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Pipe
Systems



Fitting
Systems



Valve &
Flow Control
Systems



Flange &
Connection
Systems



Cable
Management
Systems



Plastic
Welding
Systems



CATALOG | 2026

WATER SUPPLY SYSTEMS

PT. Golden Piping Indonesia

AMD



Public Utility
Infrastructure



Building
& Industry



Energy & Natural
Resources



Digital
Infrastructure

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INTEGRATED PIPING SYSTEM

- Pipe Systems
- Fitting Systems
- Valve & Flow Control Systems
- Flange & Connection Systems
- Cable Management Systems
- Plastic Welding Systems

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**TENTANG
PERUSAHAAN****ABOUT
COMPANY**

PT. Golden Piping Indonesia adalah perusahaan yang fokus pada penyediaan solusi sistem perpipaan terintegrasi untuk memenuhi kebutuhan infrastruktur dan industri modern.

GPI menghadirkan portofolio produk yang lengkap dan komprehensif, mencakup Pipe Systems, Fitting Systems, Valve & Flow Control Systems, Flange & Connection Systems, Cable Management Systems, serta Plastic Welding Systems.

Produk dan solusi GPI dirancang untuk mendukung berbagai sektor strategis, antara lain Public Utility Infrastructure, Building & Industry, Energy & Natural Resources, dan Digital Infrastructure.

Dengan komitmen terhadap kualitas, efisiensi, dan pertumbuhan jangka panjang, GPI tidak hanya berperan sebagai penyedia produk, tetapi juga sebagai mitra strategis yang menghadirkan solusi sistem perpipaan terintegrasi sesuai kebutuhan pelanggan.

Didukung oleh produk berkualitas tinggi, layanan profesional, serta dukungan teknis yang andal, GPI berkomitmen untuk memberikan nilai tambah, meningkatkan efisiensi operasional, dan menghadirkan keandalan jangka panjang bagi setiap pelanggan.

PT. Golden Piping Indonesia is a company specializing in the provision of integrated piping system solutions to meet the demands of modern infrastructure and industrial development.

GPI offers a comprehensive portfolio of products, including Pipe Systems, Fitting Systems, Valve & Flow Control Systems, Flange & Connection Systems, Cable Management Systems, and Plastic Welding Systems.

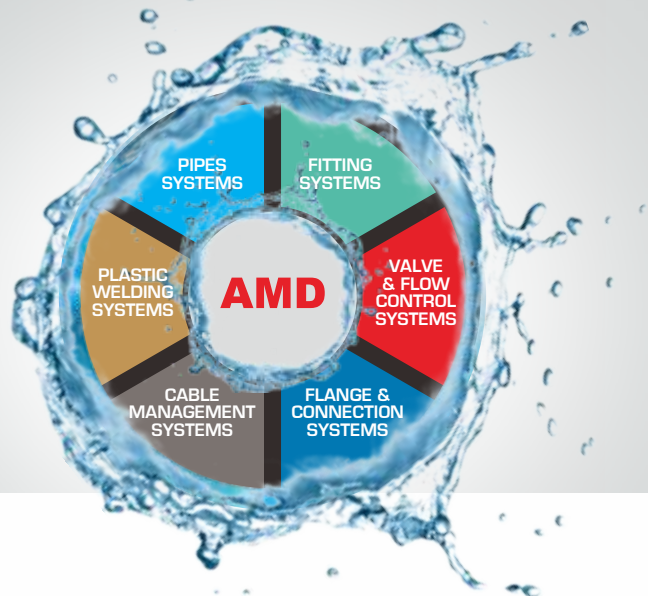
GPI's products and solutions are designed to support a wide range of strategic sectors, including Public Utility Infrastructure, Building & Industry, Energy & Natural Resources, and Digital Infrastructure.

Committed to quality, efficiency, and long-term growth, GPI is more than just a product supplier, we are a strategic partner dedicated to delivering integrated piping system solutions tailored to our customers' specific requirements.

Supported by high-quality products, professional services, and reliable technical support, GPI is committed to creating added value, enhancing operational efficiency, and delivering long-term reliability for every customer.







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INTEGRATED PIPING SYSTEM



Public Utility
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Product Description

PE Water Pipe adalah pipa berbahan High-Density Polyethylene (HDPE) PE100 yang dirancang untuk sistem distribusi air bertekanan. Pipa ini banyak digunakan pada jaringan air bersih modern karena memiliki ketahanan tinggi terhadap korosi, fleksibilitas unggul, serta sistem sambungan fusion yang kedap bocor. Produk ini menjadi solusi ideal untuk water supply system, baik untuk jaringan kota, kawasan industri, maupun proyek infrastruktur skala besar.



Technical Specifications

Material	PE100	
Standard	SNI 4829.2:2015 / ISO 4427-2	
Diameter	DN 16 - DN 1200	
Color	Black / Black with Blue Stripe	
Pressure Nominal	6, 8, 10, 12.5, 16, 20, 25 Bar	
SDR	26, 21, 17, 13.6, 11, 9, 7.4	
Standard	Roll	50, 100, 200, 300, 400, 500 m
Length	Straight	5.8, 6, 8, 9, 11.8, 12 m

Standards & Certifications



SNI 4829.2:2015

ISO 4427.2:2019
ISO 4427.2:2007

Quality & Testing

- Hydrostatic pressure test
- Dimensional inspection
- Impact resistance test
- Material quality control (MFI & density)
- Visual & Surface Inspection

Summary

PE Water Pipe merupakan solusi perpipaan modern yang menggabungkan kekuatan, fleksibilitas, dan ketahanan tinggi terhadap lingkungan, menghasilkan sistem distribusi air yang andal, efisien, dan berumur panjang. Produk ini menjadi pilihan utama untuk proyek infrastruktur air berskala kecil hingga besar dengan kebutuhan performa tinggi dan biaya operasional rendah.

Product Concept

Solusi perpipaan modern berbasis material polietilena berkepadatan tinggi yang mengutamakan fleksibilitas, durabilitas, dan efisiensi instalasi untuk infrastruktur air masa kini dan masa depan.

Function (Fungsi)

Menyalurkan air bersih bertekanan secara aman dan efisien dengan performa tinggi, sambungan bebas bocor, serta ketahanan terhadap korosi dan bahan kimia.

System Role (Peran dalam Sistem)

Komponen utama dalam sistem penyediaan dan distribusi air (SPAM), mencakup jaringan transmisi, distribusi, hingga sambungan ke pengguna akhir.

Advantages

- **Corrosion Resistant** → tidak berkarat & tahan lingkungan agresif
- **Leak-Free Joint** → sistem penyambungan butt fusion & electrofusion tanpa kebocoran
- **High Flexibility** → tahan pergerakan tanah & gempa
- **Smooth Internal Surface** → aliran optimal, pressure loss rendah
- **Lightweight** → ringan, mudah transport & instalasi
- **Long Service Life** → umur pakai ≥ 50 tahun
- **Low Maintenance** → biaya operasional rendah

Applications

- Public Utility Infrastructure (SPAM / PDAM)
- Building & Residential
- Industrial & Commercial
- Agro & Irrigation System
- Marine & Remote Area

Jointing System

- Butt Fusion (utama untuk diameter besar)
- Electrofusion (presisi tinggi & repair)
- Compression Fitting (diameter kecil ≤ Dn110)
- Push Fitting (diameter kecil ≤ Dn32)

Installation Method

- Open trench installation
- HDD / trenchless installation
- Above ground (opsional, dengan support system)

Related Products

- PE Fittings (Butt Fusion/Electrofusion/Mechanical)
- Valves (Gate Valve, Ball Valve)
- Flange Adaptor & Stub End
- Plastic Welding Equipment

Tehcnical Data Sheet (TDS)

Property	Value	Unit	Metode Pengujian
Material Properties			
Density [Compound]	0.948 - 0.960	kg/m ³	ISO 1183-1 / ASTM D 1505
Melt Flow Rate [190 °C/5,5 kg]	0.20 - 0.26	g/10min	ISO 1133 / ASTM D 1238
Tensile Modulus [1 mm/min]	800 - 1300	MPa	ISO 527-2 / ASTM D 790
Elongation at Break [50 mm/min]	350 - 760	%	ISO 527-2 / ASTM D 638
Elongation at Yield [50 mm/min]	30	MPa	ISO 527-2 / ASTM D 638
Carbon black content	2 - 2,5	%	ISO 6964
Carbon black dispersion	< 3	-	ISO 18553
Oxidation Induction Time [210 °C]	> 20	min	ISO 11357-6 / ASTM D 3895
Mechanical Properties			
Hydrostatic Strength [20°C]	Pass		ISO 1167
Hydrostatic Strength [80°C]	Pass		ISO 1167
Impact Resistance	Excellent		ISO 179
Slow Crack Growth Resistance	> 3000	h	ISO 16770 (FNCT)
Rapid Crack Propagation	Excellent		ISO 13479
Physical Properties			
Longitudinal Reversion	≤ 3	%	ISO 2505
MFR Change After Processing	± 20	%	ISO 1133
Thermal Conductivity	0.40	W/m.K	ASTM C177
Linear Thermal Expansion	1.8 × 10	/°C	ASTM D696
Specific Heat Capacity	1.9	J/g.°C	Typical Value
Hydraulic Properties			
Hazen-Williams Coefficient	150		
Surface Roughness [k]	0.007 mm		
Internal Surface	Smooth		
Pressure Loss	Very Low		

Perbandingan antara Pipa HDPE, PVC dan Steel

SUBJECT	HDPE	PVC	STEEL	EFFECT TO
Flexibility	✓	X	X	Deformation Proof
	Flexible	Stiff	Very Hard	
Durability	✓	X	Δ	Reduce Life Cycle Cost
	No Stain	Crack	Corrode	
Wokability	✓	✓	X	Safe Construction Time
	Leight Weight	Leight Weight	Heavy	
Wheatherability	✓	X	Δ	Safe Construction Cost
	No Trouble	Deteriorate	Corrode	
Join Method	✓	X	Δ	Reliability For Leakage
	Fusion	Glue	Weld/Thread	
Life Time	100 Years	30 Years	40 Years	Reduce Replacement & Maintenance Cost

Koefisien tekanan kerja maksimum untuk temperatur air

Temperatur Air °C	Koefisien tekanan nominal (PN)
20°	1
30°	0.87
40°	0.74

- Untuk temperatur lainnya dapat menggunakan perhitungan interpolasi [SNI 4829.2:2015]
- Operating Temperature : 20°C (Reference)
- Maximum Operating Temperature : Up to 40°C*

PE100 Water Pipe Wall Thickness (According to SNI 4829.2:2015)

Nominal Diameter (DN/OD)			PN 6	PN 8	PN 10	PN 12.5	PN 16	PN 20	PN 25
OD min	OD max	Inch (Reference)	SDR 26 S 12.5 en	SDR 21 S 10 en	SDR 17 S 8 en	SDR 13.6 S 6.3 en	SDR 11 S 5 en	SDR 9 S 4 en	SDR 7.4 S 3.2 en
16	16.3	3/8	-	-	-	-	1.5*	2.0	2.3
20	20.3	1/2	-	-	1.2*	1.5*	2.0	2.3	3.0
25	25.3	3/4	-	-	1.5*	2.0	2.3	3.0	3.5
32	32.3	1	-	-	2.0	2.4	3.0	3.6	4.4
40	40.4	1-1/4	-	2.0	2.4	3.0	3.7	4.5	5.5
50	50.4	1-1/2	2.0	2.4	3.0	3.7	4.6	5.6	6.9
63	63.4	2	2.5	3.0	3.8	4.7	5.8	7.1	8.6
75	75.5	2-1/2	2.9	3.6	4.5	5.6	6.8	8.4	10.3
90	90.6	3	3.5	4.3	5.4	6.7	8.2	10.1	12.3
110	110.7	4	4.2	5.3	6.6	8.1	10.0	12.3	15.1
125*	125.8	5	4.8	6.0	7.4	9.2	11.4	14.0	17.1
140*	140.9	5-1/2	5.4	6.7	8.3	10.3	12.7	15.7	19.2
160	161	6	6.2	7.7	9.5	11.8	14.6	17.9	21.9
180*	181.1	7	6.9	8.6	10.7	13.3	16.4	20.1	24.6
200	201.2	8	7.7	9.6	11.9	14.7	18.2	22.4	27.4
225*	226.4	9	8.6	10.8	13.4	16.6	20.5	25.2	30.8
250	251.5	10	9.6	11.9	14.8	18.4	22.7	27.9	34.2
280*	281.7	11	10.7	13.4	16.6	20.6	25.4	31.3	38.3
315	316.9	12	12.1	15.0	18.7	23.2	28.6	35.2	43.1
355	357.2	14	13.6	16.9	21.1	26.1	32.2	39.7	48.5
400	402.4	16	15.3	19.1	23.7	29.4	36.3	44.7	54.7
450	452.7	18	17.2	21.5	26.7	33.1	40.9	50.3	61.5
500	503	20	19.1	23.9	29.7	36.8	45.4	55.8	-
560	563.4	22	21.4	26.7	33.2	41.2	50.8	62.6	-
630	633.8	24	24.1	30.0	37.4	46.3	57.2	70.3	-
710	716.4	28	27.2	33.9	42.1	52.2	64.5	79.3	-
800	807.2	32	30.6	38.1	47.4	58.8	72.6	89.3	-
900	908.1	36	34.4	42.9	53.3	66.2	81.7	-	-
1000	1009	40	38.2	47.4	59.3	72.5	90.2	-	-
1200	1210.8	48	45.9	57.2	67.9	88.2	-	-	-
1400*	1412.6	56	53.5	66.7	82.4	102.9	-	-	-
1600*	1614.4	64	61.2	76.2	94.1	117.6	-	-	-
1800*	1816.2	72	69.1	85.7	105.9	-	-	-	-
2000*	2018.0	80	76.9	95.2	117.6	-	-	-	-

Keterangan:S : seri pipa (tidak memiliki satuan) $S = (SDR - 1) / 2$ SDR : standard dimension ratio ($SDR = DN/en$)

DN/OD : diameter luar nominal (dn), dalam millimeter

ID = OD - (2 × Wall Thickness)

* Produced subject to project requirement.

PN : Nominal Pressure adalah tekanan operasi kontinu maksimum pada suhu referensi 20°C berdasarkan koefisien desain minimum ($C = 1,25$).

Inch size shown for reference only.

Weight (kg/m) = $(\pi/4 \times (OD^2 - ID^2) \times \text{Density}) \div 1.000.000$

Standard Length PE Water Pipe



PE Pipe Roll (Coil)



PE Pipe Straight (Batang)

Pipa Roll (digulung)

Pipa harus digulung sedemikian rupa untuk menghindari perubahan bentuk setempat, misalnya tekukan dan puntiran. Diameter internal minimum gulungan harus lebih besar atau sama dengan 18dn.

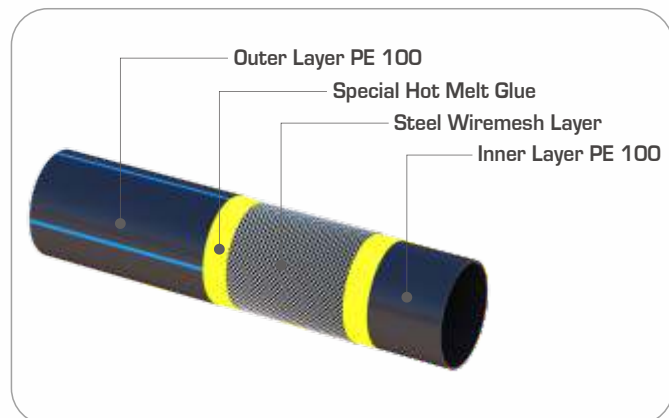
Panjang Pipa

Tidak ada persyaratan yang ditetapkan tentang panjang tertentu dari pipa gulung atau lurus atau toleransinya, sehingga perlu dilakukan kesepakatan antara pembeli dan pabrikan terkait panjang pipa yang harus disediakan.

DN/OD		METER / ROLL						METER / STRAIGHT					
mm	Inch	500	400	300	200	100	50	12	11.8	9	8	6	5.8
16	3/8	•	•	•	•	•	•						
20	1/2	•	•	•	•	•	•						
25	3/4	•	•	•	•	•	•						
32	1		•	•	•	•	•						
40	1 1/4			•	•	•	•						
50	1-1/2				•	•	•						
63	2				•	•	•	•	•	•	•	•	•
75	2-1/2					•	•	•	•	•	•	•	•
90	3					•	•	•	•	•	•	•	•
110	4						•	•	•	•	•	•	•
125	5							•	•	•	•	•	•
140	5							•	•	•	•	•	•
160	6							•	•	•	•	•	•
180	6							•	•	•	•	•	•
200	8							•	•	•	•	•	•
225	8							•	•	•	•	•	•
250	10							•	•	•	•	•	•
280	10							•	•	•	•	•	•
315	12							•	•	•	•	•	•
355	14							•	•	•	•	•	•
400	16							•	•	•	•	•	•
450	18							•	•	•	•	•	•
500	20							•	•	•	•	•	•
560	22							•	•	•	•	•	•
630	24							•	•	•	•	•	•
710	28							•	•	•	•	•	•
800	32							•	•	•	•	•	•
900	36											•	•
1000	40											•	•
1200	48											•	•

Product Description

Pipa HDPE (High Density Polyethylene) Steel Wiremesh Reinforced Thermoplastic Pipe (RTP), merupakan Pipa Composite 3 layer yang terdiri dari bagian dalam terbuat dari bahan PE-100, bagian tengah Steel wiremesh sebagai tulangan penguat dan bagian luar dilapisi kembali dengan PE-100, direkatkan menggunakan lem khusus dan dipanaskan hingga menyatu, memiliki kekuatan setara dengan pipa steel, flexible, mudah dalam pemasangan, lebih tahan lama, tahan korosi dan tekanan tinggi hingga 35 bar.



Technical Specifications

Material	PE100 - Steel Wiremesh	
Standard	GB/T 32439, CJ/T 189	
Diameter	DN 50 - DN 800	
Color	Black / Black with Blue Stripe	
Pressure Nominal	8, 10, 12.5, 16, 20, 25, 35 Bar	
SDR	21, 17, 13.6, 11, 9, 7.4, 6	
Standard	Roll	Ø 50 - Ø 110 (50, 100, 200 m)
Length	Straight	Ø 50 - Ø 800 (5.8, 6, 11.8, 12 m)

Quality & Testing

- Hydrostatic pressure test
- Burst pressure test
- Adhesion test (layer bonding)
- Tensile strength test
- Dimensional inspection

Related Products

- RTP fittings & connectors
- Flange system
- Valve system
- HDPE pipe (standard pressure)

Summary

PE RTP Steel Wire Mesh Pipe adalah solusi perpipaan komposit bertekanan tinggi yang menggabungkan kekuatan baja dan ketahanan korosi PE, memberikan performa unggul untuk aplikasi industri, energi, dan infrastruktur berat.

Product Concept

Solusi perpipaan Reinforced Thermoplastic Pipe (RTP) yang menggabungkan fleksibilitas PE dengan kekuatan baja untuk menghasilkan pipa berperforma tinggi, ringan, dan tahan terhadap tekanan serta lingkungan agresif.

Function (Fungsi)

Menyalurkan fluida bertekanan tinggi dengan stabilitas struktural tinggi, tahan terhadap tekanan internal, beban eksternal, dan korosi.

System Role (Peran dalam Sistem)

Digunakan sebagai bagian dari High-Pressure Pipeline System, terutama pada sektor energi, industri, dan aplikasi khusus yang membutuhkan kekuatan ekstra.

Advantages

- Kekuatan tinggi (reinforced steel mesh)
- Tahan tekanan lebih tinggi dibanding HDPE biasa
- Tahan korosi (tidak seperti pipa baja full)
- Lebih ringan dari steel pipe
- Fleksibel & instalasi lebih mudah
- Umur pakai panjang

Applications

- Oil & gas pipeline
- Water transmission bertekanan tinggi
- Mining slurry (high pressure)
- Industrial pipeline
- Fire water system

Jointing System

- Mechanical joint (flange / coupling)
- Special connector RTP system
- Flange adaptor

Installation Method

- Buried installation
- Above ground installation
- Skid / rack mounting (industrial)
- Flexible routing (minim bending fitting)

Thickness PE-STEEL RTP

Nominal Diameter		Toleransi	PN 8	PN 10	PN 12.5	PN 16	PN 20	PN 25	PN 35
mm	Inch	mm	mm	mm	mm	mm	mm	mm	mm
50	1-1/2	+1.2	-	-	-	5.0	5.5	6.0	6.5
63	2	+1.2	-	-	-	5.5	6.0	6.5	7.0
75	2-1/2	+1.2	-	-	5.5	6.0	6.5	7.0	7.5
90	3	+1.4	-	-	5.5	6.5	7.0	7.5	8.0
110	4	+1.5	-	6.0	5.5	7.0	7.5	8.0	8.5
140	5-1/2	+1.7	-	6.0	-	8.0	8.5	9.5	10.5
160	6	+2.0	-	6.5	6.0	9.0	9.5	10.5	11.5
200	8	+2.3	-	7.0	6.0	9.5	10.5	12.5	13.0
225	9	+2.5	-	8.0	8.0	10.0	10.5	12.5	-
250	10	+2.5	8.0	10.5	10.5	12.0	12.5	13.0	-
315	12	+2.7	9.5	12.5	11.5	13.0	13.0	14.5	-
355	14	+2.8	10.0	12.5	12.0	14.0	-	-	-
400	16	+3.0	10.5	13.0	12.5	15.0	-	-	-
450	18	+3.2	11.5	14.0	13.5	16.0	-	-	-
500	20	+3.2	12.5	16.0	15.5	18.0	-	-	-
560	22	+3.2	17.0	20.0	-	21.0	-	-	-
630	24	+3.2	20.0	22.0	-	24.0	-	-	-
710	28	+3.8	23.0	26.0	-	30.0	-	-	-
800	32	+3.8	27.0	30.0	-	34.0	-	-	-

Perbandingan HDPE Water Pipe VS HDPE Steel RTP

Aspek	HDPE Water Pipe	HDPE Steel RTP
Construction	Single-layer PE100 Pipe	Multi-layer Composite Pipe (PE + Steel Reinforcement + PE Outer Layer)
Material	Pe100 / PE100-RC	PE100 + High Strength Steel Reinforcement
Pipe Type	Solid Wall HDPE Pipe	Reinforced Thermoplastic Pipe (RTP)
Pressure Nominal	PN6 – PN25	High Pressure (hingga puluhan bar, tergantung desain pipa)
Operating Pressure	Low to Medium Pressure	Medium to High Pressure
Temperature Range	0°C – 40°C (continuous water service)	Lebih tinggi dibanding HDPE standar (sesuai desain produk)
Flexibility	Excellent	High
Corrosion Resistance	Excellent	Excellent
Chemical Resistance	Excellent	Excellent
Abrasion Resistance	Excellent	Excellent
Internal Surface	Smooth	Smooth
Weight	Lightweight	Lebih ringan dibanding steel pipe dengan tekanan setara
Joining System	Butt Fusion, Electrofusion, Mechanical	Mechanical Connector, Flanged Connection atau sistem khusus RTP
Installation	Open Trench, HDD, Trenchless	Open Trench, HDD, Surface Pipeline
Service Life	≥50 Years	≥20–50 Years (tergantung desain dan kondisi operasi)
Typical Diameter	DN16 – DN2000	Umumnya DN50 – DN800

Product Description

PE Butt Fusion Fitting adalah komponen sambungan pipa berbahan HDPE (High Density Polyethylene) yang dirancang untuk proses penyambungan menggunakan metode butt fusion welding. Pada metode ini, dua permukaan HDPE (pipa dan fitting) dipanaskan hingga mencapai titik leleh, kemudian ditekan dan disatukan sehingga terjadi ikatan molekuler permanen. Hasil sambungan yang dihasilkan bersifat homogen, kuat dan memiliki ketahanan setara dengan pipa itu sendiri.

Keterangan Produk

Nama Produk	PE Butt Fusion Fitting
Material	PE100
Merek	AMD
Warna Produk	Hitam, Hitam Strip Biru
Sertifikat	SNI

Spesifikasi Produk

Nominal Diameter	20 - 1200 mm			
Tekanan Kerja				
PN	10	12.5	16	20
SDR	17	13.6	11	9

Keunggulan Produk

- Sambungan sangat kuat (strenght = atau > pipa)
- Leak-free / watertight
- Tanpa lem & tanpa seal tambahan
- Tahan korosi & kimia
- Cocok untuk tekanan tinggi
- Umur layanan panjang (50+ tahun)

Aplikasi Produk

- Air minum & PDAM
- Sewer & Drainage
- Gas distribution
- Irigasi pertanian
- Industrial piping
- Infrastruktur utilitas bawah tanah

Perbedaan Fitting

Aspek	Butt Fusion Fitting	Electrofusion Fitting
Metode	Pemanasan permukaan & penekanan	Pemanasan internal dengan coil listrik
Alat	Mesin welding butt fusion	Control box + EF fitting
Kondisi Lapangan	Perlu ruang untuk alat	Cocok ruang sempit
Ukuran	Umumnya Ø63 mm ke atas	Cocok untuk Ø20 mm – Ø630 mm
Joint	Homogen, sangat kuat	Sangat kuat, cocok gas & air



Metode Penyambungan (Butt Fusion Process)

Tahapan umumnya meliputi:

- **Facing / Planning**, meratakan dan menyamakan permukaan ujung pipa & fitting.
- **Heating**, memanaskan ujung hingga meleleh menggunakan heating plate
- **Fusion / Joining**, menggabungkan ujung pipa & fitting dengan tekanan tertentu
- **Cooling**, mempertahankan tekanan hingga sambungan dingin dan mengeras

Hasil sambungan menjadi monolithic joint (sambungan satu kesatuan), tanpa celah dan tanpa bahan tambahan.

