



Henan LuKuang Industry Co., Ltd.

Professional Supplier of Pipeline Products & Engineering Equipment

Henan LuKuang Industry Co., Ltd. is a professional international supplier specializing in HDPE pipes & fittings, PVC pipes & fittings, and pipeline construction equipment.

Relying on a stable supply chain and strict quality system, we provide one-stop pipeline system solutions for global customers in municipal engineering, water supply & drainage, petrochemical, agricultural irrigation, power & communication, mining and other fields.

Adhering to quality as the core and service as the guarantee, we are committed to being a long-term and reliable partner for overseas customers.

HENAN LUKUANG



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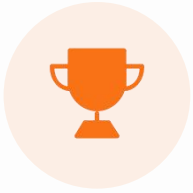
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Strength Forges Quality; Expertise Connects to the Future.



Market Leader

Henan LuKuang Industry Co., Ltd. specializes in providing high-quality HDPE and PVC piping system solutions for road, mining, and related infrastructure construction.



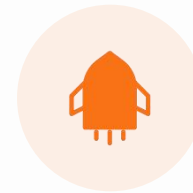
Core Values

We offer not merely products, but comprehensive, one-stop solutions. Leveraging exceptional product performance, a robust supply chain, and expert technical services, we strive to be your most trusted partner.



Product Advantages

Featuring exceptional corrosion resistance, an ultra-long service life, convenient installation, and superior hydraulic performance, it perfectly meets the rigorous environmental challenges of the road and mining industries.



Strategic Vision

Through continuous innovation and deep industry engagement, we leverage leading pipeline technologies to drive the high-quality development of China's infrastructure, working together to create a brighter future for the industry.



Four Core Advantages: Earning Industry Trust



Exceptional Supply Chain Integration Capabilities

We have established long-term strategic partnerships with the world's leading pipe manufacturers to ensure a stable product supply, control quality at the source, and build a robust foundation for our supply chain.



A Professional Team Deeply Rooted in the Industry

Bringing together seasoned technical and sales elites from the road and mining sectors, we gain precise insights into client pain points and deliver customized, professional services—from solution design through to implementation.



Rigorous Quality Control System

Our entire product line holds ISO international certification and is supported by rigorous internal precision quality inspection processes; through multi-layered scrutiny, we ensure that all delivered products meet the highest industry standards.



Comprehensive Technical Support and After-Sales Service

We provide project design, on-site installation guidance, and full-lifecycle maintenance, while ensuring rapid response to after-sales needs—thereby safeguarding the smooth implementation of our clients' projects every step of the way.



Henan Lukuang Industry Co., Ltd.: Your Professional Pipeline System Partner



Company Positioning

Specializing in the road and mining sectors, we are dedicated to introducing world-leading pipeline technologies and products. With a deep understanding of fluid transport requirements, we provide end-to-end solutions—ranging from product selection and technical support to on-site services.



Brand Philosophy

Guided by the core values of "Professionalism, Reliability, Innovation, and Mutual Success," we remain committed to providing products that have undergone rigorous quality verification, and we dedicate ourselves fully to ensuring the safe implementation and efficient operation of every engineering project.



Service Network

Leveraging Henan's strategic central location, we have established a nationwide sales and service network. This enables us to respond rapidly to customer needs and provide seamless, localized professional technical support and after-sales service.





Product Introduction



PPR purple antibacterial tube



PPR emerald home installation pipe



PPR white pipe



PPR grey pipe



PE-RT underfloor heating pipe



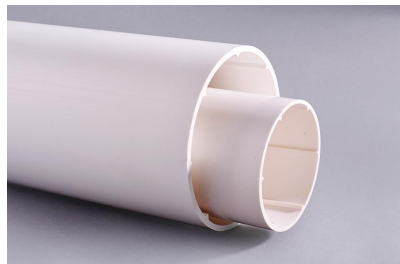
PE-RT chocolate floor heating pipe



PVC-U red blue conduit



PVC-U drainage pipe



PVC-U spiral silencer pipe



CPVC ordinary power cable conduit



Polybutene PB pipe



PVC-U electrical conduit
for buildings



Product Introduction



Plum blossom tube



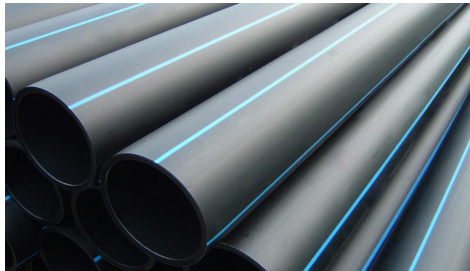
NF - β PPR pipe



NF - β crystal PPR pipe



HDPE double wall corrugated pipe



PE water supply pipe



PE gas pipe



PVC-U double wall corrugated pipe



PVC-M environmentally friendly water supply pipe



MPP power cable conduit



PP silent drainage pipe



PVC-U buried sewage pipe



PE-RT oxygen barrier tube



PE Water Supply Pipe



Product Overview

Our PE Water Supply Pipe is a high-performance, eco-friendly solution crafted from premium HDPE (PE80/PE100) raw materials, produced via advanced extrusion technology. It is specifically designed for seamless water transmission, catering to a wide range of scenarios and becoming the first choice for modern water supply projects worldwide.

Application Scenarios

Versatile and adaptable, our PE Water Supply Pipe is widely used in various fields, including urban and rural drinking water supply networks, residential and commercial building water supply systems, garden and agricultural irrigation projects, as well as industrial and mining area water transmission, meeting diverse water delivery needs with excellent performance.

Core Advantages

- Non-Toxic & Hygienic – Meets international drinking water standards, no harmful additives.
- Super Durable – Corrosion/impact-resistant, 50+ years service life, better than traditional pipes.
- Highly Flexible – Bendable, coilable, no cracking during transport and installation.
- Energy-Saving – Smooth inner wall, low flow resistance, high transmission efficiency.
- Easy to Install – Lightweight, reliable hot-melt connections, saving time and labor.
- Eco-Friendly – Recyclable materials, conforming to low-carbon sustainable development.



Product Specifications

The HDPE pipes and fittings manufactured by Lukuang Trading Company are suitable for use in water supply, drainage, and pressurized sewage systems.

Their production strictly adheres to various relevant standards, including:

ISO 4427, GB/T 13663, EN 12201, AS/NZS 4130, DIN 8074, GOST 18599, ASTM D3035,

ASTM F714, DIPS, IPS, etc.

ISO 4427-2 Series Pipes

ISO 4427 Pipe Series		\$ 3.2	\$ 4	\$ 5	\$ 6.3	\$ 8	\$ 10	\$ 12.5	\$ 16
ASTM F774DR		DR 7.4	DR 9	DR 11	DR 13.5	DR 17	DR 21	DR 26	DR 33
Nominal Pressure PE100		PN25	PN20	PN16	PN12.5	PN10	PN8	PN6	PN5
Nominal Size DN(mm)	Equiv Size (in)	Min T.W. (mm)	Min T.W. (mm)	Min T.W. (mm)	Min T.W. (mm)	Min T.W. (mm)	Min T.W. (mm)	Min T.W. (mm)	Min T.W. (mm)
20	0.79	3	2.3	2	1.5	1.2	1	0.6	0.61
25	0.98	3.5	3	2.3	2	1.5	1.2	0.8	0.76
32	1.26	4.4	3.6	3	2.4	2	1.5	1	0.97
40	1.57	5.5	4.5	3.7	3	2.4	2	1.2	1.21
50	1.97	6.9	5.6	4.6	3.7	3	2.4	2	1.52
63	2.48	8.6	7.1	5.8	4.7	3.8	3	2.5	1.91
75	2.95	10.3	8.4	6.8	5.6	4.5	3.6	2.9	2.27
90	3.54	12.3	10.1	8.2	6.7	5.4	4.3	3.5	2.73
110	4.33	15.1	12.3	10	8.1	6.6	5.3	4.2	3.33
125	4.92	17.1	14	11.4	9.2	7.4	6	4.8	3.79
140	5.51	19.2	15.7	12.7	10.3	8.3	6.7	5.4	4.24
160	6.3	21.9	17.9	14.6	11.8	9.5	7.7	6.2	4.85
180	7.09	24.6	20.1	16.4	13.3	10.7	8.6	6.9	5.45
200	7.87	27.4	22.4	18.2	14.7	11.9	9.6	7.7	6.06
225	8.86	30.8	25.2	20.5	16.6	13.4	10.8	8.6	6.82
250	9.84	34.2	27.9	22.7	18.4	14.8	11.9	9.6	7.58
280	11.02	38.3	31.3	25.4	20.6	16.6	13.4	10.7	8.48
315	12.4	43.1	35.2	28.6	23.2	18.7	15	12.1	9.7
355	13.98	48.5	39.7	32.2	26.1	21.1	16.9	13.6	10.9
400	15.75	54.7	44.7	36.3	29.4	23.7	19.1	15.3	12.3
450	17.72	61.5	50.3	40.9	33.1	26.7	21.5	17.2	13.8
500	19.69	67.6	55.8	45.4	36.8	29.7	23.9	19.1	15.3
560	22.05	75.7	62.5	50.8	41.2	33.2	26.7	21.4	17.2
630	24.8	85.1	70.3	57.2	46.3	37.4	30	24.1	19.3
710	27.95	95.9	79.3	64.5	52.2	42.1	33.9	27.2	21.8
800	31.5		89.3	72.6	58.8	47.4	38.1	30.6	24.5
900	35.43			81.7	66.2	53.3	42.9	34.4	27.6
1000	39.37			90.2	72.5	59.3	47.7	38.2	30.6
1200	47.24				88.2	67.9	57.2	45.9	36.7
1400	55.12				102.9	82.4	66.7	53.5	42.9

This product flyer is intended for reference purposes. It should not be used in place of the advice from a licensed Professional Engineer. Nominal pressure (PN) is based on C = 1.25 and an operating temperature of 20°C. Weight is calculated using DN and Minimum wall plus 6% for use in estimating fluid flow. Actual ID will vary. When designing components to fit the pipe ID, refer to pipe dimensions and tolerances in the applicable pipe manufacturing specification. To obtain pressure in psi, multiply bar by 14.5 (1 bar ~ 14.5 psi).

