



HDPE PIPING SYSTEMS

for Water Supply, Plumbing and Pressure Applications



MIND LOCAL SET GLOBAL



Minding the local way is our approach of setting the global strategy. Globalization is the process whereby we aim to interact and integrate our product's businesses and technologies into the international scale. While localization is the adaptation of our product or services to meet the needs of a market with localized mindset and practice of adjusting our product's function properties and characteristics. The following are the 6 core values and commitments we set to achieve our goals:

PRODUCT INNOVATION

We continue to improve and innovate our products based on new technological advancements, cost competitiveness, product customization and user-friendliness with creative and practical ideas in order to accommodate the localized mindset and preference.

QUALITY & WARRANTY

Products are manufactured in accordance to the product standard with proper production technique and quality assurance measures in place. We warrant our products quality and life-span stipulated in our standard products warranty policies.

TOOLING SUPPORT

Tooling is a must and right tooling is even more essential for plumbing work. We provide full set of reliable and user-friendly tooling to ensure proper and quality installation works and greatly reduce the possible errors made during installation.

COST EFFECTIVE

We ensure that our prices offered in the market are competitive and uphold fair competition by not slashing or under-cutting prices, yet maintaining the product sustainability by providing value added support in many different forms.

STOCK AVAILABILITY

We understand that there should not be any discontinuity of stock once the project has kicked off. We employ the "Just-in-time" stock inventory management to ensure best level of stock availability and response time.

ONSITE SUPPORT

We take note on the site condition which may result in variance during installation. We conduct regular and scheduled visits to site for product usage and installation briefing. We also support in solving site issue on request.