Kontrol Kualitas dan Inspeksi

- Visual inspection
- Bead inspection (inner/outer bead)
- Tensile strength (ASTM)
- Hydrostatic test
- NDT (optional, seperti ultrasound untuk proyek kritis)



PE Stub End BF Injection
DN.20 - DN.1200
PN.20/PN.16/PN.12.5/PN.10

01



Elbow 90° BF Injection
DN.20 - DN.1200
PN.20/PN.16/PN.12.5/PN.10

02



Elbow 45° BF Injection
DN.20 - DN.1200
PN.20/PN.16/PN.12.5/PN.10

03



Elbow 22.5° BF Injection
DN.50 - DN.1200
PN.20/PN.16/PN.12.5/PN.10

04



Equal Tee BF Injection
DN.20 - DN.1200
PN.20/PN.16/PN.12.5/PN.10

05



Tee Y 45° BF Injection
DN.63 - DN.400
PN.20/PN.16/PN.12.5/PN.10

06



Cross Tee BF Injection
DN.50 - DN.630
PN.20/PN.16/PN.12.5/PN.10

07



PE End Cap BF Injection
DN.20 - DN.1200
PN.20/PN.16/PN.12.5/PN.10

08



PE Reducer BF Injection
DN.20x_ - DN.1200x_
PN.20/PN.16/PN.12.5/PN.10

09



PE Reducer Tee BF Injection
DN.20x_ - DN.800x_
PN.20/PN.16/PN.12.5/PN.10

10



PE Reducer Cross Tee BF Injection
DN.63x_ - DN.800x_
PN.20/PN.16/PN.12.5/PN.10

11



PE Steel Transition Male Adaptor Long
DN.25x_ - DN.63x_
PN.16/PN.10

13



PE Steel Transition Male Adaptor
DN.20 - DN.63
PN.16/PN.10

14



PE Steel Transition Female Adaptor
DN.20 - DN.63
PN.16/PN.10

15



PE-Steel Adaptor
DN.25x_ - DN.63x_
PN.16/PN.10

16



PE Standard Ball Valve
DN.32 - DN.355
PN.16/PN.10

17



PE Single Diffusion Ball Valve
DN.63 - DN.355
PN.16/PN.10

18



PE Double Diffusion Ball Valve
DN.63 - DN.355
PN.16/PN.10

19



01

PE Stub End BF Fabrication
DN.63 - DN.2000
PN.20/PN.16/PN.12.5/PN.10



02

Full Face Flange BF Fabrication
DN.90 - DN.1200
PN.20/PN.16/PN.12.5/PN.10



03

Elbow 90° BF Fabrication
DN.63 - DN.1600
PN.20/PN.16/PN.12.5/PN.10



04

Elbow 45° BF Fabrication
DN.63 - DN.1600
PN.20/PN.16/PN.12.5/PN.10



05

Elbow 22.5° BF Fabrication
DN.63 - DN.1600
PN.20/PN.16/PN.12.5/PN.10



06

Sweep Bend 90°
DN.90 - DN.630
PN.20/PN.16/PN.12.5/PN.10



07

Sweep Bend 45°
DN.90 - DN.630
PN.20/PN.16/PN.12.5/PN.10



08

Equal Tee BF Fabrication
DN.63 - DN.1600
PN.20/PN.16/PN.12.5/PN.10



09

Tee Y 45° BF Fabrication
DN.63 - DN.800
PN.20/PN.16/PN.12.5/PN.10



10

PE Cross Tee BF Fabrication
DN.63 - DN.800
PN.20/PN.16/PN.12.5/PN.10



11

PE End Cap BF Fabrication
DN.20 - DN.1200
PN.20/PN.16/PN.12.5/PN.10



12

PE Reducer BF Fabrication
DN.20x_ - DN.1200x_
PN.20/PN.16/PN.12.5/PN.10



13

PE Reducer Tee BF Fabrication
DN.20x_ - DN.900x_
PN.20/PN.16/PN.12.5/PN.10



14

PE Reducer Tee BF Fabrication
DN.50x_ - DN.630x_
PN.20/PN.16/PN.12.5/PN.10



15

PE Reducer Cross Tee BF Fabrication
DN.63x_ - DN.800x_
PN.20/PN.16/PN.12.5/PN.10



16

PE Dismantling Joint Fabrication
DN.20 - DN.630
PN.20/PN.16/PN.12.5/PN.10

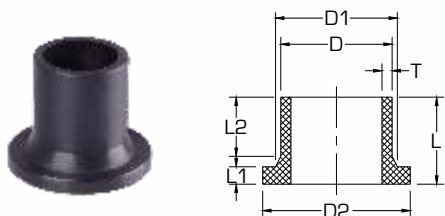


17

PE Puddle Flange Fabrication
DN.20 - DN.1200
PN.20/PN.16/PN.12.5/PN.10

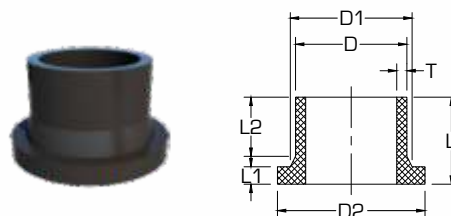
Stub End BF INJ

PE100 Injection



Stub End BF FAB

PE100 Fabrication



DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
1/2	20	•	•	•	•
3/4	25	•	•	•	•
1	32	•	•	•	•
1 1/4	40	•	•	•	•
1-1/2	50	•	•	•	•
2	63	•	•	•	•
2-1/2	75	•	•	•	•
3	90	•	•	•	•
4	110	•	•	•	•
5	125	•	•	•	•
5-1/2	140	•	•	•	•
6	160	•	•	•	•
7	180	•	•	•	•
8	200	•	•	•	•
9	225	•	•	•	•
10	250	•	•	•	•
11	280	•	•	•	•
12	315	•	•	•	•
14	355	•	•	•	•
16	400	•	•	•	•
18	450	•	•	•	•
20	500	•	•	•	•
22	560	•	•	•	•
24	630	•	•	•	•
28	710			•	•
32	800			•	•
36	900			•	•
40	1000			•	•
48	1200			•	•

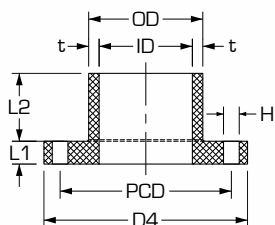
DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
2	63	•	•	•	•
2-1/2	75	•	•	•	•
3	90	•	•	•	•
4	110	•	•	•	•
5	125	•	•	•	•
5-1/2	140	•	•	•	•
6	160	•	•	•	•
7	180	•	•	•	•
8	200	•	•	•	•
9	225	•	•	•	•
10	250	•	•	•	•
11	280	•	•	•	•
12	315	•	•	•	•
14	355	•	•	•	•
16	400	•	•	•	•
18	450	•	•	•	•
20	500	•	•	•	•
22	560	•	•	•	•
24	630	•	•	•	•
28	710	•	•	•	•
32	800	•	•	•	•
36	900	•	•	•	•
40	1000	•	•	•	•
48	1200	•	•	•	•
56	1400	•	•	•	•
64	1600	•	•	•	•
72	1800	•	•	•	•
80	2000	•	•	•	•

* Melayani permintaan dimensi khusus, dari ukuran 63-3000mm, PN6-PN25

* Turning process, long/short spigot, high pressure, no pressure derating.

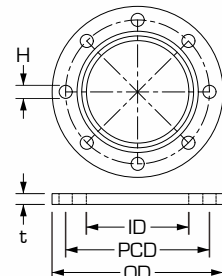
Full Face Flange BF FAB

PE100 Fabrication



Backing Flange BF FAB

PE100 Fabrication



DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
3	90	•	•	•	•
4	110	•	•	•	•
5	125	•	•	•	•
5-1/2	140	•	•	•	•
6	160	•	•	•	•
7	180	•	•	•	•
8	200	•	•	•	•
9	225	•	•	•	•
10	250	•	•	•	•
11	280	•	•	•	•
12	315	•	•	•	•
14	355	•	•	•	•
16	400	•	•	•	•
18	450	•	•	•	•
20	500	•	•	•	•
22	560	•	•	•	•
24	630	•	•	•	•
28	710	•	•	•	•
32	800	•	•	•	•
36	900	•	•	•	•
40	1000	•	•	•	•
48	1200	•	•	•	•

* Spigot length can be customized

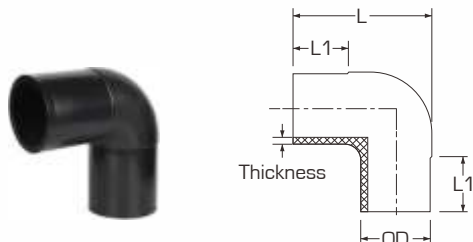
* Drilling standard is available at requirement (JIS, PN, ASME, etc.)

DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
3	90	•	•	•	•
4	110	•	•	•	•
5	125	•	•	•	•
5-1/2	140	•	•	•	•
6	160	•	•	•	•
7	180	•	•	•	•
8	200	•	•	•	•
9	225	•	•	•	•
10	250	•	•	•	•
11	280	•	•	•	•
12	315	•	•	•	•
14	355	•	•	•	•
16	400	•	•	•	•
18	450	•	•	•	•
20	500	•	•	•	•
22	560	•	•	•	•
24	630	•	•	•	•
28	710	•	•	•	•
32	800	•	•	•	•
36	900	•	•	•	•
40	1000	•	•	•	•
48	1200	•	•	•	•

* Drilling standard is available at requirement (JIS, PN, ASME, etc.)

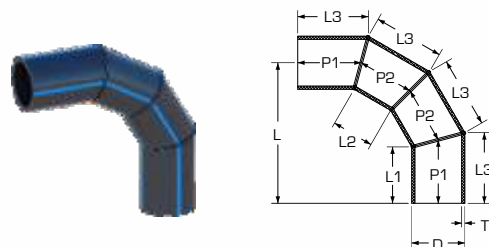
Elbow 90° BF INJ

PE100 Injection



BF Elbow 90° BF FAB

PE100 Fabrication

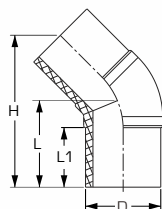


DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
1/2	20			•	•
3/4	25	•	•	•	•
1	32	•	•	•	•
1 1/4	40	•	•	•	•
1-1/2	50	•	•	•	•
2	63	•	•	•	•
2-1/2	75	•	•	•	•
3	90	•	•	•	•
4	110	•	•	•	•
5	125	•	•	•	•
5-1/2	140	•	•	•	•
6	160	•	•	•	•
7	180	•	•	•	•
8	200	•	•	•	•
9	225	•	•	•	•
10	250	•	•	•	•
11	280	•	•	•	•
12	315	•	•	•	•
14	355	•	•	•	•
16	400	•	•	•	•
18	450	•	•	•	•
20	500	•	•	•	•
22	560	•	•	•	•
24	630	•	•	•	•
28	710	•	•	•	•
32	800			•	•
36	900			•	•
40	1000			•	•
48	1200			•	•

DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
2	63				•
2-1/2	75	•	•	•	•
3	90	•	•	•	•
4	110	•	•	•	•
5	125	•	•	•	•
5-1/2	140	•	•	•	•
6	160	•	•	•	•
7	180	•	•	•	•
8	200	•	•	•	•
9	225	•	•	•	•
10	250	•	•	•	•
11	280	•	•	•	•
12	315	•	•	•	•
14	355	•	•	•	•
16	400	•	•	•	•
18	450	•	•	•	•
20	500	•	•	•	•
22	560	•	•	•	•
24	630	•	•	•	•
28	710	•	•	•	•
32	800		•	•	•
36	900		•	•	•
40	1000		•	•	•
48	1200				•
56	1400				•
64	1600				•

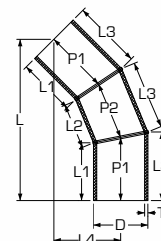
Elbow 45° BF INJ

PE100 Injection



Elbow 45° BF FAB

PE100 Fabrication

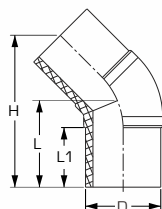


DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
1-1/2	50	•	•	•	
2	63	•	•	•	
2-1/2	75	•	•	•	
3	90	•	•	•	
4	110	•	•	•	
5	125	•	•	•	
5-1/2	140	•	•	•	
6	160	•	•	•	
7	180	•	•	•	
8	200	•	•	•	
9	225	•	•	•	
10	250	•	•	•	
11	280	•	•	•	
12	315	•	•	•	
14	355	•	•	•	•
16	400	•	•	•	•
18	450	•	•	•	•
20	500	•	•	•	•
22	560	•	•	•	•
24	630	•	•	•	•
28	710			•	•
32	800			•	•
36	900			•	•
40	1000			•	•
48	1200			•	•
					•

DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
2	63	•	•	•	•
2-1/2	75	•	•	•	•
3	90	•	•	•	•
4	110	•	•	•	•
5	125	•	•	•	•
5-1/2	140	•	•	•	•
6	160	•	•	•	•
7	180	•	•	•	•
8	200	•	•	•	•
9	225	•	•	•	•
10	250	•	•	•	•
11	280	•	•	•	•
12	315	•	•	•	•
14	355	•	•	•	•
16	400	•	•	•	•
18	450	•	•	•	•
20	500	•	•	•	•
22	560	•	•	•	•
24	630	•	•	•	•
28	710		•	•	•
32	800		•	•	•
36	900		•	•	•
40	1000				•
48	1200				•
56	1400				•
64	1600				•

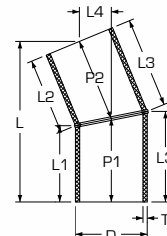
Elbow 22.5° BF INJ

PE100 Injection



Elbow 22.5° BF FAB

PE100 Fabrication

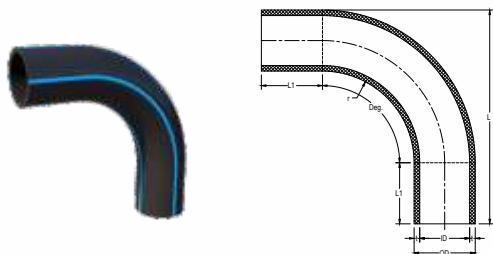


DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
1-1/2	50	•	•	•	
2	63	•	•	•	
2-1/2	75	•	•	•	
3	90	•	•	•	
4	110	•	•	•	
5	125	•	•	•	
5-1/2	140	•	•	•	
6	160	•	•	•	
7	180	•	•	•	
8	200	•	•	•	
9	225	•	•	•	
10	250	•	•	•	
11	280	•	•	•	
12	315	•	•	•	•
14	355	•	•	•	•
16	400	•	•	•	•
18	450	•	•	•	•
20	500	•	•	•	•
22	560	•	•	•	•
24	630	•	•	•	•
28	710			•	•
32	800			•	•
36	900			•	•
40	1000			•	•
48	1200			•	•

DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
2	63	•	•	•	•
2-1/2	75	•	•	•	•
3	90	•	•	•	•
4	110	•	•	•	•
5	125	•	•	•	•
5-1/2	140	•	•	•	•
6	160	•	•	•	•
7	180	•	•	•	•
8	200	•	•	•	•
9	225	•	•	•	•
10	250	•	•	•	•
11	280	•	•	•	•
12	315	•	•	•	•
14	355	•	•	•	•
16	400	•	•	•	•
18	450	•	•	•	•
20	500	•	•	•	•
22	560	•	•	•	•
24	630	•	•	•	•
28	710		•	•	•
32	800		•	•	•
36	900		•	•	•
40	1000				•
48	1200				•
56	1400				•
64	1600				•

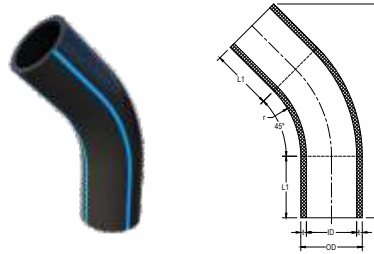
Sweep Bend 90°

PE100



Sweep Bend 45°

PE100

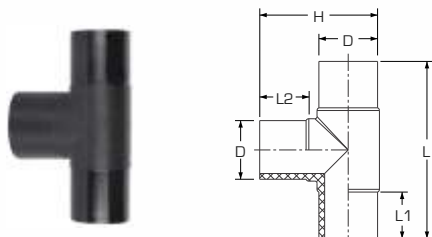


DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
3	90	•	•	•	•
4	110	•	•	•	•
5	125	•	•	•	•
5-1/2	140	•	•	•	•
6	160	•	•	•	•
7	180	•	•	•	•
8	200	•	•	•	•
9	225	•	•	•	•
10	250	•	•	•	•
11	280	•	•	•	•
12	315	•	•	•	•
14	355	•	•	•	•
16	400	•	•	•	•
18	450	•	•	•	•
20	500	•	•	•	•
22	560	•	•	•	•
24	630	•	•	•	•
28	710	•	•	•	•
32	800	•	•	•	•
36	900	•	•	•	•
40	1000	•	•	•	•
48	1200	•	•	•	•

DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
3	90	•	•	•	•
4	110	•	•	•	•
5	125	•	•	•	•
5-1/2	140	•	•	•	•
6	160	•	•	•	•
7	180	•	•	•	•
8	200	•	•	•	•
9	225	•	•	•	•
10	250	•	•	•	•
11	280	•	•	•	•
12	315	•	•	•	•
14	355	•	•	•	•
16	400	•	•	•	•
18	450	•	•	•	•
20	500	•	•	•	•
22	560	•	•	•	•
24	630	•	•	•	•
28	710	•	•	•	•
32	800	•	•	•	•
36	900	•	•	•	•
40	1000	•	•	•	•
48	1200	•	•	•	•

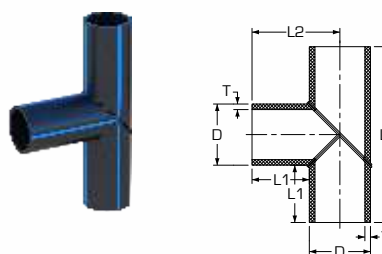
Equal Tee BF INJ

PE100 Injection



Equal Tee BF FAB

PE100 Fabrication

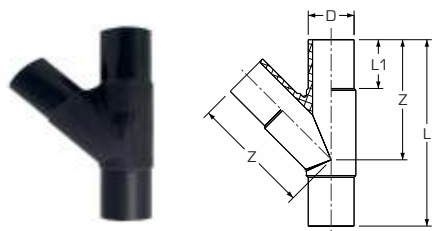


DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
1-1/2	50			•	
2	63	•	•	•	
2-1/2	75	•	•	•	
3	90	•	•	•	
4	110	•	•	•	
5	125	•	•	•	
5-1/2	140	•	•	•	
6	160	•	•	•	
7	180	•	•	•	
8	200	•	•	•	
9	225	•	•	•	
10	250	•	•	•	
11	280	•	•	•	
12	315	•	•	•	•
14	355	•	•	•	•
16	400	•	•	•	•
18	450	•	•	•	•
20	500	•	•	•	•
22	560	•	•	•	•
24	630	•	•	•	•
28	710	•	•	•	•
32	800			•	•
36	900			•	•
40	1000			•	•
48	1200			•	•

DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
2	63				•
2-1/2	75	•	•	•	•
3	90	•	•	•	•
4	110	•	•	•	•
5	125	•	•	•	•
5-1/2	140	•	•	•	•
6	160	•	•	•	•
7	180	•	•	•	•
8	200	•	•	•	•
9	225	•	•	•	•
10	250	•	•	•	•
11	280	•	•	•	•
12	315	•	•	•	•
14	355	•	•	•	•
16	400	•	•	•	•
18	450	•	•	•	•
20	500	•	•	•	•
22	560	•	•	•	•
24	630	•	•	•	•
28	710	•	•	•	•
32	800		•	•	•
36	900		•	•	•
40	1000		•	•	•
48	1200				•
56	1400				•
64	1600				•

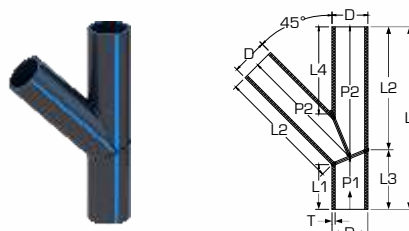
Tee Y 45° BF INJ

PE100 Injection



Tee Y 45° BF FAB

PE100 Fabrication

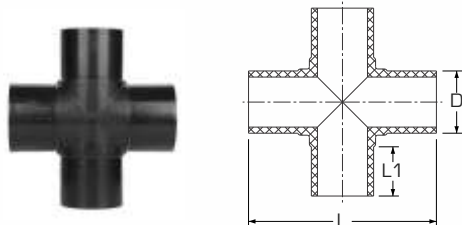


DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
2	63	•	•	•	•
2-1/2	75	•	•	•	•
3	90	•	•	•	•
4	110	•	•	•	•
5	125	•	•	•	•
5-1/2	140	•	•	•	•
6	160	•	•	•	•
7	180	•	•	•	•
8	200	•	•	•	•
9	225	•	•	•	•
10	250	•	•	•	•
11	280	•	•	•	•
12	315	•	•	•	•
14	355	•	•	•	•
16	400	•	•	•	•

DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
2	63	•	•	•	•
2-1/2	75	•	•	•	•
3	90	•	•	•	•
4	110	•	•	•	•
5	125	•	•	•	•
5-1/2	140	•	•	•	•
6	160	•	•	•	•
7	180	•	•	•	•
8	200	•	•	•	•
9	225	•	•	•	•
10	250	•	•	•	•
11	280	•	•	•	•
12	315	•	•	•	•
14	355	•	•	•	•
16	400	•	•	•	•
18	450	•	•	•	•
20	500	•	•	•	•
22	560	•	•	•	•
24	630	•	•	•	•
28	710		•	•	•
32	800		•	•	•
36	900		•	•	•
40	1000				•
48	1200				•
56	1400				•
64	1600				•

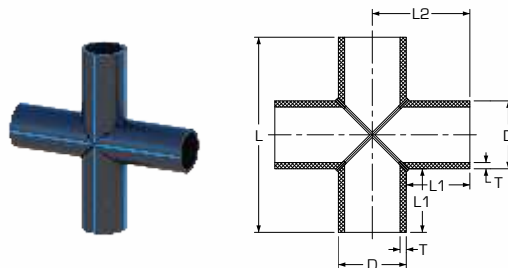
Cross Tee BF INJ

PE100 Injection



Cross Tee BF FAB

PE100 Fabrication

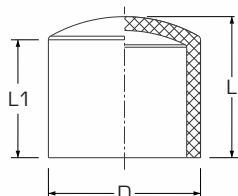


DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
1-1/2	50			•	
2	63	•	•	•	
2-1/2	75	•	•	•	
3	90	•	•	•	
4	110	•	•	•	
5	125	•	•	•	
5-1/2	140	•	•	•	
6	160	•	•	•	
7	180	•	•	•	
8	200	•	•	•	
9	225	•	•	•	
10	250	•	•	•	
11	280	•	•	•	
12	315	•	•	•	•
14	355	•	•	•	•
16	400	•	•	•	•
18	450	•	•	•	•
20	500	•	•	•	•
22	560	•	•	•	•
24	630	•	•	•	•
28	710	•	•	•	•
32	800			•	•
36	900			•	•
40	1000			•	•
48	1200			•	•

DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
2	63	•	•	•	•
2-1/2	75	•	•	•	•
3	90	•	•	•	•
4	110	•	•	•	•
5	125	•	•	•	•
5-1/2	140	•	•	•	•
6	160	•	•	•	•
7	180	•	•	•	•
8	200	•	•	•	•
9	225	•	•	•	•
10	250	•	•	•	•
11	280	•	•	•	•
12	315	•	•	•	•
14	355	•	•	•	•
16	400	•	•	•	•
18	450	•	•	•	•
20	500	•	•	•	•
22	560	•	•	•	•
24	630	•	•	•	•
28	710		•	•	•
32	800		•	•	•
36	900		•	•	•
40	1000				•
48	1200				•
56	1400				•
64	1600				•

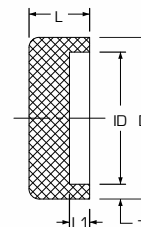
End Cap BF INJ

PE100 Injection



End Cap BF FAB

PE100 Fabrication

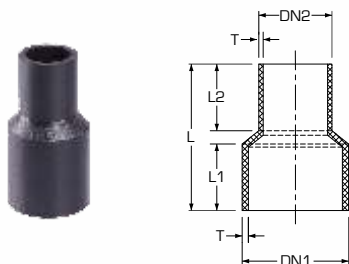


DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
1/2	20	•	•	•	•
3/4	25	•	•	•	•
1	32	•	•	•	•
1 1/4	40	•	•	•	•
1-1/2	50	•	•	•	•
2	63	•	•	•	•
2-1/2	75	•	•	•	•
3	90	•	•	•	•
4	110	•	•	•	•
5	125	•	•	•	•
5-1/2	140	•	•	•	•
6	160	•	•	•	•
7	180	•	•	•	•
8	200	•	•	•	•
9	225	•	•	•	•
10	250	•	•	•	•
11	280	•	•	•	•
12	315	•	•	•	•
14	355	•	•	•	•
16	400	•	•	•	•
18	450	•	•	•	•
20	500	•	•	•	•
22	560	•	•	•	•
24	630	•	•	•	•
28	710		•	•	•
32	800		•	•	•
36	900		•	•	•
40	1000		•	•	•
48	1200		•	•	•

DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
1/2	20	•	•	•	•
3/4	25	•	•	•	•
1	32	•	•	•	•
1 1/4	40	•	•	•	•
1-1/2	50	•	•	•	•
2	63	•	•	•	•
2-1/2	75	•	•	•	•
3	90	•	•	•	•
4	110	•	•	•	•
5	125	•	•	•	•
5-1/2	140	•	•	•	•
6	160	•	•	•	•
7	180	•	•	•	•
8	200	•	•	•	•
9	225	•	•	•	•
10	250	•	•	•	•
11	280	•	•	•	•
12	315	•	•	•	•
14	355	•	•	•	•
16	400	•	•	•	•
18	450	•	•	•	•
20	500	•	•	•	•
22	560	•	•	•	•
24	630	•	•	•	•
28	710		•	•	•
32	800		•	•	•
36	900		•	•	•
40	1000		•	•	•
48	1200		•	•	•

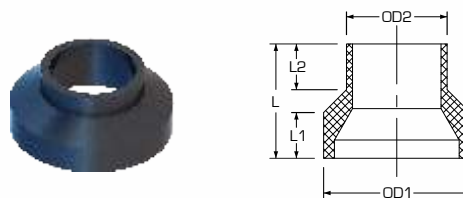
Reducer BF INJ

PE100 Injection



Reducer BF FAB

PE100 Fabrication

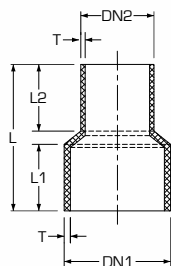


DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
1x3/4	32x25	•	•	•	•
1-1/4x1/2	40x20	•	•	•	•
1-1/4x3/4	40x25	•	•	•	•
1-1/4x1	40x32	•	•	•	•
1-1/2x3/4	50x25	•	•	•	•
1-1/2x1	50x32	•	•	•	•
1-1/2x1-1/4	50x40	•	•	•	•
2x3/4	63x25	•	•	•	•
2x1	63x32	•	•	•	•
2x1-1/4	63x40	•	•	•	•
2x1-1/2	63x50	•	•	•	•
2-1/2x1	75x32	•	•	•	•
2-1/2x1-1/4	75x40	•	•	•	•
2-1/2x1-1/2	75x50	•	•	•	•
2-1/2x2	75x63	•	•	•	•
3x1-1/4	90x40	•	•	•	•
3x1-1/2	90x50	•	•	•	•
3x2	90x63	•	•	•	•
3x2-1/2	90x75	•	•	•	•
4x1-1/4	110x40	•	•	•	•
4x1-1/2	110x50	•	•	•	•
4x2	110x63	•	•	•	•
4x2-1/2	110x75	•	•	•	•
4x3	110x90	•	•	•	•
5x1-1/2	125x50	•	•	•	•
5x2	125x63	•	•	•	•
5x2-1/2	125x75	•	•	•	•
5x3	125x90	•	•	•	•
5x4	125x110	•	•	•	•

DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
1x3/4	32x25	•	•	•	•
1-1/4x1/2	40x20	•	•	•	•
1-1/4x3/4	40x25	•	•	•	•
1-1/4x1	40x32	•	•	•	•
1-1/2x3/4	50x25	•	•	•	•
1-1/2x1	50x32	•	•	•	•
1-1/2x1-1/4	50x40	•	•	•	•
2x3/4	63x25	•	•	•	•
2x1	63x32	•	•	•	•
2x1-1/4	63x40	•	•	•	•
2x1-1/2	63x50	•	•	•	•
2-1/2x1	75x32	•	•	•	•
2-1/2x1-1/4	75x40	•	•	•	•
2-1/2x1-1/2	75x50	•	•	•	•
2-1/2x2	75x63	•	•	•	•
3x1-1/4	90x40	•	•	•	•
3x1-1/2	90x50	•	•	•	•
3x2	90x63	•	•	•	•
3x2-1/2	90x75	•	•	•	•
4x1-1/4	110x40	•	•	•	•
4x1-1/2	110x50	•	•	•	•
4x2	110x63	•	•	•	•
4x2-1/2	110x75	•	•	•	•
4x3	110x90	•	•	•	•
5x1-1/2	125x50	•	•	•	•
5x2	125x63	•	•	•	•
5x2-1/2	125x75	•	•	•	•
5x3	125x90	•	•	•	•
5x4	125x110	•	•	•	•

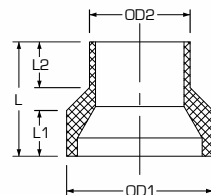
Reducer BF INJ

PE100 Injection



Reducer BF FAB

PE100 Fabrication

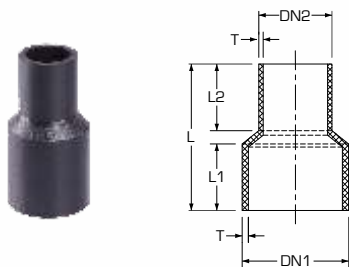


DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
5-1/2x2	140x63	•	•	•	•
5-1/2x2-1/2	140x75	•	•	•	•
5-1/2x3	140x90	•	•	•	•
5-1/2x4	140x110	•	•	•	•
5-1/2x5	140x125	•	•	•	•
6x2	160x63	•	•	•	•
6x2-1/2	160x75	•	•	•	•
6x3	160x90	•	•	•	•
6x4	160x110	•	•	•	•
6x5	160x125	•	•	•	•
6x5-1/2	160x140	•	•	•	•
7x2	180x63	•	•	•	•
7x2-1/2	180x75	•	•	•	•
7x3	180x90	•	•	•	•
7x4	180x110	•	•	•	•
7x5	180x125	•	•	•	•
7x5-1/2	180x140	•	•	•	•
7x6	180x160	•	•	•	•
8x2	200x63	•	•	•	•
8x2-1/2	200x75	•	•	•	•
8x3	200x90	•	•	•	•
8x4	200x110	•	•	•	•
8x5	200x125	•	•	•	•
8x5-1/2	200x140	•	•	•	•
8x6	200x160	•	•	•	•
8x7	200x180	•	•	•	•
9x3	225x90	•	•	•	•
9x4	225x110	•	•	•	•
9x5	225x125	•	•	•	•
9x6	225x160	•	•	•	•
9x7	225x180	•	•	•	•
9x8	225x200	•	•	•	•

DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
5-1/2x2	140x63	•	•	•	•
5-1/2x2-1/2	140x75	•	•	•	•
5-1/2x3	140x90	•	•	•	•
5-1/2x4	140x110	•	•	•	•
5-1/2x5	140x125	•	•	•	•
6x2	160x63	•	•	•	•
6x2-1/2	160x75	•	•	•	•
6x3	160x90	•	•	•	•
6x4	160x110	•	•	•	•
6x5	160x125	•	•	•	•
6x5-1/2	160x140	•	•	•	•
7x2	180x63	•	•	•	•
7x2-1/2	180x75	•	•	•	•
7x3	180x90	•	•	•	•
7x4	180x110	•	•	•	•
7x5	180x125	•	•	•	•
7x5-1/2	180x140	•	•	•	•
7x6	180x160	•	•	•	•
8x2	200x63	•	•	•	•
8x2-1/2	200x75	•	•	•	•
8x3	200x90	•	•	•	•
8x4	200x110	•	•	•	•
8x5	200x125	•	•	•	•
8x5-1/2	200x140	•	•	•	•
8x6	200x160	•	•	•	•
8x7	200x180	•	•	•	•
9x3	225x90	•	•	•	•
9x4	225x110	•	•	•	•
9x5	225x125	•	•	•	•
9x6	225x160	•	•	•	•
9x7	225x180	•	•	•	•
9x8	225x200	•	•	•	•

