNA0900	51	7	200	18	160	22	8	M	685
	4"	RARFNA1100	63	8	220	18	180	23	8	L	940

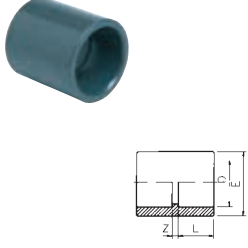
Refer to metric equivalent

PVCu adaptor fittings / PVCu Raccordi di passaggio

Elbow 90° plain BS threaded female / Raccordo Gomito 90° incollaggio BS/Filettatura Femmina

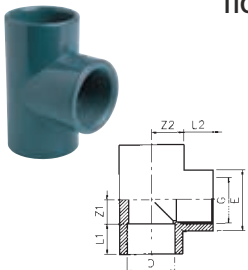
	d x Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	Z1	Z2	E	Pack Imballo	Weight (GR) Peso
	GOC 1/2"x1/2"	RCRGOC020B	17	15	11	12	28	S	20
	3/4" x 3/4"	RCRGOC025C	20	16	14	17	34	M	35
	1" x 1"	RCRGOC032D	23	19	17	20	42	M	60
	1 1/4" x 1 1/4"	RCRGOC040E	27	21	21	26	51	M	90
	1 1/2" x 1 1/2"	RCRGOC050F	32	21	26	36	61	L	155
	2" x 2"	RCRGOC063G	39	26	33	46	75	L	265
	2 1/2" x 2 1/2"	RCRGOC075H	44	30	39	53	89	L	400
	3" x 3"	RCRGOC090I	52	33	47	65	106	L	670
	4" x 4"	RCRGOC110L						L	1055

Adaptor socket plain BS/Metric / Manicotto BS/metrico

	d x d Nominal Size Misura nominale	Code Codice	L	Z	E	Pack Imballo	Weight (GR) Peso
	MAB 1/2" x 20	RBRMAB020B	16	3	27	S	16
	3/4" x 25	RBRMAB025C	19	3	33	M	25
	1" x 32	RBRMAB032D	22	3	41	M	39
	1 1/4" x 40	RBRMAB040E	27	3	52	M	53
	1 1/2" x 50	RBRMAB050F	32	3	61	L	101
	2" x 63	RBRMAB063G	39	3	75	L	178
	3" x 90	RBRMAB090I	52	5	10	L	381
	4" x 110	RBRMAB110L	67	6	133	L	750
6" x 160	RBRMAB160O	89	8	198	L	1695	

PVCu adaptor fittings / PVCu Raccordi di passaggio

Tee 90° plain/BSP female threaded BS/Metric / Raccordo T 90° Incollaggio BS/Bocca centrale Filettatura Femmina

	d x Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	Z1	Z2	E	Pack Imballo	Weight (GR) Peso
	TIC 1/2" x 1/2"	RCRTIC020B	17	15	11	12	28	M	30
	3/4" x 3/4"	RCRTIC025C	19	16	14	17	34	M	45
	1" x 1"	RCRTIC032D	23	19	17	20	42	M	75
	1 1/4" x 1 1/4"	RCRTIC040E	27	21	21	26	51	M	120
	1 1/2" x 1 1/2"	RCRTIC050F	32	21	26	36	61	L	195
	2" x 2"	RCRTIC063G	39	26	33	46	75	L	335
	2 1/2" x 2 1/2"	RCRTIC075H	44	30	39	53	89	L	505
	3" x 3"	RCRTIC090I	52	33	47	65	106	L	810
	4" x 4"	RCRTIC110L						L	1325