Contents

03-04

FENGYE HDPE Pipes

11-14

Product Lists
Socket Fusion Fittings & Tools

05-07

FENGYE Socket Fusion Fittings

15-16

Product Lists
Electrofusion Fittings

08

FENGYE PE Valves

17

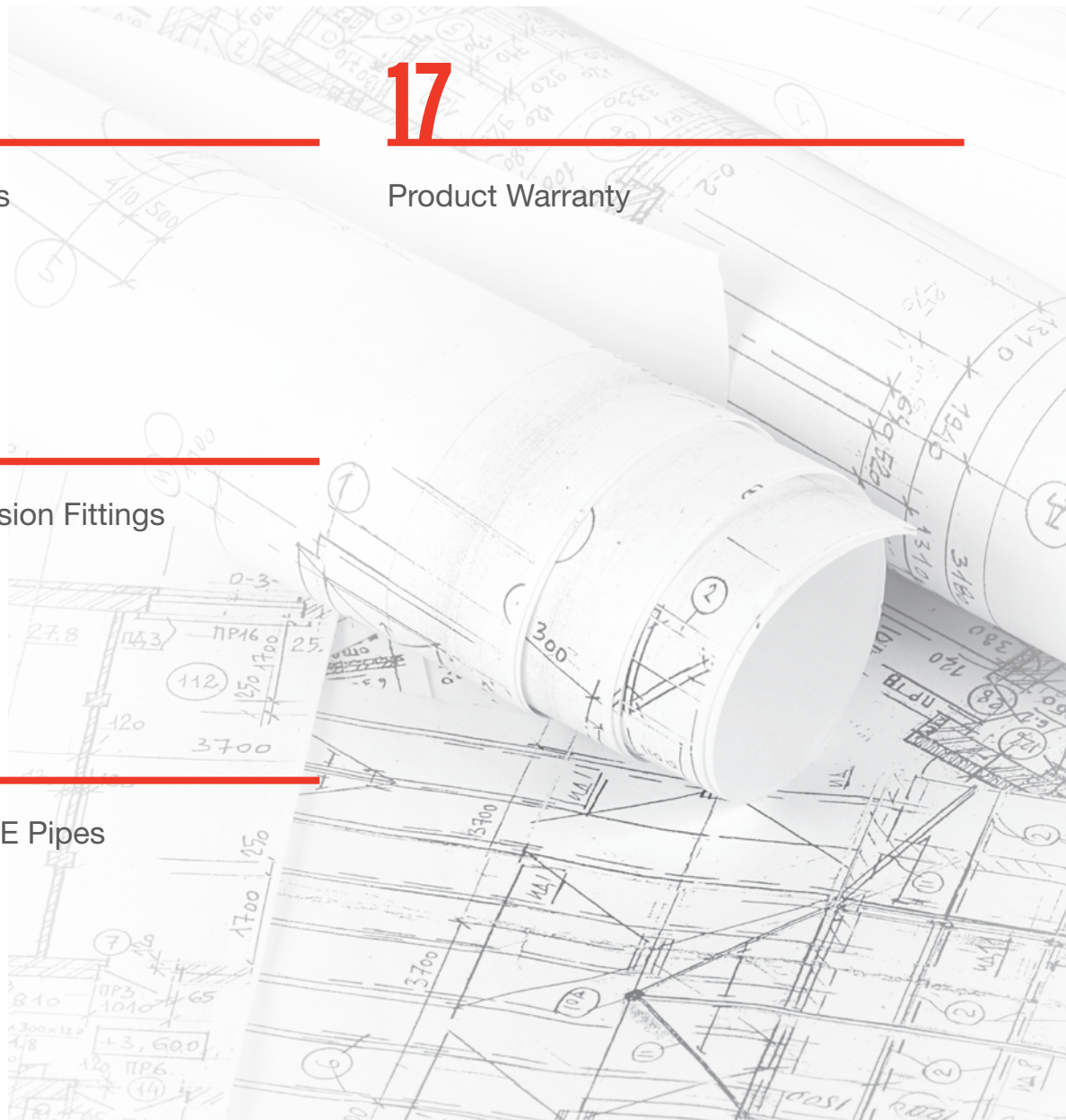
Product Warranty

09

FENGYE Electrofusion Fittings

10

Product Lists HDPE Pipes



FENGYE HDPE Pipes

Product Standard : MS 1058-2 : 2005 & ISO 4427-2 : 2007+A1 : 2014

GENERAL

Polyethylene (PE) has grown to be the world's most widely used and recognized thermoplastic materials. Today's modern PE resins are highly engineered for more rigorous applications such as pressure-rated water and gas pipes, landfill membranes, automotive fuel tanks and other demanding applications.

TYPE OF PE MATERIALS

The physical properties of PE materials are specific to each grade or type, and can be modified by both variations in density, and molecular weight distribution. A large number of grades of PE materials are used in pipe and fitting systems and the specific properties are tailored for the particular application.

High Density PE (HDPE) types of PE material has been used in our applications. HDPE base resins are manufactured in a low-pressure process, resulting in a chain structure with small side branches and a material density range of 0.9300960 g/cm³. HDPE materials qualify as PE80 and PE100 in accordance to their relative product standard.



COMPARISONS OF PE100 VS PE80

PE100 material can withstand a minimum circumferential stress (or hoop stress) of 10MPa compared to 8MPa of PE80 material for 50 years at 20°C. The higher long-term creep resistance of PE100 material translates to higher operating pressures at the same wall thickness, or alternatively, thinner walled pipes at the same operating pressure, offering greater hydraulic capacity than PE80 material.

PE100 material has improved notch resistance which means they are less sensitive to surface damage during laying compared to PE80 material. In addition, PE100 material exhibits improved resistance to rapid crack growth. If a fast crack begins to grow in a PE100 pipe, it will be arrested after propagating only a short distance.



STRAIGHT AND ROLLED FORMS

HDPE pipes are supplied in both straight and rolled (for sizes DN20 - DN32) forms. It is highly recommended to use straight pipes for jointing with fittings as the ovality of the pipe diameter is being maintained well compared to rolled pipes. Rolled pipes cannot restore the pipe diameter ovality completely after uncoiling due to the pipe's flexural modulus properties. However, rolled pipes are able to provide connection continuity with less fittings used and less joints being made.

UV & WEATHER RESISTANCE

HDPE has the BEST UV and weather resistance amongst other plastics. All plastic pipes are subjected to the process of surface degradation, or oxidation due to the combined effects of UV radiation, increased temperature, and moisture when pipes are stored in exposed locations.

Our Black PE pipes contain 22.5% finely divided carbon black and can be safely stored outside in most climates for many years without damage from UV exposure. Carbon black is the most effective single additive to enhance the weathering characteristics of plastic materials. Others types of pipes that do not utilize carbon black do not possess the same stability and develops a faster rate of oxidation.



Performance Specifications

Item	Units	Characteristic	Parameter	
			PE-80	PE-100
Hydrostatic Strength	MPa	20° (100h) : No break & leakage 80° (165h) : No break & leakage 80° (1,000h) : No break & leakage	9.0 4.6 4.0	12.4 5.5 5.0
Elongation at Break	%	≥ 350		
Thermal Stability (Oxidation Induction Time)	min	> 20	200°C	
Melt Flow Rate (MFR)	g/10min	Changes of MFR by processing <25%	190°C, 5kgs	
Longitudinal Reversion	%	≤ 3	110°C	

PE100 Dimensions

Nominal (mm)	Outer Diameter (mm)		Wall Thickness (mm) PN 12.5 (SDR 13.6)		Wall Thickness (mm) PN 16 (SDR 11)	
	Min	Max	Min	Max	Min	Max
20	20.0	20.3	-	-	2.0	2.3
25	25.0	25.3	2.0	2.3	2.3	2.7
32	32.0	32.3	2.4	2.8	3.0	3.4
40	40.0	40.4	3.0	3.5	3.7	4.2
50	50.0	50.4	3.7	4.2	4.6	5.2
63	63.0	63.4	4.7	5.3	5.8	6.5
75	75.0	75.5	5.6	6.3	6.8	7.6
90	90.0	90.6	6.7	7.5	8.2	9.2
110	110.0	110.7	8.1	9.1	10.0	11.1
125	125.0	125.8	9.2	10.3	11.4	12.7
160	160.0	161.0	11.8	13.1	14.6	16.2
180	180.0	181.0	13.3	14.8	16.4	18.2
200	200.0	201.2	14.7	16.3	18.2	20.2

FENGYE PE Socket Fusion Fittings

Product Standard : MS 1058-3 : 2005 & BS EN 12201-3 : 2011+A1 : 2012

PE pipes and fittings homogeneous heat fusion joints is the most preferred jointing method in terms of performance and reliability. The principle of heat fusion is to heat two surfaces to a designated temperature, then fuse them together by application of sufficient force. This force applied causes the melted materials to flow and mix, thereby resulting in fusion.