Reducer BF INJ

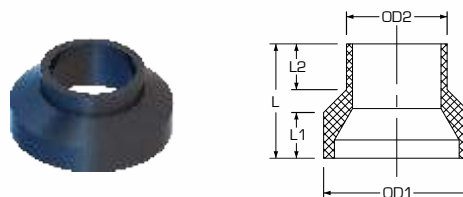
PE100 Injection



DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
10x3	250x90	•	•	•	•
10x4	250x110	•	•	•	•
10x5	250x125	•	•	•	•
10x6	250x160	•	•	•	•
10x7	250x180	•	•	•	•
10x8	250x200	•	•	•	•
10x9	250x225	•	•	•	•
11x4	280x110	•	•	•	•
11x5	280x125	•	•	•	•
11x5-1/2	280x140	•	•	•	•
11x6	280x160	•	•	•	•
11x7	280x180	•	•	•	•
11x8	280x200	•	•	•	•
11x9	280x225	•	•	•	•
11x10	280x250	•	•	•	•
12x4	315x110	•	•	•	•
12x6	315x160	•	•	•	•
12x7	315x180	•	•	•	•
12x8	315x200	•	•	•	•
12x9	315x225	•	•	•	•
12x10	315x250	•	•	•	•
12x11	315x280	•	•	•	•
12x4	355x110	•	•	•	•
12x6	355x160	•	•	•	•
14x8	355x200	•	•	•	•
14x9	355x225	•	•	•	•
14x10	355x250	•	•	•	•
14x11	355x280	•	•	•	•
14x12	355x315	•	•	•	•
16x4	400x110	•	•	•	•
16x6	400x160	•	•	•	•
16x8	400x200	•	•	•	•

Reducer BF FAB

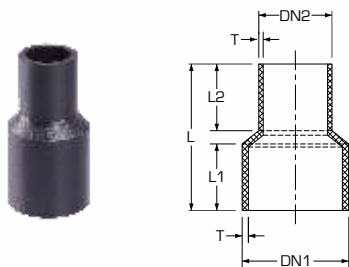
PE100 Fabrication



DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
10x3	250x90	•	•	•	•
10x4	250x110	•	•	•	•
10x5	250x125	•	•	•	•
10x6	250x160	•	•	•	•
10x7	250x180	•	•	•	•
10x8	250x200	•	•	•	•
10x9	250x225	•	•	•	•
11x4	280x110	•	•	•	•
11x5	280x125	•	•	•	•
11x5-1/2	280x140	•	•	•	•
11x6	280x160	•	•	•	•
11x7	280x180	•	•	•	•
11x8	280x200	•	•	•	•
11x9	280x225	•	•	•	•
11x10	280x250	•	•	•	•
12x4	315x110	•	•	•	•
12x6	315x160	•	•	•	•
12x7	315x180	•	•	•	•
12x8	315x200	•	•	•	•
12x9	315x225	•	•	•	•
12x10	315x250	•	•	•	•
12x11	315x280	•	•	•	•
12x4	355x110	•	•	•	•
12x6	355x160	•	•	•	•
14x8	355x200	•	•	•	•
14x9	355x225	•	•	•	•
14x10	355x250	•	•	•	•
14x11	355x280	•	•	•	•
14x12	355x315	•	•	•	•
16x4	400x110	•	•	•	•
16x6	400x160	•	•	•	•
16x8	400x200	•	•	•	•

Reducer BF INJ

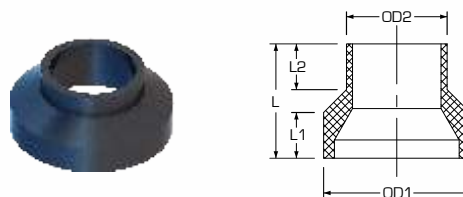
PE100 Injection



DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
16x9	400x225	•	•	•	•
16x10	400x250	•	•	•	•
16x12	400x315	•	•	•	•
16x14	400x355	•	•	•	•
18x4	450x110	•	•	•	•
18x6	450x160	•	•	•	•
18x8	450x200	•	•	•	•
18x9	450x225	•	•	•	•
18x10	450x250	•	•	•	•
18x11	450x280	•	•	•	•
18x12	450x315	•	•	•	•
18x14	450x355	•	•	•	•
18x16	450x400	•	•	•	•
20x6	500x160	•	•	•	•
20x8	500x200	•	•	•	•
20x10	500x250	•	•	•	•
20x12	500x315	•	•	•	•
20x14	500x355	•	•	•	•
20x16	500x400	•	•	•	•
20x18	500x450	•	•	•	•
22x12	560x315	•	•	•	•
22x14	560x355	•	•	•	•
22x16	560x400	•	•	•	•
22x18	560x450	•	•	•	•
22x20	560x500	•	•	•	•
24x10	630x250	•	•	•	•
24x12	630x315	•	•	•	•
24x14	630x355	•	•	•	•
24x16	630x400	•	•	•	•
24x18	630x450	•	•	•	•
24x20	630x500	•	•	•	•
24x22	630x560	•	•	•	•

Reducer BF FAB

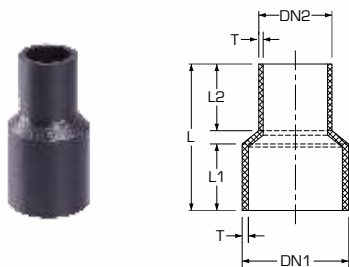
PE100 Fabrication



DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
16x9	400x225	•	•	•	•
16x10	400x250	•	•	•	•
16x12	400x315	•	•	•	•
16x14	400x355	•	•	•	•
18x4	450x110	•	•	•	•
18x6	450x160	•	•	•	•
18x8	450x200	•	•	•	•
18x9	450x225	•	•	•	•
18x10	450x250	•	•	•	•
18x11	450x280	•	•	•	•
18x12	450x315	•	•	•	•
18x14	450x355	•	•	•	•
18x16	450x400	•	•	•	•
20x6	500x160	•	•	•	•
20x8	500x200	•	•	•	•
20x10	500x250	•	•	•	•
20x12	500x315	•	•	•	•
20x14	500x355	•	•	•	•
20x16	500x400	•	•	•	•
20x18	500x450	•	•	•	•
22x12	560x315	•	•	•	•
22x14	560x355	•	•	•	•
22x16	560x400	•	•	•	•
22x18	560x450	•	•	•	•
22x20	560x500	•	•	•	•
24x10	630x250	•	•	•	•
24x12	630x315	•	•	•	•
24x14	630x355	•	•	•	•
24x16	630x400	•	•	•	•
24x18	630x450	•	•	•	•
24x20	630x500	•	•	•	•
24x22	630x560	•	•	•	•

Reducer BF INJ

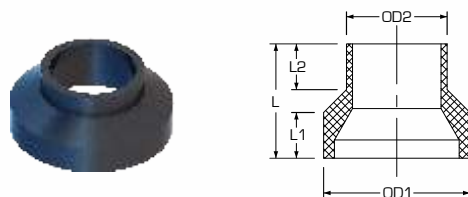
PE100 Injection



DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
28x12	710x315	•		•	•
28x14	710x355	•	•	•	•
28x16	710x400	•	•	•	•
28x20	710x500	•	•	•	•
28x22	710x560	•	•	•	•
28x24	710x630	•	•	•	•
32x10	800x250	•	•	•	•
32x12	800x315	•	•	•	•
32x14	800x355	•	•	•	•
32x16	800x400	•	•	•	•
32x18	800x450	•		•	•
32x20	800x500	•		•	•
32x22	800x560	•		•	•
32x24	800x630	•		•	•
32x28	800x710	•		•	•
36x32	900x800	•		•	•
40x32	1000x800	•		•	•
40x36	1000x900	•		•	•
48x32	1200x800	•		•	•
48x40	1200x1000	•		•	•

Reducer BF FAB

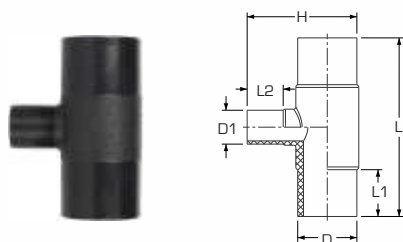
PE100 Fabrication



DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
28x12	710x315	•		•	•
28x14	710x355	•	•	•	•
28x16	710x400	•	•	•	•
28x20	710x500	•	•	•	•
28x22	710x560	•	•	•	•
28x24	710x630	•	•	•	•
32x10	800x250	•	•	•	•
32x12	800x315	•	•	•	•
32x14	800x355	•	•	•	•
32x16	800x400	•	•	•	•
32x18	800x450	•		•	•
32x20	800x500	•		•	•
32x22	800x560	•		•	•
32x24	800x630	•		•	•
32x28	800x710	•		•	•
36x32	900x800	•		•	•
40x32	1000x800	•		•	•
40x36	1000x900	•		•	•
48x32	1200x800	•		•	•
48x40	1200x1000	•		•	•

Reducer Tee BF INJ

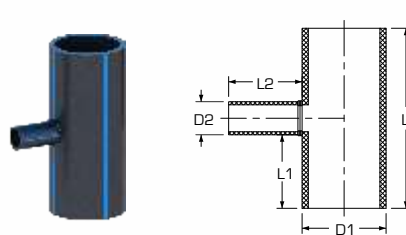
PE100 Injection



DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
25x20	25x20	•	•	•	•
32x20	32x20	•	•	•	•
32x25	32x25	•	•	•	•
40x20	40x20	•	•	•	•
40x25	40x25	•	•	•	•
40x32	40x32	•	•	•	•
50x25	50x25	•	•	•	•
50x32	50x32	•	•	•	•
50x40	50x40	•	•	•	•
63x25	63x25	•	•	•	•
63x32	63x32	•	•	•	•
63x40	63x40	•	•	•	•
63x50	63x50	•	•	•	•
75x32	75x32	•	•	•	•
75x40	75x40	•	•	•	•
75x50	75x50	•	•	•	•
75x63	75x63	•	•	•	•
90x40	90x40	•	•	•	•
90x50	90x50	•	•	•	•
90x63	90x63	•	•	•	•
90x75	90x75	•	•	•	•
110x40	110x40	•	•	•	•
110x50	110x50	•	•	•	•
110x63	110x63	•	•	•	•
110x75	110x75	•	•	•	•
110x90	110x90	•	•	•	•
125x50	125x50	•	•	•	•
125x63	125x63	•	•	•	•
125x75	125x75	•	•	•	•
125x90	125x90	•	•	•	•
125x110	125x110	•	•	•	•

Reducer Tee BF FAB

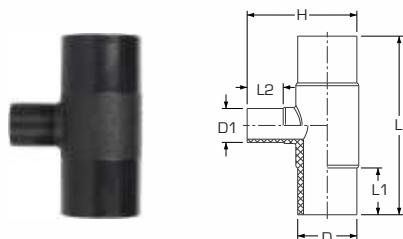
PE100 Fabrication



DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
25x20	25x20	•	•	•	•
32x20	32x20	•	•	•	•
32x25	32x25	•	•	•	•
40x20	40x20	•	•	•	•
40x25	40x25	•	•	•	•
40x32	40x32	•	•	•	•
50x25	50x25	•	•	•	•
50x32	50x32	•	•	•	•
50x40	50x40	•	•	•	•
63x25	63x25	•	•	•	•
63x32	63x32	•	•	•	•
63x40	63x40	•	•	•	•
63x50	63x50	•	•	•	•
75x32	75x32	•	•	•	•
75x40	75x40	•	•	•	•
75x50	75x50	•	•	•	•
75x63	75x63	•	•	•	•
90x40	90x40	•	•	•	•
90x50	90x50	•	•	•	•
90x63	90x63	•	•	•	•
90x75	90x75	•	•	•	•
110x40	110x40	•	•	•	•
110x50	110x50	•	•	•	•
110x63	110x63	•	•	•	•
110x75	110x75	•	•	•	•
110x90	110x90	•	•	•	•
125x50	125x50	•	•	•	•
125x63	125x63	•	•	•	•
125x75	125x75	•	•	•	•
125x90	125x90	•	•	•	•
125x110	125x110	•	•	•	•

Reducer Tee BF INJ

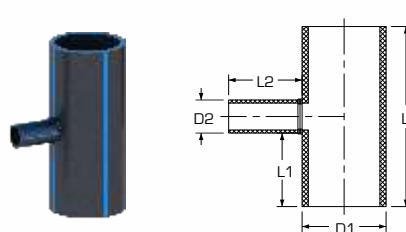
PE100 Injection



DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
5-1/2x2	140x63	•	•	•	•
5-1/2x2-1/2	140x75	•	•	•	•
5-1/2x3	140x90	•	•	•	•
5-1/2x4	140x110	•	•	•	•
5-1/2x5	140x125	•	•	•	•
6x2	160x63	•	•	•	•
6x2-1/2	160x75	•	•	•	•
6x3	160x90	•	•	•	•
6x4	160x110	•	•	•	•
6x5	160x125	•	•	•	•
6x5-1/2	160x140	•	•	•	•
7x2	180x63	•	•	•	•
7x2-1/2	180x75	•	•	•	•
7x3	180x90	•	•	•	•
7x4	180x110	•	•	•	•
7x5	180x125	•	•	•	•
7x5-1/2	180x140	•	•	•	•
7x6	180x160	•	•	•	•
8x2	200x63	•	•	•	•
8x2-1/2	200x75	•	•	•	•
8x3	200x90	•	•	•	•
8x4	200x110	•	•	•	•
8x5	200x125	•	•	•	•
8x5-1/2	200x140	•	•	•	•
8x6	200x160	•	•	•	•
8x7	200x180	•	•	•	•
9x3	225x90	•	•	•	•
9x4	225x110	•	•	•	•
9x5	225x125	•	•	•	•
9x6	225x160	•	•	•	•
9x7	225x180	•	•	•	•
9x8	225x200	•	•	•	•

Reducer Tee BF FAB

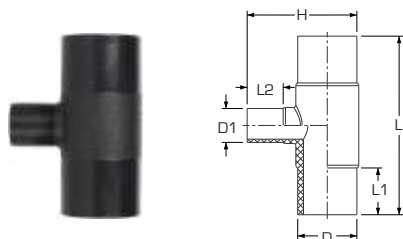
PE100 Fabrication



DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
5-1/2x2	140x63	•	•	•	•
5-1/2x2-1/2	140x75	•	•	•	•
5-1/2x3	140x90	•	•	•	•
5-1/2x4	140x110	•	•	•	•
5-1/2x5	140x125	•	•	•	•
6x2	160x63	•	•	•	•
6x2-1/2	160x75	•	•	•	•
6x3	160x90	•	•	•	•
6x4	160x110	•	•	•	•
6x5	160x125	•	•	•	•
6x5-1/2	160x140	•	•	•	•
7x2	180x63	•	•	•	•
7x2-1/2	180x75	•	•	•	•
7x3	180x90	•	•	•	•
7x4	180x110	•	•	•	•
7x5	180x125	•	•	•	•
7x5-1/2	180x140	•	•	•	•
7x6	180x160	•	•	•	•
8x2	200x63	•	•	•	•
8x2-1/2	200x75	•	•	•	•
8x3	200x90	•	•	•	•
8x4	200x110	•	•	•	•
8x5	200x125	•	•	•	•
8x5-1/2	200x140	•	•	•	•
8x6	200x160	•	•	•	•
8x7	200x180	•	•	•	•
9x3	225x90	•	•	•	•
9x4	225x110	•	•	•	•
9x5	225x125	•	•	•	•
9x6	225x160	•	•	•	•
9x7	225x180	•	•	•	•
9x8	225x200	•	•	•	•

Reducer Tee BF INJ

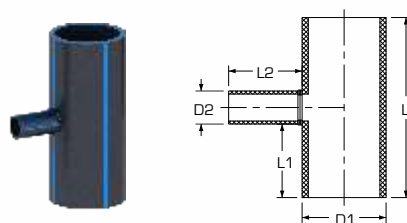
PE100 Injection



DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
10x3	250x90	•	•	•	•
10x4	250x110	•	•	•	•
10x5	250x125	•	•	•	•
10x6	250x160	•	•	•	•
10x7	250x180	•	•	•	•
10x8	250x200	•	•	•	•
10x9	250x225	•	•	•	•
11x4	280x110	•	•	•	•
11x5	280x125	•	•	•	•
11x5-1/2	280x140	•	•	•	•
11x6	280x160	•	•	•	•
11x7	280x180	•	•	•	•
11x8	280x200	•	•	•	•
11x9	280x225	•	•	•	•
11x10	280x250	•	•	•	•
12x4	315x110	•	•	•	•
12x6	315x160	•	•	•	•
12x7	315x180	•	•	•	•
12x8	315x200	•	•	•	•
12x9	315x225	•	•	•	•
12x10	315x250	•	•	•	•
12x11	315x280	•	•	•	•
14x4	355x110	•	•	•	•
14x6	355x160	•	•	•	•
14x8	355x200	•	•	•	•
14x9	355x225	•	•	•	•
14x10	355x250	•	•	•	•
14x11	355x280	•	•	•	•
14x12	355x315	•	•	•	•

Reducer Tee BF FAB

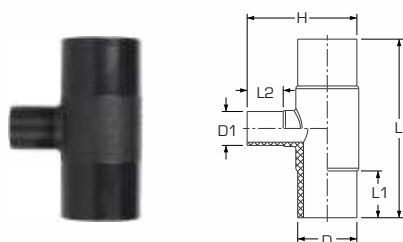
PE100 Fabrication



DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
10x3	250x90	•	•	•	•
10x4	250x110	•	•	•	•
10x5	250x125	•	•	•	•
10x6	250x160	•	•	•	•
10x7	250x180	•	•	•	•
10x8	250x200	•	•	•	•
10x9	250x225	•	•	•	•
11x4	280x110	•	•	•	•
11x5	280x125	•	•	•	•
11x5-1/2	280x140	•	•	•	•
11x6	280x160	•	•	•	•
11x7	280x180	•	•	•	•
11x8	280x200	•	•	•	•
11x9	280x225	•	•	•	•
11x10	280x250	•	•	•	•
12x4	315x110	•	•	•	•
12x6	315x160	•	•	•	•
12x7	315x180	•	•	•	•
12x8	315x200	•	•	•	•
12x9	315x225	•	•	•	•
12x10	315x250	•	•	•	•
12x11	315x280	•	•	•	•
14x4	355x110	•	•	•	•
14x6	355x160	•	•	•	•
14x8	355x200	•	•	•	•
14x9	355x225	•	•	•	•
14x10	355x250	•	•	•	•
14x11	355x280	•	•	•	•
14x12	355x315	•	•	•	•

Reducer Tee BF INJ

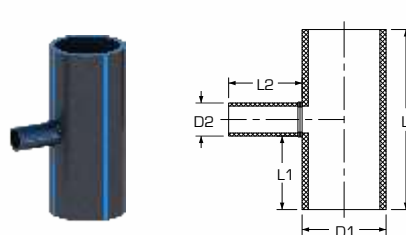
PE100 Injection



DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
16x4	400x110	•	•	•	•
16x6	400x160	•	•	•	•
16x8	400x200	•	•	•	•
16x9	400x225	•	•	•	•
16x10	400x250	•	•	•	•
16x12	400x315	•	•	•	•
16x14	400x355	•	•	•	•
18x4	450x110	•	•	•	•
18x6	450x160	•	•	•	•
18x8	450x200	•	•	•	•
18x9	450x225	•	•	•	•
18x10	450x250	•	•	•	•
18x11	450x280	•	•	•	•
18x12	450x315	•	•	•	•
18x14	450x355	•	•	•	•
18x16	450x400	•	•	•	•
20x6	500x160	•	•	•	•
20x8	500x200	•	•	•	•
20x10	500x250	•	•	•	•
20x12	500x315	•	•	•	•
20x14	500x355	•	•	•	•
20x16	500x400	•	•	•	•
20x18	500x450	•	•	•	•
22x12	560x315	•	•	•	•
22x14	560x355	•	•	•	•
22x16	560x400	•	•	•	•
22x18	560x450	•	•	•	•
22x20	560x500	•	•	•	•
24x10	630x250	•	•	•	•
24x12	630x315	•	•	•	•
24x14	630x355	•	•	•	•
24x16	630x400	•	•	•	•

Reducer Tee BF FAB

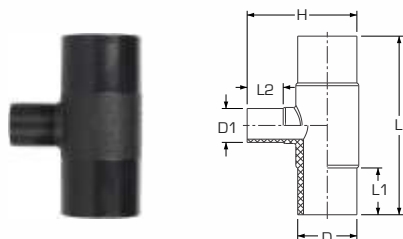
PE100 Fabrication



DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
16x4	400x110	•	•	•	•
16x6	400x160	•	•	•	•
16x8	400x200	•	•	•	•
16x9	400x225	•	•	•	•
16x10	400x250	•	•	•	•
16x12	400x315	•	•	•	•
16x14	400x355	•	•	•	•
18x4	450x110	•	•	•	•
18x6	450x160	•	•	•	•
18x8	450x200	•	•	•	•
18x9	450x225	•	•	•	•
18x10	450x250	•	•	•	•
18x11	450x280	•	•	•	•
18x12	450x315	•	•	•	•
18x14	450x355	•	•	•	•
18x16	450x400	•	•	•	•
20x6	500x160	•	•	•	•
20x8	500x200	•	•	•	•
20x10	500x250	•	•	•	•
20x12	500x315	•	•	•	•
20x14	500x355	•	•	•	•
20x16	500x400	•	•	•	•
20x18	500x450	•	•	•	•
22x12	560x315	•	•	•	•
22x14	560x355	•	•	•	•
22x16	560x400	•	•	•	•
22x18	560x450	•	•	•	•
22x20	560x500	•	•	•	•
24x10	630x250	•	•	•	•
24x12	630x315	•	•	•	•
24x14	630x355	•	•	•	•
24x16	630x400	•	•	•	•

Reducer Tee BF INJ

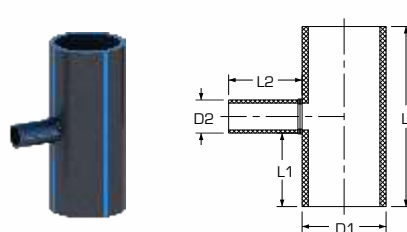
PE100 Injection



DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
24x18	630x450	•	•	•	•
24x20	630x500	•	•	•	•
24x22	630x560	•	•	•	•
28x12	710x315	•	•	•	•
28x14	710x355	•	•	•	•
28x16	710x400	•	•	•	•
28x20	710x500	•	•	•	•
28x22	710x560	•	•	•	•
28x24	710x630	•	•	•	•
32x10	800x250	•	•	•	•
32x12	800x315	•	•	•	•
32x14	800x355	•	•	•	•
32x16	800x400	•		•	•
32x18	800x450	•		•	•
32x20	800x500	•		•	•
32x22	800x560	•		•	•
32x24	800x630	•		•	•
32x28	800x710	•		•	•

Reducer Tee BF FAB

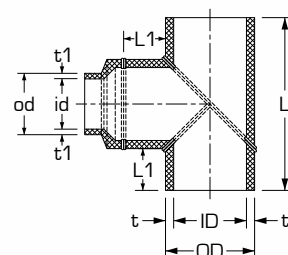
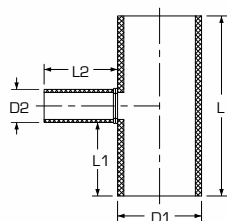
PE100 Fabrication



DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
24x18	630x450		•	•	•
24x20	630x500	•	•	•	•
24x22	630x560	•	•	•	•
28x12	710x315	•	•	•	•
28x14	710x355		•	•	•
28x16	710x400		•	•	•
28x20	710x500		•	•	•
28x22	710x560		•	•	•
28x24	710x630		•	•	•
32x10	800x250		•	•	•
32x12	800x315		•	•	•
32x14	800x355		•	•	•
32x16	800x400		•	•	•
32x18	800x450		•	•	•
32x20	800x500		•	•	•
32x22	800x560		•	•	•
32x24	800x630		•	•	•
32x28	800x710		•	•	•
36x4	900x110		•	•	•
36x5	900x125		•	•	•
36x5-1/2	900x140		•	•	•
36x6	900x160		•	•	•
36x7	900x180		•	•	•
36x8	900x200		•	•	•
36x9	900x225		•	•	•
36x10	900x250		•	•	•
36x11	900x280		•	•	•
36x12	900x315		•	•	•
36x14	900x355		•	•	•
36x16	900x400		•	•	•
36x18	900x450		•	•	•
36x20	900x500		•	•	•

Reducer Tee BF FAB

PE100 Fabrication

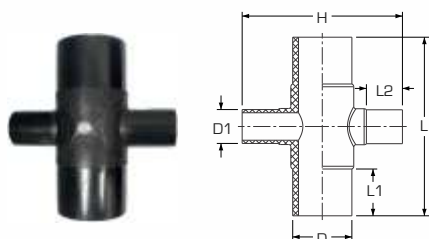


DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
36x22	900x560	•	•	•	•
36x24	900x630	•	•	•	•
36x28	900x710	•	•	•	•
36x32	900x800	•	•	•	•
40x5	1000x125				•
40x5-1/2	1000x140				•
40x6	1000x160				•
40x7	1000x180				•
40x8	1000x200				•
40x9	1000x225				•
40x10	1000x250				•
40x11	1000x280				•
40x12	1000x315				•
40x14	1000x355				•
40x16	1000x400				•
40x18	1000x450				•
40x20	1000x500				•
40x22	1000x560				•
40x24	1000x630				•
40x28	1000x710				•
40x32	1000x800				•
40x36	1000x900				•
48x[...]	1200x[...]				•
56x[...]	1400x[...]				•
64x[...]	1600x[...]				•

DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
4x1-1/2	110x50	•	•	•	•
4x2	110x63	•	•	•	•
4x2-1/2	110x75	•	•	•	•
4x3	110x90	•	•	•	•
6x2	160x63	•	•	•	•
6x2-1/2	160x75	•	•	•	•
6x3	160x90	•	•	•	•
6x4	160x110	•	•	•	•
8x2	200x63	•	•	•	•
8x2-1/2	200x75	•	•	•	•
8x3	200x90	•	•	•	•
8x4	200x110	•	•	•	•
8x6	200x160	•	•	•	•
10x4	250x110	•	•	•	•
10x6	250x160	•	•	•	•
10x8	250x200	•	•	•	•
12x4	315x110	•	•	•	•
12x6	315x160	•	•	•	•
12x8	315x200	•	•	•	•
12x10	315x250	•	•	•	•
14x10	355x250	•	•	•	•
14x12	355x315	•	•	•	•
16x10	400x250	•	•	•	•
16x12	400x315	•	•	•	•
16x14	400x355	•	•	•	•
20x12	500x315	•	•	•	•
20x14	500x355	•	•	•	•
20x16	500x400	•	•	•	•
24x12	630x315	•	•	•	•
24x14	630x355	•	•	•	•
24x16	630x400	•	•	•	•
24x20	630x500	•	•	•	•

Reducer Cross Tee BF INJ

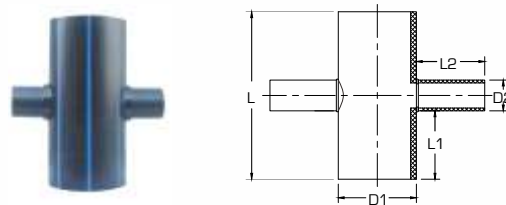
PE100 Injection



DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
3x2	90x63	•		•	
4x2	110x63	•	•	•	
4x2-1/2	110x75	•	•	•	
4x3	110x90	•	•	•	
6x2	160x63	•	•	•	
6x2-1/2	160x75	•	•	•	•
6x3	160x90	•	•	•	•
6x4	160x110	•	•	•	•
8x4	200x110	•	•	•	•
8x6	200x160	•	•	•	•
9x4	225x110	•	•	•	•
9x6	225x160	•	•	•	•
9x8	225x200	•	•	•	•
10x4	250x110	•	•	•	•
10x6	250x160	•	•	•	•
10x8	250x200	•	•	•	•
12x4	315x110	•	•	•	•
12x6	315x160	•	•	•	•
12x8	315x200	•	•	•	•
12x10	315x250	•	•	•	•
14x8	355x200	•	•	•	•
16x4	400x110	•		•	•
16x8	400x200	•		•	•
18x8	450x200	•		•	•
18x12	450x315	•		•	•
20x4	500x110	•		•	•
20x6	500x160	•		•	•
20x8	500x200	•		•	•
20x10	500x250	•		•	•
20x12	500x315	•		•	•
20x16	500x400	•		•	•

Reducer Cross Tee BF FAB

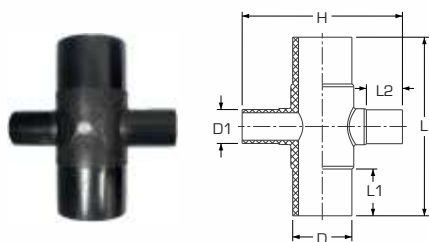
PE100 Fabrication



DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
3x2	90x63	•		•	
4x2	110x63	•	•	•	
4x2-1/2	110x75	•	•	•	
4x3	110x90	•	•	•	
6x2	160x63	•	•	•	
6x2-1/2	160x75	•	•	•	•
6x3	160x90	•	•	•	•
6x4	160x110	•	•	•	•
8x4	200x110	•	•	•	•
8x6	200x160	•	•	•	•
9x4	225x110	•	•	•	•
9x6	225x160	•	•	•	•
9x8	225x200	•	•	•	•
10x4	250x110	•	•	•	•
10x6	250x160	•	•	•	•
10x8	250x200	•	•	•	•
12x4	315x110	•	•	•	•
12x6	315x160	•	•	•	•
12x8	315x200	•	•	•	•
12x10	315x250	•	•	•	•
14x8	355x200	•	•	•	•
16x4	400x110	•		•	•
16x8	400x200	•		•	•
18x8	450x200	•		•	•
18x12	450x315	•		•	•
20x4	500x110	•		•	•
20x6	500x160	•		•	•
20x8	500x200	•		•	•
20x10	500x250	•		•	•
20x12	500x315	•		•	•
20x16	500x400	•		•	•