EN 12201-2:2011 Pipe Series

(The Specification on the Standard DIN8074/8075, GOST 18599 are same with EN12201)

	SDR6	SDR7.4	SDR5	SDR11	SDR13.6	SDR17	SDR21	SDR26	SDR33	SDR41
	S2.5	S3.2	S4	S5	S6.3	S8	S10	S12.5	S16	S20
Nominal Pressure, PN * in Bar										
PE80	PN25	PN20	PN15	PN12.5	PN10	PN8	PN6	PN5	PN4	PN3.2
PE100	PN32	PN25	PN20	PN16	PN12.5	PN10	PN8	PN5	PN5	PN4
Nom. Size DN/OD	Wall Thickness ^b									
	e min	e min	e min	e min	e min	e min	e min	e min	e min	e min
16	3	2.3	2	-	-	-	-	-	-	-
20	3.4	3	2.3	2	2	-	-	-	-	-
25	4.2	3.5	3	2.3	2.4	-	-	-	-	-
32	5.4	4.4	3.6	3	3	2	-	-	-	-
40	6.7	5.5	4.5	3.7	3.7	2.4	2	-	-	-
50	8.3	6.9	5.6	4.6	4.7	3	2.4	2	-	-
63	10.5	8.6	7.1	5.8	5.6	3.8	3	2.5	-	-
75	12.5	10.3	8.4	6.8	6.7	4.5	3.6	2.9	-	-
90	15	12.3	10.1	8.2	8.1	5.4	4.3	3.5	-	-
110	18.3	15.1	12.3	10	9.2	6.6	5.3	4.2	-	-
125	20.8	17.1	14	11.4	10.3	7.4	6	4.8	-	-
140	23.3	19.2	15.7	12.7	11.8	8.3	6.7	5.4	-	-
160	26.6	21.9	17.9	14.6	13.3	9.5	7.7	6.2	-	-
180	29.9	24.6	20.1	16.4	14.7	10.7	8.6	6.9	-	-
200	33.2	27.4	22.4	18.2	16.6	11.9	9.6	7.7	-	-
225	37.4	30.8	25.2	20.5	18.4	13.4	10.8	8.6	-	-
250	41.5	34.2	27.9	22.7	20.6	14.8	11.9	9.6	-	-
280	46.5	38.3	31.3	25.4	23.2	16.6	13.4	10.7	-	-
315	52.3	43.1	35.9	28.6	26.1	18.7	15	12.1	9.7	7.7
355	59	48.5	39.7	32.2	29.4	21.1	16.9	13.6	10.9	8.7
400	-	54.7	44.7	36.6	33.1	23.7	19.1	15.3	12.3	9.8
450	-	61.5	50.3	40.9	36.8	26.7	21.5	17.2	13.8	11
500	-	67.6	55.8	45.4	41.2	29.7	23.9	19.1	15.3	12.3
560	-	75.7	62.5	50.8	46.3	33.2	26.7	21.4	17.2	13.7
630	-	85.1	70.3	57.2	52.2	37.4	30	24.1	19.3	15.4
710	-	95.9	79.3	64.5	58.8	41.2	33.9	27.2	21.8	17.4
800	-	-	89.3	72.6	66.1	47.4	38.1	30.6	24.5	19.6
900	-	-	-	81.7	73.4	53.3	42.9	34.4	27.6	22
1000	-	-	-	90.8	88.2	59.3	47.7	38.2	30.6	24.5
1200	-	-	-	-	102.9	71.1	57.2	45.9	36.7	29.4
1400	-	-	-	-	117.5	83	66.7	53.5	42.9	34.3
1600	-	-	-	-	-	94.8	76.2	61.2	49	39.2
1800	-	-	-	-	-	106.6	85.5	68.8	55.1	44
2000	-	-	-	-	-	118.4	95.3	76.4	61.2	48.9
2250	-	-	-	-	-	-	107.2	86	70	55
2500	-	-	-	-	-	-	119.1	95.6	77.7	61.2

a PN Values are based on C=1.25.

b Tolerance in accordance with grade V of ISO11922-7



Standard Dimension Ratios (SDRs) for AS/NZS 4130: 2009 Pipe Series

	Mean Outside diameter(Dm)			Maximum out of roundness	PN25	PN20	PN16	PN12.5	PN10	PN8	PN6.3	PN4	PN3.2
PES0					-	SDR7.4	SDR9	SDR11	SDR13.6	SDR17	SDR21	SDR33	SDR41
PE100					SDR7.4	SDR9	SDR11	SDR13.6	SDR17	SDR21	SDR25	SDR41	-
Nom. Size	Wall Thickness(7)												
DN/OD	Min.	Max.		Min.	Min.	Min.	Min.	Min.	Min.	Min.	Min.	Min.	Min.
16	16	16.3	1.2	2.2	1.8	1.6		-	-	-	-	-	-
20	20	20.3	1.2	2.8	2.3	1.9	1.6	-	-	-	-	-	-
25	25	25.3	1.2	3.5	2.8	2.3	1.9	1.6		-	-	-	-
32	32	32.3	1.3	4.4	3.6	2.9	2.4	1.9	1.6	-	-	-	-
40	40	40.4	1.4	5.5	4.5	3.7	3	2.4	1.9	-	-	-	-
50	50	50.5	1.4	6.9	5.6	4.6	3.7	3	2.4	2	-	-	-
63	63	63.6	1.5	8.6	7.1	5.8	4.7	3.8	3	2.4	-	-	-
75	75	75.7	1.6	10.3	8.4	6.8	5.5	4.5	3.6	2.9	2.3	-	-
90	90	90.9	1.8	12.3	10.1	8.2	6.6	5.4	4.3	3.5	2.3	-	-
110	110	111	2.2	15.1	12.3	10	8.1	6.6	5.3	4.3	3.4	2.7	-
125	125	126.2	2.5	17.1	14	11.4	9.2	7.4	6	4.8	3.9	3.1	-
140	140	141.3	2.8	19.2	15.7	12.7	10.3	8.3	6.7	5.4	4.3	3.5	-
160	160	161.5	3.2	21.9	17.9	14.6	11.8	9.5	7.7	6.2	4.9	4	-
180	180	181.7	3.6	24.6	20.1	16.4	13.3	10.7	8.6	6.9	5.5	4.4	-
200	200	201.8	4	27.4	22.4	18.2	14.7	11.9	9.6	7.7	6.2	4.9	-
225	225	227.1	4.5	30.8	25.2	20.5	16.6	13.4	10.8	8.6	6.9	5.5	-
250	250	252.3	5	34.2	27.9	22.7	18.4	14.8	11.9	9.6	7.7	6.2	-
280	280	282.6	9.8	38.3	31.3	25.4	20.6	16.6	13.4	10.7	8.6	6.9	-
315	315	317.9	11.1	43.1	35.9	28.6	23.2	18.7	15	12.1	9.7	7.7	-
355	355	358.2	12.5	48.5	39.7	32.2	26.1	21.1	16.9	13.6	10.9	8.7	-
400	400	403.6	14	54.7	44.7	36.6	29.4	23.7	19.1	15.3	12.3	9.8	-
450	450	454.1	15.6	61.5	50.3	40.9	33.1	26.7	21.5	17.2	13.8	11	-
500	500	504.5	17.5	67.6	55.8	45.4	36.8	29.6	23.9	19.1	15.3	12.3	-
560	560	565	19.6	75.7	62.5	50.8	41.2	33.2	26.7	21.4	17.2	13.7	-
630	630	635.7	22.1	85.1	70.3	57.2	46.3	37.3	30	24.1	19.3	15.4	-
710	710	716.4	24.9	95.9	79.3	64.5	52.2	41.2	33.9	27.2	21.8	17.4	-
800	800	807.2	28	-	99.3	72.6	58.8	47.4	38.1	30.6	24.5	19.6	-
900	900	908.1	31.5	-	-	81.7	66.1	53.3	42.9	34.4	27.6	22	-
1000	1000	1009	35	-	-	90.2	73.4	59.3	47.7	38.2	30.6	24.5	-
1200	1200	1210	42	-	-	-	88.2	67.9	57.2	45.9	36.7	29.4	-
1400	1400	1410	49	-	-	-	102.9	82.4	66.7	53.2	42.9	34.4	-
1600	1600	1610.2	56	-	-	-	117.6	91.4	76.2	61.3	49	39.3	-
1800	1800	1816.2	-	-	-	-	-	105.9	85.5	69.1	54.5	43.8	-
2000	2000	2018	-	-	-	-	-	117.6	95.2	76.9	60.6	48.8	-

AS/NZS 4130: 2009 Pipe Series are classified in terms of the nominal pressure rating (PN). The number used to describe PN is 10 times the value of the maximum allowable operating pressure (MAOP) at 20°C based on C = 1.25 and given in megapascals.

Iron Pipe Size (IPS) and Dimension Data

ASTM D-3035-03, Standard Specification for Polyethylene (PE) Plastic Pipe (DR-PR) Based on

Controlled Outside Diameter.

ASTM F-714-03, Standard Specification for Polyethylene (PE) Plastic Pipe (SDR-PR) Based on

Outside Diameter.

PRESSURE RATING 3408			DR7.3	DR9	DR11	DR13.5	DR17	DR21	DR26	DR32.5
			255 PSI	200 PSI	160 PSI	128 PSI	100 PSI	80 PSI	65 PSI	50 PSI
PRESSURE RATING 4710			DR7.3	DR9	DR11	DR13.5	DR17	DR21	DR26	DR32.5
			320 PSI	252 PSI	202 PSI	160 PSI	125 PSI	100 PSI	80 PSI	63 PSI
IPS Pipe Size (in)	Nominal OD (in)	Nominal OD (mm)	Minimum Wall (in)							
1/2	0.84	21.34	0.12	0.093	0.076	0.062	0.062	0.062	0.062	0.062
3/4"	1.05	26.67	0.15	0.117	0.095	0.078	0.062	0.062	0.062	0.062
1"	1.315	33.4	0.188	0.146	0.12	0.097	0.077	0.062	0.062	0.062
1 1/4"	1.66	42.16	0.227	0.184	0.151	0.123	0.098	0.079	0.064	0.062
1 1/2"	1.9	48.26	0.26	0.211	0.173	0.141	0.112	0.09	0.073	0.062
2"	2.375	60.33	0.325	0.264	0.216	0.176	0.14	0.113	0.091	0.073
3"	3.5	88.9	0.479	0.389	0.318	0.259	0.206	0.167	0.135	0.108
4"	4.5	114.3	0.616	0.5	0.409	0.333	0.265	0.214	0.173	0.138
5"	5.563	141.3	0.762	0.618	0.506	0.412	0.327	0.265	0.214	0.171
6"	6.625	168.28	0.908	0.736	0.602	0.491	0.39	0.315	0.255	0.204
8"	8.625	219.08	1.182	0.958	0.784	0.639	0.507	0.411	0.332	0.265
10"	10.75	273.05	1.473	1.194	0.977	0.796	0.632	0.512	0.413	0.331
12"	12.75	323.85	1.747	1.417	1.159	0.944	0.75	0.607	0.49	0.392
14"	14	355.6	1.918	1.556	1.273	1.037	0.824	0.667	0.538	0.431
16"	16	406.4	2.192	1.778	1.455	1.185	0.941	0.762	0.615	0.492
18"	18	457.2	2.466	2	1.636	1.333	1.059	0.857	0.692	0.554
20"	20	508	2.74	2.222	1.818	1.481	1.176	0.952	0.769	0.615
22"	22	558.8	3.014	2.444	2	1.63	1.294	1.048	0.846	0.677
24"	24	609.6	3.288	2.667	2.182	1.778	1.412	1.143	0.923	0.738
26"	26	660.4		2.889	2.364	1.926	1.529	1.238	1	0.8
28"	28	711.2		3.111	2.545	2.074	1.647	1.333	1.077	0.862
30"	30	762		3.333	2.727	2.222	1.765	1.429	1.154	0.923
32"	32	812.8			2.909	2.37	1.882	1.524	1.231	0.985
34"	34	863.6			3.091	2.519	2	1.619	1.308	1.046
36"	36	914.4			3.273	2.667	2.118	1.714	1.385	1.108
42"	42	1066.8				3.111	2.471	2	1.615	1.292
48"	48	1219.2					2.824	2.286	1.846	1.477
54"	54	1371.6						2.571	2.077	1.662
63"	63	1600.2						3	2.423	1.938
65"	65	1651						3.095	2.5	2

Pressure Ratings are calculated using 0.63 design factor for HDS at 73°F as listed in PPI TR-4 for PE 4710 materials. HDPE can accommodate up to 1.5 times the pipe pressure rating for a recurring surge and up to 2.0 times the pipe pressure rating for an occasional surge. Temperature, Chemical, and Environmental use considerations may require use of additional design factors.