When fused according to the pipe and/or fitting procedures, the joint area becomes as strong or stronger than the pipe itself in both tensile and pressure properties, thus homogeneously fused joints are considered leak-proof.

JOINTING TYPE

Socket fusion is the most convenient and versatile fusion method for small diameter (DN20) up to mid-range diameter (DN110). This technique consists of simultaneously heating both the external surface of the pipe end and the internal surface of the socket fitting until the materials reach their fusion temperature. Then, they are being pushed and held together until the joint is cooled.

JOINTING ENHANCEMENT 1 - COLD-RING

Cold-ring is a rounding clamp used to maintain the roundness of the pipe and strengthen the circumferential structure of the pipe. The positioning of Cold-ring will set and control the insertion depth of the pipe (acting as the 'hard-stop') during the jointing operation. The Cold-ring will not allow over-push or over-insert of the pipe into the socket fitting, thus preventing the pipe edge crumpling or cold joint issues. The flat surrounding face of Cold-ring when push against the flat of fitting's mouth which resulting in consistent flattened beads being formed on every joint.

The Cold-ring helps in fast and reliable installation. It can also be used repeatedly.



JOINTING ENHANCEMENT 2 - ORBIT


Orbit is a proprietary design and has been developed to mark or indicate the insertion depth of a pipe conveniently, fast and to allow the immediate gross check on pipe ovality. It is an all-in-one tool caters for pipe sizes of DN 20 to DN 63 for both PE 100 PN12.5 and PN16 pipes. This full-proof design only allows respective pipe sizes to be inserted into the respective slot one at a time, hence less prone to errors and when marking and checking.



JOINTING ENHANCEMENT 3 - SINGLE-RING PIPE STIFFENER

Single-Ring is the newly named Pipe Stiffener or Pipe Insert that acts as the internal support for the heated pipe to prevent crumpling due to over-heating and/or over-insertion. It is essential that smaller pipe sizes with wall thickness of 3mm and below to utilize Single-Ring to prevent such phenomena.



Nominal (mm)	Outer Diameter (mm)		PN 12.5 (SDR 13.6)	PN 16 (SDR 11)
	Min	Max		
20	20.0	20.3	—	
25	25.0	25.3		
32	32.0	32.3		—





JOINTING ENHANCEMENT 4 - ANTI-SLIP FEMALE ELBOW

The final piping point on threaded fittings is the metal thread transition to be connected with other tapping parts. The threaded metal insert embedded inside the fitting however may “slip” or be “twisted” between the plastic body under excessive tightening force. If this occurs, water may sip through the loose gap between.

In order to avoid this, the metal insert has been designed with an extended holding position over the large elbow contact areas in opposing twist direction. This offers a “One Piece” design to achieve the Anti-Slip feature.

FENGYE PE Socket Fusion Fittings

Product Standard : MS 1058-3 : 2005 & BS EN 12201-3 : 2011+A1 : 2012

Installation Procedures		
	<p>CUT the pipe squarely with proper pipe cutter or by using saw with proper side-guiding in order to achieve a perpendicular cut.</p>	 <p>SET UP the welding tool with the appropriate bushes. Set the welding temperature to 260°C, and prepare the heating time information.</p>
	<p>INSERT the pipe into the respective slot of Orbit until the end which is preset to the respective insertion depth.</p>	 <p>PUSH IN both pipe & fitting by pushing them together against the flats of both surfaces within the joint time. Hold the joint until heating time achieved.</p>
	<p>CLAMP ON the pipe with the Cold-ring firmly at the insertion depth position.</p>	 <p>JOIN the pipe & fitting by pushing them together against the flats of both surfaces within the joint time. Hold the joint until it cools down.</p>
	<p>PUT ON the Pipe-stiffener into the pipe edge for pipe wall thickness below 3mm. Black color for PN16 and blue color for PN12.5 pipe.</p>	 <p>CONFIRM the jointing quality whereby the outer indicator ring appear outside the pipe.</p>

Processing Parameters

OD, mm	Insertion Depth, mm	Heat Time, s	Joint Time, s	Cold Time, m
20	13	6	4	2
25	15	7	4	3
32	17	8	6	4
40	19	12	6	4
50	21	18	6	5
63	25	25	8	6
75	27	30	8	8
90	30	40	10	8
110	34	50	10	8

Heating Temperature 260°C

These processing parameters are to be adhered with in order to carry out the proper installation and to produce a quality joint. The jointing process can be perfected through the usage of auxiliary enhancement tools provided, such as the Cool-ring, Orbit, Single-ring and Double-ring.