Reducer Cross Tee BF INJ

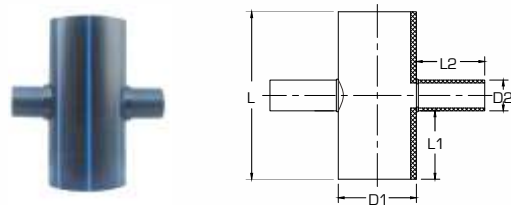
PE100 Injection



DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
22x8	560x200	•		•	•
22x12	560x315	•		•	•
24x8	630x200	•		•	•
24x12	630x315	•		•	•
28x8	710x200	•		•	•
28x12	710x315	•		•	•
28x16	710x400	•		•	•
28x20	710x500	•		•	•
28x24	710x630	•		•	•
32x8	800x200	•		•	•
32x12	800x315	•		•	•
32x16	800x400	•		•	•
32x20	800x500	•		•	•
32x22	800x630	•		•	•

Reducer Cross Tee BF FAB

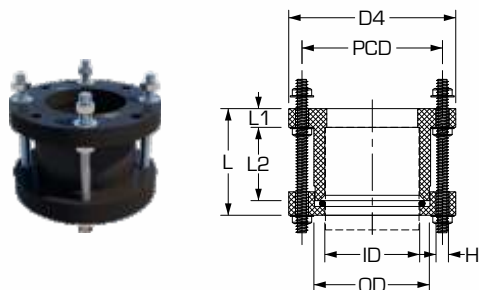
PE100 Fabrication



DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
22x8	560x200	•	•	•	•
22x12	560x315	•	•	•	•
24x8	630x200	•	•	•	•
24x12	630x315	•	•	•	•
28x8	710x200				•
28x12	710x315				•
28x16	710x400				•
28x20	710x500				•
28x24	710x630				•
32x8	800x200				•
32x12	800x315				•
32x16	800x400				•
32x20	800x500				•
32x22	800x630				•

Dismantling Joint

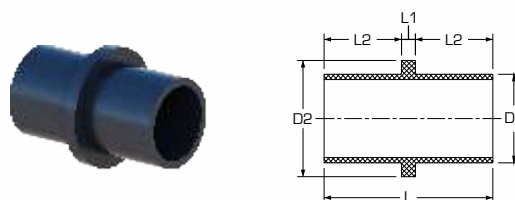
PE100 Fabrication



DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
1/2	20	•	•	•	
3/4	25	•	•	•	
1	32	•	•	•	
1-1/4	40	•	•	•	
1-1/2	50	•	•	•	
2	63	•	•	•	•
2-1/2	75	•	•	•	•
3	90	•	•	•	•
4	110	•	•	•	•
5	125	•	•	•	•
5-1/2	140	•	•	•	•
6	160	•	•	•	•
7	180	•	•	•	•
8	200	•	•	•	•
9	225	•	•	•	•
10	250	•	•	•	•
11	280	•	•	•	•
12	315	•	•	•	•
14	355	•	•	•	•
16	400	•	•	•	•
18	450	•	•	•	•
20	500	•	•	•	•
22	560	•	•	•	•
24	630	•	•	•	•

Puddle Flange

PE100 Fabrication



DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
1/2	20	•	•	•	
3/4	25	•	•	•	
1	32	•	•	•	
1-1/4	40	•	•	•	
1-1/2	50	•	•	•	
2	63	•	•	•	•
2-1/2	75	•	•	•	•
3	90	•	•	•	•
4	110	•	•	•	•
5	125	•	•	•	•
5-1/2	140	•	•	•	•
6	160	•	•	•	•
7	180	•	•	•	•
8	200	•	•	•	•
9	225	•	•	•	•
10	250	•	•	•	•
11	280	•	•	•	•
12	315	•	•	•	•
14	355	•	•	•	•
16	400	•	•	•	•
18	450	•	•	•	•
20	500	•	•	•	•
22	560	•	•	•	•
24	630	•	•	•	•
28	710		•	•	•
32	800		•	•	•
36	900		•	•	•
40	1000		•	•	•
48	1200		•	•	•

Product Description

PE Electrofusion Fitting adalah komponen sambungan pipa berbahan HDPE (High Density Polyethylene) yang dilengkapi coil (kawat resistansi) di bagian dalam. Penyambungan dilakukan dengan cara mengalirkan arus listrik ke coil melalui Electrofusion Control Unit (ECU) sehingga fitting memanaskan dan melelehkan permukaan pipa serta fitting, lalu menyatu secara permanen. Metode ini menghasilkan sambungan kencang, homogen, kuat dan kedap bocor, sangat cocok untuk aplikasi bertekanan dan sistem yang membutuhkan tingkat keamanan tinggi.

Keterangan Produk

Nama Produk	PE Electrofusion Fitting
Material	PE80, PE100
Merek	AMD
Warna Produk	Hitam
Standard	ISO 4427-3, EN 12201-3, BS 6920

Spesifikasi Produk

Nominal Diameter	20 - 1200 mm			
Tekanan Kerja				
PN	10	12.5	16	20
SDR	17	13.6	11	9



Keunggulan Produk

- Kedap air & gas (leak-free)
- Sangat aman untuk tekanan tinggi
- Cocok untuk area sempit
- Minim risiko human error (karena proses otomatis)
- Tanpa api (no open flame)
- Kuat terhadap korosi dan bahan kimia
- Umur layanan panjang (50+ tahun pada kondisi sesuai)

Aplikasi Produk

- Distribusi Gas
- Air minum (PDAM)
- Plumbing industri
- Irigasi bertekanan
- Infrastruktur bawah tanah
- Pipeline utilitas kota.

Electrofusion banyak dipilih untuk pipa gas karena standar keselamatan yang ketat.

Perbedaan Fitting

Aspek	Butt Fusion Fitting	Electrofusion Fitting
Metode	Pemanasan permukaan & penekanan	Pemanasan internal dengan coil listrik
Alat	Mesin welding butt fusion	Control box + EF fitting
Kondisi Lapangan	Perlu ruang untuk alat	Cocok ruang sempit
Ukuran	Umumnya Ø63 mm ke atas	Cocok untuk Ø20 mm – Ø630 mm
Joint	Homogen, sangat kuat	Sangat kuat, cocok gas & air

Metode Penyambungan (Electrofusion Process)

Tahapan umumnya meliputi:

- **Cleaning & Scraping**, permukaan pipa dibersihkan & dikikis untuk menghilangkan lapisan oksidasi.
- **Clamping & Alignment**, pipa diatur agar lurus dengan fitting.
- **Fusion / Joining**, terminal fitting dihubungkan ke Electrofusion Machine sesuai barcode/parameter.
- **Cooling**, sambungan dibiarkan mengeras sampai siap digunakan.

Hasil sambungan menjadi pressure-tight joint tanpa celah.

**PE Coupler EF**

DN.20 - DN.1600
PN.20/PN.16/PN.10

**PE Elbow 90° EF**

DN.20 - DN.1200
PN.20/PN.16/PN.10

**PE Elbow 45° EF**

DN.20 - DN.800
PN.20/PN.16/PN.10

**PE Equal Tee EF**

DN.20 - DN.800
PN.20/PN.16/PN.10

**PE Stub End EF**

DN.50 - DN.1000
PN.20/PN.16/PN.10

**PE End Cap EF**

DN.20 - DN.400
PN.16/PN.10

**PE Reducer EF**

DN.20x_ - DN.800x_
PN.20/PN.16/PN.10

**PE Reducer Tee EF**

DN.20x_ - DN.1000x_
PN.20/PN.16/PN.10

**PE Cross Tee EF**

DN.110, 160, 200
PN.16/PN.10

**PE Branch Saddle EF**

DN.20x_ - DN.315x_
PN.16/PN.10

**PE Tapping Tee EF**

DN.20x_ - DN.400x_
PN.16/PN.10

**PE Saddle EF**

DN.75x_ - DN.1000x_
PN.16/PN.10

**PE Saddle Plug EF**

DN.63 - 315
PN.16/PN.10

**PE Steel Transition Male Adaptor EF**

DN.20 - DN.63
PN.16/PN.10

**PE Steel Transition Female Adaptor EF**

DN.20 - DN.63
PN.16/PN.10

**PE Grooved Coupler EF**

DN.75 - 250
PN.16/PN.10

**PE Grooved Elbow 90° EF**

DN.110, 160
PN.16/PN.10

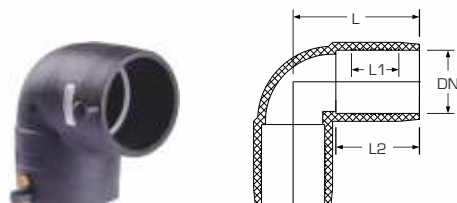
Coupler EF

PE100



Elbow 90° EF

PE100

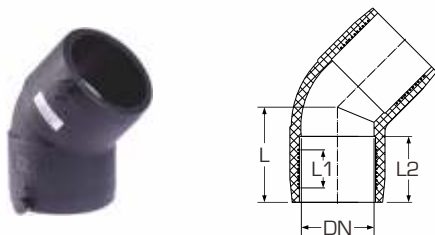


SIZE (DN)	PRESSURE	PIN SIZE
20	PN 16	4.0/4.7
25	PN 16	4.0/4.7
32	PN 20/16/10	4.0/4.7
40	PN 20/16/10	4.0/4.7
50	PN 20/16/10	4.0/4.7
63	PN 20/16/10	4.0/4.7
75	PN 20/16/10	4.0/4.7
90	PN 25/20/16/10	4.0/4.7
110	PN 25/20/16/10	4.0/4.7
125	PN 25/20/16/10	4.0/4.7
140	PN 25/20/16/10	4.0/4.7
160	PN 25/20/16/10	4.0/4.7
180	PN 25/20/16/10	4.0/4.7
200	PN 25/20/16/10	4.0/4.7
225	PN 25/20/16/10	4.0/4.7
250	PN 25/20/16/10	4.0/4.7
280	PN 25/20/16/10	4.0/4.7
315	PN 25/20/16/10	4.0/4.7
355	PN 25/20/16/10	4.0/4.7
400	PN 25/20/16/10	4.0/4.7
450	PN 16/10	4.0/4.7
500	PN 16/10	4.0/4.7
560	PN 16/10	4.0/4.7
630	PN 16/10	4.0/4.7
710	PN 16/10	4.0/4.7
800	PN 16/10	4.0/4.7
900	PN 16/10/8/6	4.0/4.7
1000	PN 16/10/8/6	4.0/4.7
1200	PN 16/10/8/6	4.0/4.7
1400	PN 16/10/8/6	4.0/4.7
1600	PN 16/10/8/6	4.0/4.7

SIZE (DN)	PRESSURE	PIN SIZE
20	PN 16/10	4.0/4.7
25	PN 16/10	4.0/4.7
32	PN 16/10	4.0/4.7
40	PN 16/10	4.0/4.7
50	PN 16/10	4.0/4.7
63	PN 16/10	4.0/4.7
75	PN 16/10	4.0/4.7
90	PN 16/10	4.0/4.7
110	PN 16/10	4.0/4.7
125	PN 16/10	4.0/4.7
140	PN 16/10	4.0/4.7
160	PN 16/10	4.0/4.7
180	PN 16/10	4.0/4.7
200	PN 16/10	4.0/4.7
225	PN 16/10	4.0/4.7
250	PN 16/10	4.0/4.7
280	PN 16/10	4.0/4.7
315	PN 16/10	4.0/4.7
355	PN 16/10	4.0/4.7
400	PN 16/10	4.0/4.7
450	PN 16/10	4.0/4.7
500	PN 16/10	4.0/4.7
560	PN 16/10	4.0/4.7
630	PN 16/10	4.0/4.7
710	PN 16/10	4.0/4.7
800	PN 16/10	4.0/4.7
900	PN 16/10	4.0/4.7
1000	PN 16/10	4.0/4.7
1200	PN 16/10	4.0/4.7

Elbow 45° EF

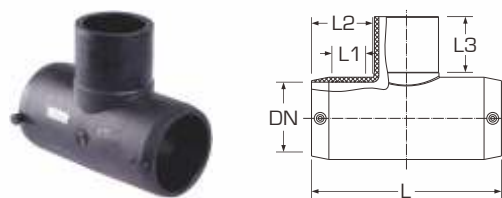
PE100



SIZE (DN)	PRESSURE	PIN SIZE
20	PN 16/10	4.0/4.7
25	PN 16/10	4.0/4.7
32	PN 16/10	4.0/4.7
40	PN 16/10	4.0/4.7
50	PN 16/10	4.0/4.7
63	PN 16/10	4.0/4.7
75	PN 16/10	4.0/4.7
90	PN 16/10	4.0/4.7
110	PN 16/10	4.0/4.7
125	PN 16/10	4.0/4.7
140	PN 16/10	4.0/4.7
160	PN 16/10	4.0/4.7
180	PN 16/10	4.0/4.7
200	PN 16/10	4.0/4.7
225	PN 16/10	4.0/4.7
250	PN 16/10	4.0/4.7
280	PN 16/10	4.0/4.7
315	PN 16/10	4.0/4.7
355	PN 16/10	4.0/4.7
400	PN 16/10	4.0/4.7
450	PN 16/10	4.0/4.7
500	PN 16/10	4.0/4.7
560	PN 16/10	4.0/4.7
630	PN 16/10	4.0/4.7
710	PN 16/10	4.0/4.7
800	PN 16/10	4.0/4.7

Equal Tee EF

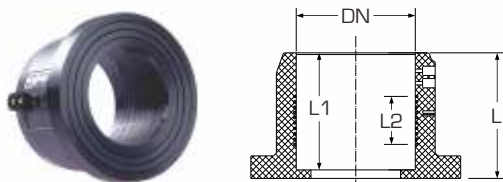
PE100



SIZE (DN)	PRESSURE	PIN SIZE
20	PN 16/10	4.0/4.7
25	PN 16/10	4.0/4.7
32	PN 16/10	4.0/4.7
40	PN 16/10	4.0/4.7
50	PN 16/10	4.0/4.7
63	PN 16/10	4.0/4.7
75	PN 16/10	4.0/4.7
90	PN 16/10	4.0/4.7
110	PN 16/10	4.0/4.7
125	PN 16/10	4.0/4.7
140	PN 16/10	4.0/4.7
160	PN 16/10	4.0/4.7
180	PN 16/10	4.0/4.7
200	PN 16/10	4.0/4.7
225	PN 16/10	4.0/4.7
250	PN 16/10	4.0/4.7
280	PN 16/10	4.0/4.7
315	PN 16/10	4.0/4.7
355	PN 16/10	4.0/4.7
400	PN 16/10	4.0/4.7
450	PN 16/10	4.0/4.7
500	PN 16/10	4.0/4.7
560	PN 16/10	4.0/4.7
630	PN 16/10	4.0/4.7
710	PN 16/10	4.0/4.7
800	PN 16/10	4.0/4.7

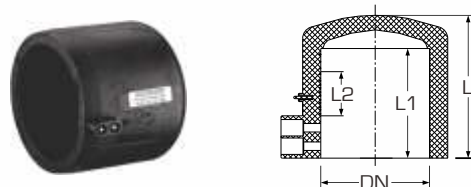
Stub End EF

PE100



End Cap EF

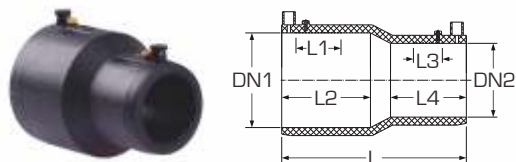
PE100



SIZE (DN)	PRESSURE	PIN SIZE
50	PN 16/10	4.0/4.7
63	PN 16/10	4.0/4.7
75	PN 16/10	4.0/4.7
90	PN 16/10	4.0/4.7
110	PN 16/10	4.0/4.7
125	PN 16/10	4.0/4.7
140	PN 16/10	4.0/4.7
160	PN 16/10	4.0/4.7
180	PN 16/10	4.0/4.7
200	PN 16/10	4.0/4.7
225	PN 16/10	4.0/4.7
250	PN 16/10	4.0/4.7
280	PN 16/10	4.0/4.7
315	PN 16/10	4.0/4.7
355	PN 16/10	4.0/4.7
400	PN 16/10	4.0/4.7
450	PN 16/10	4.0/4.7
500	PN 16/10	4.0/4.7
560	PN 16/10	4.0/4.7
630	PN 16/10	4.0/4.7
710	PN 16/10	4.0/4.7
800	PN 16/10	4.0/4.7
900	PN 16/10	4.0/4.7
1000	PN 16/10	4.0/4.7

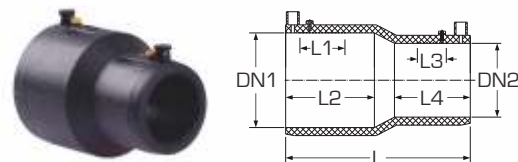
SIZE (DN)	PRESSURE	PIN SIZE
20	PN 16	4.0/4.7
25	PN 16	4.0/4.7
32	PN 16	4.0/4.7
40	PN 16	4.0/4.7
50	PN 16	4.0/4.7
63	PN 16	4.0/4.7
75	PN 16	4.0/4.7
90	PN 16	4.0/4.7
110	PN 16	4.0/4.7
125	PN 16	4.0/4.7
140	PN 16	4.0/4.7
160	PN 16	4.0/4.7
180	PN 16	4.0/4.7
200	PN 16	4.0/4.7
225	PN 16	4.0/4.7
250	PN 16/10	4.0/4.7
280	PN 16/10	4.0/4.7
315	PN 16/10	4.0/4.7
355	PN 16/10	4.0/4.7
400	PN 16/10	4.0/4.7

Reducer EF PE100



SIZE (DN)	PRESSURE	PIN SIZE
25x20	PN 16	4.0/4.7
32x20	PN 16	4.0/4.7
32x25	PN 16	4.0/4.7
40x25	PN 16	4.0/4.7
40x32	PN 16	4.0/4.7
50x25	PN 16	4.0/4.7
50x32	PN 16	4.0/4.7
50x40	PN 16	4.0/4.7
63x25	PN 16	4.0/4.7
63x32	PN 16	4.0/4.7
63x50	PN 16	4.0/4.7
75x40	PN 16	4.0/4.7
75x50	PN 16	4.0/4.7
75x63	PN 16/10	4.0/4.7
90x50	PN 16/10	4.0/4.7
90x63	PN 16/10	4.0/4.7
90x75	PN 16/10	4.0/4.7
110x63	PN 16/10	4.0/4.7
110x75	PN 16/10	4.0/4.7
110x90	PN 16/10	4.0/4.7
125x110	PN 16/10	4.0/4.7
160x90	PN 16/10	4.0/4.7
160x110	PN 16/10	4.0/4.7
200x90	PN 16/10	4.0/4.7
200x110	PN 16/10	4.0/4.7
200x160	PN 16/10	4.0/4.7
250x110	PN 16/10	4.0/4.7
250x160	PN 16/10	4.0/4.7
250x200	PN 10.	4.0/4.7

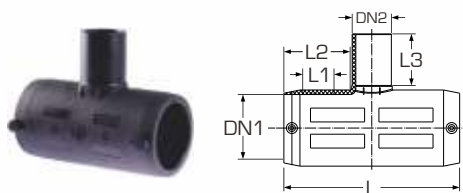
Reducer EF PE100



SIZE (DN)	PRESSURE	PIN SIZE
315x250	PN 10	4.0/4.7
355x315	PN 10	4.0/4.7
355x250	PN 10	4.0/4.7
400x250	PN 10	4.0/4.7
400x315	PN 10	4.0/4.7
400x355	PN 10	4.0/4.7
450x400	PN 10	4.0/4.7
500x110	PN 10	4.0/4.7
500x160	PN 10	4.0/4.7
500x200	PN 10	4.0/4.7
500x250	PN 10	4.0/4.7
500x315	PN 10	4.0/4.7
500x400	PN 10	4.0/4.7
630x110	PN 10	4.0/4.7
630x160	PN 10	4.0/4.7
630x200	PN 10	4.0/4.7
630x250	PN 10	4.0/4.7
630x315	PN 10	4.0/4.7
630x400	PN 10	4.0/4.7
630x500	PN 10	4.0/4.7
710x200	PN 10	4.0/4.7
710x315	PN 10	4.0/4.7
710x400	PN 10	4.0/4.7
710x500	PN 10	4.0/4.7
800x160	PN 10	4.0/4.7
800x200	PN 10	4.0/4.7
800x315	PN 10	4.0/4.7
800x400	PN 10	4.0/4.7
800x500	PN 10	4.0/4.7

Reducer Tee EF

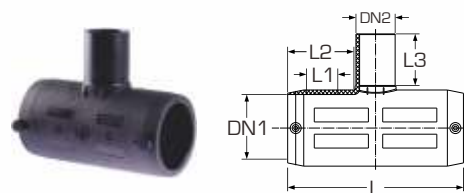
PE100



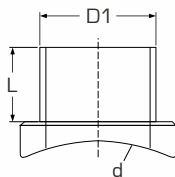
SIZE (DN)	PRESSURE	PIN SIZE
25x20	PN 16	4.0/4.7
32x20	PN 16	4.0/4.7
32x25	PN 16	4.0/4.7
40x25	PN 16	4.0/4.7
40x32	PN 16	4.0/4.7
50x25	PN 16	4.0/4.7
50x32	PN 16	4.0/4.7
50x40	PN 16	4.0/4.7
63x25	PN 16	4.0/4.7
63x32	PN 16	4.0/4.7
63x50	PN 16	4.0/4.7
75x40	PN 16	4.0/4.7
75x50	PN 16	4.0/4.7
75x63	PN 16/10	4.0/4.7
90x50	PN 16/10	4.0/4.7
90x63	PN 16/10	4.0/4.7
90x75	PN 16/10	4.0/4.7
110x63	PN 16/10	4.0/4.7
110x75	PN 16/10	4.0/4.7
110x90	PN 16/10	4.0/4.7
125x110	PN 16/10	4.0/4.7
160x90	PN 16/10	4.0/4.7
160x110	PN 16/10	4.0/4.7
200x90	PN 16/10	4.0/4.7
200x110	PN 16/10	4.0/4.7
200x160	PN 16/10	4.0/4.7
250x110	PN 16/10	4.0/4.7
250x160	PN 16/10	4.0/4.7
250x200	PN 10	4.0/4.7
315x250	PN 10	4.0/4.7
355x315	PN 10	4.0/4.7
355x250	PN 10	4.0/4.7
400x250	PN 10	4.0/4.7

Reducer Tee EF

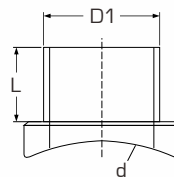
PE100



SIZE (DN)	PRESSURE	PIN SIZE
400x315	PN 10	4.0/4.7
400x355	PN 10	4.0/4.7
450x400	PN 10	4.0/4.7
500x110	PN 10	4.0/4.7
500x160	PN 10	4.0/4.7
500x200	PN 10	4.0/4.7
500x250	PN 10	4.0/4.7
500x315	PN 10	4.0/4.7
500x400	PN 10	4.0/4.7
630x110	PN 10	4.0/4.7
630x160	PN 10	4.0/4.7
630x200	PN 10	4.0/4.7
630x250	PN 10	4.0/4.7
630x315	PN 10	4.0/4.7
630x400	PN 10	4.0/4.7
630x500	PN 10	4.0/4.7
710x200	PN 10	4.0/4.7
710x315	PN 10	4.0/4.7
710x400	PN 10	4.0/4.7
710x500	PN 10	4.0/4.7
800x160	PN 10	4.0/4.7
800x200	PN 10	4.0/4.7
800x315	PN 10	4.0/4.7
800x400	PN 10	4.0/4.7
800x500	PN 10	4.0/4.7
900x400	PN 10	4.0/4.7
900x630	PN 10	4.0/4.7
900x710	PN 10	4.0/4.7
1000x400	PN 10	4.0/4.7
1000x500	PN 10	4.0/4.7
1000x630	PN 10	4.0/4.7
1000x710	PN 10	4.0/4.7

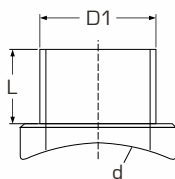
Saddle EF
PE100


SIZE (DN)	PRESSURE	PIN SIZE
125-75	PN 16/10	4.0/4.7
125-90	PN 16/10	4.0/4.7
140-75	PN 16/10	4.0/4.7
140-90	PN 16/10	4.0/4.7
160-75	PN 16/10	4.0/4.7
160-90	PN 16/10	4.0/4.7
160-110	PN 16/10	4.0/4.7
160-125	PN 16/10	4.0/4.7
160-140	PN 16/10	4.0/4.7
180-160	PN 16/10	4.0/4.7
20-075	PN 16/10	4.0/4.7
200-90	PN 16/10	4.0/4.7
200-110	PN 16/10	4.0/4.7
200-125	PN 16/10	4.0/4.7
200-140	PN 16/10	4.0/4.7
200-160	PN 16/10	4.0/4.7
225-75	PN 16/10	4.0/4.7
225-90	PN 16/10	4.0/4.7
225-110	PN 16/10	4.0/4.7
225-125	PN 16/10	4.0/4.7
225-140	PN 16/10	4.0/4.7
225-160	PN 16/10	4.0/4.7
225-180	PN 16/10	4.0/4.7
225-200	PN 16/10	4.0/4.7
250-75	PN 16/10	4.0/4.7
250-90	PN 16/10	4.0/4.7
250-110	PN 16/10	4.0/4.7
250-125	PN 16/10	4.0/4.7
250-140	PN 16/10	4.0/4.7
250-160	PN 16/10	4.0/4.7
250-180	PN 16/10	4.0/4.7
250-200	PN 16/10	4.0/4.7
250-225	PN 16/10	4.0/4.7
280-75	PN 16/10	4.0/4.7
280-90	PN 16/10	4.0/4.7

Saddle EF
PE100


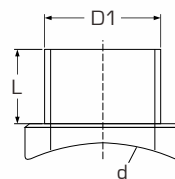
SIZE (DN)	PRESSURE	PIN SIZE
280-110	PN 16/10	4.0/4.7
250-160	PN 16/10	4.0/4.7
250-180	PN 16/10	4.0/4.7
250-200	PN 16/10	4.0/4.7
250-225	PN 16/10	4.0/4.7
280-75	PN 16/10	4.0/4.7
280-90	PN 16/10	4.0/4.7
280-110	PN 16/10	4.0/4.7
280-125	PN 16/10	4.0/4.7
280-140	PN 16/10	4.0/4.7
280-160	PN 16/10	4.0/4.7
280-180	PN 16/10	4.0/4.7
280-200	PN 16/10	4.0/4.7
280-225	PN 16/10	4.0/4.7
315-75	PN 16/10	4.0/4.7
315-90	PN 16/10	4.0/4.7
315-110	PN 16/10	4.0/4.7
315-125	PN 16/10	4.0/4.7
315-140	PN 16/10	4.0/4.7
315-160	PN 16/10	4.0/4.7
315-180	PN 16/10	4.0/4.7
315-200	PN 16/10	4.0/4.7
315-225	PN 16/10	4.0/4.7
315-250	PN 16/10	4.0/4.7
355-75	PN 16/10	4.0/4.7
355-90	PN 16/10	4.0/4.7
355-110	PN 16/10	4.0/4.7
355-125	PN 16/10	4.0/4.7
355-140	PN 16/10	4.0/4.7
355-160	PN 16/10	4.0/4.7
355-180	PN 16/10	4.0/4.7
355-200	PN 16/10	4.0/4.7
355-225	PN 16/10	4.0/4.7
355-250	PN 16/10	4.0/4.7
400-75	PN 16/10	4.0/4.7

Saddle EF PE100



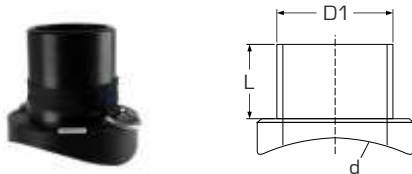
SIZE (DN)	PRESSURE	PIN SIZE
400-90	PN 16/10	4.0/4.7
400-110	PN 16/10	4.0/4.7
400-125	PN 16/10	4.0/4.7
400-140	PN 16/10	4.0/4.7
400-160	PN 16/10	4.0/4.7
400-180	PN 16/10	4.0/4.7
400-200	N 16/10	4.0/4.7
400-225	PN 16/10	4.0/4.7
400-250	PN 16/10	4.0/4.7
400-280	PN 16/10	4.0/4.7
400-315	PN 16/10	4.0/4.7
400-355	PN 16/10	4.0/4.7
450-63	PN 16/10	4.0/4.7
450-75	PN 16/10	4.0/4.7
450-90	PN 16/10	4.0/4.7
450-110	PN 16/10	4.0/4.7
450-125	PN 16/10	4.0/4.7
450-140	PN 16/10	4.0/4.7
450-160	PN 16/10	4.0/4.7
450-180	PN 16/10	4.0/4.7
450-200	PN 16/10	4.0/4.7
450-225	PN 16/10	4.0/4.7
450-250	PN 16/10	4.0/4.7
450-280	PN 16/10	4.0/4.7
450-315	PN 16/10	4.0/4.7
450-355	PN 16/10	4.0/4.7
500-63	PN 16/10	4.0/4.7
500-75	PN 16/10	4.0/4.7
500-90	PN 16/10	4.0/4.7
500-110	PN 16/10	4.0/4.7
500-125	PN 16/10	4.0/4.7
500-140	PN 16/10	4.0/4.7
500-160	PN 16/10	4.0/4.7
500-180	PN 16/10	4.0/4.7
500-200	PN 16/10	4.0/4.7