Socket plain/BSP female threaded BS/Metric / Manicotto incollaggio BS/Filettatura Femmina

	d x Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	Z	E	Pack Imballo	Weight (GR) Peso
	MAC 1/2" x 1/2"	RCRMAC020B	17	15	4	28	S	18
	3/4" x 3/4"	RCRMAC025C	20	16	6	34	M	25
	1" x 1"	RCRMAC032D	23	19	7	42	M	38
	1 1/4" x 1 1/4"	RCRMAC040E	27	21	7	51	M	60
	1 1/2" x 1 1/2"	RCRMAC050F	32	21	7	61	M	95
	2" x 2"	RCRMAC063G	39	26	7	75	M	165
	2 1/2" x 2 1/2"	RCRMAC075H	44	30	8	89	M	215
	3" x 3"	RCRMAC090I	52	33	9	106	L	340
	4" x 4"	RCRMAC110L	63	39	10	133	L	550

Spigot plain/BSP female threaded BS/Metric / Adattatore incollaggio BS/Filettatura Femmina


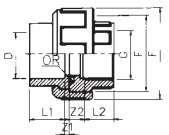
	d x Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	E	Z	Pack Imballo	Weight (GR) Peso
	AFC 1/2" x 1/2"	RCRAFC020B	17	15	28	24	S	20
	3/4" x 3/4"	RCRAFC025C	20	16	34	27	M	25
	1" x 1"	RCRAFC032D	23	19	42	30	M	43
	1 1/4" x 1 1/4"	RCRAFC040E	27	21	51	36	M	65
	1 1/2" x 1 1/2"	RCRAFC050F	32	21	58	41	M	73
	2" x 2"	RCRAFC063G	39	26	72	48	M	135
	2 1/2" x 2 1/2"	RCRAFC075H	44	30	89	58	L	225

Socket plain/BSP male threaded BS/Metric / Adattatore incollaggio BS/ Filettatura Maschio

	D x d x R (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	L3	H	O	Pack Imballo	Weight (GR) Peso
	AMC 1/2" x 3/4" x 1/2"	RCRAMC020B	17	20	15	46	30	S	15
	3/4" x 1" x 3/4"	RCRAMC025C	20	23	16	50	36	M	26
	1" x 1 1/4" x 1"	RCRAMC032D	23	27	19	57	46	M	40
	1 1/4" x 1 1/2" x 1 1/4"	RCRAMC040E	27	32	21	67	55	M	75
	1 1/2" x 2" x 1 1/2"	RCRAMC050F	32	39	21	74	65	M	113
	2" x 2 1/2" x 2"	RCRAMC063G	39	44	26	84	80	M	150
	2 1/2" x 3" x 2 1/2"	RCRAMC075H	44	52	30	99	95	M	270
	3" x 4" x 3"	RCRAMC090I	52	63	33	113	115	L	475
	4" x 5" x 4"	RCRAMC110L	63	66	39	120	130	L	500

PVCu adaptor fittings / PVCu Raccordi di passaggio


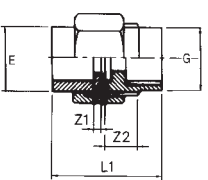
Union plain/BSP female threaded BS/Metric. Unions up to 2" 15 bar (20°C). / Bocchettone con o'ring incollaggio BS/ filettatura Femmina
 * Maximum working pressure: 10 bar (145 psi) at 20°C *PFA 15 fino a 2" - PFA: 10 bar (145 PSI) a 20°C.
 Supplied with EPDM O ring-for FPM O ring see Accessories section Forniti con o'ring EPDM. FPM a richiesta.

	d x Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	Z1	Z2	F	E	Pack Imballo	Weight (GR) Peso
 	BOC 1/2" x 1/2"	RCRBOC020B	17	15	3	11	1"	42	S	42
	3/4" x 3/4"	RCRBOC025C	20	16	3	13	1 1/4"	52	M	70
	1" x 1"	RCRBOC032D	23	19	3	13	1 1/2"	59	M	95
	1 1/4" x 1 1/4"	RCRBOC040E	27	21	3	17	2"	72	M	155
	1 1/2" x 1 1/2"	RCRBOC050F	32	21	3	24	2 1/4"	79	M	240
	2" x 2"	RCRBOC063G	39	26	3	30	2 3/4"	96	M	405
	2 1/2" x 2 1/2"*	RCRBOC075H	44	30	3	32	3 1/2"	119	L	625
	3" x 3"*	RCRBOC090I	52	33	5	36	4"	134	L	865
	4" x 4"*	RCRBOC110L	61	39	5	40	5"	163	L	1340