Ductile Iron Pipe Size (DIPS) and Dimension Data PE4710 (Pe3408)

Pressure Rating		335 psi		250 psi		200 psi		160 psi		PE8710
		DR 2.0		DR 9.0		DR 11.0		DR 13.5		(PE3408)
Nominal Pipe Size	DIPS OD (in)	Minimum Wall (in)	Weight (lbs/ft)	Minimum Wall (in)	Weight (lbs/ft)	Minimum Wall (in)	Weight (lbs/ft)	Minimum Wall (in)	Weight (lbs/ft)	Nominal
4"	4.8	0.686	3.87	0.533	3.13	0.436	2.62	0.356	2.18	4"
6"	6.9	0.986	8	0.767	6.47	0.627	5.42	0.511	4.5	6"
8"	9.05	1.293	13.76	1.006	11.13	0.823	9.32	0.67	7.75	8"
10"	11.1	1.586	20.7	1.233	16.74	1.009	14.03	0.822	11.66	10"
12"	13.2	1.886	29.27	1.467	23.67	1.2	19.84	0.978	16.48	12"
14"	15.3	2.186	39.33	1.7	31.8	1.391	26.65	1.133	22.15	14"
16"	17.4	2.486	50.87	1.933	41.13	1.582	34.47	1.289	28.64	16"
18"	19.5	2.786	63.89	2.167	51.66	1.773	43.29	1.444	35.97	18"
20"	21.6			2.4	63.38	1.964	53.12	1.6	44.14	20"
24"	25.8			2.867	90.43	2.345	75.78	1.911	62.97	24"
30"	32					2.909	116.58	2.37	96.87	30"
36"	38.3					3.482	167.01	2.837	138.77	36"
42"	44.5							3.296	187.33	42"

Pressure Rating		125 psi		100 psi		80 psi		63 psi		PE4710
		DR 17.0		DR 21.0		DR 26.0		DR 32.5		(PE3408)
Nominal Pipe Size	DIPS OD (in)	Minimum Wall (in)	Weight (lbs/ft)	Minimum Wall (in)	Weight (lbs/ft)	Minimum Wall (in)	Weight (lbs/ft)	Minimum Wall (in)	Weight (lbs/ft)	Nominal
4"	4.8	0.282	1.76	0.229	1.45					4"
6"	6.9	0.406	3.64	0.329	2.99	0.265	2.43	0.212	1.96	6"
8"	9.05	0.532	6.26	0.431	5.13	0.348	4.19	0.278	3.37	8"
10"	11.1	0.653	9.42	0.529	7.73	0.427	6.3	0.342	5.09	10"
12"	13.2	0.776	13.31	0.629	10.93	0.508	8.91	0.406	7.19	12"
14"	15.3	0.9	17.88	0.729	14.68	0.588	11.96	0.471	9.66	14"
16"	17.4	1.024	23.15	0.829	18.98	0.669	15.48	0.535	12.48	16"
18"	19.5	1.147	29.07	0.929	23.84	0.75	19.44	0.6	15.69	18"
20"	21.6	1.271	35.88	1.029	29.25	0.831	23.86	0.665	19.26	20"
24"	25.8	1.518	50.89	1.229	41.73	0.992	34.03	0.794	27.46	24"
30"	32	1.882	78.26	1.524	64.18	1.231	52.37	0.985	42.26	30"
36"	38.3	2.253	112.13	1.824	91.93	1.473	75	1.178	60.49	36"
42"	44.5	2.618	151.39	2.119	124.09	1.712	101.28	1.369	81.68	42"

Pressure Ratings are calculated using 0.63 design factor for HDS at 73°F as listed in PPI TR-4 for PE 4710 materials. HDPE can accommodate up to 1.5 times the pipe pressure rating for a recurring surge and up to 2.0 times the pipe pressure rating for an occasional surge. Temperature, Chemical, and Environmental use considerations may require use of additional design factors.

This size and dimension chart is intended for reference purposes. It should not be used in place of the advice from a licensed Professional Engineer. Pipe weights are calculated in accordance with PPI TR-7. Average inside diameter is calculated using DIPS OD and Minimum wall plus 6% for use in estimating fluid flows. Actual ID will vary. When designing components to fit the pipe ID, refer to pipe dimension and tolerances in the applicable pipe manufacturing specification.

ISO 8772: 2006 Plastic piping systems for non-pressure underground drainage and sewerage — Polyethylene (PE)

PE100	-		SN2		SN4		SN8	
Nominal Size DN (mm)	SDR41		SDR33		SDR26		SD21	
	Thickness (mm)	Weight (kg/m)	Thickness (mm)	Weight (kg/m)	Thickness (mm)	Weight (kg/m)	Thickness (mm)	Weight (kg/m)
110	2.7	0.86	3.3	1.18	4.2	1.45	5.3	1.8
125	3	1.11	3.8	1.53	4.8	1.87	6	2.31
160	3.9	1.82	4.9	2.46	6.2	3.09	7.7	3.77
200	4.9	2.84	6.2	3.89	7.7	4.76	9.6	5.86
250	6.1	4.44	7.7	6	9.6	7.4	11.9	9.05
315	7.7	7.04	9.7	9.49	12.1	11.74	15	14.38
355	8.7	8.95	10.9	12	13.6	14.83	16.9	18.63
400	9.8	11.36	12.3	15.27	15.3	18.8	19.1	23.69
450	11	14.37	13.8	19.22	17.2	24.27	21.5	29.88
500	12.2	17.75	15.3	23.7	19.1	29.93	23.9	36.79
630	15.4	28.17	19.3	38.49	24.1	47.57	30	58.47
800	19.5	45.43	24.5	61.87	30.6	76.54	38.1	94.32
1000	24.4	70.98	30.6	96.49	38.2	119.73	47.7	147.44
1200	29.3	102.21	36.7	138.77	45.9	172.04	57.2	212.02
1400	34.1	139.12	42.9	173.67	53.5	226.2	66.7	279.24
1600	39	181.71	49	226.71	62.1	284.89	76.2	346.37
1800	43.9	229.98	54.5	283.77	69.1	356.78	85.7	438.25
2000	48.8	283.93	60.6	350.58	76.9	441.15	95.2	540.93

ISO 8772:2006 specifies the requirements for polyethylene (PE) pipes, fittings and piping systems intended for use for non-pressure underground drainage and sewerage for the conveyance of soil and waste discharge of domestic and industrial origin, as well as surface water. It covers buried pipework, as well as piping systems buried within the building structure. In the case of industrial discharge, it is necessary that the chemical and temperature resistance be taken into account, but this will need to be done separately. ISO 8772:2006 is applicable to PE pipes with or without an integral socket.



Application Scenarios



Portable Water



Mining



Industrial



Irrigation



Wastewater



Drainage



HDPE Pipe for Natural Gas & Oil



Product Overview

HDPE Pipe for Natural Gas & Oil is a high-performance pipeline, made of premium HDPE raw materials via advanced extrusion technology. It is designed for safe long-distance transmission of natural gas, crude oil and refined oil, complying with international standards such as API 5L and ISO 3183. Available in DN20mm-DN630mm, it can be customized according to pressure and environmental needs, widely used in urban gas supply, oilfield gathering and transportation.

Core Advantages

- Excellent Safety: Corrosion-resistant, no extra anti-corrosion treatment; hot-melt/electro-fusion connections ensure no leakage, suitable for high-pressure transmission, non-toxic and harmless.
- Strong Adaptability: High flexibility, can bend to avoid obstacles and adapt to geological subsidence; resistant to low temperature (-60°C), smooth inner wall reduces transmission resistance.
- Durable & Cost-Effective: Service life over 50 years, lightweight for easy transportation and construction; low maintenance cost, recyclable and eco-friendly.

Application Scenarios

It is widely used in urban natural gas distribution (residential, commercial, industrial areas), oilfield gathering and transportation of crude oil and refined oil, as well as gas/oil transmission in remote areas and harsh environments (permafrost, saline-alkali land), providing a safe and efficient solution.



Product Specifications

ISO4437-2: Plastics piping systems for the supply of gaseous fuels-olyethylene (PE)

Nominal Out-side diameter DN(mm)	Maximum out of roundness for straight pipes	Minimum Wall Thickness							
		e_{min}^a							
		SDR9	SDR11 ^b	SDR13.6	SDR17 ^b	SDR17.6 ^c	SDR21	SDR26	
16	1.2	3	2.3 ^d						
20	1.2	3	2.3 ^d						
25	1.2	3	2.3 ^d	2.3 ^d					
32	1.3	3.6	3	2.4 ^d	2.3 ^d	2.3 ^d			
40	1.4	4.5	3.7	3	2.4 ^d	2.3 ^d	2.3 ^d		
50	1.4	5.6	4.6	3.7	3	2.9	2.4 ^d	2.3 ^d	
63	1.5	7.1	5.8	4.7	3.8	3.6	3	2.5 ^d	
75	1.6	8.4	6.8	5.6	4.5	4.3	3.6	2.9 ^d	
90	1.8	10.1	8.2	6.7	5.4	5.2	4.3	3.5	
110	2.2	12.3	10	8.1	6.6	6.3	5.3	4.2	
125	2.5	14	11.4	9.2	7.4	7.1	6	4.8	
140	2.8	15.7	12.7	10.3	8.3	8	6.7	5.4	
150	3.2	17.9	14.6	11.8	9.5	9.1	7.7	6.2	
180	3.6	20.1	16.4	13.3	10.7	10.3	8.6	2.9	
200	4	22.4	18.2	14.7	11.9	11.4	9.6	7.7	
225	4.5	25.2	20.5	16.6	13.4	12.8	10.8	8.6	
250	5	27.9	22.7	18.4	14.8	14.2	11.9	9.6	
280	9.8	31.2	25.4	20.6	16.6	15.9	13.4	10.7	
315	11.1	35.2	28.6	23.2	18.7	17.9	15	12.1	
355	12.5	39.7	32.2	26.1	21.1	20.2	16.9	13.6	
400	14	44.7	36.3	29.4	23.7	22.8	19.1	15.3	
450	15.6	50.3	40.9	33.1	26.7	25.6	21.5	17.2	
500	17.5	55.8	45.4	36.8	29.7	28.4	23.9	19.1	
560	19.6	62.5	50.8	41.2	33.2	31.9	26.7	21.4	
630	22.1	70.3	57.2	46.3	37.4	35.8	30	24.1	

a $e_{min}=e_n$
b Preferred series.
c SDR17.6 series can be removed at the next revision of this International Standard.
d Minimum wall thickness values greater than limits of 2.3mm, 2.4mm, 2.5mm and 2.9mm can be imposed for practical reasons in accordance with national requirements. See manufacturer's files or national specification.