Saddle EF PE100



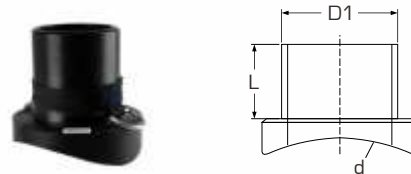
SIZE (DN)	PRESSURE	PIN SIZE
500-225	PN 16/10	4.0/4.7
500-250	PN 16/10	4.0/4.7
500-280	PN 16/10	4.0/4.7
500-315	PN 16/10	4.0/4.7
500-355	PN 16/10	4.0/4.7
500-400	PN 16/10	4.0/4.7
500-450	PN 16/10	4.0/4.7
560-63	PN 16/10	4.0/4.7
560-75	PN 16/10	4.0/4.7
560-90	PN 16/10	4.0/4.7
560-110	PN 16/10	4.0/4.7
560-125	PN 16/10	4.0/4.7
560-140	PN 16/10	4.0/4.7
560-160	PN 16/10	4.0/4.7
560-180	PN 16/10	4.0/4.7
560-200	PN 16/10	4.0/4.7
560-225	PN 16/10	4.0/4.7
560-250	PN 16/10	4.0/4.7
560-280	PN 16/10	4.0/4.7
560-315	PN 16/10	4.0/4.7
560-355	PN 16/10	4.0/4.7
560-400	PN 16/10	4.0/4.7
560-450	PN 16/10	4.0/4.7
630-63	PN 16/10	4.0/4.7
630-75	PN 16/10	4.0/4.7
630-90	PN 16/10	4.0/4.7
630-110	PN 16/10	4.0/4.7
630-125	PN 16/10	4.0/4.7
630-140	PN 16/10	4.0/4.7
630-160	PN 16/10	4.0/4.7
630-180	PN 16/10	4.0/4.7
630-200	PN 16/10	4.0/4.7
630-225	PN 16/10	4.0/4.7
630-250	PN 16/10	4.0/4.7
630-280	PN 16/10	4.0/4.7

Saddle EF PE100



SIZE (DN)	PRESSURE	PIN SIZE
630-315	PN 16/10	4.0/4.7
630-355	PN 16/10	4.0/4.7
630-400	PN 16/10	4.0/4.7
630-450	PN 16/10	4.0/4.7
630-500	PN 16/10	4.0/4.7
630-560	PN 16/10	4.0/4.7
710-63	PN 16/10	4.0/4.7
710-75	PN 16/10	4.0/4.7
710-90	PN 16/10	4.0/4.7
710-110	PN 16/10	4.0/4.7
710-125	PN 16/10	4.0/4.7
710-140	PN 16/10	4.0/4.7
710-160	PN 16/10	4.0/4.7
710-180	PN 16/10	4.0/4.7
710-200	PN 16/10	4.0/4.7
710-225	PN 16/10	4.0/4.7
710-250	PN 16/10	4.0/4.7
710-280	PN 16/10	4.0/4.7
710-315	PN 16/10	4.0/4.7
710-355	PN 16/10	4.0/4.7
710-400	PN 16/10	4.0/4.7
710-450	PN 16/10	4.0/4.7
710-500	PN 16/10	4.0/4.7
710-560	PN 16/10	4.0/4.7
800-63	PN 16/10	4.0/4.7
800-75	PN 16/10	4.0/4.7
800-90	PN 16/10	4.0/4.7
800-110	PN 16/10	4.0/4.7
800-125	PN 16/10	4.0/4.7
800-140	PN 16/10	4.0/4.7
800-160	PN 16/10	4.0/4.7
800-180	PN 16/10	4.0/4.7
800-200	PN 16/10	4.0/4.7
800-225	PN 16/10	4.0/4.7
800-250	PN 16/10	4.0/4.7

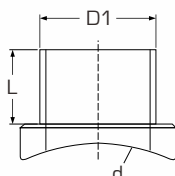
Saddle EF PE100



SIZE (DN)	PRESSURE	PIN SIZE
800-280	PN 16/10	4.0/4.7
800-315	PN 16/10	4.0/4.7
800-355	PN 16/10	4.0/4.7
800-400	PN 16/10	4.0/4.7
800-450	PN 16/10	4.0/4.7
800-500	PN 16/10	4.0/4.7
800-560	PN 16/10	4.0/4.7
800-630	PN 16/10	4.0/4.7
900-63	PN 16/10	4.0/4.7
900-75	PN 16/10	4.0/4.7
900-90	PN 16/10	4.0/4.7
900-110	PN 16/10	4.0/4.7
900-125	PN 16/10	4.0/4.7
900-140	PN 16/10	4.0/4.7
900-160	PN 16/10	4.0/4.7
900-180	PN 16/10	4.0/4.7
900-200	PN 16/10	4.0/4.7
900-225	PN 16/10	4.0/4.7
900-250	PN 16/10	4.0/4.7
900-280	PN 16/10	4.0/4.7
900-315	PN 16/10	4.0/4.7
900-355	PN 16/10	4.0/4.7
900-400	PN 16/10	4.0/4.7
900-450	PN 16/10	4.0/4.7
900-500	PN 16/10	4.0/4.7
900-560	PN 16/10	4.0/4.7
900-630	PN 16/10	4.0/4.7
1000-63	PN 16/10	4.0/4.7
1000-75	PN 16/10	4.0/4.7
1000-90	PN 16/10	4.0/4.7
1000-110	PN 16/10	4.0/4.7
1000-125	PN 16/10	4.0/4.7
1000-140	PN 16/10	4.0/4.7
1000-160	PN 16/10	4.0/4.7
1000-180	PN 16/10	4.0/4.7

Saddle EF

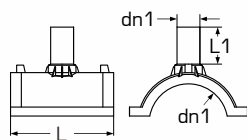
PE100



SIZE (DN)	PRESSURE	PIN SIZE
1000-200	PN 16/10	4.0/4.7
1000-225	PN 16/10	4.0/4.7
1000-250	PN 16/10	4.0/4.7
1000-280	PN 16/10	4.0/4.7
1000-315	PN 16/10	4.0/4.7
1000-355	PN 16/10	4.0/4.7
1000-400	PN 16/10	4.0/4.7
1000-450	PN 16/10	4.0/4.7
1000-500	PN 16/10	4.0/4.7
1000-560	PN 16/10	4.0/4.7
1000-630	PN 16/10	4.0/4.7

Branch Saddle EF

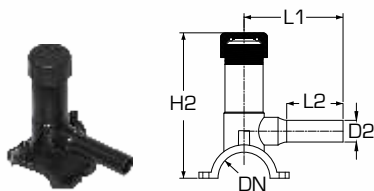
PE100



SIZE (DN)	PRESSURE	PIN SIZE
63x20	PN 16/10	4.0/4.7
63x25	PN 16/10	4.0/4.7
63x32	PN 16/10	4.0/4.7
63x40	PN 16/10	4.0/4.7
63x50	PN 16/10	4.0/4.7
75x20	PN 16/10	4.0/4.7
75x25	PN 16/10	4.0/4.7
75x32	PN 16/10	4.0/4.7
75x40	PN 16/10	4.0/4.7
75x50	PN 16/10	4.0/4.7
90x20	PN 16/10	4.0/4.7
90x25	PN 16/10	4.0/4.7
90x32	PN 16/10	4.0/4.7
90x40	PN 16/10	4.0/4.7

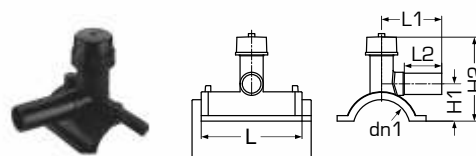
SIZE (DN)	PRESSURE	PIN SIZE
90x50	PN 16/10	
90x63	PN 16/10	
110x20	PN 16/10	
110x25	PN 16/10	
110x32	PN 16/10	
110x40	PN 16/10	
110x50	PN 16/10	
110x63	PN 16/10	
125x20	PN 16/10	
125x25	PN 16/10	
125x32	PN 16/10	
125x40	PN 16/10	
125x50	PN 16/10	
125x63	PN 16/10	
160x20	PN 16/10	
160x25	PN 16/10	
160x32	PN 16/10	
160x40	PN 16/10	
160x50	PN 16/10	
160x63	PN 16/10	
160x90	PN 16/10	
160x110	PN 16/10	
180x20	PN 16/10	
180x25	PN 16/10	
180x32	PN 16/10	
180x40	PN 16/10	
180x50	PN 16/10	
180x63	PN 16/10	
200x20	PN 16/10	
200x25	PN 16/10	
200x32	PN 16/10	
200x40	PN 16/10	
200x50	PN 16/10	
200x63	PN 16/10	
200x90	PN 16/10	
220x20	PN 16/10	
220x25	PN 16/10	
220x32	PN 16/10	
220x40	PN 16/10	
220x50	PN 16/10	

Tapping Tee EF PE100



SIZE (DN)	PRESSURE	PIN SIZE
40-20	PN 16/10	4.0/4.7
40-25	PN 16/10	4.0/4.7
40-32	PN 16/10	4.0/4.7
50-20	PN 16/10	4.0/4.7
50-25	PN 16/10	4.0/4.7
50-32	PN 16/10	4.0/4.7
63-20	PN 16/10	4.0/4.7
63-25	PN 16/10	4.0/4.7
63-32	PN 16/10	4.0/4.7
63-40	PN 16/10	4.0/4.7
75-20	PN 16/10	4.0/4.7
75-25	PN 16/10	4.0/4.7
75-32	PN 16/10	4.0/4.7
75-40	PN 16/10	4.0/4.7
90-20	PN 16/10	4.0/4.7
90-25	PN 16/10	4.0/4.7
90-32	PN 16/10	4.0/4.7
90-40	PN 16/10	4.0/4.7
110-20	PN 16/10	4.0/4.7
110-25	PN 16/10	4.0/4.7
110-32	PN 16/10	4.0/4.7
110-40	PN 16/10	4.0/4.7
125-20	PN 16/10	4.0/4.7
125-25	PN 16/10	4.0/4.7
125-32	PN 16/10	4.0/4.7
125-40	PN 16/10	4.0/4.7
140-20	PN 16/10	4.0/4.7
140-25	PN 16/10	4.0/4.7
140-32	PN 16/10	4.0/4.7
200-20	PN 16/10	4.0/4.7
200-25	PN 16/10	4.0/4.7
200-32	PN 16/10	4.0/4.7
200-40	PN 16/10	4.0/4.7
200-50	PN 16/10	4.0/4.7
200-63	PN 16/10	4.0/4.7

Tapping Tee EF PE100



SIZE (DN)	PRESSURE	PIN SIZE
225-20	PN 16/10	4.0/4.7
225-25	PN 16/10	4.0/4.7
225-32	PN 16/10	4.0/4.7
225-40	PN 16/10	4.0/4.7
225-50	PN 16/10	4.0/4.7
225-63	PN 16/10	4.0/4.7
250-20	PN 16/10	4.0/4.7
250-25	PN 16/10	4.0/4.7
250-32	PN 16/10	4.0/4.7
250-40	PN 16/10	4.0/4.7
250-50	PN 16/10	4.0/4.7
250-63	PN 16/10	4.0/4.7
280-20	PN 16/10	4.0/4.7
280-25	PN 16/10	4.0/4.7
280-32	PN 16/10	4.0/4.7
280-50	PN 16/10	4.0/4.7
280-63	PN 16/10	4.0/4.7
315-20	PN 16/10	4.0/4.7
315-25	PN 16/10	4.0/4.7
315-32	PN 16/10	4.0/4.7
315-40	PN 16/10	4.0/4.7
315-50	PN 16/10	4.0/4.7
315-63	PN 16/10	4.0/4.7
355-20	PN 16/10	4.0/4.7
355-25	PN 16/10	4.0/4.7
355-32	PN 16/10	4.0/4.7
355-40	PN 16/10	4.0/4.7
355-50	PN 16/10	4.0/4.7
355-63	PN 16/10	4.0/4.7
400-20	PN 16/10	4.0/4.7
400-25	PN 16/10	4.0/4.7
400-32	PN 16/10	4.0/4.7
400-40	PN 16/10	4.0/4.7
400-50	PN 16/10	4.0/4.7
400-63	PN 16/10	4.0/4.7

Valve Tapping Tee EF

PE100



SIZE (DN)	PRESSURE	PIN SIZE
50-20	PN 16	4.0/4.7
50-25	PN 16	4.0/4.7
50-32	PN 16	4.0/4.7
63-20	PN 16	4.0/4.7
63-25	PN 16	4.0/4.7
63-32	PN 16	4.0/4.7
63-40	PN 16	4.0/4.7
63-50	PN 16	4.0/4.7
63-63	PN 16	4.0/4.7
75-20	PN 16	4.0/4.7
75-25	PN 16	4.0/4.7
75-32	PN 16	4.0/4.7
75-40	PN 16	4.0/4.7
75-50	PN 16	4.0/4.7
75-63	PN 16	4.0/4.7
90-20	PN 16	4.0/4.7
90-25	PN 16	4.0/4.7
90-32	PN 16	4.0/4.7
90-40	PN 16	4.0/4.7
90-50	PN 16	4.0/4.7
90-63	PN 16	4.0/4.7
110-20	PN 16	4.0/4.7
110-25	PN 16	4.0/4.7
110-32	PN 16	4.0/4.7
110-40	PN 16	4.0/4.7
110-50	PN 16	4.0/4.7
110-63	PN 16	4.0/4.7
125-20	PN 16	4.0/4.7
125-25	PN 16	4.0/4.7
125-32	PN 16	4.0/4.7
125-40	PN 16	4.0/4.7
125-50	PN 16	4.0/4.7
125-63	PN 16	4.0/4.7
140-20	PN 16	4.0/4.7
140-25	PN 16	4.0/4.7

Valve Tapping Tee EF

PE100



SIZE (DN)	PRESSURE	PIN SIZE
140-32	PN 16	4.0/4.7
140-40	PN 16	4.0/4.7
140-50	PN 16	4.0/4.7
140-63	PN 16	4.0/4.7
160-20	PN 16	4.0/4.7
160-25	PN 16	4.0/4.7
160-32	PN 16	4.0/4.7
160-40	PN 16	4.0/4.7
160-50	PN 16	4.0/4.7
160-63	PN 16	4.0/4.7
180-20	PN 16	4.0/4.7
180-25	PN 16	4.0/4.7
180-32	PN 16	4.0/4.7
180-40	PN 16	4.0/4.7
180-50	PN 16	4.0/4.7
180-63	PN 16	4.0/4.7
200-20	PN 16	4.0/4.7
200-25	PN 16	4.0/4.7
200-32	PN 16	4.0/4.7
200-40	PN 16	4.0/4.7
200-50	PN 16	4.0/4.7
200-63	PN 16	4.0/4.7
225-20	PN 16	4.0/4.7
225-25	PN 16	4.0/4.7
225-32	PN 16	4.0/4.7
225-40	PN 16	4.0/4.7
225-50	PN 16	4.0/4.7
225-63	PN 16	4.0/4.7
250-20	PN 16	4.0/4.7
250-25	PN 16	4.0/4.7
250-32	PN 16	4.0/4.7
250-40	PN 16	4.0/4.7
250-50	PN 16	4.0/4.7
250-63	PN 16	4.0/4.7
280-20	PN 16	4.0/4.7

Valve Tapping Tee EF

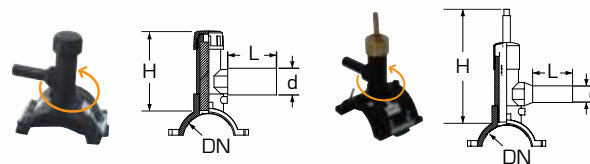
PE100



SIZE (DN)	PRESSURE	PIN SIZE
280-25	PN 16	4.0/4.7
280-32	PN 16	4.0/4.7
280-40	PN 16	4.0/4.7
280-50	PN 16	4.0/4.7
280-63	PN 16	4.0/4.7
315-20	PN 16	4.0/4.7
315-25	PN 16	4.0/4.7
315-32	PN 16	4.0/4.7
315-40	PN 16	4.0/4.7
315-50	PN 16	4.0/4.7
315-63	PN 16	4.0/4.7
355-20	PN 16	4.0/4.7
355-25	PN 16	4.0/4.7
355-32	PN 16	4.0/4.7
355-40	PN 16	4.0/4.7
355-50	PN 16	4.0/4.7
355-63	PN 16	4.0/4.7

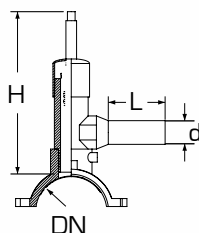
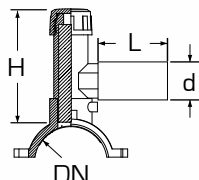
Tapping Tee Rotating Outlet 360° EF

PE100



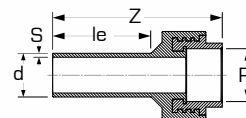
SIZE (DN)	PRESSURE	PIN SIZE
90-20	PN 16	4.0/4.7
90-25	PN 16	4.0/4.7
90-32	PN 16	4.0/4.7
90-40	PN 16	4.0/4.7
90-50	PN 16	4.0/4.7
90-63	PN 16	4.0/4.7
110-20	PN 16	4.0/4.7
110-25	PN 16	4.0/4.7
110-32	PN 16	4.0/4.7
110-40	PN 16	4.0/4.7
110-50	PN 16	4.0/4.7
110-63	PN 16	4.0/4.7
125-20	PN 16	4.0/4.7
125-25	PN 16	4.0/4.7
125-32	PN 16	4.0/4.7
125-40	PN 16	4.0/4.7
125-50	PN 16	4.0/4.7
125-63	PN 16	4.0/4.7
140-20	PN 16	4.0/4.7
140-25	PN 16	4.0/4.7
140-32	PN 16	4.0/4.7
140-40	PN 16	4.0/4.7
140-50	PN 16	4.0/4.7
140-63	PN 16	4.0/4.7

Tapping Tee Rotating Outlet 360° EF PE100



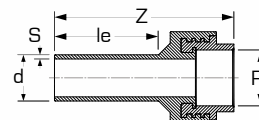
SIZE (DN)	PRESSURE	PIN SIZE
160-20	PN 16	4.0/4.7
160-25	PN 16	4.0/4.7
160-32	PN 16	4.0/4.7
160-40	PN 16	4.0/4.7
160-50	PN 16	4.0/4.7
160-63	PN 16	4.0/4.7
180-20	PN 16	4.0/4.7
180-25	PN 16	4.0/4.7
180-32	PN 16	4.0/4.7
180-40	PN 16	4.0/4.7
180-50	PN 16	4.0/4.7
180-63	PN 16	4.0/4.7
200-20	PN 16	4.0/4.7
200-25	PN 16	4.0/4.7
200-32	PN 16	4.0/4.7
200-40	PN 16	4.0/4.7
200-50	PN 16	4.0/4.7
200-63	PN 16	4.0/4.7
225-20	PN 16	4.0/4.7
225-25	PN 16	4.0/4.7
225-32	PN 16	4.0/4.7
225-40	PN 16	4.0/4.7
225-50	PN 16	4.0/4.7
225-63	PN 16	4.0/4.7

PE Steel Transition Male Adaptor



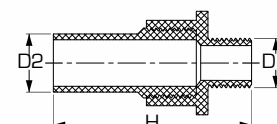
d	R	le	Z
20	1/2"	34	59
25	3/4"	34	61
32	1"	37	68
40	1"	41	72
40	1 1/4"	42	79
50	1 1/2"	49	86
63	1 1/2"	49	86
63	2"	48	90

PE Steel Transition Female Adaptor



d	R	le	Z
20	1/2"	34	65
25	3/4"	33	65
32	1"	38	73
40	1"	44	80
40	1 1/4"	44	83
50	1 1/2"	48	87
63	1 1/2"	62	101
63	2"	62	106

PE Steel Transition Male Adaptor Long



DN
25x3/4"
32x1"
32x3/4"
40x1 1/4"
40x1 1/2"
50x1 1/2"
63x2"

Product Description

PP Compression Fittings merupakan komponen sambungan perpipaan berbahan Polypropylene (PP) yang dirancang untuk sistem pipa Polyethylene (PE) bertekanan. Fitting ini memungkinkan penyambungan pipa secara cepat, kuat, dan kedap air tanpa memerlukan alat khusus atau proses pemanasan. Memiliki struktur penguncian dengan nut kompresi, split ring, dan o-ring, fitting ini memberikan keamanan instalasi sekaligus kemudahan dalam pemasangan maupun pembongkaran.



Spesifikasi Teknik

No.	Part	Material
1	Body	[PPB] Polypropylene [PP-B] of eceptional mechanical properties even at high pressure
2	Nut	[PPB] Polypropylene with dye master of high stability to UV rays and solidity to heat
3	Clinching Ring	[POM] Polyacetal resin [POM] of high mechanical resistance and hardness
4	Blocking Bush	[PPB] Polypropylene
5	O-Ring Gasket	[NBR] Special elastomeric acrylonitrile rubber [NBR] for alimentary use

Keunggulan Produk

- Instalasi cepat dan mudah, tidak memerlukan lem, las, atau mesin fusion.
- Anti bocor & kedap tekanan, dudukan o-ring menghasilkan tekanan merata dan watertight yg optimal.
- Material tangguh, Polypropylene berkualitas tinggi, tahan korosi, kimia dan lingkungan agresif.
- Pipa tidak mudah berputar, rib internal mencegah rotasi saat pengencangan.
- Pipa masuk lebih mudah, split ring opening dioptimalkan untuk efisiensi instalasi.
- Food grade & aman, Cocok untuk air minum/air bersih apabila disertifikasi.

Applikasi Produk

- Instalasi Air Minum (PDAM)
- Irigasi Pertanian
- Sistem air bersih perumahan & industri
- Sistem distribusi taman & lanskap
- Indutri ringan.

MM	PN
20 - 63	16
75 - 110	10

Maximum Allowable Working Pressure Related to the Duration of Pressure & Temperature :

Temperature [°C]	-10 to 25	+25 to +35	+36 to +45
PN	16	12.5	10
PN	10	8	6

**PP Coupler**

DN.20 - DN.110
PN.16/PN.10

**PP Male Threaded Adaptor**

DN.20x₁ - DN.110x₁
PN.16/PN.10

**PP Female Threaded Adaptor**

DN.20x₂ - DN.110x₂
PN.16/PN.10

**PP Male Threaded Adaptor With Brass**

DN.20x₁ - DN.63x₁, PN.16

**PP Female Threaded Adaptor With Brass**

DN.20x₂ - DN.63x₂, PN.16

**PP End Cap**

DN.20 - DN.110
PN.16/PN.10

**PP Reducer Coupler**

DN.20x₁ - DN.110x₁
PN.16/PN.10

**PP Flanged Adaptor**

DN.20 - DN.110
PN.16/PN.10

**PP Elbow 90°**

DN.20 - DN.110
PN.16/PN.10

**PP Female Threaded Elbow With Brass**

DN.20x₂ - DN.63x₂, PN.16

**PP Male Threaded Elbow 90°**

DN.20x₁ - DN.110x₁
PN.16/PN.10

**PP Female Threaded Elbow 90°**

DN.20x₂ - DN.110x₂
PN.16/PN.10

**PP Male Threaded Elbow With Brass**

DN.20x₁ - DN.63x₁, PN.16

**PP Tee**

DN.20 - DN.110
PN.16/PN.10

**PP Reducer Tee**

DN.20x₁ - DN.110x₁
PN.16/PN.10

**PP Female Threaded Tee**

DN.20x₂ - DN.110x₂
PN.16/PN.10

**PP Male Threaded Tee**

DN.20x₁ - DN.110x₁
PN.16/PN.10



PP Ball Valve
DN.20 - DN.110
PN.16/PN.10

18



PP Ball Valve Type II
DN.20 - DN.63
PN.16

19



PP Ball Valve Reducer
DN.20x_ - DN.110x_
PN.16/PN.10

20



PP Ball Valve Male
DN.20 - DN.110
PN.16/PN.10

21



PP Ball Valve Female
DN.20 - DN.110
PN.16/PN.10

22



PP Ball Valve Male/Male
DN.1/2" - DN.4"
PN.16

23



PP Ball Valve Female/Female
DN.1/2" - DN.4"
PN.16

24



PP Ball Valve Male/Female
DN.1/2" - DN.4"
PN.16

25



PP Ball Valve Double Union
DN.20 - DN.63
PN.16

26



PP Ball Valve Female Double Union
DN.20 - DN.63
PN.16

27



PP Ball Valve Male Union
DN.20 - DN.63
PN.16

28



PP Ball Valve Female Union
DN.1/2" - DN.2"
PN.16

29



PP Ball Valve Male/Female Union
DN.20 - DN.63
PN.16

30



PP Ball Valve Female/Female Union
DN.1/2" - DN.2"
PN.16

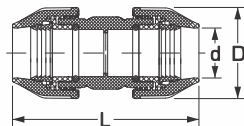
31



PP Ball Valve Male/Male Union
DN.20 - DN.63
PN.16

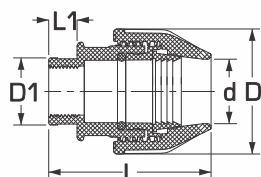
32

Coupler



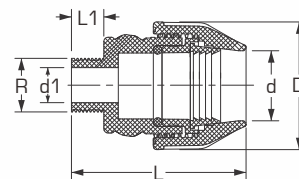
DN	D	d	L
mm	mm	mm	mm
20	44	21	100
25	56	26	130
32	65	33	150
40	80	41	195
50	92	51	218
63	114	64	235
75	128	76	280
90	152	91	315
110	182	111	360

Female Threaded Adaptor



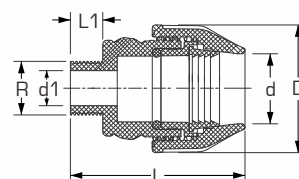
DN	D	D1	d	L	L1
mm	mm	mm	mm	mm	mm
20x1/2"	44	31.6	31.6	75	16
20x3/4"	44	38.6	38.6	78	19
25x1/2"	56	31.6	31.6	92	16
25x3/4"	56	38.6	38.6	95	19
25x1"	56	47.4	47.4	98	22
32x3/4"	65	38.6	38.6	106	19
32x1"	65	47.4	47.4	110	22
40x1"	80	47.4	47.4	132	22
40x1-1/4"	80	62	62	137	24
50x1-1/2"	92	67	67	151	24
63x2"	114	81.2	81.2	165	28
75x2-1/2"	128	105	105	193	33
90x3"	152	126	126	214	35
110x4"	182	157	157	240	40

Male Threaded Adaptor



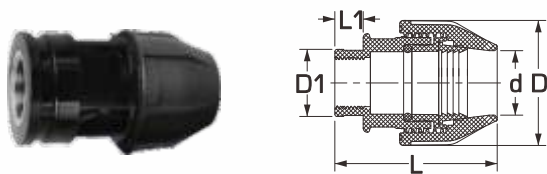
DN	D	d	d1	L	L1
mm	mm	mm	mm	mm	mm
20x1/2"	44	21	14	75	14
20x3/4"	44	21	17.5	75	16
25x1/2"	56	26	14	92	14
25x3/4"	56	26	17.5	92	16
25x1"	56	26	23	92	19
32x3/4"	65	33	17.5	104	16
32x1"	65	33	23	104	19
32x1-1/4"	65	33	31.5	104	21
40x1"	80	41	23	135	21
40x1-1/4"	80	41	31.5	135	21
50x1-1/2"	92	51	32	148	21
50x2"	92	51	42	148	26
63x1-1/2"	114	64	32	158	21
63x2"	114	64	42	158	26
63x2-1/2"	114	64	60	158	30
75x2-1/2"	128	76	60	186	30
90x3"	152	91	67	205	33
110x4"	182	111	92	226	38

Male Threaded Adaptor With Brass



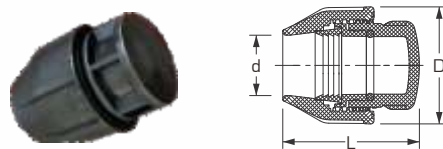
DN	D	d	d1	L	L1
mm	mm	mm	mm	mm	mm
20x1/2"	44	21	14	75	14
25x3/4"	56	26	17.5	92	16
32x3/4"	65	33	17.5	104	16
32x1"	65	33	23	104	19
40x1-1/4"	80	41	31.5	135	21
50x1-1/2"	92	51	32	148	21
63x2"	114	64	42	158	26