FENGYE PE Valves

Product Standard : BS EN 12201-4 : 2012 & BS EN 1213 : 2000 (SIRIM 9)



Stop Valve is ideal for small plumbing and it is used to start, stop and regulate flow of water. The design and construction of Stop Valve provides a tight seal with fewer chances of leakage compared to other types of valves.

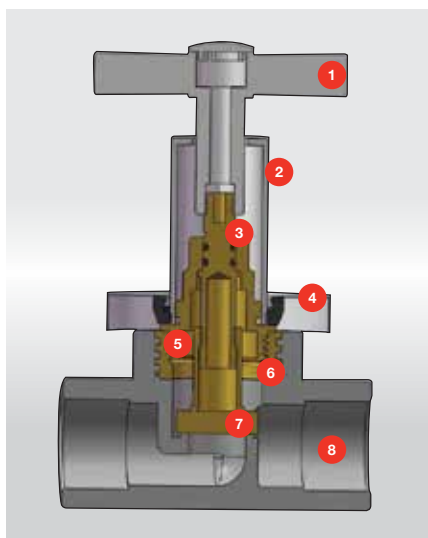
JOINTING CONCEPT

FENGYE's PE Stop Valves is based on the concept of Socket Fusion joint with HDPE Pipes that form homogenized material joints and eliminates the use of additional male or female thread fittings. These direct jointing's are durable and permanent with leakage free performance.

DESIGN & BUILD

The working principle of Stop Valve is based on the movement of plug-like disc connected to the stem and handle by a screw mechanism, raising up to allow flow and moving down to throttle flow. For the critical moving and high impact parts, they are made of metal.

In order to fulfill the requirement of wall concealed application and to improve the architectural impression, the standard valve can be retrofitted with an extended shaft, easy to grip cross handle, extended sleeve and adjustable wall flange cover. All of these components are coated with high-end quality chrome finishing.

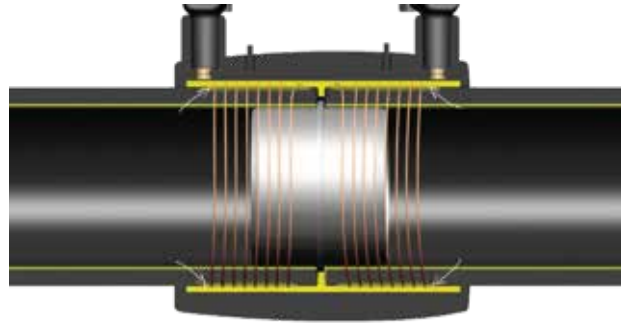


Chrome Cross Handle Stop Valves			
Sizes	20mm (1/2")	25m (3/4")	32mm (1")
Pressure Rating	PN16	PN16	PN16
Flow Rate	0.2 l/s	0.4 l/s	0.7 l/s
1. Cross Handle	Chrome Zinc Alloy		
2. Sleeve	Chrome Zinc Alloy		
3. Stem	Brass CW617N		
4. Wall Flange	Chrome Stainless Steel		
5. Bonnet	Brass CW617N		
6. Body Insert	Brass CW617N		
7. Disc	Brass CW617N		
8. Body	PE		

FENGYE PE Electrofusion Fittings

Product Standard : MS 1058-3 : 2005 & BS EN 12201-3 : 2011+A1 : 2012

PE Electrofusion is the most advanced and automated PE fusion jointing method. It is proven to be the most reliable, efficient and error proof method especially for larger diameter pipes. It is chosen in view of its practicality aspect when installing larger pipes.



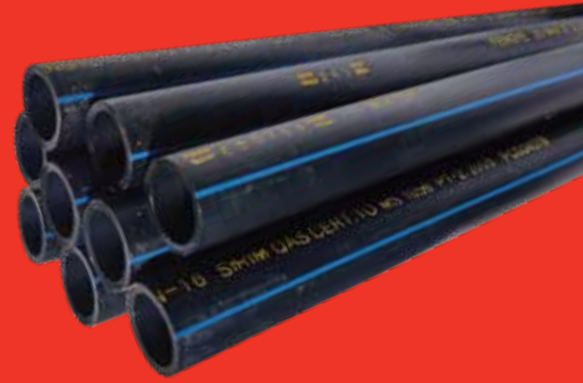
The embedded heating wires have been pre-insulated and they are spaced consistently during the molding process. Heat is produced as electrical current is applied to the heating wires and spread across a large area around the PE polymer of pipes and fittings. This produces a molten state around the heated area, allowing homogeneous joints to be formed.

Each Electrofusion Fitting comes with a barcode, that once scanned with the control box allows for automated settings based on computerized electrofusion parameters stored within. The jointing process is then executed and carefully monitored by the control box. Once jointing is completed, the joint data is saved and is retrievable for future jointing reference and analysis.