AS/NZS 4130 Series Pipes -Gas(Nominal Outside Diameter Series)

Nominal Out side diameter DN (mm)	Mean Outside Diameter Dm		Maximum out of roundness	Minimum Wall Thickness(T)											
				SDR9		SDR11		SDR13.6		SDR17		SDR21		SDR26	
	Min.	Max.		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
16	16	16.3	1.2	3	3.4	3	3.4	3	3.4	2.4	2.8	2.4	2.8	2.5	2.9
20	20	20.3	1.2	3	3.4	3	3.4	3	3.4	2.4	2.8	2.4	2.8	2.5	2.9
25	25	25.3	1.2	3	3.4	3	3.4	3	3.4	2.4	2.8	2.4	2.8	2.5	2.9
32	32	32.3	1.3	3.6	3.4	3	3.4	3	3.4	2.4	2.8	2.4	2.8	2.5	2.9
40	40	40.4	1.4	4.5	4.2	3.7	4.2	3	3.4	2.4	2.8	2.4	2.8	2.5	2.9
50	50	60.4	1.4	5.6	5.2	4.6	5.2	3.7	4.2	3	3.4	2.4	2.8	2.5	2.9
63	63	63.4	1.5	7.1	6.5	5.8	6.5	4.7	5.3	3.8	4.3	3	3.4	2.5	2.9
75	75	75.5	1.6	8.4	7.6	6.8	7.6	5.6	6.2	4.5	5.1	3.6	4.1	2.9	3.3
90	90	90.6	1.8	10.1	9.2	8.2	9.2	6.6	7.4	5.4	6.1	4.3	4.9	3.5	4
110	110	110.7	2.2	12.3	11.1	10	11.1	8.1	9.1	6.6	7.4	5.3	6	4.2	4.8
125	125	125.8	2.5	14	12.7	11.4	12.7	9.2	10.3	7.4	8.3	6	6.7	4.8	5.4
140	140	140.9	2.8	15.7	14.1	12.7	14.1	10.3	11.5	8.3	9.3	6.7	7.5	5.4	6.1
180	160	161	3.2	17.9	16.2	16.6	16.2	11.8	13.1	9.5	10.6	7.7	8.6	6.2	7
180	180	181.1	3.6	20.1	18.2	16.4	18.2	13.3	14.8	10.7	11.9	8.6	9.6	6.9	7.7
200	200	201.2	4	22.4	20.2	18.2	20.2	14.7	16.3	11.9	13.2	9.6	10.7	7.7	8.6
225	225	225.4	4.5	25.2	22.7	20.5	22.7	16.6	18.4	13.4	14.9	10.8	12	8.6	9.6
250	250	251.5	5	27.9	25.1	22.7	25.1	18.4	20.4	14.8	16.4	11.9	13.2	9.6	10.7
280	280	282.6	9.8	31.2	28.1	25.4	28.1	20.6	22.8	16.6	18.4	13.4	14.9	10.7	11.9
315	315	317.9	11.1	35.2	31.6	28.6	31.6	23.2	25.7	18.7	20.7	15	16.6	12.1	13.5
355	355	358.2	12.5	39.7	35.6	32.2	35.6	26.1	28.5	21.1	23.4	16.9	18.7	13.6	15.1
400	400	403.6	14	44.7	40.1	36.3	40.1	25.4	32.5	23.7	26.2	19.1	21.2	15.3	17
450	450	454.1	15.6	50.3	45.1	41	45.1	33.1	36.6	26.7	28.5	21.5	23.8	17.2	19.1
500	500	504.5	17.5	55.8	50.1	45.5	50.1	36.8	40.6	29.7	32.8	23.9	26.4	19.1	21.2
560	560	565	19.6	62.5	56.2	51	56.2	41.2	45.5	33.2	36.7	26.7	29.5	21.4	23.7
630	630	635.7	22.1	70.3	63.1	57.3	63.1	46.3	51.1	37.4	41.3	30	33.1	24.1	26.7

1. The pipes series is based on ISO sizes.
2. In the interest of pipe serviceability and irrespective of the calculated wall thickness, this Standard does not provide for a wall thickness of less than 2.4mm for SDR26, SDR21 and SDR17, and 3.0mm for SDR13.6, SDR11 and SDR9.



EN1555-2: Plastic piping systems for the supply of gaseous fuels Polyethylene (PE).

Safety Factor: C=2.0.

Nominal Outside Diameter r DN/OD	Mean Outside Diameter dem		Maximum out of roundness for straight pipes ^{b,c}	PE80 Material		PE100 Material			
	Min.	Max. °		SDR11/ PN4 Bar		SDR17.6/ PN4 Bar		SDR11/ PN10 Bar	
				T.(mm)	Weight (kg/m)	T.(mm)	Weight (kg/m)	T.(mm)	Weight (kg/m)
16	16	16.3	1.2	-	-	-	-	-	-
20	20	20.3	1.2	2.3	0.12	2.3	0.13	3	0.16
25	25	25.3	1.2	2.3	0.15	2.3	0.17	3	0.21
32	32	32.3	1.3	2.9	0.27	2.3	0.22	3	0.28
40	40	40.4	1.4	3.7	0.43	2.3	0.28	3.7	0.43
50	50	50.4	1.4	4.6	0.67	2.9	0.44	4.6	0.67
63	63	63.4	1.5	5.8	1.05	3.9	0.69	5.8	1.06
75	75	75.5	1.6	6.8	1.47	4.3	0.98	6.8	1.48
90	90	90.6	1.8	8.2	2.12	5.2	1.39	8.2	2.13
110	110	110.7	2.2	10	3.14	6.3	2.08	10	3.18
125	125	125.8	2.5	11.4	4.08	7.1	2.67	11.4	4.11
140	140	140.9	2.8	12.7	5.08	8	3.36	12.7	5.14
160	160	161	3.2	14.6	6.67	9.1	4.35	14.6	6.81
180	180	181.1	3.6	16.4	8.42	10.3	5.56	16.4	8.49
200	200	201.2	4	18.2	10.4	11.4	6.79	18.2	10.5
225	225	226.4	4.5	20.5	13.1	12.8	8.6	20.5	13.26
250	250	251.5	5	22.7	16.2	14.2	10.63	22.7	16.37
280	280	282.6	9.8	25.4	20.3	15.9	13.29	25.4	20.43
315	315	317.9	11.1	28.6	25.6	17.9	16.82	28.6	25.9
355	355	358.2	12.5	32.2	32.5	20.2	21.41	32.2	32.85
400	400	403.6	14	36.3	41.3	22.8	27.2	36.3	41.8
450	450	454.1	15.6	40.9	52.3	25.6	34.4	40.9	52.96
500	500	504.5	17.5	45.4	64.5	28.4	42.45	45.4	66.15
560	560	565	19.6	50.8	80.8	31.9	53.2	50.8	81.53
630	630	633.8	22.1	57.2	102	35.8	67.35	57.2	103.3

Max. °Grade B according to ISO11922-1

Maximum out of roundness for straight pipes^{b,c}

measurement of out-of-roundness shall be made at the point of manufacturing.

If other values for the out-of-roundness than those given in this table are necessary (eg coiled pipes), they shall be agreed between the manufacturer and the end user.

Other size on request.

Color: Black with yellow lines or Yellow.

ASTM D2513 "Standard Specification on Polyethylene (PE) Gas Pressure Pipe, Tubing and Fitting

IPS HDPE Gas Distribution Pipe

PRESSURE RATING 4710			DR7	DR9	DR11	DR11	DR	DR17	DR 21	DR25	DR
Design Factor(DF)=0.4			125psi	125psi	125psi	122psi	102psi	60psi	64psi	NA	NA
Design Factor(DF)=0.32			125psi	125psi	102psi	98psi	82psi	54psi	51psi	41psi	33psi
IPS Pipe Size (in)	Nominal OD (in)	Nominal OD (mm)	Min.W all (in)	Min.W all (in)	Min.W all (in)	Min.W all (in)	Min.W all (in)	Min.W all (in)	Min.W all (in)	Min.W all (in)	Min.W all (in)
1/2	0.84	21.336	0.12	0.093	0.076	0.073	0.062	-	-	-	-
3/4"	1.05	26.67	0.15	0.117	0.095	0.051	0.078	0.062	-	-	-
1"	1.315	33.401	0.188	0.146	0.12	0.114	0.097	0.077	-	-	-
1 1/4"	1.66	42.164	0.237	0.184	0.151	0.144	0.123	0.098	-	-	-
1 1/2"	1.5	48.26	0.271	0.211	0.173	0.155	0.141	0.112	-	-	-
2"	2.375	60.325	0.399	0.264	0.216	0.207	0.175	0.14	0.113	-	-
3"	3.5	88.9	0.5	0.389	0.319	0.304	0.259	0.206	0.167	-	-
4"	4.5	144.3	0.643	0.5	0.009	0.391	0.333	0.265	0.214	0.173	0.138
5"	5.563	141.3	-	0.618	0.506	-	0.412	0.327	0.265	-	-
6"	8.625	168.225	0.946	0.756	0.802	0.576	0.491	0.39	0.415	0.255	0.204
8"	8.625	219.075	1.232	0.956	0.384	0.75	0.638	0.507	0.411	0.332	0.265
10"	10.75	273.05	1.596	1.194	0.977	0.995	0.798	0.592	0.512	0.413	0.331
12"	12.75	323.85	1.821	1.417	1.159	1.108	0.944	0.75	0.607	0.49	0.392
PRESSURE RATING 4710		DF=0.32	100psi	100psi	100psi	100psi	32psi	54psi	51psi	41psi	33psi
14"	14	355.5	2	1.556	1.273	1.217	1.037	0.624	0.667	0.538	0.431
16"	16	406.4	2.256	1.778	1.355	1.351	1.133	0.361	0.562	0.615	0.492
18"	18	457.2	2.571	2	1.636	1.555	1.333	1.059	0.857	0.692	0.554
20"	20	508	2.857	2.222	1.818	1.739	1.483	1.176	0.552	0.765	0.615
20"	22	559.8	3.413	2.444	2	1.915	1.53	1.294	1.048	0.846	0.677
24"	24	609.6	3.429	2.667	2.182	2.087	1.778	1.412	1.143	0.923	0.738

Product Standard: ASTM D2513

Pipe Compound: ASTM D3350 PPI PE 4710/PE100 (Virgin Material Only)

PE4710/PE100 gas distribution pipe is manufactured in accordance with ASTM D 2513 for the underground distribution of natural gas, gaseous LPG, and yard gas.

Design Factor (DF) of 0.4 may be used for 12" and smaller PE4710 pipe produced. The maximum operating pressure for PE3408/PE4710/PE100 gas distribution pipe 12" and smaller is 125psig and 100psig for pipe larger than 12", and 100psi for all pipe sizes.



Application Scenarios

Requirements for High-Quality HDPE Piping: All PE materials intended for gas distribution and transmission services must demonstrate a minimum test duration of 100 hours prior to failure when tested in accordance with the ASTM F1473 standard (successful completion of two tests is required). Lukuang’s gas piping products undergo testing at intensity levels exceeding the aforementioned minimum requirements by a factor of more than 20. The table below lists the various physical properties, corresponding ASTM test methods, and respective nominal values for the Performance Pipe materials utilized in gas piping applications.