Female Threaded Adaptor With Brass



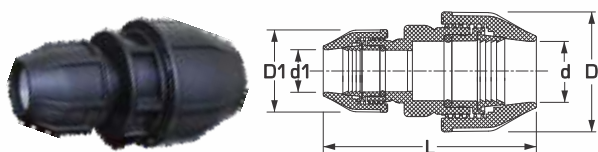
DN	D	d	d1	L	L1
mm	mm	mm	mm	mm	mm
20x1/2"	44	31.6	31.6	75	16
25x3/4"	56	31.6	31.6	92	16
32x1"	65	47.4	47.4	110	22
40x1-1/4"	80	62	62	137	24
50x1-1/2"	92	67	67	151	24
63x2"	114	81.2	81.2	165	28

End Cap



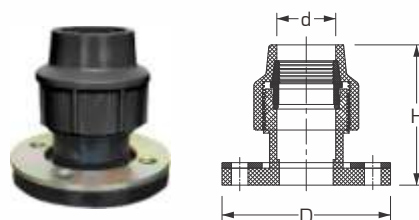
DN	D	d	L
mm	mm	mm	mm
20	44	21	59
25	56	26	76
32	65	33	88
40	80	41	113
50	92	51	127
63	114	64	137
75	128	76	160
90	152	91	185
110	182	111	205

Reducer Coupler



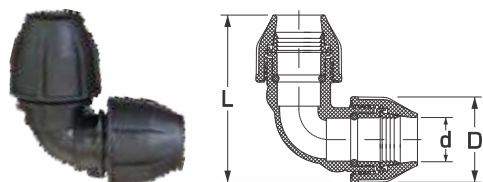
DN	D	D1	d	d1	L
mm	mm	mm	mm	mm	mm
25x20	56	44	26	21	117
32x20	65	44	33	21	129
32x25	65	56	33	26	143
40x20	80	44	41	21	163
40x25	80	56	41	26	168
40x32	80	65	41	33	174
50x25	92	56	51	26	180
50x32	92	62	51	33	188
50x40	92	80	51	41	207
63x40	114	80	64	41	214
63x50	114	92	64	51	227
75x50	128	92	76	51	251
75x63	128	114	76	64	256
90x63	152	114	91	64	275
90x75	152	128	91	76	295
110x63	182	114	111	64	340
110x90	182	152	111	91	350

Flange Adaptor



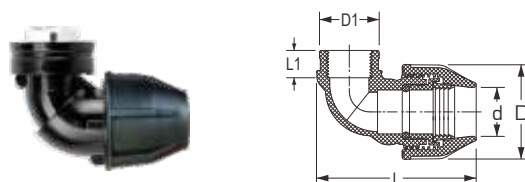
DN	D	d	L
mm	mm	mm	mm
20	44	21	59
25	56	26	76
32	65	33	88
40	80	41	113
50	92	51	127
63	114	64	137
75	128	76	160
90	152	91	185
110	182	111	205

Elbow 90



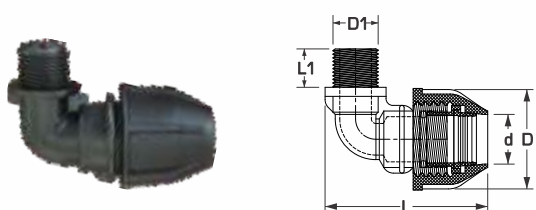
DN	D	d	L
mm	mm	mm	mm
20	44	21	76
25	56	26	96
32	65	33	116
40	80	41	145
50	92	51	165
63	114	64	195
75	128	76	231
90	152	91	267
110	182	111	315

Female Elbow With Brass



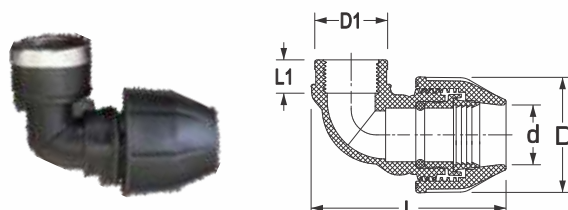
DN	D	D1	d	L	L1
mm	mm	mm	mm	mm	mm
20x1/2"	44	31.6	21	83	14
25x3/4"	56	38.6	26	100	16
32x1"	65	47.4	33	114	19
40x1-1/4"	80	47.4	41	132	21
50x1-1/2"	92	62	51	160	21
63x2"	114	81.2	64	190	26

Male Threaded Elbow 90



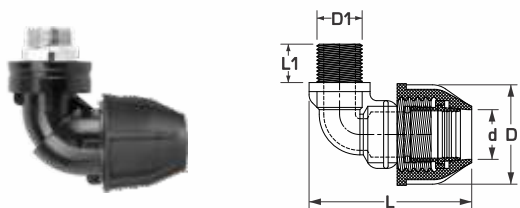
DN	D	D1	L	L1
mm	mm	mm	mm	mm
20x1/2"	44	14	83	14
20x3/4"	44	17.5	85	16
25x1/2"	56	14	98	14
25x3/4"	56	17.5	100	16
32x3/4"	65	17.5	110	16
32x1"	65	23	114	19
40x1"	80	23	132	19
40x1-1/4"	80	31.5	132	21
50x1-1/4"	92	31.5	160	21
50x1-1/2"	92	32	160	21
63x1-1/2"	114	32	185	21
63x2"	114	42	190	26
75x2-1/2"	128	60	230	30
90x3"	152	67	260	33
110x4"	182	92	300	38

Female Threaded Elbow 90



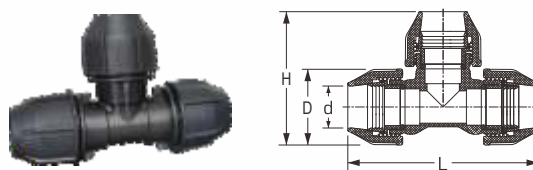
DN	D	D1	d	L	L1
mm	mm	mm	mm	mm	mm
20x1/2"	44	31.6	21	83	14
20x3/4"	44	38.6	21	85	16
25x1/2"	56	31.6	26	98	14
25x3/4"	56	38.6	26	100	16
32x3/4"	65	38.6	33	110	16
32x1"	65	47.4	33	114	19
40x1"	80	38.6	41	132	19
40x1-1/4"	80	47.4	41	132	21
50x1-1/4"	92	47.4	51	160	21
50x1-1/2"	92	62	51	160	21
63x1-1/2"	114	67	64	185	21
63x2"	114	81.2	64	190	26
75x2-1/2"	128	105	76	230	30
90x3"	152	126	91	260	33
110x4"	182	157	111	300	38

Male Threaded Elbow With Brass



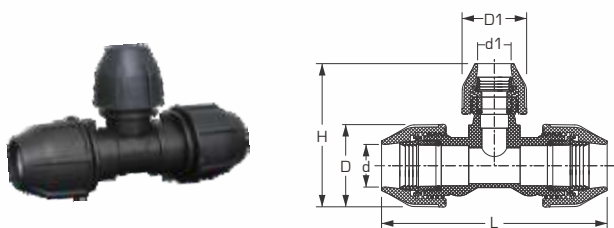
DN	D	D1	L	L1
mm	mm	mm	mm	mm
20x1/2"	44	14	83	14
25x3/4"	56	17.5	100	16
32x1"	65	23	114	19
40x1-1/4"	80	31.5	132	21
50x1-1/2"	114	32	185	21
63x2"	114	42	190	26

Tee



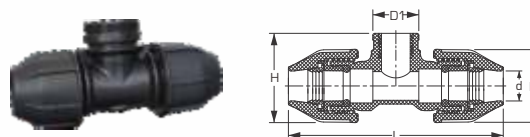
DN	D	d	L
mm	mm	mm	mm
20	44	21	100
25	56	26	130
32	65	33	150
40	80	41	195
50	92	51	218
63	114	64	235
75	128	76	280
90	152	91	315
110	182	111	360

Reducing Tee



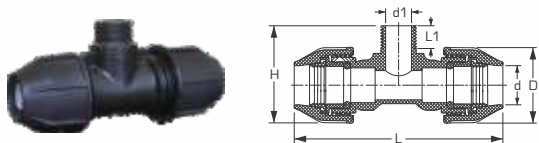
DN	D	D1	d	d1	L1
mm	mm	mm	mm	mm	mm
25x20x25	56	44	26	21	158
32x20x32	65	44	33	21	181
32x25x32	65	56	33	26	189
40x25x40	80	56	41	26	228
40x32x40	80	65	41	33	239
50x25x50	92	56	51	26	254
50x32x50	92	80	51	33	262
50x40x50	92	80	51	41	265
63x50x63	114	92	64	51	303
75x63x75	128	114	76	64	365
90x63x90	152	114	91	64	420
90x75x90	152	128	91	76	420
110x90x110	182	152	111	91	486

Female Threaded Tee



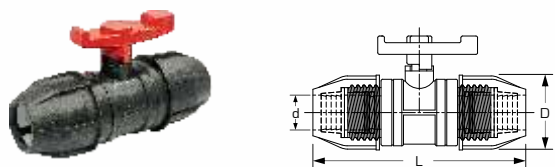
DN	D	d	d1	L	L1
mm	mm	mm	mm	mm	mm
20x1/2"	44	31.6	21	125	16
20x3/4"	44	38.6	21	125	19
25x1/2"	56	31.6	26	158	16
25x3/4"	56	38.6	26	158	19
32x3/4"	65	38.6	33	189	19
32x1"	65	47.4	33	189	22
40x1-1/4"	80	62	41	239	24
50x1-1/2"	92	67	51	262	24
63x1-1/2"	114	67	64	303	24
63x2"	114	81.2	64	303	28
75x2-1/2"	128	105	76	365	33
90x3"	152	126	91	420	35
110x4"	182	157	111	482	40

Male Threaded Tee



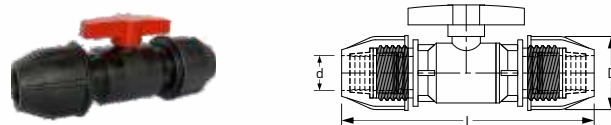
DN	D	d	d1	L	L1
mm	mm	mm	mm	mm	mm
20x1/2"	44	21	14	125	14
20x3/4"	44	21	17.5	125	16
25x1/2"	56	26	14	158	14
25x3/4"	56	26	17.5	158	16
25x1"	56	26	23	158	19
32x3/4"	65	33	17.5	189	16
32x1"	65	33	23	189	19
40x1-1/4"	80	41	31.5	239	21
50x1-1/2"	92	51	32	262	21
63x1-1/2"	114	64	32	303	21
63x2"	114	64	42	303	26
75x2-1/2"	128	76	60	365	30
90x3"	152	91	67	420	33
110x4"	182	111	92	482	38

PP Ball Valve



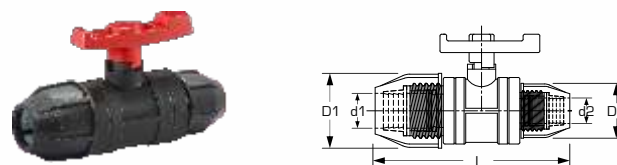
DN	D	d	L
mm	mm	mm	mm
20	44	21	59
25	56	26	76
32	65	33	88
40	80	41	113
50	92	51	127
63	114	64	137
75	128	76	-
90	152	91	-
110	182	111	-

PP Ball Valve Type II



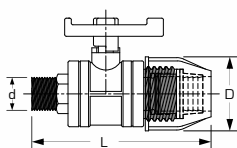
DN	D	d	L
mm	mm	mm	mm
20	44	21	59
25	56	26	76
32	65	33	88
40	80	41	113
50	92	51	127
63	114	64	137

PP Ball Valve Reducing



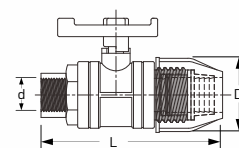
DN	D1	D2	d1	d2	L
mm	mm	mm	mm	mm	mm
25 X 20	57	45	26	21	76
32 X 20	66	45	33	21	88
32 X 25	66	57	33	26	88
40 X 20	81	45	41	21	113
40 X 25	81	57	41	26	113
40 X 32	81	66	41	33	113
50 X 25	93	57	51	26	127
50 X 32	93	66	51	33	127
50 X 40	93	81	51	41	127
63 X 25	115	57	64	26	137
63 X 32	115	66	64	33	137
63 X 40	115	81	64	41	137
63 X 50	115	93	64	51	137
75 X 50	129	93	76	51	-
75 X 63	129	115	76	64	-
90 X 50	153	93	91	51	-
90 X 63	153	115	91	64	-
90 X 75	153	129	91	76	-
110 X 63	183	115	111	64	-
110 X 90	183	153	111	91	-

PP Ball Valve Male



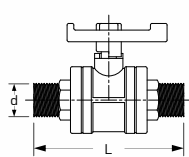
DN	D	d	L
mm	mm	mm	mm
20 X 1/2"	-	-	-
20 X 3/4"	-	-	-
25 X 1/2"	-	-	-
25 X 3/4"	-	-	-
32 X 3/4"	-	-	-
32 X 1"	-	-	-
40 X 1"	-	-	-
40 X 1-1/4"	-	-	-
50 X 1-1/4"	-	-	-
50 X 1-1/2"	-	-	-
63 X 1-1/2"	-	-	-
63 X 2"	-	-	-
75 X 2-1/2"	-	-	-
90 X 3"	-	-	-
110 X 4"	-	-	-

PP Ball Valve Female



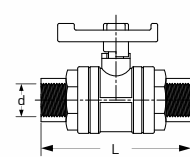
DN	D	d	L
mm	mm	mm	mm
20 X 1/2"	-	-	-
20 X 3/4"	-	-	-
25 X 1/2"	-	-	-
25 X 3/4"	-	-	-
32 X 3/4"	-	-	-
32 X 1"	-	-	-
40 X 1"	-	-	-
40 X 1-1/4"	-	-	-
50 X 1-1/4"	-	-	-
50 X 1-1/2"	-	-	-
63 X 1-1/2"	-	-	-
63 X 2"	-	-	-
75 X 2-1/2"	-	-	-
90 X 3"	-	-	-
110 X 4"	-	-	-

PP Ball Valve Male/Male



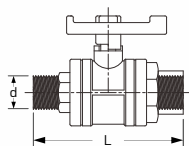
DN	d	L
inch	mm	mm
1/2"	-	-
3/4"	-	-
1"	-	-
1-1/4"	-	-
1-1/2"	-	-
2"	-	-
2-1/2"	-	-
3"	-	-
4"	-	-

PP Ball Valve Female/Female



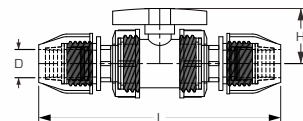
DN	d	L
inch	mm	mm
1/2"	-	-
3/4"	-	-
1"	-	-
1-1/4"	-	-
1-1/2"	-	-
2"	-	-
2-1/2"	-	-
3"	-	-
4"	-	-

PP Ball Valve Male/Female



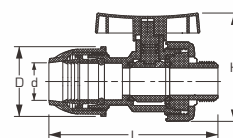
DN	d	L
inch	mm	mm
1/2"	-	-
3/4"	-	-
1"	-	-
1-1/4"	-	-
1-1/2"	-	-
2"	-	-
2-1/2"	-	-
3"	-	-
4"	-	-

Ball Valve Double Union



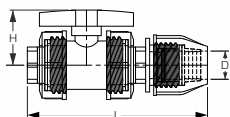
DN	D	d	L
mm	mm	mm	mm
20	-	-	-
25	-	-	-
32	-	-	-
40	-	-	-
50	-	-	-
63	-	-	-

Ball Valve Male Union



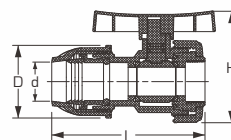
DN	D	d	L	H
mm	mm	mm	mm	mm
20	44	21	150	65
25	56	26	165	70
32	65	33	195	90
40	80	41	230	100
50	92	51	260	125
63	114	64	305	150

Ball Valve Female Double Union



DN	D	d	L
mm	mm	mm	mm
20	-	-	-
25	-	-	-
32	-	-	-
40	-	-	-
50	-	-	-
63	-	-	-

Ball Valve Female Union



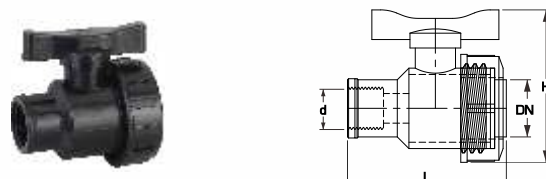
DN	D	d	L	H
mm	mm	mm	mm	mm
1/2"	44	21	150	65
3/4"	56	26	165	70
1"	65	33	195	90
1-1/4"	80	41	230	100
1-1/2"	92	51	260	125
2"	114	64	305	150

Ball Valve Male/Female Union



DN	D	d	L	H
mm	mm	mm	mm	mm
20	-	-	-	-
25	-	-	-	-
32	-	-	-	-
40	-	-	-	-
50	-	-	-	-
63	-	-	-	-

Ball Valve Female/Female Union



DN	D	d	L	H
mm	mm	mm	mm	mm
1/2"	-	-	-	-
3/4"	-	-	-	-
1"	-	-	-	-
1-1/4"	-	-	-	-
1-1/4"	-	-	-	-
2"	-	-	-	-

Ball Valve Male/Male Union



DN	D	d	L	H
mm	mm	mm	mm	mm
20	-	-	-	-
25	-	-	-	-
32	-	-	-	-
40	-	-	-	-
50	-	-	-	-
63	-	-	-	-

Product Description

PP Clamp Saddle merupakan komponen sambungan perpipaan berbahan Polypropylene (PP) yang berfungsi untuk membuat cabang (tapping/branch) pada pipa utama (header pipe) tanpa perlu memotong atau melepas pipa utama. Clamp Saddle dipasang dengan cara diklem mengelilingi pipa menggunakan baut, kemudian bagian outlet nya digunakan untuk menghubungkan fitting atau valve sesuai ukuran cabang yang dibutuhkan.

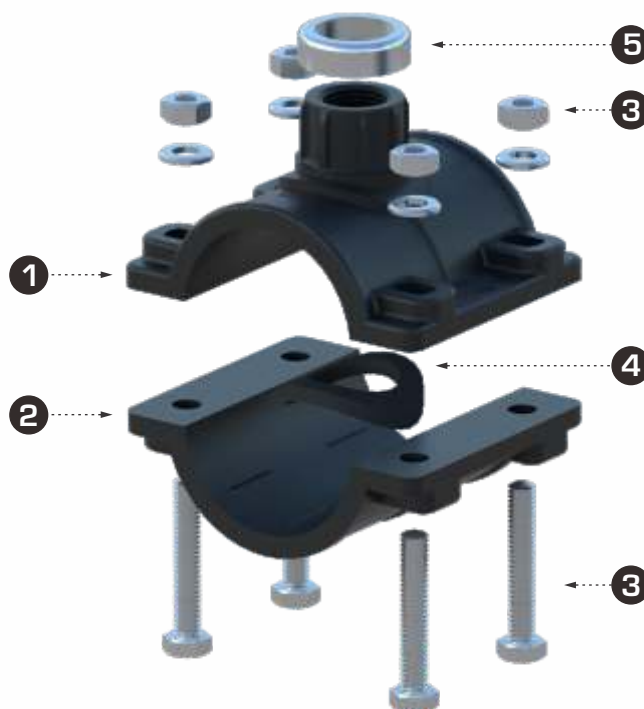
No.	Parts	Material
1	Upper Body	PP
2	Lower Body	PP
3	Bolts and Nuts	Zinc Plated Steel
4	O-Ring	NBR
5	Reinforce Ring	Stainless Steel

Untuk pipa yang sesuai dengan standar:

PE SNI 4829 / EN 12201 / ISO 3607 /
ISO14236 / DIN 8072 / DIN 8074 / UNI10910

PP ISO 3609 / DIN 8077 / UNI 831

PVC SNI 06-0084-2002 / EN 1452-2



Keunggulan Produk

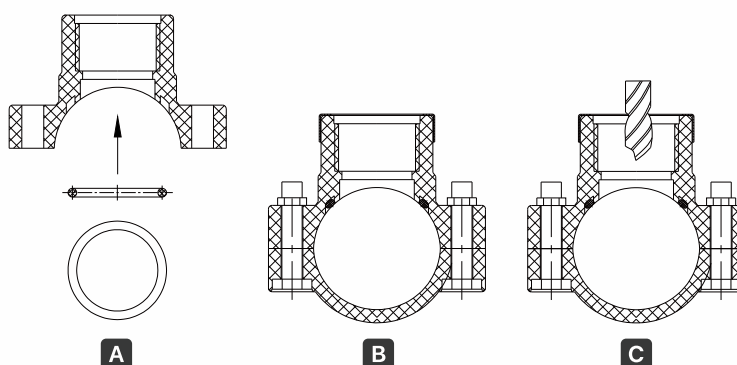
- Instalasi cepat dan mudah
- Tidak perlu memotong pipa utama
- Kedap air berkat o-ring pada outlet
- Aman untuk pipa bertekanan (tergantung spec. PN)
- Material tahan korosi dan bahan kimia
- Cocok untuk pipa PE, PP & PVC (tergantung model)

Applikasi Produk

- Air Minum (PDAM)
- Irrigasi Pertanian
- Sistem air bersih perumahan & industri
- Sistem distribusi taman & lanskap

Perakitan

- A** Bersihkan: Bersihkan permukaan luar pipa. Pastikan O-Ring sudah pada posisinya.
- B** Pasangkan: Pasangkan bagian atas saddle dengan bagian bawah pada pipa. Masukkan baut, kencangkan mur secara diagonal berlawanan.
- C** Bor: Bor lubang pada dinding pipa. Jangan merusak O-Ring atau pipa di dekat area seal. Gunakan alat yang tepat.





PP Clamp Saddle
DN.20x_ - DN.200x_
PN.16/PN.10



PP Repair Saddle
DN.20 - DN.180
PN.16/PN.10



PP Coupling Saddle
DN.20x_ - DN.110x_
PN.16/PN.10



PP Emergency Repair Clamp
DN.20 - DN.110
PN.16/PN.10



**PP Tapping Tee Mono Block
Compression** DN.63x20 - DN.63x32
PN.16/PN.10



**PP Tapping Tee Mono Block
Push** DN.50x_ - DN.200x_
PN.16/PN.10



PP Compression Ferrule Cutter
DN.20x_ - DN.32x_
PN.16

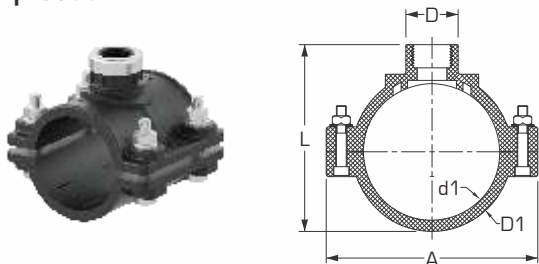


PP Push Ferrule Cutter
DN.20x_ - DN.25x_
PN.16



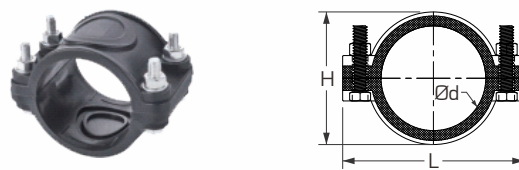
Tapping Tee Mechanical Butt
DN.50x_ - DN.110x_
PN.16

Clamp Saddle



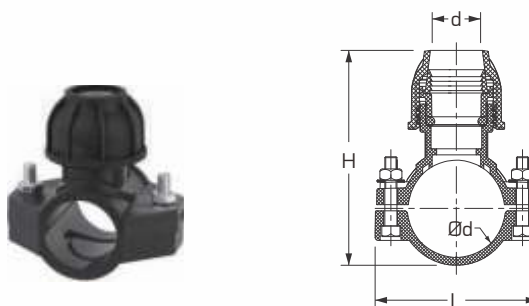
DN	A	D	D1	d1	L	L1
mm	mm	mm	mm	mm	mm	mm
20x1/2"	76	30.6	34	25	49	26
25x3/4"	76	37.3	34	25	51	26
32x1/2"	78	30.6	41	32	62	27
32x3/4"	78	37.3	41	32	62	27
32x1"	78	45.1	41	32	62	27
40x1/2"	85	30.6	50	40	71	32
40x3/4"	85	37.3	50	40	71	32
50x1/2"	85.5	30.6	60	50	79	34
50x3/4"	85.5	37.3	60	50	79	34
50x1"	85.5	45.1	60	50	79	34
50x1-1/4"	-	-	-	-	-	-
63x1/2"	100	30.6	74.2	63	98	36
63x3/4"	100	37.3	74.2	63	98	36
63x1"	100	45.1	74.2	63	98	36
63x1-1/4"	-	-	-	-	-	-
75x1/2"	117.6	30.6	89	75	109	45
75x3/4"	117.6	37.3	89	75	109	45
75x1"	117.6	45.1	89	75	109	45
75x1-1/4"	-	-	-	-	-	-
90x1/2"	138	30.6	105	90	125	46
90x3/4"	138	37.3	105	90	125	46
90x1"	138	45.1	105	90	125	46
90x1-1/4"	138	54	105	90	125	46
90x1-1/2"	138	61.1	105	90	125	46
90x2"	138	71.9	105	90	125	46
110x1/2"	158	30.6	126.4	110	147	47.2
110x3/4"	158	37.3	126.4	110	147	47.2
110x1"	158	45.1	126.4	110	147	47.2
110x1-1/4"	158	54	126.4	110	147	47.2
110x1-1/2"	158	61.1	126.4	110	147	47.2
110x2"	158	71.9	126.4	110	147	47.2
160x1/2"	211	30.6	181	160	207	51
160x3/4"	211	37.3	181	160	207	51
160x1"	211	45.1	181	160	207	51
160x1-1/4"	211	54	181	160	207	51
160x1-1/2"	211	61.1	181	160	207	51
160x2"	211	71.9	181	160	207	51
200x1/2"	222.6	30.6	222.6	200	254	57.6
200x3/4"	222.6	37.3	222.6	200	254	57.6
200x1"	222.6	45.1	222.6	200	254	57.6
200x1-1/4"	222.6	54	222.6	200	254	57.6

Repair Saddle



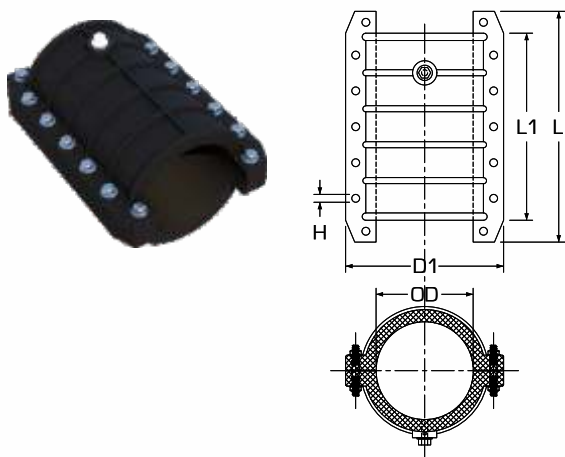
DN	D	L	H
mm	mm	mm	mm
20	-	-	-
25	-	-	-
32	-	-	-
40	-	-	-
50	-	-	-
63	-	-	-
75	-	-	-
90	-	-	-
110	-	-	-
160	-	-	-
180	-	-	-

Coupling Saddle



DN	D	L	H
mm	mm	mm	mm
32x20	21	-	-
32x25	26	-	-
40x20	21	-	-
40x25	26	-	-
50x20	21	-	-
50x25	26	-	-
63x20	21	-	-
63x25	26	-	-
75x20	21	-	-
75x25	26	-	-
90x20	21	-	-
90x25	26	-	-
110x20	21	-	-
110x25	26	-	-

Emergency Repair Clamp

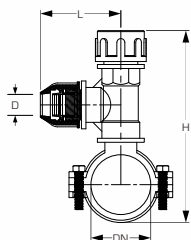


DN		PRESSURE NOMINAL (PN)			
inch	mm	20	16	12.5	10
3	90	•	•	•	•
4	110	•	•	•	•
5	125	•	•	•	•
5-1/2	140	•	•	•	•
6	160	•	•	•	•
7	180	•	•	•	•
8	200	•	•	•	•
9	225	•	•	•	•
10	250	•	•	•	•
11	290	•	•	•	•
12	315	•	•	•	•
14	355	•	•	•	•
16	400	•	•	•	•
18	450	•	•	•	•
20	500	•	•	•	•
22	560	•	•	•	•
24	630	•	•	•	•
28	710	•	•	•	•
32	800	•	•	•	•
36	900	•	•	•	•
40	1000	•	•	•	•
48	1200	•	•	•	•

PP Tapping Tee Mechanical

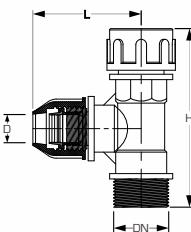
PP Tapping Tee Mechanical merupakan komponen sambungan perpipaan berbahan Polypropylene (PP) yang berfungsi untuk membuat cabang (tapping/branch) pada pipa utama (header pipe) tanpa perlu memotong atau melepas pipa utama. Tapping Tee dirancang khusus untuk proses hot tapping, yaitu membuat lubang pada pipa utama untuk mengambil atau mendistribusikan aliran ke pipa cabang, tanpa harus mematikan aliran.