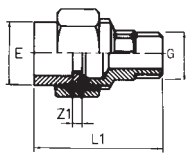
Reducing bush plain/BSP female threaded BS/Metric / Riduzione incollaggio BS/Filettatura Femmina

	d x Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	D	G	Pack Imballo	Weight (GR) Peso
 	RCC 1/2" x 3/8"	RCRRCC020A	16	1/2"	3/8"	10	5
	3/4" x 1/2"	RCRRCC025B	19	3/4"	1/2"	10	8
	1" x 3/4"	RCRRCC032C	22	1"	3/4"	10	15

Composite union plain/BSP female brass threaded BS/Metric / Bocchettone incollaggio BS/Femmina filettata in ottone

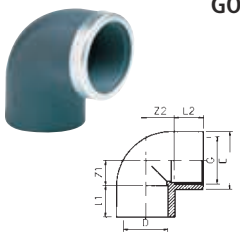
	d x Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	E	L1	Z1	Z2	Pack Imballo	Weight (GR) Peso
 	BBC 1/2" x 1/2"	RCRBBC020B	28	45	3	8	1	165
	3/4" x 3/4"	RCRBBC025C	36	49	3	8	1	290
	1" x 1"	RCRBBC032D	42	52	3	8	1	310
	1 1/4" x 1 1/4"	RCRBBC040E	53	60	3	8	1	450
	1 1/2" x 1 1/2"	RCRBBC050F	59	68	3	9	1	490
	2" x 2"	RCRBBC063G	74	81	3	10	1	950
	2 1/2" x 2 1/2"	RCRBBC075H	93	94	3	16	1	1357
	3" x 3"	RCRBBC090I	105	103	5	14	1	1663

Composite union plain/BSP male taper brass threaded BS/Metric / Bocchettone incollaggio BS/ Maschio Filettato in ottone

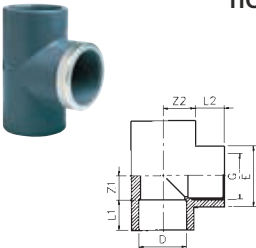
	d x R (EN UNI 10226) Nominal Size Misura nominale	Code Codice	E	L1	Z1	Pack Imballo	Weight (GR) Peso
 	BNC 1/2" x 1/2"	RCRBNC020B	28	58	3	1	175
	3/4" x 3/4"	RCRBNC025C	36	69	3	1	238
	1" x 1"	RCRBNC032D	42	72	3	1	324
	1 1/4" x 1 1/4"	RCRBNC040E	53	86	3	1	469
	1 1/2" x 1 1/2"	RCRBNC050F	59	92	3	1	595
	2" x 2"	RCRBNC063G	74	109	3	1	982
	2 1/2" x 2 1/2"	RCRBNC075H	93	127	3	1	1663
	3" x 3"	RCRBNC090I	105	139	5	1	2184

PVCu adaptor fittings / PVCu Raccordi di passaggio

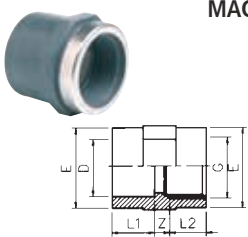
Elbow 90° plain/BSP female threaded with stainless steel reinforcing ring BS/Metric / Gomito 90° incollaggio BS /Filettato Femmina con anello di rinforzo in acciaio inox

	d x Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	Z1	Z2	Pack Imballo	Weight (GR) Peso
 <p>GOC</p>	1/2" x 1/2"	RCRGOCR020B	17	15	11	12	S	24
	3/4" x 3/4"	RCRGOCR025C	20	16	14	17	M	43
	1" x 1"	RCRGOCR032D	23	19	17	20	M	72
	1 1/4" x 1 1/4"	RCRGOCR040E	27	21	21	27	M	106
	1 1/2" x 1 1/2"	RCRGOCR050F	32	21	26	37	L	175
	2" x 2"	RCRGOCR063G	39	26	33	46	L	289