Installation Procedures			
<p>1</p>	<p>CUT the pipe squarely with proper pipe cutter or by using saw the proper side-guiding in order to achieve a perpendicular cut.</p>	<p>4</p>	<p>INSERT the pipe into the fitting until it reaches the hard stop inside the fitting. Make sure that the pipe is not too loose or too tight in the fitting.</p>
<p>2</p>	<p>MARK the insertion depth by measuring the insertion depth from fitting.</p>	<p>5</p>	<p>PLUG In the terminal cables into the terminals on fitting. Scan or key-in the joint parameters (wattage and time respectively).</p>
<p>3</p>	<p>PEEL or scrape the pipe at insertion depth and clean the joint surface area.</p>	<p>6</p>	<p>FUSE the pipe & fitting joints with the electrofusion machine at the preset time. Pins will protrude out to indicate the fusion process is completed.</p>

Product List

FENGYE HDPE Pipes PE 100



Size	Straight (5.8M Length)				Coiled (100M Roll)			
	PN 12.5 (SDR 13.6)		PN 16 (SDR 11)		PN 12.5 (SDR 13.6)		PN 16 (SDR 11)	
	Code	Nominal Wall Thickness (MM)	Code	Nominal Wall Thickness (MM)	Code	Nominal Wall Thickness (MM)	Code	Nominal Wall Thickness (MM)
DN20	-	-	FP16020	2.0	-	-	FP16020C	2.0
DN25	FP025	2.0	FP16025	2.3	FP025C	2.0	FP16025C	2.3
DN32	FP032	2.4	FP16032	3.0	FP032C	2.4	FP16032C	3.0
DN40	FP040	3.0	FP16040	3.7	FP040C	3.0	FP16040C	3.7
DN50	FP050	3.7	FP16050	4.6	FP050C	3.7	FP16050C	4.6
DN63	FP063	4.7	FP16063	5.8	FP063C	4.7	FP16063C	5.8
DN75	FP075	5.6	FP16075	6.8	-	-	-	-
DN90	FP090	6.7	FP16090	8.2	-	-	-	-
DN110	FP110	8.1	FP16110	10.0	-	-	-	-
DN125	FP125	9.2	FP16125	10.3	-	-	-	-
DN160	FP160	11.8	FP16160	13.1	-	-	-	-
DN180	FP180	13.3	FP16180	14.8	-	-	-	-
DN200	FP200	14.7	FP16200	16.3	-	-	-	-

Product List

PE Socket Fusion Fittings & Tools

EQUAL SOCKET



Code	Size
FYSS020	20x20
FYSS025	25x25
FYSS032	32x32
FYSS040	40x40
FYSS050	50x50
FYSS063	63x63
FYSS075	75x75
FYSS090	90x90
FYSS110	110x110

EQUAL TEE



Code	Size
FYST020	20x20x20
FYST025	25x25x25
FYST032	32x32x32
FYST040	40x40x40
FYST050	50x50x50
FYST063	63x63x63
FYST075	75x75x75
FYST090	90x90x90
FYST110	110x110x110

REDUCING SOCKET



Code	Size
FYSRS025020	25x20
FYSRS032020	32x20
FYSRS032025	32x25
FYSRS040020	40x20
FYSRS040025	40x25
FYSRS040032	40x32
FYSRS050020	50x20
FYSRS050025	50x25
FYSRS050032	50x32
FYSRS050040	50x40
FYSRS063020	63x20
FYSRS063025	63x25
FYSRS063032	63x32
FYSRS063040	63x40
FYSRS063050	63x50
FYSRS075040	75x40
FYSRS075050	75x50
FYSRS075063	75x63
FYSRS090050	90x50
FYSRS090063	90x63
FYSRS090075	90x75
FYSRS110063	110x63
FYSRS110075	110x75
FYSRS110090	110x90

REDUCING TEE



Code	Size
FYSRT025020	25x20x25
FYSRT032020	32x20x32
FYSRT032025	32x25x32
FYSRT040020	40x20x40
FYSRT040025	40x25x40
FYSRT040032	40x32x40
FYSRT050020	50x20x50
FYSRT050025	50x25x50
FYSRT050032	50x32x50
FYSRT050040	50x40x50
FYSRT063032	63x32x63
FYSRT063040	63x40x63
FYSRT063050	63x50x63
FYSRT075040	75x40x75
FYSRT075050	75x50x75
FYSRT075063	75x63x75
FYSRT090050	90x50x90
FYSRT090063	90x63x90
FYSRT090075	90x75x90
FYSRT110063	110x63x110
FYSRT110075	110x75x110
FYSRT110090	110x90x110

EQUAL ELBOW



Code	Size
FYS90L020	20x20
FYS90L025	25x25
FYS90L032	32x32
FYS90L040	40x40
FYS90L050	50x50
FYS90L063	63x63
FYS90L075	75x75
FYS90L090	90x90
FYS90L110	110x110