Tapping Tee Compression



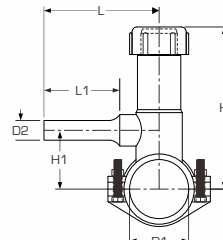
DN	L	D	R
63x20	-	-	-
63x25	-	-	-
63x32	-	-	-

Ferrule Cutter Compression



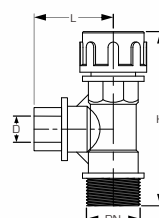
DN	D	d	L
20x1"	-	-	-
20x1-1/4"	21	-	-
25x1"	-	-	-
25x1-1/4"	26	-	-
32x1"	-	-	-
32x1-1/4"	33	-	-

Tapping Tee Mechanical Butt



DN	H	H1	L	L1
50x20	171	54	116	70
50x25	171	54	116	70
50x32	171	54	116	70
63x20	171	54	116	70
63x25	171	54	116	70
63x32	171	54	116	70
90x20	175	60	116	70
90x25	175	60	116	70
90x32	175	60	116	70
110x20	175	64	116	70
110x25	175	64	116	70
110x32	175	64	116	70

Ferrule Cutter Push



DN	L	D	R
20x1 1/4"	125	21	1 1/4
25x1 1/4"	125	26	1 1/4

Product Description

PP Push Fitting adalah jenis fitting perpipaan berbahan Polypropylene (PP) yang memungkinkan sambungan pipa dilakukan secara instan tanpa alat [tool-less]. Sistem sambungannya menggunakan mekanisme “push-in”, dimana pipa cukup didorong (push) kedalam fitting hingga terjadi penguncian dan penyegelan otomatis. Teknologi ini disebut juga quick connection atau push-to-connect.



Keterangan Produk

Nama Produk	PP PUSH FITTING
Raw Material	PP (Polypropylene)
O-Ring	EPDM / NBR (Optional Viton)
Ukuran	20 - 32mm

Cara Kerja Sistem Push

Cara kerja sambungan push-to-connect adalah:

1. Ujung pipa dirapikan (dibersihkan & dipotong lurus)
2. Pipa didorong masuk ke fitting hingga melewati bagian grip ring
3. O-ring memberikan seal rapat
4. Collet/teeth menjepit pipa dari arah balik

Hasilnya sambungan hermetic seal tanpa perlu:

- Heat fusion
- Solvent cement
- Threading
- Tools khusus

Keunggulan Produk

(A) Instalasi Sangat Cepat

- Tidak menggunakan lem, welding, atau elektro-fusion
- Hemat waktu pemasangan hingga 50–70%

(B) Leak-Proof & Secure Seal

- O-ring memberikan sealing yang konsisten
- Aman untuk tekanan kerja dari PN6 – PN16 (tergantung spesifikasi)

(C) Tanpa Alat Khusus

- Cukup cut + deburr + push
- Ideal untuk area terbatas atau kondisi lapangan

(D) Anti Korosi & Chemical Resistant

- Tidak berkarat
- Tahan zat kimia, deterjen, asam lemah, alkali ringan

(E) Food Grade & Higienis

- Cocok untuk air minum atau food processing

(F) Perawatan Rendah

- Tidak perlu re-tightening

(G) Berat Ringan

- Mudah handling & transportasi

Standar & Sertifikasi

- ISO 22391 (PP piping systems)
- ISO 15874 (PP piping for hot/cold)
- NSF/ANSI 61 (Drinking water)
- WRAS

Material & Teknologi

PP Push Fitting terbuat dari material Polypropylene (PP) yang memiliki sifat:

- Strong fatigue resistance
- Chemical resistant
- Non-toxic & food grade
- Corrosion free
- Lightweight

Pada bagian internal fitting biasanya terdapat:

- Grip ring / collet - mengunci pipa
- O-ring elastomer - memberikan seal/water-tight
- Body PP - pelindung & struktur mekanik
- Support sleeve (opsional) - menambah rigiditas pipa

Aplikasi Produk

A. Plumbing & Water Supply

- Sistem air bersih
- Jaringan sanitari internal bangunan
- Sistem air minum (domestik/komersial)

B. Irrigasi & Pertanian

- Micro irrigation
- Drip irrigation
- Sprinkler system

C. Food & Beverage

- Pabrik makanan & minuman
- Water filtration line

D. Industri

- Jalur chemical ringan
- Pneumatic low pressure
- Cooling water system

E. Perikanan & Aquaculture

- Instalasi hatchery
- Saluran filtrasi kolam dan tambak

PP Push Fitting umumnya mendukung pipa PE / PP



PP Coupler
DN.20 - DN.32
PN.16



PP Reducer
DN.20 - DN.32
PN.16



PP Male Adaptor
DN.20x_ - DN.32x_
PN.16



PP Female Adaptor
DN.20x_ - DN.32x_
PN.16



PP Male Elbow
DN.20x_ - DN.32x_
PN.16



PP Female Elbow
DN.20x_ - DN.32x_
PN.16



PP Elbow
DN.20 - DN.32
PN.16



PP Reducing Elbow
DN.20x_ - DN.32x_
PN.16



PP Tee
DN.20 - DN.32
PN.16



PP Reducing Tee
DN.20x_ - DN.32x_
PN.16



PP Male Tee
DN.20x_ - DN.32x_
PN.16



PP Female Tee
DN.20x_ - DN.32x_
PN.16



PP Plug
DN.20 - DN.32
PN.16

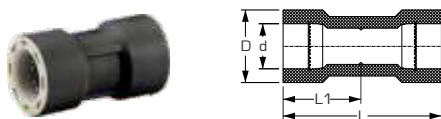


PP Ball Valve
DN.20 - DN.32
PN.16



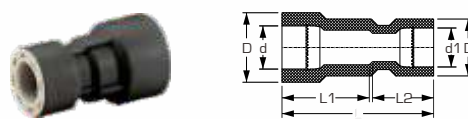
PP Key
DN.20 - DN.32
PN.16

Coupler



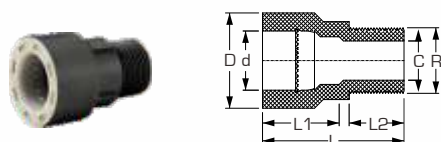
DN	L	L1	D	d
20	58	28	33	20,5
25	70	34	39,5	25,5
32	88	43	48	32,8

Reducer



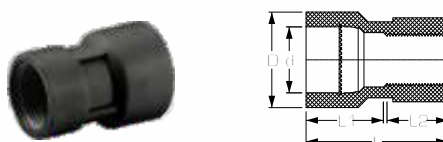
DN	L	L1	d	D
20	100	28	33	20,5
25	118	34	39,5	25,5
32	146	43	48	32,8

Male Adaptor



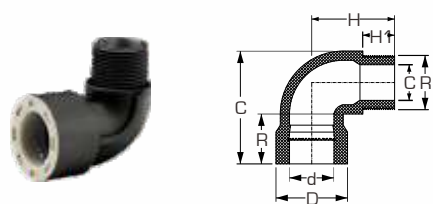
DN	L	L1	L2	D	d	C
20x1/2"	49	28	17	33	20,5	13,6
25x1/2"	61	34	17	39,5	25,5	13,6
25x3/4"	57	34	19	39,5	25,5	17,7
32x1/2"	65	43	17	32,8	32,8	13,6
32x3/4"	66	43	19	32,8	32,8	17,7
32x1"	68	43	21	32,8	32,8	24,7

Female Adaptor



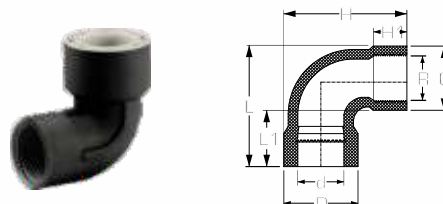
DN	L	L1	L2	D	d	C
20x1/2"	47	28	17	33	20,5	28
25x1/2"	54	34	17	39,5	25,5	28
25x3/4"	55	34	19	39,5	25,5	34,5
32x1/2"	64	43	17	48	32,8	28
32x3/4"	70	43	19	48	32,8	34,5
32x1"	66	43	21	48	32,8	43

Male Elbow



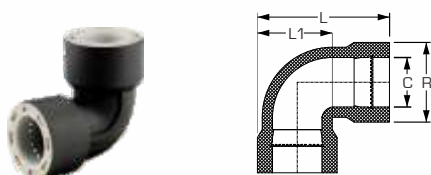
DN	D	d	C	R	H	H1
20x1/2"	33	20,5	13,6	1/2	51	17
25x1/2"	39,5	25,5	13,6	1/2	65	17
25x3/4"	39,5	25,5	17,7	3/4	60	19
32x1/2"	48	32,8	13,6	1/2	76	17
32x3/4"	48	32,8	17,7	3/4	75	19
32x1"	48	32,8	24,7	1	71	21

Female Elbow



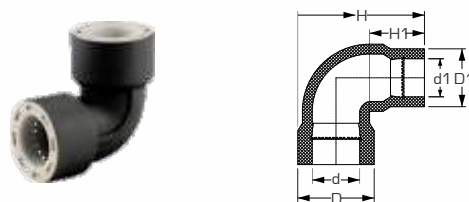
DN	D	d	C	R	H	H1
20x1/2"	33	20,5	28	1/2	52	17
25x1/2"	39,5	25,5	28	1/2	60	17
32x3/4"	39,5	25,5	34,5	3/4	62	19
32x1/2"	48	32,8	28	1/2	68	17
32x3/4"	48	32,8	34,5	3/4	74	19
32x1"	48	32,8	43	1	76	21

Elbow



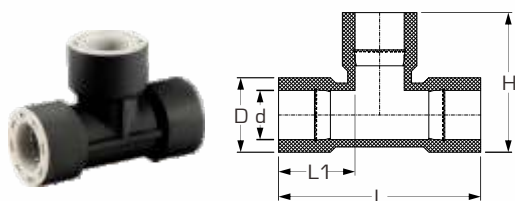
DN	L	L1	D	d
20	54	28	33	20,5
25	66	34	39,5	25,5
32	84	43	48	32,8

Reducing Elbow



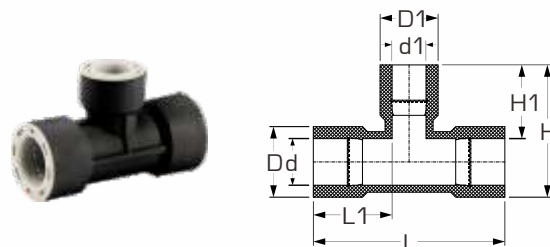
DN	H	H1	D	d	D1	d1
25x20	68	28	39,5	25,5	33	20,5
32x20	79	28	48	32,8	33	20,5
32x25	82	34	48	32,8	39,5	25,5

Tee



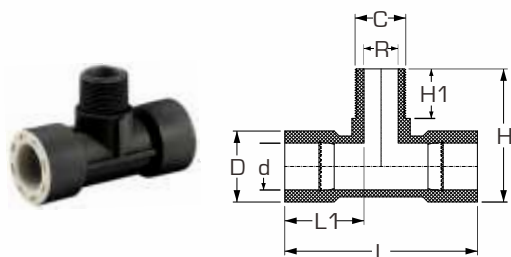
DN	L	L1	D	d	H
20	76	28	33	20,5	55
25	94	34	39,5	25,5	67
32	119	43	48	32,8	85

Reducing Tee



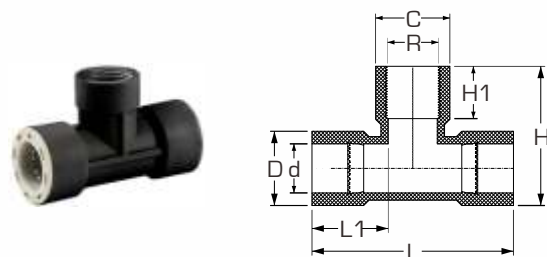
DN	H	H1	D	d	D1	d1
25x20	62	28	39,5	25,5	33	20,5
32x20	70	28	48	32,8	33	20,5
32x25	75	34	48	32,8	39,5	25,5

Male Tee



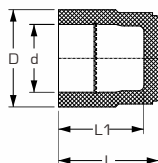
DN	H	H1	D	d	C	R
20x1/2	52	17	33	20,5	13,6	1/2
25x1/2	60	17	39,5	25,5	13,6	1/2
25x3/4	63	19	39,5	25,5	17,7	3/4
32x1/2	66	17	48	32,8	13,6	1/2
32x3/4	68	19	48	32,8	17,7	3/4
32x1	74	21	48	32,8	24,7	1

Female Tee



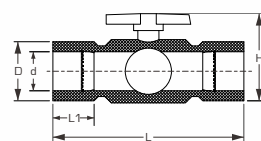
DN	H	H1	D	d	C	R
20x1/2"	50	17	33	20,5	28	1/2
32x1/2"	59	17	39,5	25,5	28	1/2
32x3/4"	61	19	39,5	25,5	34,5	3/4
32x1/2"	70	17	48	32,8	28	1/2
32x3/4"	72	19	48	32,8	34,5	3/4
32x1	74	21	48	32,8	43	1

Plug



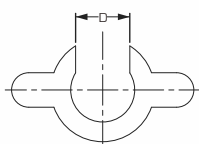
DN	L	L1	D	d
20	34	28	33	20,5
25	39	34	39,5	25,5
32	48,5	43	48	32,8

Ball Valve

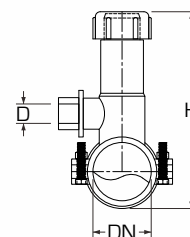


DN	L	L1	d	D	H
20	100	28	33	20,5	60
25	118	34	39,5	25,5	65
32	146	43	48	32,8	83

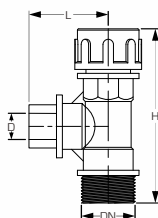
Key



DN	L	L1	d	D	H
20	100	28	33	20,5	60
25	118	34	39,5	25,5	65
32	146	43	48	32,8	83

Tapping Tee
PP Push Fit

DN	d1	d2
50x20	50	20
50x25	50	25
63x20	63	20
63x25	63	25
75x20	75	20
75x25	75	25
90x20	90	20
90x25	90	25
110x20	110	20
110x25	110	25
160x20	160	20
160x25	160	25
200x20	200	20
200x25	200	25

Ferrule Cutter
PP Push

DN	L	D	R
20x1"	125	21	1
25x1"	125	26	1
20x1¼"	125	21	1¼
25x1¼"	125	26	1¼

Product Description

Pipa PVC-U ISO/SNI Water Pipe adalah sistem perpipaan thermoplastic berkinerja tinggi yang dirancang khusus untuk distribusi air bersih dan air minum bertekanan. Dibuat sesuai standar nasional dan internasional, pipa ini menawarkan ketahanan korosi yang unggul, permukaan dalam yang mulus, serta tingkat higienitas tinggi untuk kebutuhan jaringan air bersih perkotaan, industri, dan perumahan.



Technical Specifications

Material	PVC-U
Diameter	20 - 630 mm (1/2" - 24")
Pressure Nominal	PN 8, 10, 2.5, 6 Bar
Length Pipe	6 Meter
Color	White / Grey
Specific Gravity	1,40 g/cm ³

Standards & Certifications



SNI 06-0084-2002

ISO 4422-1996
ISO 4422-1990

Quality & Testing

- Hydrostatic pressure test
- Resistance to internal pressure test
- Opacity & Impact resistance test
- Dimensional inspection & Visual quality test
- Longitudinal reversion test

Related Products

- PVC-U Injection Moulding Fittings (SC & RR Joint)
- PVC-U Fabricated Fittings (Flange, Bends, Tees)
- PVC Solvent Cement / Lem Ruglue
- Rubber Ring (SBR) & Pipe Lubricant

Summary

Pipa PVC-U ISO/SNI Water Pipe merupakan solusi ideal untuk jaringan distribusi air bersih yang aman, higienis, dan tahan lama. Dengan kombinasi varian tekanan yang presisi serta sistem sambungan yang andal, pipa ini memastikan aliran air bersih bertekanan tanpa risiko kebocoran maupun kontaminasi.

Product Concept

Solusi perpipaan air bersih modern dan higienis berstandar SNI/ISO yang mengutamakan ketahanan tekanan, keamanan air minum, bebas korosi, efisiensi instalasi, serta umur pemakaian jangka panjang.

Function (Fungsi)

Menyalurkan air bersih dan air minum bertekanan secara aman, efisien, dan higienis tanpa mengubah rasa, warna, atau kualitas kimia air.

System Role (Peran dalam Sistem)

Berperan utama dalam jaringan distribusi utama PDAM, sistem pemipaan air bersih gedung bertingkat, jaringan transmisi air minum perkotaan, serta jaringan irigasi bertekanan.

Advantages

- Bebas timbal dan tidak mencemari kualitas air (non-toxic).
- Tersedia dalam varian PN 8 hingga PN 16 Bar.
- Dinding dalam sangat halus meminimalkan kehilangan tekanan (low friction).
- Ringan dan efisien dalam pengangkutan maupun penanganan instalasi.
- Bebas perawatan dengan usia penggunaan lebih dari 50 tahun.

Applications

- Jaringan distribusi air bersih PDAM / Pemerintah
- Plumbing & utilitas air bersih gedung bertingkat / Real Estate
- Jaringan pipa transmisi air minum pedesaan & perkotaan
- Sistem perpipaan air bersih industri & perkebunan/pertanian
- Pipeline transmisi utama bertekanan (Main Line)

Jointing System

- Solvent Cement Joint (SCJ): Sambungan sistem senyawa penyemprotan/lem PVC untuk diameter kecil hingga sedang.
- Rubber Ring Joint (RRJ / Z-Joint): Sambungan ring karet praktis dan fleksibel tanpa lem untuk diameter sedang hingga besar.

Installation Method

- Open trench installation
- Concealed & exposed plumbing installation
- Shaft & ceiling building utility installation

Thickness Pipa PVC-U ISO/SNI Water RRJ

Nominal Diameter		OD	S 6.3	S 8	S 10	S 12,5	S 16	Panjang Mof	Panjang Pipa
mm	Inch	mm							
50	2"	63	4.7	3.8	3.0	2.4	2.0	115	6
65	2 1/2"	75	5.5	4.5	3.6	2.9	2.3	115	6
75	3"	90	6.6	5.4	4.3	3.5	2.8	125	6
100	4"	110	8.2	6.6	5.3	4.2	3.4	130	6
125	5"	140	10.3	8.3	6.7	5.4	4.3	145	6
150	6"	160	11.8	9.5	7.7	6.2	4.9	160	6
200	8"	200	14.7	11.9	9.6	7.7	6.2	175	6
200	8"	225	16.6	13.4	10.8	8.6	6.9	180	6
250	10"	250	18.4	14.8	11.9	9.9	7.7	195	6
250	10"	280	20.6	16.6	13.4	10.7	8.6	200	6
300	12"	315	23.2	18.7	15.0	12.1	9.7	215	6
350	14"	355	26.1	21.1	16.9	13.6	10.9	260	6
400	16"	400	29.4	23.7	19.1	15.3	12.3	290	6
450	18"	450	-	26.7	21.5	17.2	13.8	320	6
500	20"	500	-	29.6	23.9	19.1	15.3	340	6
600	24"	630	-	-	30.0	24.1	19.3	415	6

Thickness Pipa PVC-U ISO/SNI Water SCJ

Nominal Diameter		OD	S 6.3	S 8	S 10	S 12,5	S 16	Panjang Mof	Panjang Pipa
mm	Inch	mm							
15	1/2"	20	1.5	-	-	-	-	37	6
20	3/4"	25	1.9	1.5	-	-	-	40	6
25	1	32	2.4	1.9	1.6	-	-	44	6
30	1 1/4"	40	3.0	2.4	1.9	1.6	1.5	49	6
40	1 1/2"	50	3.7	3.0	2.4	2.0	1.6	55	6
50	2	63	4.7	3.8	3.0	2.4	2.0	63	6
65	2 1/2"	75	5.5	4.5	3.6	2.9	2.3	70	6
75	3"	90	6.6	5.4	4.3	3.5	2.8	79	6
100	4"	110	8.2	6.6	5.3	4.2	3.4	91	6
125	5"	140	10.3	8.3	6.7	5.4	4.3	109	6
150	6"	160	11.8	9.5	7.7	6.2	4.9	121	6
200	8"	200	14.7	11.9	9.6	7.7	6.2	145	6
200	8"	225	16.6	13.4	10.8	8.6	6.9	160	6
250	10"	250	18.4	14.8	11.9	9.9	7.7	175	6
250	10"	280	20.6	16.6	13.4	10.7	8.6	196	6
300	12"	315	23.2	18.7	15.0	12.1	9.7	214	6
350	14"	355	26.1	21.1	16.9	13.6	10.9	238	6
400	16"	400	29.4	23.7	19.1	15.3	12.3	265	6



Elbow 45°
DN.20 - 400

01



Elbow 90°
DN.40 - 400

02



Reducer Elbow 90°
DN.40 - 400

03



End Cap
DN.20 - 400

04



Male Adaptor (NPT/BSPT)
DN.20 - 160

05



Female Adaptor (NPT/BSPT)
DN.20 - 110

06



Coupler
DN.40 - 400

07



Reducer Coupler
DN.25x20 - 400x355

08



Reducer Ring
DN.25x20 - 400x315

09



Reducer Tee
DN.25x20 - 400x315

10



Straight Tee
DN.40 - 400

11



Thread Plug
DN.20 - 32

12



Copper Thread Coupling
DN.20x1/2" - 32x1"

13



Copper Thread Tee
DN.25x20 - 40x32

14



Copper Thread Elbow 90°
DN.25x1/2" - 32x1"

15

**Cross**

DN.20 - 160

**Female Reducer Tee**

DN.63x3/4"

**Skew Tee**

DN.110

**Pipe Clamp**

DN.20 - 63

**UPVC Female Union**

DN.25x3/4", 32x1"

**UPVC Male Union**

DN.25x3/4", 32x1"

**PVC PN10 Union DIN**

DN.20 - 63

**PVC PN10 Union BSPT**

DN.1/2" - 2"

**Pipe Bracket**

DN.20 - 63

**Hose Connector**

DN.20 - 50

**Male Hose Connector**

DN.20x22x1/2" - 60x64x2

**Flange Coupler M/F**

DN.25c20c3/4" - 63x75x2 1/2"

**Pressure Tap Connector**

DN.25x3/4"

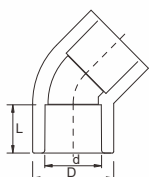
**UPVC Saddle Clamp**

DN.50x25 - 400x250

**Gibolt**

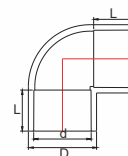
DN.40 - 250

Elbow 45°



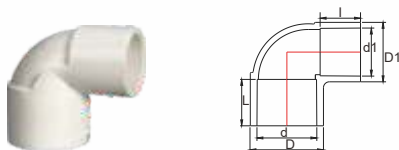
DN	D	d	L
mm	mm	mm	mm
20	25	20	17
25	30.8	25	19.5
32	38.3	32	23
40	47.9	40	28.5
50	58.3	50	33.5
63	72.9	63	40
75	87.6	75	44
90	105.4	90	51
110	126.4	110	61
125	142.4	125	69
140	159	140	76.5
160	180.6	160	86.5
180	196.6	180	96
200	225.6	200	106
225	245	225	119
250	274.6	250	131
280	306	280	147
315	343	315	164
355	385	355	184
400	431	400	206

Elbow 90°



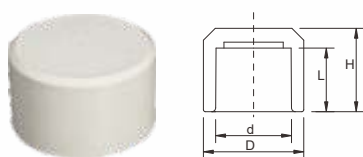
DN	D	d	L
mm	mm	mm	mm
20	25	20	17
25	30.8	25	19.5
32	38.3	32	23
40	47.9	40	28.5
50	58.3	50	33.5
63	72.9	63	40
75	87.6	75	44
90	105.4	90	51
110	126.4	110	61
125	142.4	125	69
140	159	140	76.5
160	180.6	160	86.5
180	196.6	180	96
200	225.6	200	106
225	245	225	119
250	274.6	250	131
280	306	280	147
315	343	315	164
355	385	355	184
400	431	400	206

Reducer Elbow



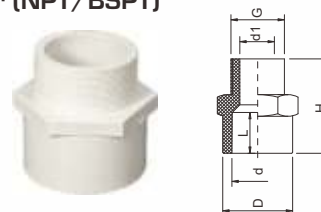
DN	D	d	L	D1	d1	I
mm	mm	mm	mm	mm	mm	mm
25x20	30.9	25	20	25	20	20

End Cap



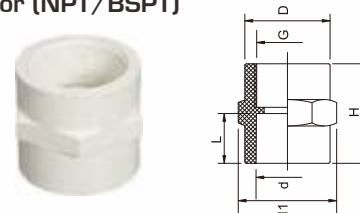
DN	D	d	L	H
mm	mm	mm	mm	mm
20	26.2	20	19	24
25	31.2	25	21.5	27
32	38.5	32	29.5	31
40	47.4	40	28.2	35
50	58.5	50	33	40
63	72.4	63	40	47
75	88.2	75	46	53.6
90	105.4	90	51	63.3
110	126.3	110	59.5	74.1
125	142.4	125	69	83.2
140	159	140	76.5	92.6
160	180.6	160	86.5	104.6
180	196.6	180	96	134.5
200	225.6	200	107	129.3
225	245	225	119	162.5
250	274.6	250	131	183
315	343	315	164	228
355	385	355	184	268
400	431	400	206	297

Male Adaptor (NPT/BSPT)



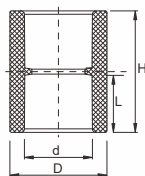
DN	D	d	G	H	d1
mm	mm	mm	mm	mm	mm
20	27.4	20	1/2"	37	14
25	33.2	25	3/4"	43	18.5
32	40.6	32	1"	50.7	25
40	49.3	40	1 1/4"	58	32
50	60.3	50	1 1/2"	61	36
63	85.8	63	2"	73	47
75	89	75	2 1/2"	90	60
90	105.4	90	3"	108	69.2
110	130	110	4"	119	92
160	180.6	180.7	6"	150	137

Female Adaptor (NPT/BSPT)



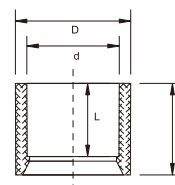
DN	D	d	G	H	d1
mm	mm	mm	mm	mm	mm
20	27.4	20	1/2"	32	31.6
25	33.2	25	3/4"	38	38.3
25x1/2"	32.5	25.3	1/2"	19	36
32	40.6	32	1"	44.7	47.5
40	49.3	40	1 1/4"	53	56.9
50	60.3	50	1 1/2"	55.2	69.6
63	85.8	63	2"	69	85.8
75	89	75	2 1/2"	84	89
90	105.4	90	3"	97	105.4
110	130	110	4"	114	130

Coupler



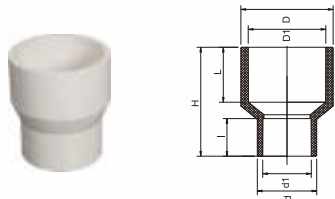
DN	D	d	L	H
mm	mm	mm	mm	mm
20	25	20	17	36
25	30.8	25	19.5	41
32	38.3	32	23	48
40	47.9	40	28.5	60
50	58.3	50	33.5	70
63	72.9	63	40	83
75	87.6	75	44	90
90	105.4	90	51	106
110	126.4	110	61	126
125	142.4	125	69	144
140	159	140	76.5	161
160	180.6	160	86.5	180
180	196.6	180	96	198
200	225.6	200	106	222
225	245	225	119	252
250	274.6	250	131	268
280	306	280	147	304
315	343	315	164	344
355	385	355	184	378
400	431	400	206	419

Reducer Ring



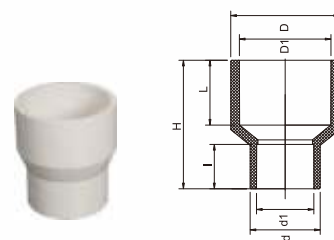
DN	D	d	L	H
mm	mm	mm	mm	mm
25x20	25	20	17	20.5
32x20	32	20	17	24
32x25	32	25	20	25
40x32	40	32	25	28.5
50x25	50	25	19.5	33.5
50x32	50	32	23	33.5
50x40	50	40	27.5	33.5
63x25	63	25	19.5	40
63x32	63	32	21.7	37.5
63x40	63	40	28.5	40
63x50	63	50	32.5	40
75x50	75	50	33.5	44
75x63	75	63	40	44
90x50	90	50	33.5	51
90x63	90	63	38	51.3
90x75	90	75	44	51
110x63	110	63	38.4	63.3
110x75	110	75	45	63.3
110x90	110	90	46.7	59.6
125x90	125	90	50	69
125x110	110.6	125.5	59.5	68.5
140x90	140	90	51	76.5
140x110	110.6	140.5	59.5	75.5
140x90	125.6	140.5	69	75.5
160x90	160	90	51	86.5
160x110	160	110	59.5	85.5
160x140	140.6	160.6	76.5	85.5
200x110	200	100	61	106
200x160	160.6	200.6	86.5	106.5
225x110	225	110	61	118.5
250x160	250	160	86	131
250x200	250	200	106	131
250x225	250	225	118.5	131
355x315	355	315	163.5	183.5
400x315	400	315	163.5	206