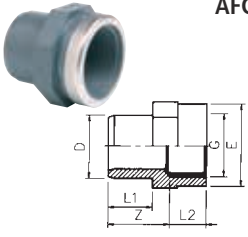
Tee 90° plain/BSP female threaded branch with stainless steel reinforcing ring BS/Metric / Raccordo a T 90° incollaggio BS /Filettato Femmina con anello di rinforzo in acciaio inox

	d x Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	Z1	Z2	Pack Imballo	Weight (GR) Peso
 <p>TIC</p>	1/2" x 1/2"	RCRTICR020B	17	15	11	12	M	34
	3/4" x 3/4"	RCRTICR025C	20	16	14	17	M	53
	1" x 1"	RCRTICR032D	23	19	17	20	M	87
	1 1/4" x 1 1/4"	RCRTICR040E	27	21	21	27	M	136
	1 1/2" x 1 1/2"	RCRTICR050F	32	21	26	37	L	215
	2" x 2"	RCRTICR063G	39	26	33	46	L	359

Socket plain/BSP female threaded with stainless steel reinforcing ring BS/Metric / Manicotto incollaggio BS /Filettato Femmina con anello di rinforzo in acciaio inox

	d x Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	Z	E	Pack Imballo	Weight (GR) Peso
 <p>MAC</p>	1/2"	RCRMACR020B	17	15	4	28	S	22
	3/4"	RCRMACR025C	20	16	6	34	M	33
	1"	RCRMACR032D	23	19	6	42	M	50
	1 1/4"	RCRMACR040E	27	21	8	51	M	76
	1 1/2"	RCRMACR050F	32	21	13	61	M	115
	2"	RCRMACR063G	39	26	15	75	M	189

Spigot plain/BSP female threaded with stainless steel reinforcing ring BS/Metric / Adattatore maschio incollaggio/ Filettato Femmina con anello di rinforzo in acciaio inox

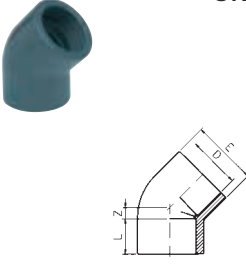
	d x Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	E	Z	Pack Imballo	Weight (GR) Peso
 <p>AFC</p>	1/2"	RCRAFCR020B	17	15	28	24	S	24
	3/4"	RCRAFCR025C	20	16	34	27	M	33
	1"	RCRAFCR032D	23	19	42	30	M	55
	1 1/4"	RCRAFCR040E	27	21	51	36	M	81
	1 1/2"	RCRAFCR050F	32	21	58	41	M	93
	2"	RCRAFCR063G	39	26	72	44	10	159

PVCu threaded fittings / PVCu Raccordi Filettati

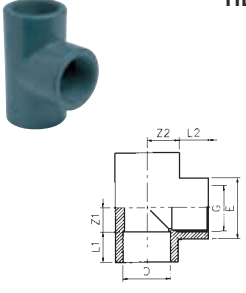
Elbow 90° BSP female threaded Metric / Gomito 90° Filettato Femmina

	Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1-L2	Z1-Z2	E	Pack Imballo	Weight (GR) Peso
	GOE 3/8"	REGOE016A	11	12	24	S	15
	1/2"	REGOE020B	15	12	28	S	22
	3/4"	REGOE025C	16	17	34	M	37
	1"	REGOE032D	19	20	42	M	60
	1 1/4"	REGOE040E	21	26	51	M	95
	1 1/2"	REGOE050F	21	36	62	L	180
	2"	REGOE063G	26	45	77	L	310
	2 1/2"	REGOE075H	30	53	89	L	425
	3"	REGOE090I	33	65	106	L	740
	4"	REGOE110L	39	79	129	L	1050