REDUCING ELBOW



Code	Size
FRL025020	25x20
FRL032020	32x20
FRL032025	32x25

END CAP



Code	Size
FYSEC020	20
FYSEC025	25
FYSEC032	32
FYSEC040	40
FYSEC050	50
FYSEC063	63
FYSEC075	75
FYSEC090	90
FYSEC110	110

FLANGE SOCKET



Code	Size
FYSFA040	40
FYSFA050	50
FYSFA063	63
FYSFA075	75
FYSFA090	90
FYSFA110	110

ELBOW 45°



Code	Size
FYS45L020	20x45°
FYS45L025	25x45°
FYS45L032	32x45°
FYS45L040	40x45°
FYS45L050	50x45°
FYS45L063	63x45°
FYS45L075	75x45°
FYS45L090	90x45°
FYS45L110	110x45°

MALE SOCKET



Code	Size
FYSMTC020015	20x1/2"
FYSMTC020020	20x3/4"
FYSMTC025015	25x1/2"
FYSMTC025020	25x3/4"
FYSMTC032020	32x3/4"
FYSMTC032025	32x1"
FYSMTC040032	40x1 1/4"
FYSMTC050040	50x1 1/2"
FYSMTC063050	63x2"
FYSMTC075065	75x2 1/2"
FYSMTC090080	90x3"
FYSMTC110100	110x4"

FEMALE SOCKET



Code	Size
FYSFTC020015	20x1/2"
FYSFTC020020	20x3/4"
FYSFTC025015	25x1/2"
FYSFTC025020	25x3/4"
FYSFTC032020	32x3/4"
FYSFTC032025	32x1"
FYSFTC040032	40x1 1/4"
FYSFTC050040	50x1 1/2"
FYSFTC063050	63x2"

MALE ELBOW



Code	Size
FYSMTL020015	20x1/2"
FYSMTL020020	20x3/4"
FYSMTL025015	25x1/2"
FYSMTL025020	25x3/4"
FYSMTL032020	32x3/4"
FYSMTL032025	32x1"

FEMALE ELBOW



Code	Size
FYSFTL020015	20x1/2"
FYSFTL020020	20x3/4"
FYSFTL025015	25x1/2"
FYSFTL025020	25x3/4"
FYSFTL032020	32x3/4"
FYSFTL032025	32x1"

MALE TEE



Code	Size
FYSMTT020015	20x1/2"x20
FYSMTT025015	25x1/2"x25
FYSMTT025020	25x3/4"x25
FYSMTT032020	32x3/4"x32
FYSMTT032025	32x1"x32
FYSMTT040032	40x1 1/4"x40
FYSMTT050040	50x1 1/2"x50
FYSMTT063050	63x2"x63

FEMALE TEE



Code	Size
FYSFTT020015	20x1/2"x20
FYSFTT025015	25x1/2"x25
FYSFTT025020	25x3/4"x25
FYSFTT032020	32x3/4"x32
FYSFTT032025	32x1"x32
FYSFTT040032	40x1 1/4"x40
FYSFTT050040	50x1 1/2"x50
FYSFTT063050	63x2"x63

STOP VALVE



Code	Size
FYSSV020	20
FYSSV025	25
FYSSV032	32
FYSSV040	40
FYSSV050	50
FYSSV063	63

CHROME HANDLE STOP VALVE



Code	Size
FYSSVC020	20
FYSSVC025	25
FYSSVC032	32
FYSSVC040 (F)	40

WELDER MACHINE



Code	Size
FYSWM020032	20-32
FYSWM020063	20-63
FYSWM075110	75-110

HEATING BUSHES



Code	Size
FYSHB020	20
FYSHB025	25
FYSHB032	32
FYSHB040	40
FYSHB050	50
FYSHB063	63
FYSHB075	75
FYSHB090	90
FYSHB110	110

PE REPAIRING ROD



Code	Size
FYSRR007011	7 & 11

REPAIRING BUSHES



Code	Size
FYSRB007	7
FYSRB011	11

COLD-RING



Code	Size
FYSCR020032	20-32
FYSCR040050	40-50
FYSCR063075	63-75
FYSCR090110	90-110

SINGLE-RING



Code	Size
FSR16020	20, PN16
FSR16025	25, PN16
FSR025	25, PN12.5
FSR032	32, PN12.5

ORBIT



Code	Size
FYSOB020063	20-63

EASY CUTTER



Code	Size
FPC020032	20 - 32

Product List

PE Electrofusion Fittings

EQUAL SOCKET



Code	Size
FYES063	63x63
FYES075	75x75
FYES090	90x90
FYES110	110x110
FYES125	125x125
FYES160	160x160
FYES180	180x180
FYES200	200x200
FYES225	225x225
FYES250	250x250
FYES280	280X280
FYES315	315x315
FYES355	355X355
FYES400	400X400
FYES450	450X450
FYES500	500X500
FYES630	630X630