PE4710-PE100 / (PE3408)			
Typical Physical Property Pipe Data Sheet			
Property	Unit	Test Procedure	Typical Value
Material Designation		PPI TR-4	PE4710 PE100
Cell Classification		ASTM D3350	445574C
			YGH041T
Pipe Properties			
Density	gms / cm3	ASTM D1505	0.961 (black)
Melt Index (MI)	gms / 10	ASTM D1238	0.08
Condition 190/2.16	minutes		
Melt Index (HLM)	gms / 10	ASTM D1238	7.5
Condition 190/21.6	minutes		
Hydrostatic Design Basis, (73°F)	psi	ASTM D2837	1,600
Hydrostatic Design Basis, (140°F)	psi	ASTM D2837	1,000
Minimum Required Strength	Mpa (psi)	ISO 9080	>10 (>1450)
Rapid Crack Propagation	Bar (psi)	ISO 13477	>12 bar (>174)
Critical Pressure (Pc), 0°C (32°F)(1)			
Color; UV Stabilizer	%	ASTM D3350	Min. 2% Carbon Black UV stabilized 10 years
Pipe Test Category		ASTM D2513	CEE
Material Properties			
Flexural Modulus @2% strain	psi	ASTM D790	>150,000
Tensile Strength at Yield	psi	ASTM D638 (Type IV)	>3,500
Elongation at Break	%	ASTM D638	>800
2 in/min., Type IV bar			
Hardness	Shore D	ASTM D2240	65
PENT	hrs	ASTM F1473	>2,000
Manufactured to ASTM D2513 for pipe. Fittings comply with ASTM D2513 and ASTM D3261.			
Thermal Properties			
Vicat Softening Temperature	oF	ASTM D1525	255
Brittleness Temperature	oF	ASTM D746	-180
Thermal Expansion	in / in / oF	ASTM D696	1.0 x 10-4
(1) Determination made using Small-Scale Steady state. Pc calculated in accordance with ISO 13477			
(2) NOTICE: This data sheet provides typical physical property information for polyethylene resins used to manufacture DEF Pipeline polyethylene piping products. It is intended for comparing polyethylene piping resins. It is not a product specification, and it does not establish minimum or maximum values or manufacturing tolerances for resins or for piping products. Some of these typical physical property values were determined using compression molded plaques. Values obtained from tests of specimens taken from piping products can vary from these typical values. This data sheet may be changed from time to time without notice. Contact DEF Pipeline to determine if you			



Oil



Fire Fighting



Natural Gas



LPG(Gaseous)



(HDPE) Double Wall Corrugated Pipe



Product Introduction

HDPE Double Wall Corrugated Pipe is made of high-density polyethylene (HDPE) through double-layer co-extrusion molding. It features a smooth inner wall and an annular corrugated outer wall, with a hollow interlayer that achieves light weight and high strength. It complies with ISO 4427 and GB/T 19472.1-2019 standards, with a nominal diameter of DN110~DN1200mm and ring stiffness grades of SN4, SN8, and SN10, suitable for multiple scenarios, environmentally friendly and practical.

Product Advantages

- High Strength: Corrugated outer wall, strong pressure resistance.
- Corrosion-resistant: HDPE, 50+ years underground service life.
- Easy Construction: Lightweight, fast and cost-saving.
- Environmental-friendly: Non-toxic, recyclable, flexible.

Application Fields

- Municipal Engineering: Urban rainwater, sewage and flood drainage.
- Residential Districts: Outdoor and garage drainage, landscape drainage.
- Transportation Engineering: Highway, railway, tunnel and airport drainage.
- Agriculture and Gardening: Farmland irrigation and garden drainage.
- Industrial and Mining Industry: Sewage treatment and cable protection sleeves.



Henan LuKuang supplies HDPE and PVC corrugated pipes and fittings, manufactured using virgin raw materials, with specifications ranging from DN110 to DN3000mm.



HDPE DWCP Pipe



Steel Reinforced HDPE DWCP Pipe



PVC Corrugated Pipe



Corrugated Pipe Fittings



HDPE Piping: A Robust, Durable, and Efficient Expert in Fluid Transport



In critical applications—such as road drainage, mine tailings transport, and drinking water supply—the reliability of piping systems directly impacts the safety and efficiency of engineering projects. The HDPE piping systems supplied by Henan Lukuang Trading Co., Ltd. have emerged as the preferred solution for fluid transport, thanks to their exceptional overall performance.



Ultra-High Toughness and Impact Resistance

Resistant to foundation settlement and external impacts, adaptable to complex geotechnical environments.



Excellent Corrosion Resistance

Chemically stable, it resists erosion by various media, thereby extending service life and reducing maintenance costs.



High-Efficiency Hydraulic Performance

The smooth inner wall features low friction and minimal flow resistance, significantly enhancing transport efficiency and conserving energy.



Convenient and Reliable Connection

Utilizing hot-melt or electrofusion connections, the joints exhibit high strength and excellent sealing properties, thereby eliminating the risk of leakage.



Steel Wire Mesh Reinforced High-Density Polyethylene Pipe

Product Description

Steel Wire Mesh Reinforced HDPE Pipe is a composite pipe with steel wire spiral reinforcement and HDPE matrix. It meets ISO4427, CE and ISO9001, uses PE80/PE100/PE4710, DN50-250mm, 70-year service life, suitable for complex environments.

Product Advantages

- High strength: Steel wire framework, anti-deformation for buried use.
- Strong extrusion/impact resistance, suitable for complex working conditions.
- Excellent corrosion resistance, no extra anti-corrosion needed.
- Reliable sealing: Hot-melt connection, anti-leakage.
- Economic: Replaces metal pipes, low cost and high cost-performance.
- Adjustable structure for diverse scenarios.
- Controllable cost, low project investment.
- Good crack resistance, impact-resistant.
- Traceable: Steel wire positioned by magnetic detection.

Application Fields

Widely used in petroleum, municipal, mining, chemical, electric power, environmental protection for water supply, drainage and medium transportation.





Product Specifications

Specification of Steel Wire Reinforced Thermoplastics(PE)
Comosite Pipe(SRTP) for Water or Special Fluids

Nominal Diameter		Nominal Pressure(MPa)													
		0.8		1		1.25		1.6		2		2.5		3.5	
OD(mm)		Wall thickneess enmin& enmax(mm)													
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
50	51.2							4.50	5.70	5.00	6.20	5.50	7.00	5.50	7.00
63	64.2							4.50	5.70	5.00	6.20	5.50	7.00	5.50	7.00
75	76.2							5.00	6.20	5.00	6.20	5.50	7.00	6.00	7.50
90	91.4							5.50	7.00	5.50	7.00	5.50	7.00	6.00	7.50
110	111.5			5.50	7.00	5.50	7.00	7.00	8.50	7.00	8.50	7.50	9.00	8.50	10.00
140	141.7			5.50	7.00	5.50	7.00	8.00	9.50	8.50	10.00	9.00	10.50	9.50	11.00
160	162.0			6.00	7.50	6.00	7.50	9.00	10.50	9.50	11.00	10.00	12.00	10.50	12.50
200	202.3			6.00	7.50	6.00	7.50	9.50	11.00	10.50	12.50	11.00	13.00	12.50	14.70
225	227.5			8.00	9.50	8.00	9.50	10.00	12.00	10.50	12.50	11.00	13.00		
250	252.5	8.00	9.50	10.50	12.50	10.50	12.50	12.00	14.20	12.00	14.20	12.50	14.70		
315	317.7	9.50	11.00	11.50	13.50	11.50	13.50	13.00	15.50	13.00	15.50				
355	357.8	10.00	11.80	12.00	14.20	12.00	14.20	14.00	16.50						
400	403.0	10.50	12.50	12.50	14.70	12.50	14.70	15.00	17.80						
450	453.2	11.50	13.50	13.50	16.00	13.50	16.00	16.00	18.80						
500	503.2	12.50	14.70	15.50	18.30	15.50	18.30	18.00	21.00						
560	563.2	17.00	20.00	20.00	23.00										
630	633.2	20.00	23.00	23.00	26.00										

Specification of Steel Wire Reinforced Thermoplastics(PE) Comosite Pipe(SRTP)
for Gas

Nominal Diameter		Nominal Pressure(MPa)									
		0.4		0.6		0.8		1		1.25	
OD(mm)		Wall thickneess enmin& enmax(mm)									
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
50	51.2			4.50	5.70	5.00	6.20	5.50	7.00	5.50	7.00
63	64.2			4.50	5.70	5.00	6.20	5.50	7.00	5.50	7.00
75	76.2			5.00	6.20	5.00	6.20	5.50	7.00	6.00	7.50
90	91.4			5.50	7.00	5.50	7.00	5.50	7.00	6.00	7.50
110	111.5	5.50	7.00	7.00	8.50	7.00	8.50	7.50	9.00	8.50	10.00
140	141.7	5.50	7.00	8.00	9.50	8.50	10.00	9.00	10.50	9.50	11.00
160	162.0	6.00	7.50	9.00	10.50	9.50	11.00	10.00	12.00	10.50	12.50
200	202.3	6.00	7.50	9.50	11.00	10.50	12.50	11.00	13.00	12.50	14.70
225	227.5	8.00	9.50	10.00	12.00	10.50	12.50	11.00	13.00		
250	252.5	10.50	12.50	12.00	14.20	12.00	14.20	12.50	14.70		
315	317.7	11.50	13.50	13.00	15.50	13.00	15.50				
355	357.8	12.00	14.20	14.00	16.50						
400	403.0	12.50	14.70	15.00	17.80						
450	453.2	13.50	16.00	16.00	18.80						
500	503.2	15.50	18.30	18.00	21.00						
560	563.2	20.00	23.00								
630	633.2	23.00	26.00								



HDPE Pipe Product Matrix: Comprehensive Specifications to Meet Diverse Engineering Needs



HDPE Water Supply Pipe

Application Areas: Municipal water supply; construction of drinking water transmission systems for industrial and mining enterprises.

Specifications and Standards: DN20–1200 mm | PN0.6–1.6 MPa | Complies with National Standard GB/T 13663-2018



HDPE Mining Pipe

Application Areas: Mine Tailings Discharge, Slurry Transport, and Underground Ventilation Ducts

Specifications & Standards: DN50–800 mm | High Abrasion Resistance / Anti-static Properties | Complies with Industry Standard MT/T 558.1-2018



HDPE Double-Wall Corrugated Pipe

Application Areas: Municipal Storm and Sanitary Sewer Separation, Rainwater Harvesting, Power and Communication Cable Routing

Specifications & Standards: DN 225–800 mm | Unique annular structure with high ring stiffness | Complies with National Standard GB/T 19472.1-2019



HDPE Steel-Reinforced Spiral Corrugated Pipe

Application Areas: Large-scale municipal sewage disposal projects, highway and railway subgrade drainage.

Specifications and Standards: DN300–2600 mm | Extra-Large Diameter, Exceptional Pressure-Bearing Capacity | Complies with National Standard GB/T 21472-2008



HDPE Fabricated Segments Fittings



Product Description

Fabricated HDPE fittings are manufactured from HDPE pipes in compliance with international standards such as DIN 16963 or other customer-specified requirements. They are designed to support butt-fusion, electro-fusion, and flange connection methods.

Product Range

Our fabricated HDPE fittings cover a wide variety of types, including short-radius elbows of 11.25°, 22.5°, 30°, 45°, 60°, 90°, and other custom angles. We also provide fabricated tees, reducing tees, sweep bends (R1.5D, R3D), 45° lateral tees, and other customized fittings.

Specification & Size

All fabricated HDPE fittings are produced and tested strictly according to DIN 16963. The size range is from DN50 mm up to DN1600 mm, suitable for various pipeline projects and customized demands.



Product Specifications

Fitting Types	Specified Fittings	Diameter(mm)	Pressure Rates
Fabricated Segments Fitting- Butt Fusion End	Elbow: 11.25 Deg, 30Deg, 45Deg, 60Deg, 90Deg and other required degrees	DN110-1800mm	PN8, PN10, PN12.5, PN16
	Tee	DN110-1600mm	PN8, PN10, PN12.5, PN16
	Reducer Tee	DN110-1600mm	PN8, PN10, PN12.5, PN16
	Lateral Tee(45 deg Tee)	DN110-1200mm	PN8, PN10, PN12.5, PN16
	Cross Tee	DN110-1200mm	PN8, PN10, PN12.5, PN16
	Reducer Cross Tee	DN110-1200mm	PN8, PN10, PN12.5, PN16
	Special-shaped Stube, etc	DN110-1200mm	PN8, PN10, PN12.5, PN16
	Sweep Bend R1.5D, R3D	DN110-1200mm	PN8, PN10, PN12.5, PN16



Polypropylene(PP) Compression Fittings



Application Scope

Compression-type joints are suitable for small-bore pipe connections with an outer diameter of up to 125 mm.