Elbow 45° BSP female threaded Metric / Gomito 45° Filettato Femmina

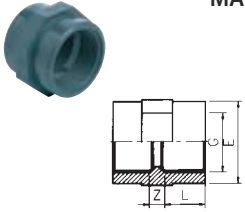
	Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L	Z	E	Pack Imballo	Weight (GR) Peso
	GYE 1/2"	REGYE020B	15	6	28	S	18
	3/4"	REGYE025C	16	9	34	S	30
	1"	REGYE032D	19	11	42	M	50
	1 1/4"	REGYE040E	21	15	51	M	80
	1 1/2"	REGYE050F	21	22	62	L	155
	2"	REGYE063G	26	26	77	L	275
	2 1/2"	REGYE075H	30	31	89	L	360
	3"	REGYE090I	33	38	106	L	620
	4"	REGYE110L	39	46	129	L	830

Tee 90° BSP female threaded Metric / Raccordo a T 90° Filettato Femmina

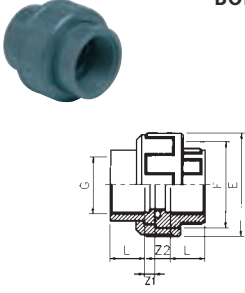
	Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1-L2	Z1-Z2	E	Pack Imballo	Weight (GR) Peso
	TIE 3/8"	RERTIE016A	11	12	24	S	18
	1/2"	RERTIE020B	15	12	28	M	30
	3/4"	RERTIE025C	16	17	34	M	50
	1"	RERTIE032D	19	20	42	M	75
	1 1/4"	RERTIE040E	21	26	51	M	120
	1 1/2"	RERTIE050F	21	36	62	L	240
	2"	RERTIE063G	26	45	77	L	410
	2 1/2"	RERTIE075H	30	53	89	L	540
	3"	RERTIE090I	33	65	106	L	880
	4"	RERTIE110L	39	79	129	L	1310

PVCu threaded fittings / PVCu Raccordi Filettati

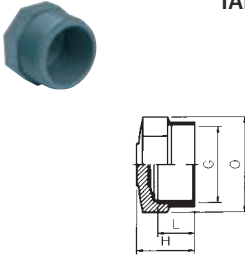
Socket BSP female threaded Metric / Manicotto Filettato Femmina

	Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L	Z	E	Pack Imballo	Weight (GR) Peso
	MAE 3/8"	RERMAE016A	11	6	23	S	8
	1/2"	RERMAE020B	15	7	27	S	20
	3/4"	RERMAE025C	16	7	33	M	25
	1"	RERMAE032D	19	8	41	M	45
	1 1/4"	RERMAE040E	21	8	50	M	65
	1 1/2"	RERMAE050F	21	8	61	M	70
	2"	RERMAE063G	26	8	75	M	125
	2 1/2"	RERMAE075H	30	9	88	M	190
	3"	RERMAE090I	33	10	106	M	290
	4"	RERMAE110L	39	11	129	L	460

Union BSP female threaded Metric / Bocchettone con o'ring Filettato Femmina

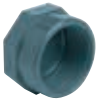
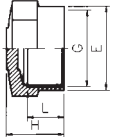
	Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L	Z1	Z2	F	E	Pack Imballo	Weight (GR) Peso
	BOE 3/8"	RERBOE016A	11	6	14	3/4"	34	S	27
	1/2"	RERBOE020B	15	4	11	1"	42	S	45
	3/4"	RERBOE025C	16	6	13	1 1/4"	52	M	72
	1"	RERBOE032D	19	6	13	1 1/2"	59	M	100
	1 1/4"	RERBOE040E	21	8	17	2"	72	M	160
	1 1/2"	RERBOE050F	21	13	24	2 1/4"	79	M	264
	2"	RERBOE063G	26	15	30	2 3/4"	96	M	455
	2 1/2"*	RERBOE075H	30	17	32	3 1/2"	119	L	635
	3"*	RERBOE090I	33	23	36	4"	134	L	905
	4"*	RERBOE110L	39	27	40	5"	163	L	1355