Reducer Ring



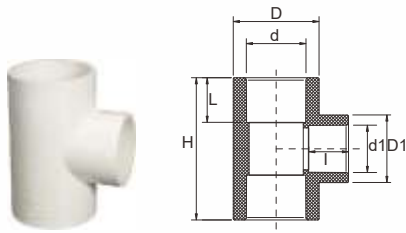
DN	D	D1	d	d1	H
mm	mm	mm	mm	mm	mm
25x20	30.8	25	25	20	43
32x20	38.3	32	25	20	48
32x25	38.3	32	30.8	25	50.5
40x20	47.9	40	25	20	54.5
40x25	47.9	40	30.8	25	56.5
40x32	47.9	40	38.3	32	60
50x20	58.3	50	25	20	62
50x25	58.3	50	30.8	25	63.8
50x32	58.3	50	33.2	32	68
50x40	58.3	50	47.9	40	72
63x25	72.9	63	30.8	25	75
63x32	72.9	63	38.3	32	79
63x40	72.9	63	47.9	40	83
63x50	72.9	63	58.3	50	88
75x32	82.4	75	37.6	32	95
75x40	87.6	75	47.9	40	91.5
75x50	87.6	75	58.3	50	96
75x63	87.6	75	72.9	63	101
90x40	105.4	90	47.9	40	103
90x50	105.4	90	58.3	50	106.5
90x63	105.4	90	72.9	63	114
90x75	105.4	90	87	75.4	119.5
110x63	126.4	110	72.9	63.3	129
110x75	126.4	110	87.6	75.4	133
110x90	126.4	110	105.4	90	139
125x75	136	125	82.4	75	144
125x90	136	125	98.8	90	145
125x110	136	125	120	110	148
140x90	152.4	140	98.8	90	159

Reducer Ring



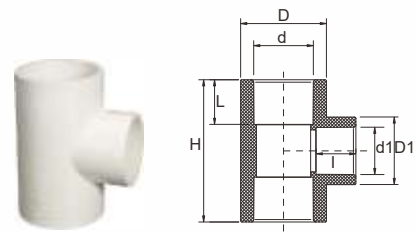
DN	D	D1	d	d1	H
mm	mm	mm	mm	mm	mm
140x110	152.4	76	120	110	162
160x90	174	86	98.8	90	179
160x110	180.6	86.5	126.4	110	190
160x125	174	86	136	125	180
160x140	174	86	152.4	140	182
180x160	196.6	96	174	160	198
200x110	217.6	106	120	110	220
200x160	225.6	107	180.6	160	238.5
200x180	217.6	106	196.6	180	219
225x110	245	120	120	110	221
225x160	245	120	174	160	234
225x200	245	119	217.6	200	243
250x110	274.6	131	120	110	271
250x160	274.6	131	174	160	271
250x200	274.6	131	217.6	200	271
250x225	274.6	131	245	225	270
280x250	306	147	274.6	250	301
315x110	343	164.5	120	110	336
315x160	343	164.5	174	160	336
315x200	343	164.5	217.6	200	336
315x250	343	164.5	274.6	250	336
315x280	343	164.5	306	280	338
355x200	385	184	217.6	200	379
355x315	385	184	343	315	380
400x200	431	206	217.6	200	422
400x250	431	206	274.6	250	422
400x315	431	206	343	315	422
400x355	431	206	385	355	420

Reducer Tee



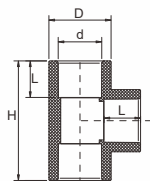
DN	D	d	D1	d1	H
mm	mm	mm	mm	mm	mm
25×20	30.8	25	25	20	64
32×20	38.3	32	25	20	69
32×25	38.3	32	30.8	25	79
40×20	47.9	40	25	20	82
40×25	47.9	40	30.8	25	90
40×32	47.9	40	38.3	32	92
50×20	58.3	50	25	20	91
50×25	58.3	50	30.8	25	98
50×32	58.3	50	38.3	32	105
50×40	58.3	50	47.9	40	110
63×25	72.9	63	30.8	25	110
63×32	72.9	63	38.3	32	118
63×40	72.9	63	47.9	40	125
63×50	72.9	63	58.3	50	140
75×32	82.4	75	37.6	32	126
75×40	87.6	75	47.9	40	137
75×50	87.6	75	58.3	50	143
75×63	87.6	75	72.9	63	156
90×40	105.4	90	47.9	40	151
90×50	105.4	90	58.3	50	159
90×63	105.4	90	72.9	63	172
90×75	105.4	90	87.6	75	186
110×63	126.4	110	72.9	63	190.2
110×75	126.4	110	87.6	75	206
110×90	126.4	110	105.4	90	221
125×75	136	125	82.4	75	237
125×90	136	125	98.8	90	237
125×110	136	125	120	110	256
140×90	152.4	140	98.8	90	248
140×110	152.4	140	120	110	268.5

Reducer Tee



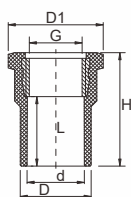
DN	D	d	D1	d1	H
mm	mm	mm	mm	mm	mm
160×75	174	160	82.4	75	251
160×90	174	160	98.8	90	267.5
160×110	180.6	160	126.4	110	288
160×125	174	160	136	125	303
160×140	174	160	152.4	140	318.5
180×160	196.6	180	174	160	357
200×75	217.6	200	82.4	75	291
200×90	217.6	200	98.8	90	331
200×110	217.6	200	120	110	331
200×160	225.6	200	180.6	160	394.6
225×110	245	225	120	110	359.5
225×160	245	225	174	160	406.5
250×110	274.6	250	120	110	378
250×160	274.6	250	174	160	428.5
250×200	274.6	250	217.6	200	468.5
280×200	306	280	217.6	200	512
315×110	343	315	120	110	447.5
315×160	343	315	174	160	497.5
315×200	343	315	217.6	200	537
315×225	343	315	245	225	537
315×250	343	315	274.6	250	587
355×110	385	355	120	110	558
355×160	385	355	174	160	558
355×200	385	355	217.6	200	692
355×225	385	355	245	225	692
355×250	385	355	274.6	250	692
400×200	431	400	217.6	200	644
400×250	431	400	245	225	644
400×225	431	400	274.6	250	751
400×315	431	400	343	315	751

Straight Tee



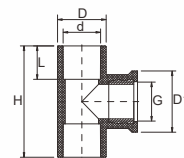
DN	D	d	L	H
mm	mm	mm	mm	mm
20	31.2	20	17	57
25	30.8	25	19.5	67
32	38.3	32	23	81
40	47.9	40	28.5	102
50	58.3	50	33.5	123
63	72.9	63	40	148
75	87.6	75	44	166
90	105.4	90	51	196
110	126.4	110	61	236.4
125	142.4	125	69	268
140	159	140	76.5	298
160	180.6	160	86	338
180	196.6	180	96	377
200	225.6	200	107	434
225	245	225	119	468
250	274.6	250	131	518
280	306	280	147	592
315	343	315	164	651
355	385	355	184	739
400	431	400	186	792

Copper Thread Coupling



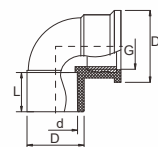
DN	D	d	D1	G	H
mm	mm	mm	mm	mm	mm
20×1/2"	20	20	33.5	1/2"	40
25×1/2"	25	25	35.3	1/2"	43
25×3/4"	25	25	40.4	3/4"	45
32×1/2"	32	32	33.5	1/2"	43
32×3/4"	25	25	44.2	3/4"	47
32×1"	32	32	50	1"	49

Copper Thread Tee



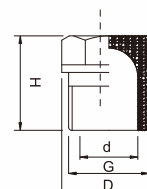
DN	D	d	D1	G	H
mm	mm	mm	mm	mm	mm
20×1/2"	25	20	33	1/2"	60
25×1/2"	30.8	25	33	1/2"	68
25×3/4"	30.8	25	40	3/4"	73
32×1/2"	38.3	32	33	1/2"	68
32×3/4"	38.3	25	40	3/4"	73
32×1"	38.3	32	45	1"	90

Copper Thread Elbow 90°



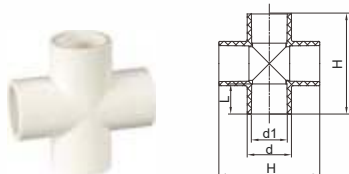
DN	D	d	D1	G
mm	mm	mm	mm	mm
20×1/2"	25	20	33	1/2"
25×1/2"	30.8	25	33	1/2"
25×3/4"	30.8	25	40	3/4"
32×1/2"	38.3	32	40	1/2"
32×3/4"	38.3	25	45	3/4"
32×1"	38.3	32	33	1"

Thread Plug



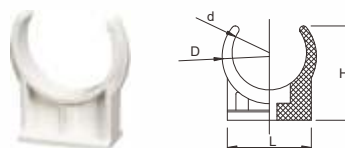
DN	D	D1	d	d1
mm	mm	mm	mm	mm
20	24	13	1/2"	28
25	30.4	19	3/4"	30.7
32	39.4	23	1"	37.5

Cross



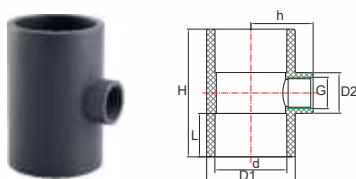
DN	d	d1	H	L
mm	mm	mm	mm	mm
20	25	20.3	57	17
25	30.8	25.3	69	20.6
32	38.3	32.4	81	23
40	47.9	40.4	102	28.5
50	58.3	50.4	123	33.5
63	72.9	63.4	148	40
75	87.6	75.5	166	44
90	105.4	90.5	196	51
110	126.4	110.6	236.4	64
160	180.6	160.6	338	86.5

Pipe Bracket



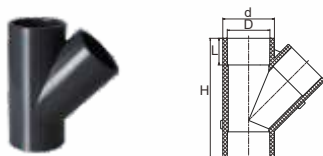
DN	D	d	L	H
mm	mm	mm	mm	mm
20	24.7	19.5	24.7	24.7
25	32.8	24.5	29.4	28.7
32	40.5	31.5	37	32.5
40	50	39.5	39.6	40.5
50	61.2	49.5	44	49.5
63	77	62.5	60	59

Female Reducer Tee



DN	D1	D2	d	H	G
mm	mm	mm	mm	mm	mm
63x3/4"	75	34	64	113	3/4"

Skew Tee



DN	d	D	H	L
mm	mm	mm	mm	mm
110	198	126.4	284.4	61

UPVC Female Union



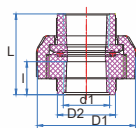
DN	D	d	H	G
mm	mm	mm	mm	mm
25X3/4"	33.24	25.3	42.5	3/4"
32X1"	41.2	32.3	45.7	1"

UPVC Female Union



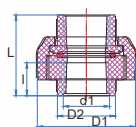
DN	D	d	H	G
mm	mm	mm	mm	mm
25X3/4"	33.24	25.3	54.6	3/4"
32X1"	41.2	32.3	64.4	1"

PVC PN10 Union DIN



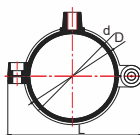
DN	d1	D2	D1	I	L
mm	mm	mm	mm	mm	mm
20	20	25.7	44.6	16.5	39.2
25	25	31.3	51.6	19	45.2
32	32	39	59.2	22.5	52.2
40	40	47.2	69.8	26.5	60.5
50	50	58.1	80.1	31.5	73.9
63	63	71.5	95.9	38	85.9

PVC PN10 Union BSPT



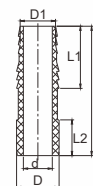
DN	d1	D2	D1	I	L
mm	mm	mm	mm	mm	mm
1/2"	1/2"	26.4	44.6	15	36.7
3/4"	3/4"	32.5	51.6	15.5	38.2
1"	1"	39.9	59.2	18.5	44.7
1-1/4"	1-1/4"	48.9	69.8	20.5	49
1-1/2"	1-1/2"	55.4	80.1	20.5	51.9
2"	2"	67.7	95.9	25	60.4

Pipe Clamp



DN	d1	D2	D1
mm	mm	mm	mm
20	23.4	20	40
25	29.4	25	45
32	36	32	55
40	44	40	63
50	54	50	77
63	68.5	63	100

Hose Connector



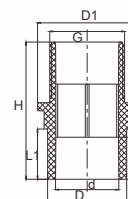
DN	D	d	D1	H
mm	mm	mm	mm	mm
20	20	14	18	73
25	25	17	20.8	76
32	32	24	27.8	80.5
40	40	32	37	92
50	50	41	47	100

Male Hose Connector



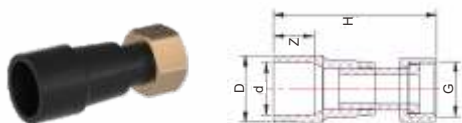
DN	D1	D3	d	H	G
mm	mm	mm	mm	mm	mm
20×22×1/2"	15	24	14.5	66	1/2"
25×27×3/4"	19	30	18	70.5	3/4"
30×32×1"	24	36	24	77	1"
40×42×1-1/4"	33	46	32	88	1-1/4"
50×52×1-1/2"	42	55	37.5	91	1-1/2"
60×64×2"	50.5	75	48	124	2"

Flange Coupler M/F



DN	d	D	D1	H	G
mm	mm	mm	mm	mm	mm
25×20×3/4"	20.2	25	39.6	75.9	3/4"
32×25×1"	25.2	32	47	82	1"
32×40×1-1/4"	32	40	57.8	91.8	1-1/4"
40×50×1-3/4"	40	50	71.8	98.5	1-3/4"
50×40×1-1/2"	40.4	50	57.9	98.5	1-1/2"
50×63×2"	50	63	79	109.3	2"
63×75×2-1/2"	63	75	95	120	2-1/2"

Pressure Tap Connector



DN	D	d	d2	d2	d3
mm	mm	mm	mm	mm	mm
25x3/4"	31.9	25.3	3/4"	19.5	77.8

UPVC Saddle Clamp



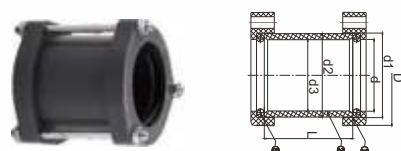
DN	D	G	H	Z	L
mm	mm	mm	mm	mm	mm
50x25	160	2-1/2"	36	125	55
63x25	200	1-1/2"	35	142	74
63x1"	200	2"	37	142	74
75x3/4	200	2-1/2"	37	142	74
75x1-1/2"	225	3/4"	20	153.5	76
90x25	225	1-1/2"	37	153.5	76
90x1"	225	2"	37	153.5	76
90x1-1/2"	225	2-1/2"	37	153.5	76
110x1/2"	250	2"	28	170	76
110x3/4"	250	2"	28	170	76
110x1"	250	2-1/2"	38	170	76
110x1-1/2"	250	3"	34	170	76
110x2"	250	110	61.5	195	76
110x2-1/2"	315	2"	27	170	70
125x1-1/2"	315	110	63	231.5	70
125x2"	315	160	86	250	70
125x2-1/2"	400	110	61	285	87
160x1"	400	200	106	330	87
160x1-1/2"	400	250	162	385	87
160x2"	50	25	26	59	23
160x2-1/2"	63	25	26	65	28
200x1-1/2"	63	1"	21	60	28
200x2"	75	3/4"	20	65	31
200x2-1/2"	75	1-1/2"	24	68	31
225x3/4"	90	25	26	80	36

UPVC Saddle Clamp



DN	D	G	H	Z	L
mm	mm	mm	mm	mm	mm
225x1-1/2"	90	1"	24	79.5	36
225x2"	90	1-1/2"	24	75	36
225x2-1/2"	110	1/2"	24	88.5	38
250x2"	110	3/4"	20	88.5	38
250x2" [Cu]	110	1"	24	88.5	38
250x2-1/2"	110	1-1/2"	35	97	38
250x3"	110	2"	35	97	38
250x110"	110	2-1/2"	35	97	38
315x2" [Cu]	125	1-1/2"	37	105	37
315x110	125	2"	37	105	37
315x160	125	2-1/2"	37	105	37
400x110	160	1"	24	114.5	55
400x200	160	1-1/2"	36	125	55
400x250	160	2"	36	125	55

Cross



DN	D	d	d2	d2	d3	L
mm	mm	mm	mm	mm	mm	mm
40	86.3	41	50.4	50	51	60
50	73.1	51	46.5	60.3	41	70
63	90.6	64.5	76	75	64	79.5
75	102.83	76	90.44	90	76	92
90	132.5	91	109.5	91	91	105
110	154.5	111	131.5	129.4	111	130.6
125	167.9	126	146.5	144.4	126	140
140	186	141	163	161.2	141	148
160	211	161	184.5	184	-	155.6
200	260.7	201	229.4	228.8	-	205.6
225	291.6	226	257.3	256.8	-	230.6
250	320.2	251	285.1	284.6	-	255.6



01

One Faucet One Insert 90° Elbow
DN.225 - 315



Two Faucet 90° Elbow
DN.63 - 355



02

Two Faucet 45° Elbow
DN.63 - 355

03



04

Two Faucet 22.5° Elbow
DN.63 - 315



Two Faucet Coupling
DN.63 - 355

05



Two Faucet Reducer
DN.90x63 - 355x315

06



07

Three Faucet Regular Tee
DN.63 - 355



Three Faucet Reducing Tee
DN.75x63 - 355x250

08



Two Faucet One Insert Regular Tee
DN.110 - 315

09



10

Two Faucet One Insert Reducing Tee
DN.160x110 - 315x200



Two Faucet One Flange Regular Tee
DN.110 - 225

11



Two Faucet One Flange Reducer Tee
DN.160x110 - 315x200

12



13

One Faucet One Flange One Insert Regular Tee
DN.110 - 225



One Faucet One Flange One Insert Reducer Tee
DN.160x110 - 315x200

14



Two Faucet Cooper Screw Tee
DN.63x3/4 - 63x1"

15



**One Faucet One Insert
One Screw Tee**
DN.110x2"

16



Faucet Flange
DN.63 - 400

17



Insert Flange
DN.63 - 400

18



**Saddle Pin Joint With
Cooper Screw**
DN.90 - 400

19



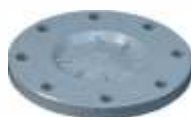
Repairing Joint
DN.110 - 315

20



Cooper Screw Blank Flange
DN.110x2" - 200x2"

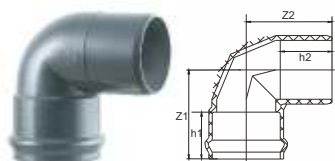
21



Blank Flange
DN.110 - 200

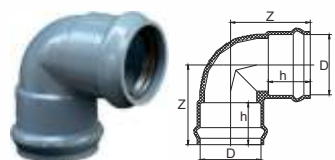
22

One Faucet One Insert 90° Elbow



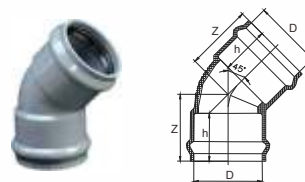
DN	Z1	Z2	h1	h2
mm	mm	mm	mm	mm
225	312	296	166	170
250	337.5	340	182	178
315	393	378	198	222

Two Faucet 90° Elbow



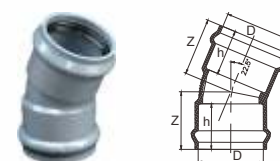
DN	Z	h
mm	mm	mm
63	112	76
75	123	81.5
90	165	114
160	229	142
110	190	122
225	312	163
315	393	198
355	393	206
200	266	153
250	338	177

Two Faucet 45° Elbow



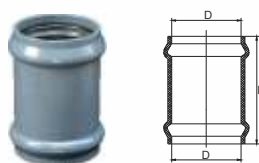
DN	Z	h
mm	mm	mm
63	92	76
75	103.5	81.5
90	136	114
160	183	141.5
110	162.5	122
225	222	166
315	298	195
355	292	205
200	210	155
250	248	180

Two Faucet 22.5° Elbow



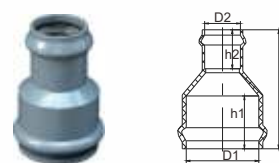
DN	Z	h
mm	mm	mm
63	75	85
75	81.5	97
90	114	127.5
110	152	122
160	166	140.5
200	190	155
225	191	166
250	224	180
315	268	198

Two Faucet Coupling



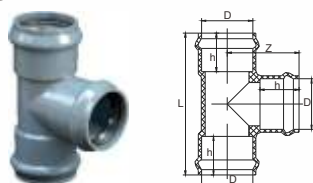
DN	L
mm	mm
63	156
75	170
90	235
110	266
160	310
200	338
225	360
250	385
315	460
355	460

Two Faucet Reducer



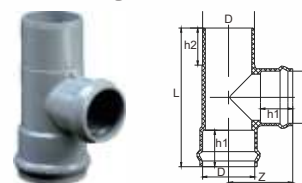
DN	H	h1	h2
mm	mm	mm	mm
90×63	210	115	76
90×75	212	115	81.5
110×63	230	122	76
110×90	255	123	116
160×110	305	140	122
200×110	324	156	122
200×160	325	155	140
225×110	362	160	122
225×160	355	160	140
225×200	355	160	155
250×110	388	175	122
250×160	375	175	140
250×200	372	175	155
250×225	375	175	165
315×160	431	195	140
315×200	430	195	155
315×250	435	195	182
355×200	455	205	155
355×315	438	205	198

Three Faucet Regular Tee



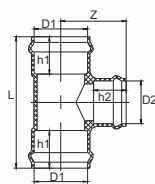
DN	L	h	Z
mm	mm	mm	mm
63	224	76	122
75	245	81.5	122.5
90	330	115	165
110	410	122	206
160	473	141.5	238
200	560	152	280
225	615	166	308
250	666	176	333
315	780	198	390
355	786	206	393

Two Faucet One Insert Regular Tee



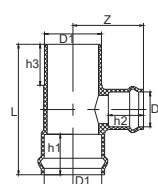
DN	L	h1	h2	Z
mm	mm	mm	mm	mm
110	410	122	130	206
160	480	141.5	144	238
200	560	155	155	280
225	615	166	167	308
250	670	180	182	333
315	780	198	198	390

Three Faucet Reducing Tee



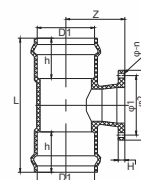
DN	L	h1	h2	Z
mm	mm	mm	mm	mm
75×63	234	81.5	76	117.5
90×63	304	115	76	128
90×75	304	115	81.5	153
110×63	340	122	76	141
110×75	340	122	81.5	138
110×90	340	122	115	197
160×63	384	141	76	169
160×75	384	141	81.5	175
160×90	384	141	115	225
160×110	430	142	122	220
200×63	416	152	76	195
200×75	416	152	81.5	200
200×90	416	152	115	250
200×110	477	155	122	235
200×160	535	155	142	255
225×110	492	166	122	250
225×160	545	166	142	270
250×110	516	180	122	265
250×160	576	180	142	285
250×200	618	180	155	315
315×110	570	198	122	312
315×160	618	198	142	317
315×200	658	198	155	344
355×160	616	206	105	343
355×200	616	206	155	387
355×225	664	206	166	370
355×250	664	206	177	413

Two Faucet One Insert Reducing Tee



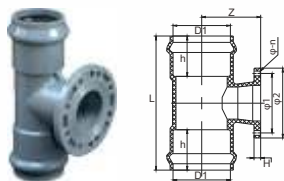
DN	L	h1	h2	h3	Z
mm	mm	mm	mm	mm	mm
160×110	440	141.5	122	144	220
200×110	477	155	122	155	235
200×160	530	155	141.5	155	255
225×110	495	166	122	167	250
225×160	550	166	141.5	167	270
250×110	515	180	122	182	265
250×160	570	180	141.5	182	285
250×200	616	180	155	182	315
315×110	575	198	122	197	312
315×160	618	198	141.5	197	318
315×200	663	198	155	197	344

Two Faucet One Flange Reducer Tee



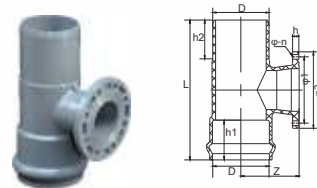
DN	L	Ø1	Ø2	H	Ø-n
mm	mm	mm	mm	mm	mm
160×110	428	180	225	21	17.5-8
200×110	475	180	225	21	17.5-8
200×160	535	240	285	24	22-8
225×110	490	180	225	21	17.5-8
225×160	540	240	285	24	22-8
250×110	520	180	225	21	17.5-8
250×160	573	240	285	24	22-8
250×200	623	295	340	28	22-8
315×110	580.5	180	225	21	17.5-8
315×160	618	240	285	24	22-8
315×200	663	295	340	28	22-8

Two Faucet One Flange Regular Tee



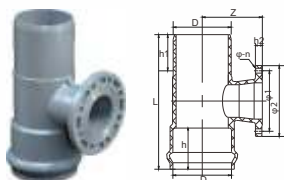
DN	L	Ø1	Ø2	H	Ø-n
mm	mm	mm	mm	mm	mm
110	413	180	225	21	17.5-8
160	475	240	285	24	22-8
200	560	295	340	28	22-8
225	611	295	340	30	22-8

One Faucet One Flange One Insert Regular Tee



DN	L	h	Ø1	Ø2	Ø-n
mm	mm	mm	mm	mm	mm
110	410	21	180	225	17.5×8
160	480	24	240	285	22×8
200	560	28	295	340	22×8
225	615	30	295	340	22×8

One Faucet One Flange One Insert Reducer Tee



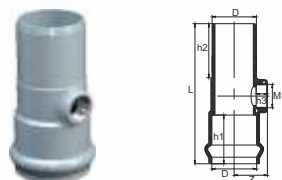
DN	L	h	Ø1	Ø2	Ø-n
mm	mm	mm	mm	mm	mm
160×110	440	141.5	180	225	17.5×8
200×110	477	155	180	225	17.5×8
200×160	530	155	240	285	22×8
225×110	495	166	180	225	17.5×8
225×160	550	166	240	285	22×8
250×110	515	180	180	225	17.5×8
250×160	570	180	240	285	22×8
250×200	616	180	295	240	22×8
315×110	575	198	180	225	17.5×8
315×160	618	198	240	285	22×8
315×200	663	198	295	340	22×8

Two Faucet Cooper Screw Tee



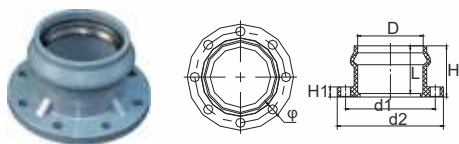
DN	H	h	L
mm	mm	mm	mm
63X3/4"	76	52	200
63X1"	76	52	200

One Faucet One Insert One Screw Tee



DN	L	h1	h2	h3	Z
mm	mm	mm	mm	mm	mm
110×2"	340	122	130	130	130
160×2"	380	141.5	144	144	144
200×2"	410	155	155	155	155

Faucet Flange



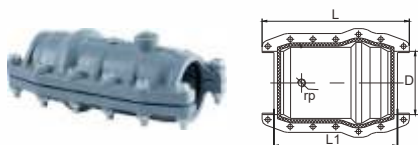
DN	d1	d2	H	H1	Ø	n
mm	mm	mm	mm	mm	mm	mm
63	125	165	88	16	17.5	4
75	145	185	92	16	17.5	4
90	160	200	122	20.5	17.5	8
110	180	225	148.5	21	17.5	8
160	240	285	154	24.5	22	8
200	295	336	167.5	27	22	8
225	295	340	173.5	31	22	8
250	350	395	188	33	22	12
315	400	445	215	36.5	22	12
355	445-460	505	225	38	22	16
400	495-515	565	247.5	41.5	26	16

Insert Flange



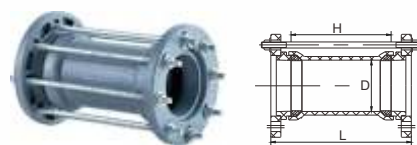
DN	d1	d2	H	L1	Ø	n
mm	mm	mm	mm	mm	mm	mm
63	125	165	110	16	17.5	4
75	145	185	113	16	17.5	4
90	160	200	153	20	17.5	8
110	180	225	167	21	17.5	8
160	240	285	196	25	22	8
200	295	338	215	32	22	8
225	295	340	226.5	31	22	8
250	350	395	257.5	33	22	12
315	400	445	297.5	36.5	22	12
400	495-515	565	303	41.5	26	16

Saddle Pin Joint With Cooper Screw



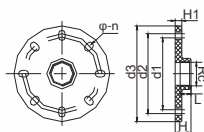
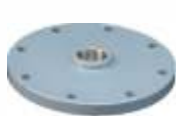
DN	L	L1	rp	nut
mm	mm	mm	mm	mm
90	313	260	1/2"	12-M10x70
110	340	280	1/2"	12-M12x70
125	345	284	1/2"	12-M12x70
140	347	286	1/2"	12-M12x70
160	382	320	1/2"	14-M12x80
200	462	400	1/2"	16-M12x80
225	462	400	1/2"	16-M12x80
250	494	430	1/2"	18-M12x90
315	525	450	1/2"	18-M12x90
355	545	470	1/2"	18-M16x100
400	575	500	1/2"	20-M16x100

Repairing Joint



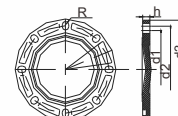
DN	L	H
mm	mm	mm
110	305	221
160	365	252
200	/	290
225	410	315
250	/	335
315	430	390

Cooper Screw Blank Flange



DN	d1	d2	d3	H	H1	L	Ø-n
mm	mm	mm	mm	mm	mm	mm	mm
110x2"	170	180	225	38	20	28	17.5x8
160x2"	230	240	285	41.5	25	28	17.5x8
200x2"	295	/	340	43	28	28	22x8

Blank Flange



DN	d1	d2	d3	h	n	R
mm	mm	mm	mm	mm	mm	mm
110	170	180	225	20	8	11
160	230	240	285	25	8	9
200	295	/	340	28	8	11



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