Preparation Before Installation

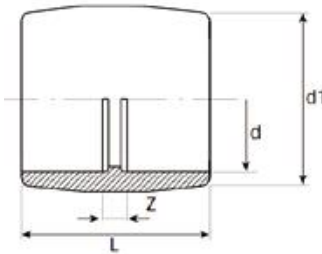
The installation process begins with cutting the pipe ends square (90° relative to the pipe axis). Install the collar and clinching ring onto the pipe, then position the rubber O-ring at the pipe end.

Installation Steps

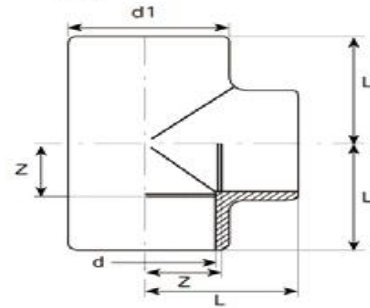
Insert the fitting body until the pipe end reaches the full stop. Push the clinching ring and collar (nut) into place until they engage with the fitting, then tighten completely using a belt or chain wrench.



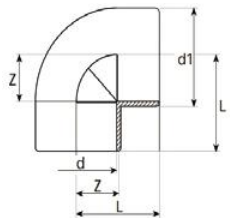
DEF PIPELINE



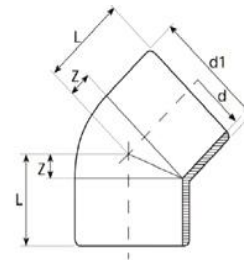
Equal Coupler			
d(mm)	d1(mm)	z(mm)	L(mm)
20	30.5	7	35
25	36	7	39
32	43.5	7	43
40	53.5	8	48
50	66	8	54
63	82	8	62
75	93	8	69.5
90	112	10.5	80.5
110	134.5	14	96



Equal Tee			
d(mm)	d1(mm)	z(mm)	L(mm)
20	30.5	14	28
25	36	16	32
32	43.5	20	38
40	53.5	24	44
50	66	28	51
63	82	35	62
75	92.5	44.5	75.5
90	110	53	88
110	134	65	106



90 Deg Elbow			
d(mm)	d1(mm)	z(mm)	L(mm)
20	30.5	14	28
25	36	16	32
32	43.5	20	38
40	53.5	24	44
50	66	28	51
63	82	35	62
75	92.5	44.5	75.5
90	110	53	88
110	134	65	106

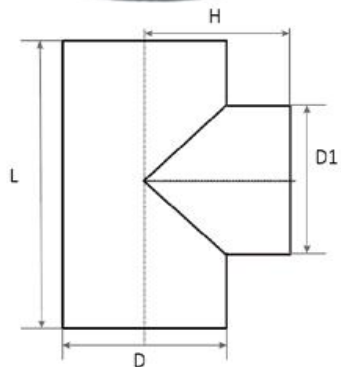


45 Deg Elbow			
d(mm)	d1(mm)	z(mm)	L(mm)
20	30.5	7	21
25	36	8	24
32	43.5	10	28
40	53	13	33
50	64	13	36
63	82	16	43
75	92.5	20	51
90	114	23	58
110	134	27	68

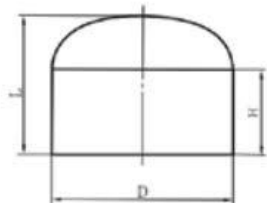


Product Specifications

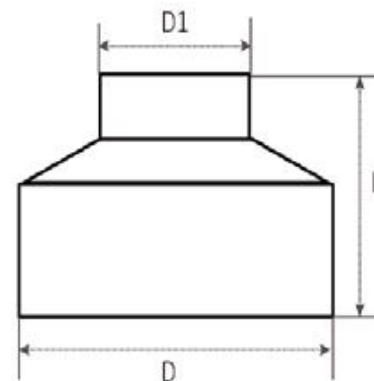
Fittings Type	Specified Fitting	Diameter(mm)	Pressure Rates
PP Compression Fitting	Coupling/Coupler	DN20-110mm	PN10, PN16
	Reducer/ Reducing Coupler	DN20-110mm	PN10, PN16
	Tee	DN20-110mm	PN10, PN16
	Reducer Tee	DN20-110mm	PN10, PN16
	45 deg elbow	DN20-110mm	PN10, PN16
	90 deg elbow	DN20-110mm	PN10, PN16
	Female coupler	DN20-110mm	PN10, PN16
	Male coupler	DN20-110mm	PN10, PN16
	Female 90 deg elbow	DN20-110mm	PN10, PN16
	Male 90 deg elbow	DN20-110mm	PN10, PN16
	Female Tee	DN20-110mm	PN10, PN16
	Male Tee	DN20-110mm	PN10, PN16
	Flanges	DN20-110mm	PN10, PN16
	Ball Valves	DN20-63mm	PN10, PN16
	Saddle Clamp	DN20-315mm	PN10, PN16



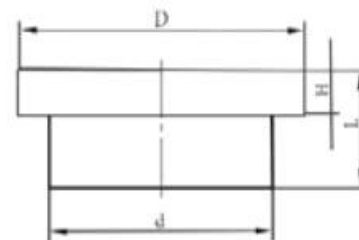
Reducing Tee				
Size	D (mm)	L (mm)	D1 (mm)	H (mm)
25 x 20	33	58	27	31
32 x 20	42	63	27	33
32 x 25	42	69	33	36
40 x 20	50	59	26	36
40 x 25	50	65	30	38
40 x 32	50	70	41	40
50 x 20	61	68	26	42
50 x 25	61	77	34	45
50 x 32	61	83	42	45
50 x 40	61	91	50	46
63 x 20	77	70	26	48
63 x 25	77	76	31	50
63 x 32	77	82	41	52
63 x 40	77	91	50	53
63 x 50	77	100	61	58
75 x 20	87	80	29	56
75 x 25	87	87	34	58
75 x 32	87	91	40	57
75 x 40	87	100	50	62
75 x 50	87	112	61	65
75 x 63	87	130	76	67
90 x 40	105	132	70	70
90 x 50	107	120	61	70
90 x 63	107	147	76	80
90 x 75	107	151	90	81
110 x 40	132	136	48	77
110 x 50	132	137	60	88
110 x 63	132	159	76	100
110 x 75	132	161	90	101
110 x 90	132	177	107	91



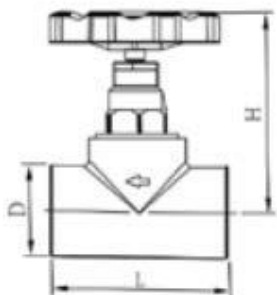
End Cap			
Size	D (mm)	H (mm)	L (mm)
20	27	18	20
25	33	20	23
32	42	23	25
40	51	27	28
50	63	29	31
63	76	31	41
75	91	32	51
90	108	51	69
110	126	45	59



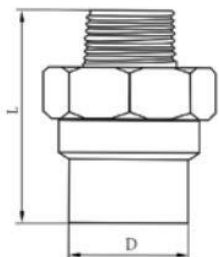
Reducing Coupler			
Size (mm)	D (mm)	D1 (mm)	L (mm)
25 x 20	33	27	38
32 x 20	42	27	43
32 x 25	42	33	44
40 x 20	51	28	44
40 x 25	51	33	44
40 x 32	51	41	44
50 x 20	61	28	48
50 x 25	61	34	48
50 x 32	61	42	48
50 x 40	61	51	48
63 x 20	76	28	57
63 x 25	76	34	57
63 x 32	76	42	57
63 x 40	76	51	57
63 x 50	76	62	58
75 x 25	87	32	65
75 x 32	87	41	64
75 x 40	87	50	67
75 x 50	87	60	68
75 x 63	87	75	68
90 x 40	104	50	63
90 x 50	104	60	63
90 x 63	104	76	71
90 x 75	104	87	71
110 x 50	127	60	70
110 x 63	127	76	74
110 x 75	127	87	76
110 x 90	127	104	77



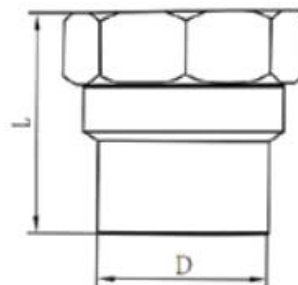
Stub Stub End (Flange Adapter)				
Size	D (mm)	d (mm)	H (mm)	L (mm)
50	85	63	30	14
63	98	78	34	14
75	121	94	40	15
90	125	110	44	17
110	160	126	50	20



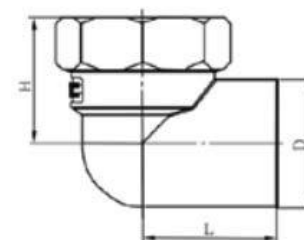
Stop Valve			
Size	D (mm)	H (mm)	L (mm)
20	28	56	54
25	34	73	61
32	43	80	63
40	51	85	60
50	63	96	68
63	75	115	74



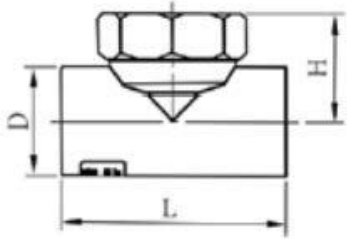
Male Threaded Coupling		
Size	D (mm)	L (mm)
20 x 1/2"	27	58
20 x 3/4"	27	55
25 x 1/2"	33	58
25 x 3/4"	33	60
32 x 1/2"	41	52
32 x 3/4"	41	55
32 x 1"	41	65
40 x 1 1/4"	51	70
50 x 1 1/2"	60	72
63 x 2"	76	83
75 x 2 1/2"	90	94
90 x 3"	107	105
110 x 4"	131	115



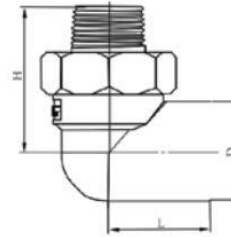
Female Threaded Coupling		
Size	D (mm)	L (mm)
20 x 1/2"	27	41
20 x 3/4"	27	43
25 x 1/2"	33	44
25 x 3/4"	33	46
32 x 1/2"	41	39
32 x 3/4"	41	43
32 x 1"	41	50
40 x 1 1/2"	50	52
50 x 1 1/2"	60	54
63 x 2"	77	64
75 x 2 1/2"	90	70
90 x 3"	108	82
110 x 4"	131	85



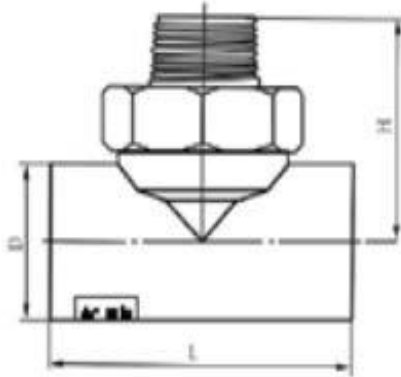
Female Threaded Elbow			
Size	D (mm)	H (mm)	L (mm)
20 x 1/2"	27	32	32
20 x 3/4"	27	32	30
25 x 1/2"	33	34	33
25 x 3/4"	33	36	35
32 x 1/2"	41	39	30
32 x 3/4"	41	39	35
32 x 1"	41	40	36
40 x 1 1/2"	50	47	45
50 x 1 1/2"	63	54	52
63 x 2"	77	67	61



Female Threaded Tee			
Size	D (mm)	H (mm)	L (mm)
20x 1/2"	27	31	51
25x 1/2"	33	33	58
25x 3/4"	33	34	60
32x 1/2"	41	37	61
32x 3/4"	41	40	67
32x 1"	41	41	72