Plug BSP male threaded Metric / Tappo Filettato maschio

	R (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L	H	O	Pack Imballo	Weight (GR) Peso
	TAE 3/8"	RERTAE016A	11	23	19	1200	8
	1/2"	RERTAE020B	15	29	24	650	10
	3/4"	RERTAE025C	16	30	30	400	15
	1"	RERTAE032D	19	33	36	500	25
	1 1/4"	RERTAE040E	21	39	46	350	40
	1 1/2"	RERTAE050F	21	39	50	280	45
	2"	RERTAE063G	26	43	65	160	80
	2 1/2"	RERTAE075H	30	51	80	80	137
	3"	RERTAE090I	33	56	95	50	210
	4"	RERTAE110L	39	63	120	36	340

PVCu threaded fittings / PVCu Raccordi Filettati

Cap BSP female threaded Metric / Calotta filettata Femmina

	Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L	H	E	Pack Imballo	Weight (GR) Peso
 	CAE 3/8"	RERCAE016A	11	22	23	1000	7
	1/2"	RERCAE020B	15	21	28	500	15
	3/4"	RERCAE025C	16	23	34	300	17
	1"	RERCAE032D	19	26	42	180	20
	1 1/4"	RERCAE040E	21	29	51	120	35
	1 1/2"	RERCAE050F	21	32	61	230	50
	2"	RERCAE063G	26	37	75	120	80
	2 1/2"	RERCAE075H	30	50	89	60	190
	3"	RERCAE090I	33	53	103	30	270
	4"	RERCAE110L	39	59	130	25	420

Reducing bush BSP male threaded/BSP female threaded Metric / Riduzione maschio filettato/Femmina filettata

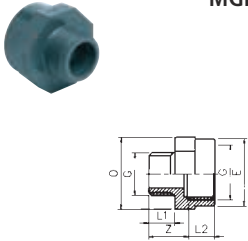
	R x Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	Z	O	Pack Imballo	Weight (GR) Peso
 	RCE 1/2" x 1/4"	RERRCE020A	15	11	16	24	S	10
	3/4" x 1/2"	RERRCE025B	16	15	13	30	S	13
	1" x 3/4"	RERRCE032C	19	16	15	36	M	20
	1 1/4" x 1"	RERRCE040D	21	19	16	46	M	35
	1 1/2" x 1 1/4"	RERRCE050E	21	21	14	50	M	37
	2" x 1 1/2"	RERRCE063F	26	21	18	65	M	67
	2 1/2" x 2"	RERRCE075G	30	26	21	80	M	135
	3" x 2 1/2"	RERRCE090H	33	30	20	95	M	160
RERCE110I						L	380	

Reducing piece BSP female threaded/BSP female threaded Metric / Riduzione Femmina Filettata / Femmina Filettata

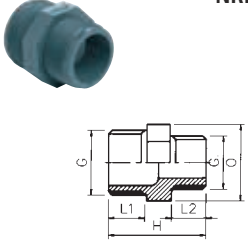
	Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	Z	E1	E2	Pack Imballo	Weight (GR) Peso
 	MRE 1/2" x 3/8"	RERMRE020A	15	11	6	28	23	S	17
	3/4" x 1/2"	RERMRE025B	16	15	7	34	27	M	25
	1" x 3/4"	RERMRE032C	19	16	7	42	33	M	40
	1 1/4" x 1"	RERMRE040D	21	19	8	51	41	M	62
	1 1/2" x 1 1/4"	RERMRE050E	21	21	8	58	50	M	72
	2" x 1 1/2"	RERMRE063F	26	21	8	72	61	M	115
	2 1/2" x 2"	RERMRE075G	30	26	8	89	75	M	128
	3" x 2 1/2"	RERMRE090H	33	30	9	103	88	L	286
	4" x 3"	RERMRE110I	39	33	10	130	106	L	436

PVCu threaded fittings / PVCu Raccordi Filettati

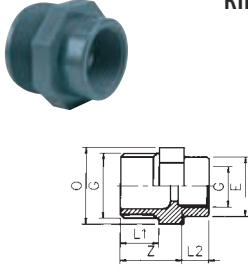
Reducing piece BSP female threaded/BSP male threaded Metric / Riduzione Femmina Filettata / Maschio Filettato