EQUAL TEE



Code	Size
FYET063	63x63
FYET075	75x75
FYET090	90x90
FYET110	110x110
FYET125	125x125
FYET160	160x160
FYET180	180x180
FYET200	200x200
FYET225	225x225
FYET250	250x250
FYET280	280X280
FYET315	315x315

EQUAL ELBOW



Code	Size
FYE90L063	63x63
FYE90L075	75x75
FYE90L090	90x90
FYE90L110	110x110
FYE90L125	125x125
FYE90L160	160x160
FYE90L180	180x180
FYE90L200	200x200
FYE90L225	225x225
FYE90L250	250x250
FYE90L280	280x280
FYE90L315	315x315

ELBOW 45°



Code	Size
FYE45L063	63x63
FYE45L075	75x75
FYE45L090	90x90
FYE45L110	110x110
FYE45L125	125x125
FYE45L160	160x160
FYE45L180	180x180
FYE45L200	200x200
FYE45L225	225x225
FYE45L250	250x250
FYE45L280	280X280
FYE45L315	315x315

END CAP



Code	Size
FYEEC063	63
FYEEC075	75
FYEEC090	90
FYEEC110	110
FYEEC125	125
FYEEC160	160
FYEEC180	180
FYEEC200	200
FYEEC225	225
FYEEC250	250
FYEEC280	280
FYEEC315	315

LONG SPIGOT FLANGE ADAPTOR (STUB END)



Code	Size (B-RING)
FYBFA063L	63 (77)
FYBFA075L	75 (90)
FYBFA090L	90 (108)
FYBFA110L	110 (125)
FYBFA125L	125 (135)
FYBFA160L	160 (179)
FYBFA180L	180 (188)
FYBFA200L	200 (234)
FYBFA225L	225 (238)
FYBFA250L	250 (288)
FYBFA280L	280 (294)
FYBFA315L	315 (388)

REDUCING SOCKET



Code	Size
FYERS075063	75x63
FYERS090063	90x63
FYERS090075	90x75
FYERS110063	110x63
FYERS110075	110x75
FYERS110090	110x90
FYERS125063	125x63
FYERS125075	125x75
FYERS125090	125x90
FYERS125110	125x110
FYERS160063	160x63
FYERS160075	160x75
FYERS160090	160x90
FYERS160110	160x110
FYERS160125	160x125
FYERS180110 (KIT)	180x110
FYERS180125 (KIT)	180x125
FYERS180160 (KIT)	180x160
FYERS200090	200x090
FYERS200110	200x110
FYERS200125	200x125
FYERS200160	200x160
FYERS250110	250x110
FYERS250160	250x160
FYERS250180 (KIT)	250x180
FYERS250200	250x200
FYERS280200	280X200
FYERS315160	315x160
FYERS315200	315x200
FYERS315250	315x250

*(KIT) Denotes Spigot fittings Add On EF Coupler

LONG SPIGOT FEMALE SOCKET



*Smaller sizes are available upon request

Code	Size
FYEFTS063050	63x2"

LONG SPIGOT MALE SOCKET



*Smaller sizes are available upon request

Code	Size
FYEMTS025020	25x3/4"
FYEMTS032023	32x1"
FYEMTS063050	63x2"
FYEMTS075065	75x2 1/2"
FYEMTS090080	90x3"
FYEMTS110100	110x4"

REDUCING TEE



Code	Size
FYERT075063	75x63x75
FYERT090063	90x63x90
FYERT090075	90x75x90
FYERT110063	110x63x110
FYERT110075	110x75x110
FYERT110090	110x90x110
FYERT125063	125x63x125
FYERT125075	125x75x125
FYERT125090	125x90x125
FYERT125110	125x110x125
FYERT160063	160x63x160
FYERT160075	160x75x160
FYERT160090	160x90x160
FYERT160110	160x110x160
FYERT160125	160x125x160
FYERT180063	180x63x180
FYERT180075	180x75x180
FYERT180090	180x90x180
FYERT180110	180x110x180
FYERT180125	180x125x180
FYERT180160	180x160x180
FYERT200063	200x63x200
FYERT200075	200x75x200
FYERT200090	200x90x200
FYERT200110	200x110x200
FYERT200125	200x125x200
FYERT200160	200x160x200
FYERT225075	225X75X225
FYERT225090	225X90X225
FYERT225110	225X110X225
FYERT225160	225X160X225
FYERT250090	250x90x250
FYERT250110	250x110x250
FYERT250160	250x160x250
FYERT250200	250x200x250
FYERT280110	280X110X280
FYERT280200	280X200X280
FYERT315110	315X110X315
FYERT315160	315x160x315
FYERT315200	315x200x315
FYERT315250	315x250x315

Product Warranty

FENGYE provides warranty to its products that are free of defects in workmanship under normal use and service provided. Warranty only applies when products are used for the purpose or conditions for which they are intended.

This warranty shall not be applied to any of our products that have been altered, repaired and/or used in any way, stored in unprotected conditions, or have been subjected to misuse, negligence, accident and/or have not been installed in accordance to installation instructions.