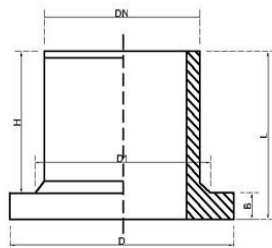
Male Threaded Elbow			
Size	D (mm)	H (mm)	L (mm)
20 x 1/2"	27	46	32
20 x 3/4"	27	46	32
25 x 1/2"	33	48	33
25 x 3/4"	33	48	35
32 x 1/2"	41	51	31
32 x 3/4"	41	52	34
32 x 1"	41	55	36
40 x 1 1/4"	50	67	45
50 x 1 1/2"	63	69	52
63 x 2"	77	79	61



Male Threaded Tee			
Size	D (mm)	H (mm)	L (mm)
20x 1/2"	27	45	52
25x 1/2"	33	47	58
25x 3/4"	33	48	60
32x 1/2"	41	51	61
32x 3/4"	41	52	67
32x 1"	41	55	72

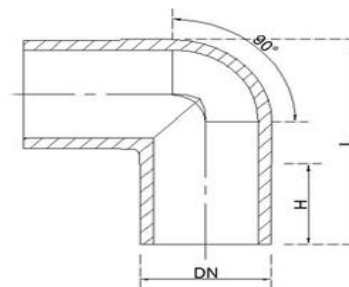


HDPE Bu Fusion Flange Adapter (Stub End)



DN(mm)	L	H	D1	D
50	73	64	55	80
63	82	70	68	96
75	86	74	80	110
90	95	80	95	127
110	97	83	115	138
125	113	93	130	158
140	110	90	145	182
160	110	90	165	197
180	135	110	190	212
200	125	105	205	243
225	134	108	230	268
250	150	125	255	305
280	150	125	285	315
315	150	125	320	365
355	165	135	360	408
400	170	135	410	473
450	175	135	465	522
500	200	155	515	590
560	213	172	570	595
630	230	175	645	590
710	215	172	725	800
800	220	172	815	900
900	230	170	920	1000
1000	260	200	1020	1100
1200	300	225	1220	1300

HDPE Bu Fusion 90 Degree Elbow



DN(mm)	L	H
63	133	65
75	150	75
90	160	65
110	170	58
125	215	80
140	225	80
160	240	70
180	280	90
200	290	80
225	350	110
250	360	100
280	395	108
315	415	100
355	460	100
400	525	110
450	590	120
500	660	135
560	720	140
630	790	145
710	900	170
800	990	170



HDPE Bu Fusion 45 Degree Elbow



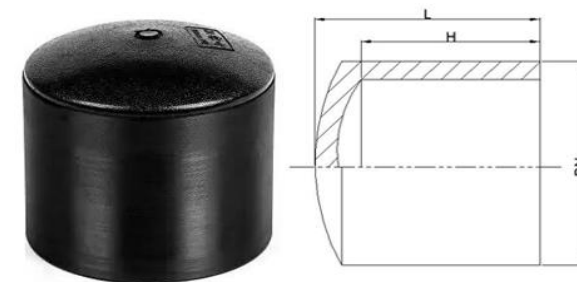
DN(mm)	L	H
63	170	65
75	190	70
90	195	65
110	190	58
125	238	80
140	255	80
160	255	70
180	300	90
200	300	80
225	365	110
250	365	100
280	400	108
315	405	100
355	430	100
400	490	110
450	560	130
500	610	135
560	650	135
630	710	145
710	830	170
800	900	170

HDPE Bu Fusion Tee



DN(mm)	L	L1	L2	H
63	182	58	56	90
75	232	70	70	117
90	240	70	70	120
110	238	57	57	118
125	305	80	80	150
140	320	80	80	160
160	325	75	75	163
180	400	90	90	197
200	385	85	85	195
225	400	85	80	200
250	430	90	95	230
280	535	110	110	267
315	500	90	95	275
355	555	90	110	295
400	600	90	110	320
450	750	135	150	405
500	800	135	170	455
560	910	140	170	475
630	970	150	160	485
710	1140	210	210	570
800	1260	230	230	630

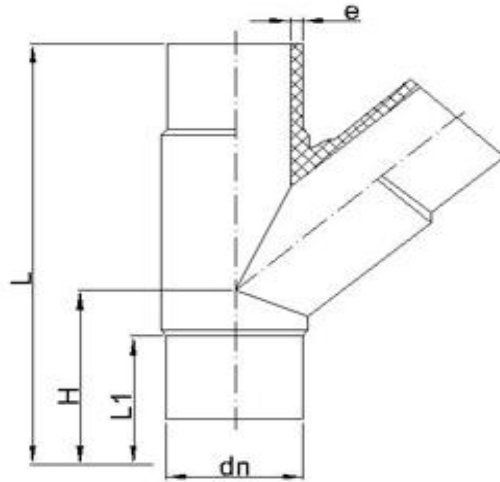
HDPE Bu Fusion End Cap



DN(mm)	L	H
63	52	43
75	45	35
90	70	60
110	70	55
125	60	48
140	85	70
160	85	70
180	105	90
200	90	75
225	130	115
250	95	85
280	140	120
315	115	90
355	140	115
400	130	100
450	140	115
500	140	115
560	150	115
630	150	115
710	160	125
800	160	125
900	160	125
1000	160	125
1200	200	155



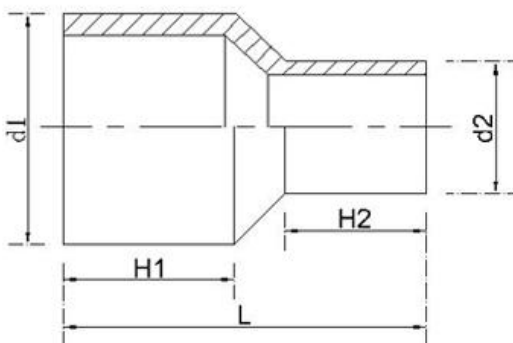
HDPE Y Tee



Name	dn(mm)	SDR	L(mm)	H	L1(m)
Y Tee	63*45°	11	230	85	58
Y Tee	75*45°	11	280	90	68
Y Tee	90*45°	11	315	100	70
Y Tee	110*45°	11	400	130	90
Y Tee	110*45°	17	400	130	90
Y Tee	125*45°	11	420	135	95
Y Tee	160*45°	11	485	150	105
Y Tee	160*45°	17	485	150	105
Y Tee	200*45°	11	605	180	115
Y Tee	200*45°	17	605	180	115
Y Tee	225*45°	11	700	200	125
Y Tee	225*45°	17	700	200	125
Y Tee	250*45°	11	700	200	125
Y Tee	250*45°	17	700	200	125
Y Tee	280*45°	11			
Y Tee	280*45°	17			
Y Tee	315*45°	11			
Y Tee	315*45°	17			

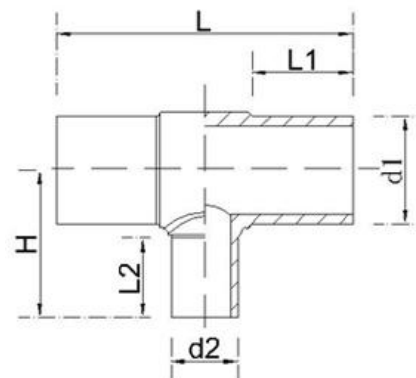


HDPE Bu Fusion Reducing Coupler



DN(mm) SIZE(dn1-dn2)	L	H1	H2	DN(mm) SIZE(dn1-dn2)	L	H1	H2
S75-50	130	56	58	S450-280	255	105	110
S75-63	130	59	64	S450-315	250	105	120
S90-50	132	55	55	S450-355	245	105	120
S90-63	132	55	56	S450-400	245	105	120
S90-75	132	55	62	S500-200	280	98	105
S110-50	130	58	50	S500-225	280	98	105
S110-63	130	58	52	S500-250	280	98	110
S110-75	130	58	54	S500-280	280	98	110
S110-90	130	58	56	S500-315	275	98	110
S125-63	183	78	70	S500-355	275	98	110
S125-75	183	78	68	S500-400	275	98	120
S125-90	183	78	68	S500-450	275	98	120
S125-110	183	78	72	S560-315	280	105	110
S140-63	180	80	65	S560-355	265	105	110
S140-75	180	80	70	S560-400	260	105	120
S140-90	180	80	70	S560-450	250	105	120
S140-110	180	80	75	S560-500	240	105	120
S140-125	180	80	70	S630-315	285	110	100
S160-63	203	85	67	S630-355	285	110	110
S160-75	208	85	67	S630-400	275	110	120
S160-90	214	85	83	S630-450	275	110	120
S160-110	214	85	83	S630-500	260	110	120
S160-125	214	85	85	S630-560	255	110	130
S180-110	200	80	100	S710-315	330	120	120
S180-125	200	80	100	S710-355	330	120	120
S180-140	20	80	100	S710-400	314	120	120
S180-160	170	80	80	S710-450	300	120	120
S200-63	218	75	67	S710-500	287	120	120
S200-75	218	75	75	S710-560	277	120	120
S200-90	218	75	93	S710-630	260	120	120
S200-110	218	75	97	S800-315	348	120	120
S200-160	210	75	100	S800-355	335	120	120
S200-180	210	75	108	S800-400	328	120	120
S225-110	218	80	87	S800-450	320	120	120
S225-160	218	80	80	S800-500	305	120	120
S225-200	218	80	90	S800-560	290	120	120
S250-110	260	90	100	S800-630	282	120	120
S250-160	230	90	93	S800-710	268	120	120
S250-200	230	90	97	S900-315			
S250-225	230	90	100	S900-355			
S280-110	255	105	95	S900-400			
S280-125	245	105	100	S900-450			
S280-140	245	105	100	S900-500			
S280-160	245	105	105	S900-560			
S280-180	245	105	105	S900-630			
S280-200	245	105	120	S900-710			
S280-225	245	105	120	S900-800			
S280-250	245	105	130	S1000-315			
S315-160	235	90	87	S1000-355			
S450-250	235	90	85	S1000-400			
S315-200	240	90	90	S1000-450			
S315-225	240	90	105	S1000-500			
S315-250	240	90	100	S1000-560			
S315-280	240	90	110	S1000-630			
S355-110	270	105	100	S1000-710			
S355-160	275	105	110	S1000-800			
S355-200	260	105	110	S1000-900			
S355-225	255	105	110	S1200-315			
S355-250	240	105	110	S1200-355			
S355-280	235	105	110	S1200-400			
S355-315	230	105	110	S1200-450			
S400-200	270	100	110	S1200-500			
S400-225	265	100	110	S1200-560			
S400-250	250	100	110	S1200-630			
S400-315	230	100	110	S1200-710			
S400-255	225	100	110	S1200-800			
S450-200	270	105	100	S1200-900			
S450-250	270	105	105	S1200-1000			