	Rp x R (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	Z	O	E	Pack Imballo	Weight (GR) Peso
	MGE 3/8" x 1/2"	RERMGE016B	11	15	22	30	28	S	16
	1/2" x 3/4"	RERMGE020C	15	16	24	36	34	S	22
	3/4" x 1"	RERMGE025D	16	19	26	46	42	S	37
	1" x 1 1/4"	RERMGE032E	19	21	30	55	51	M	59
	1 1/4" x 1 1/2"	RERMGE040F	21	21	33	60	58	M	75
	1 1/2" x 2"	RERMGE050G	21	26	34	75	72	M	110
	2" x 2 1/2"	RERMGE063H	26	30	38	90	89	M	190
	2 1/2" x 3"	RERMGE075I	30	33	44	105	103	M	262
	3" x 4"	RERMGE090L	33	39	48	130	130	M	350

Reducing nipple BSP male threaded/BSP male threaded Metric / Nipplo Filettato Maschio /Maschio

	R x R (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	H	O	Pack Imballo	Weight (GR) Peso
	NRE 1/2" x 3/8"	RERNRE020A	15	11	38	24	S	10
	3/4" x 1/2"	RERNRE025B	16	15	43	30	S	17
	1" x 3/4"	RERNRE032C	19	16	47	36	M	25
	1 1/4" x 1"	RERNRE040D	21	19	56	46	M	42
	1 1/2" x 1 1/4"	RERNRE050E	21	21	58	50	M	48
	2" x 1 1/2"	RERNRE063F	26	21	62	65	M	80
	2 1/2" x 2"	RERNRE075G	30	26	73	80	M	138
	3" x 2 1/2"	RERNRE090H	33	30	82	95	M	208
	4" x 3"	RERNRE110I	39	33	90	120	M	340

Reducing piece BSP male threaded/BSP female threaded / Riduzione Filettata Maschio /Filettata Femmina

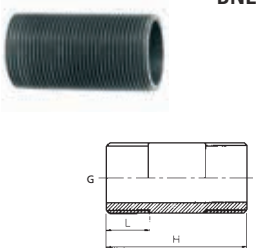
	R x Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	Z	E	O	Pack Imballo	Weight (GR) Peso
	RIE 1/2" x 3/8"	RERRIE020A	15	11	24	23	24	S	12
	3/4" x 3/8"	RERRIE025A	16	11	25	23	30	S	16
	3/4" x 1/2"	RERRIE025B	16	15	26	28	30	S	20
	1" x 3/8"	RERRIE032A	19	11	28	23	36	M	25
	1" x 1/2"	RERRIE032B	19	15	29	28	36	M	26
	1" x 3/4"	RERRIE032C	19	16	30	34	36	M	26
	1 1/4" x 1/2"	RERRIE040B	21	15	33	28	46	M	42
	1 1/4" x 3/4"	RERRIE040C	21	16	33	34	46	M	43
	1 1/4" x 1"	RERRIE040D	21	19	33	42	46	M	46
	1 1/2" x 3/4"	RERRIE050C	21	16	34	34	50	M	46
	1 1/2" x 1"	RERRIE050D	21	19	34	42	50	M	50
	1 1/2" x 1 1/4"	RERRIE050E	21	21	34	51	55	M	60
	2" x 1"	RERRIE063D	26	19	37	42	65	M	85

PVCu threaded fittings / PVCu Raccordi Filettati

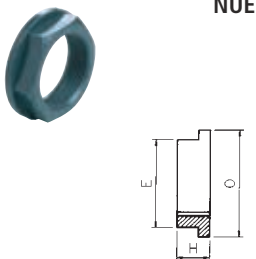
Reducing piece BSP male threaded/BSP female threaded / Riduzione Filettata Maschio /Filettata Femmina