Installation of FENGYE PE Socket Fusion Fittings recommends the use of our tailor made welding bushes (for sizes 20mm - 110mm); also recommended are three enhancement features incorporated which are the Cold-ring (for sizes 20m - 110mm), Orbit (for sizes 20mm - 110mm), and Pipe-stiffener for wall thickness below 3mm.

For bigger pipe sizes, installation of FENGYE PE Electrofusion Fittings requiring 39.5V power source to fuse, is to be carried out using our supplied or equivalent approved brand of electrofusion welding machine. Our Welding machine is rated at 3.5kW output power and 75V output voltage with temperature compensating feature, operating at 230/240 VAC requiring power supplied through a portable power generator rated at 6.5kW (minimum). If pipe is found to be more than 1.5% out of roundness, the use of RE-round Clamp is required to ensure proper installation. The fused area on pipe must be peeled and cleaned prior to insertion into the fitting.

Installation instruction must be adhered to, or our Product Warranty is null and void. Installation of electrofusion fittings must be carried out by properly trained and qualified operator(s) and/or by witness of the factory representative.

The obligation of FENGYE under this warranty shall be limited to replacement of any parts that may prove defective under normal use.

FENGYE shall have the rights to inspect the said product(s) and purchaser shall, if requested, return defective product(s) prepaid to us. Purchaser shall assume all responsibility and expenses for removal, reinstallation and freight charges in conjunction with the foregoing remedy.

FENGYE shall not be liable for indirect, special, incidental or consequential damage or penalties and does not assume any liability of purchaser to others, or to anyone for injury to persons and/or damage to property.

Any claim regarding shortages or damage from shipment of product(s) must be submitted in writing to us within 10 days after receipts of shipment. Buyer shall note loss or damage on delivery order and provide a delivery receipt stating such with driver's signature.

Purchaser is responsible for passing on this Limited Warranty to all respective customers.

In addition, FENGYE is in its best effort to offer the Product Liability Assurance up to the RM1,000,000.00 annually for 10 years at the time of purchase that covers the losses to the 3rd parties in any forms of injury and property damages. However, the amount of insured sums and scopes of coverage is upon revision base on the on-going changes of market needs and situations without prior notice.

Fengye Piping (M) Sdn. Bhd. has been set-up in Malaysia to promote, manage and distribute 'FENGYE' brand of products in our region since August 2018. Backed by our world-class manufacturing facility in China, as well as cooperation with local and overseas OEM partners we continue to innovate and develop new products, techniques, solutions and to leverage well on the best value for money.

Fengye HDPE Piping Systems is our key product which covers the widest range in the piping industry, under one-system with FUSION Jointing Method and warranty under one brand. We are the first to offer such a product combination and concept in the market.

- HDPE Pipes (DN20 – DN400) rated PN12.5 and PN16
- HDPE Socket Fusion Fittings (DN20 – DN110) rated PN16
- HDPE Electrofusion Fittings (DN63 – DN400) rated PN16
- HDPE Stop Valves (DN20 – DN63) rated PN16, Chrome Accessories Option for sizes DN20 – DN32

In terms of product application, we have heavy emphasis on both 'EFFICIENCY' and 'SUSTAINABILITY' aspects. This is done in order to achieve our 'GREEN' policy terms, whereby our definition of 'GREEN' comes from highly efficient work that avoids mistakes and reduces wastage, with the right application at lower cost but maintain similar or better quality, thus ensuring long life-span performance that reduces replacement or maintenance costs.

For our pipe selection, they come in straight or coiled forms, along with different pressure ratings. For smaller and thinner pipe sizes, we offer essential features that strengthens the pipe structure in order to create a stable jointing process. As for the choice of socket fusion or electrofusion jointing within the overlapping ranges of DN63 – DN110, we recommend the fusion application method based on ease-of-installation and pre-jointing preparation against labor and product costing.

Fusion jointing method has proven to be the most reliable and robust systems, and able to achieve best long-term performance. Apart from our comprehensive and high-quality products we offer, we also provide the right processing tools and machines to produce quality joints by allowing more efficient work. Additional enhancements have been developed and implemented into the product line such as Handy Socket Fusion Welder, Orbit, Cold-ring, Light-weight EF Welder, Light-weight Chain Peeler, Light-weight Alignment Clamp, etc.

At 'FENGYE', we listen and provide our valued customers with quality and satisfactory products, services and solutions. We continue to strive for excellency by expanding on new products and solutions, enhanced features and techniques, streamlining efficiency and innovating new ideas based on valuable feedback and market trends.

"Mind Local, Set Global"



FENGYE PIPING (M) SDN. BHD. (1290947-T)

Lot 1294, Jalan KPAT 1, Kawasan Perindustrian Ampang Tambahan, 68000 Ampang, Selangor, Malaysia.
Tel: +603-4297 9000 Fax: +603-4297 9001 Email: info@fengye.com.my

www.fengye.com.my