	R x Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L1	L2	Z	E	O	Pack Imballo	Weight (GR) Peso
	RIE 2" x 11/4"	RERRIE063E	26	21	37	51	65	M	85
	2" x 11/2"	RERRIE063F	26	21	37	58	65	M	87
	2 1/2" x 1 1/4"	RERRIE075E	30	21	43	51	80	M	140
	2 1/2" x 1 1/2"	RERRIE075F	30	21	43	58	80	M	138
	2 1/2" x 2"	RERRIE075G	30	26	43	72	80	M	142
	3" x 1 1/2"	RERRIE090F	33	21	47	58	95	M	200
	3" x 2"	RERRIE090G	33	26	47	72	95	M	205
	3" x 2 1/2"	RERRIE090H	33	30	47	89	95	L	215
	4" x 2"	RERRIE110G	39	26	53	72	120	L	325
	4" x 2 1/2"	RERRIE110H	39	30	53	89	120	L	330
	4" x 3"	RERRIE110I	39	33	53	103	120	L	350

Barrel nipple BSP male taper threaded Metric / Barra Passaparete Filettata Maschio


	R (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L	Pack Imballo	Weight (GR) Peso
	BNE 1/2"	RERBNE020B	60	S	11
	3/4"	RERBNE025C	60	M	19
	1"	RERBNE032D	80	M	36
	1 1/4"	RERBNE040E	80	M	51
	1 1/2"	RERBNE050F	80	M	64
	2"	RERBNE063G	100	M	119
	2 1/2"	RERBNE075H	120	M	178
	3"	RERBNE090I	150	L	355
	4"	RERBNE110L	150	L	420

Backnut BSP female threaded / Ghiera Filettata Femmina per Passaparete


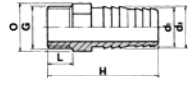
	Rp (EN UNI 10226) Nominal Size Misura nominale	Code Codice	E	H	O	Pack Imballo	Weight (GR) Peso
	NUE 1/2"	RERNUE020B	28	13	38	S	13
	3/4"	RERNUE025C	33	14	43	S	16
	1"	RERNUE032D	46	16	56	M	30
	1 1/4"	RERNUE040E	50	18	65	M	35
	1 1/2"	RERNUE050F	60	19	72	M	45
	2"	RERNUE063G	80	21	94	M	95
	2 1/2"	RERNUE075H	95	23	105	M	180
	3"	RERNUE090I	110	27	125	M	235
4"	RERNUE110L	140	31	154	M	350	

PVCu threaded fittings / PVCu Raccordi Filettati

Tank connector BSP male threaded/spigot serrated / Raccordo Passaparete Completo

	R (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L	Pack Imballo	Weight (GR) Peso
	ASE 1/2"	RERASE020B	60	S	32
	3/4"	RERASE025C	60	S	42
	1"	RERASE032D	80	S	93
	1 1/4"	RERASE040E	80	M	118
	1 1/2"	RERASE050F	80	M	163
	2"	RERASE063G	100	M	280
	2 1/2"	RERASE075H	120	L	419
	3"	RERASE090I	150	L	680
	4"	RERASE110L	150	L	1019

Tank connector BSP male threaded/spigot serrated / Portagomma maschio Filettato

	R x d (EN UNI 10226) Nominal Size Misura nominale	Code Codice	L	H	D1	D2	O	Pack Imballo	Weight (GR) Peso
 	PGE 3/8" x 16 x 18	RERPGE016A	12	64	16	18	19	S	15
	1/2" x 20 x 22	RERPGE020B	15	70	20	22	24	S	20
	3/4" x 25 x 27	RERPGE025C	17	76	25	27	30	S	30
	1" x 30 x 32	RERPGE032D	20	80	32	34	36	M	50
	1 1/4" x 40 x 42	RERPGE040E	22	92	40	42	46	L	70
	1 1/2" x 50 x 52	RERPGE050F	23	99	50	52	50	M	118
	2" x 60 x 64	RERPGE063G	26	118	60	63	65	M	190