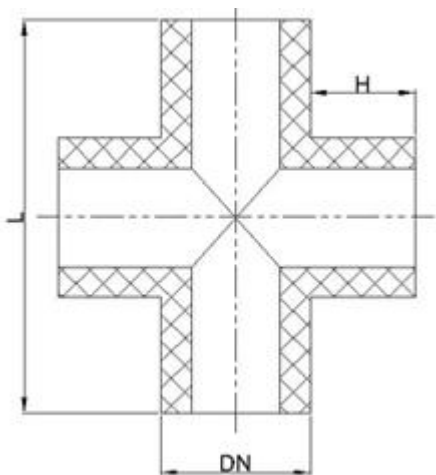
HDPE Bu Fusion Reducing Tee



DN(mm) SIZE(d1 x d2)	L	L1	L2	H	DN(mm) SIZE(d1 x d2)	L	L1	L2	H
T75-50	199	70	55	94	T400-90	290	90	100	310
T75-63	220	70	65	107	T400-110	310	90	100	310
T90-50	213	75	60	110	T400-160	360	90	100	310
T90-63	213	70	60	110	T400-200	400	90	100	310
T90-75	238	80	70	118	T400-250	450	90	100	310
T110-50	178	58	60	120	T400-315	515	90	100	310
T110-63	178	58	60	120	T400-355	555	90	100	310
T110-75	206	60	65	120	T450-110	375	120	120	365
T110-90	206	60	60	120	T450-125	464	150	120	365
T125-63	305	80	70	145	T450-160	464	130	120	365
T125-75	305	80	70	145	T450-200	464	120	120	365
T125-90	305	80	75	150	T450-225	545	150	130	375
T125-110	305	80	75	150	T450-250	545	140	130	375
T140-63	253	75	70	150	T450-280	600	140	140	385
T140-75	253	75	75	155	T450-315	600	130	140	385
T140-90	253	75	75	155	T450-355	660	140	160	405
T140-110	253	70	80	160	T450-400	670	120	160	405
T140-125	320	80	80	160	T500-110	398	130	135	420
T160-50	205	74	61	150	T500-160	495	140	135	420
T160-63	205	71	61	150	T500-200	495	135	135	420
T160-75	232	71	66	155	T500-225	545	150	135	420
T160-90	232	71	66	155	T500-250	545	135	135	420
T160-110	275	75	80	170	T500-280	630	155	145	430
T160-125	380	98	100	195	T500-315	635	145	145	430
T160-140	383	100	100	195	T500-355	700	150	160	445
T180-63	270	85	75	180	T500-400	705	140	160	445
T180-75	270	85	75	180	T500-450	800	150	170	455
T180-90	270	85	80	180	T560-110	410	135	140	445
T180-110	270	85	85	185	T560-125	430	135	140	445
T180-160	400	90	85	185	T560-160	450	135	140	445
T200-63	248	86	66	175	T560-200	508	135	140	445
T200-75	248	86	66	175	T560-225	545	150	140	445
T200-90	283	86	71	180	T560-250	545	135	140	445
T200-110	283	86	71	180	T560-280	600	150	145	450
T200-160	353	85	85	200	T560-315	605	135	145	450
T225-63	250	85	70	200	T560-355	710	150	160	465
T225-75	250	85	70	200	T560-400	720	135	160	465
T225-90	285	90	75	200	T560-450	825	150	170	475
T225-110	285	85	75	200	T560-500	825	140	170	475
T225-160	335	85	75	200	T630-110	475	145	135	480
T225-200	400	85	75	200	T630-160	475	140	140	485
T250-63	257	90	95	228	T630-200	550	150	145	490
T250-75	255	90	95	228	T630-225	555	150	145	490
T250-90	283	90	95	228	T630-250	555	140	145	490
T250-110	285	90	95	228	T630-280	660	150	145	490
T250-160	342	90	95	228	T630-315	665	160	145	490
T250-200	380	90	95	228	T630-355	720	150	160	505
T280-63	300	100	90	240	T630-400	725	145	160	505
T280-75	300	100	90	240	T630-450	800	150	180	525
T280-90	300	100	90	240	T630-500	808	140	180	525
T280-110	300	100	100	240	T710-110	505	190	160	520
T280-160	387	100	100	250	T710-160	545	190	160	520
T280-200	387	100	105	250	T710-200	585	190	160	520
T280-250	530	110	105	260	T710-250	630	190	160	520
T315-63	255	90	95	275	T710-315	710	195	160	520
T315-75	255	90	95	275	T710-400	790	195	175	535
T315-90	280	90	95	275	T710-500	890	195	200	560
T315-110	280	90	95	275	T710-630	1020	195	200	560
T315-160	336	90	95	275	T800-110	500	180	160	570
T315-200	378	90	95	275	T800-160	590	200	160	570
T315-250	428	90	95	275	T800-200	590	180	160	570
T355-90	290	90	100	287	T800-250	630	170	160	570
T355-110	310	90	100	287	T800-315	720	190	160	570
T355-160	360	90	100	287	T800-355	720	180	180	590
T355-200	400	90	100	287	T800-400	795	190	180	590
T355-250	450	90	100	287	T800-500	895	190	210	620
T355-315	515	90	100	287	T800-630	1020	190	210	620
					T800-710	1100	195	210	620

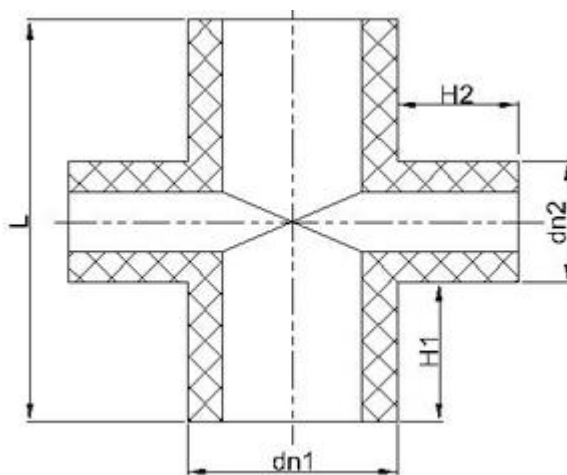


HDPE Bu Fusion Cross



DN(mm)	L	H
63	184	60
75	203	65
90	240	75
110	275	85
125	295	85
160	370	105
200	435	110
225	442	110
250	493	120
315	558	120
355	640	140
400	685	140
450	740	140
500	810	150
560	875	150
630	960	160
710	1140	210
800	1280	235

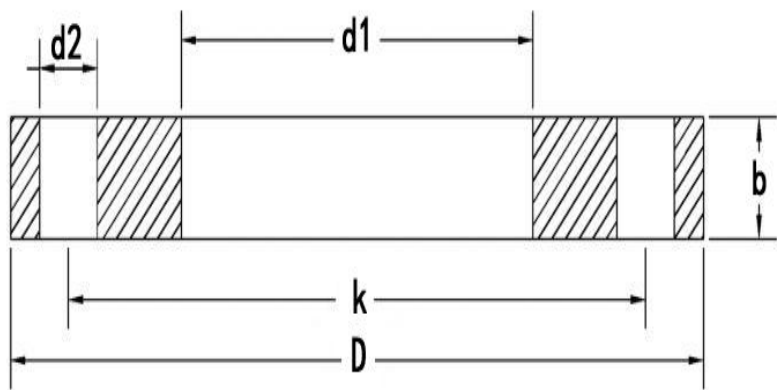
HDPE Bu Fusion Reducing Cross



DN(mm)	L	H1
SIZE(dn1-dn2)		
90-63	240	85
110-63	225	80
125-75	295	110
160-110	370	105
200-110	433	110
200-160	435	110
225-160	380	110
250-110	355	110
250-160	405	105
250-200	408	100
280-110	300	100
315-200	445	120
355-200	485	140
400-200	490	140
450-200	490	140
450-315	605	140
500-110	420	150
500-160	470	150
500-200	510	150
500-250	565	150
500-315	625	150
560-200	515	150
560-315	625	150
630-200	530	160
630-315	660	160
710-200	630	210
710-315	745	210
800-200	630	210
800-400	845	220
800-630	1020	190



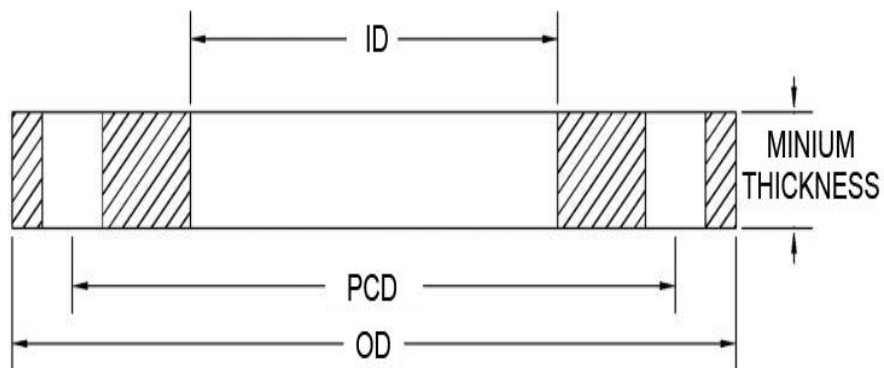
Flanges and blind flanges according to standard ANSI B16.5/150 PSI and 300 PSI



DIAMETER PIPE		NORMA ANSI B16.5 150 PSI						NORMA ANSI B16.5 300 PSI				
NOMINAL	EQUIVALENTE	DIMENSIONS				BOLTS		DIMENSIONS			BOLTS	
		D	k	d1	b	N°	d2	D	k	b	N°	d2
mm	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
20	1/2	88.9	60.3	32	10	4	15.9	95.3	66.6	14.2	4	15.75
25	3/4	98.6	69.8	38	11	4	15.9	117.4	82.6	15.7	4	19.05
32	1	108	79.4	45	13	4	15.9	124	88.9	17.5	4	19.05
40	1 1/4	117.3	88.9	55	14	4	15.9	133.4	98.6	19.1	4	19.05
50	1 1/2	127	98.4	66	16	4	15.9	155.5	114.3	20.6	4	19.05
63	2	152.4	120.8	78	17	4	19.1	165.1	127	22.4	8	19.05
75	2 1/2	177.8	139.7	92	21	4	19.1	180.5	149.4	25.4	8	22.35
90	3	190.5	152.4	108	22	4	19.1	209.6	168.2	28.4	8	22.35
110	4	228.6	190.5	128	22	8	19.1	254	200.2	31.8	8	22.35
125	5	254	215.9	135	22	8	22.2	279.4	235	35.1	8	22.35
140	5 1/2	254	215.9	158	22	8	22.2	279.4	235	35.1	8	22.35
160	6	279.4	241.3	178	24	8	22.2	317.5	269.8	36.6	12	22.35
180	6	279.4	241.3	188	24	8	22.2	317.5	269.8	36.6	12	22.35
200	8	342.9	298.4	235	27	8	22.2	371	330.2	41.1	12	25.4
225	8	342.9	298.4	238	27	8	22.2	381	330.2	41.1	12	25.4
250	10	406.4	362	288	29	12	25.4	444.5	387.4	47.8	16	28.45
280	10	406.4	362	294	29	12	25.4	444.5	387.4	47.8	16	28.45
315	12	482.6	431.8	338	30	12	25.4	520.7	450.9	50.8	16	31.75
355	14	533.4	476.2	376	33	12	28.6	584.2	514.4	53.8	20	31.75
400	16	596.9	539.7	430	35	16	28.6	647.7	571.5	57.2	20	35.05
450	18	635	577.8	497	38	16	31.7	711.2	628.7	60.5	24	35.05
500	20	698.5	635	533	41	20	31.7	774.7	685.8	63.5	24	35.05
560	22	748	692.2	585	44	20	34.9	838.2	742.9	65	24	38.1
630	24	812	749.3	645	46	20	34.9	914.4	812.8	68.4	24	41.15
710	28	927	864	740	50	28	34.9	1035.1	939.8	79.5	28	50.8
800	32	1060.0	977.9	843	56	28	41.3	1092.2	997	82.6	28	50.8
900	36	1168.0	1086.0	947	59	32	41.3	1270	1168.4	87.9	32	57.15
1000	40	1289.0	1200.1	1050	62	36	41.3	1378	1276.4	92.2	36	57.15
1200	48	1511.0	1422.0	1260	69	44	41.3	1651	1543.1	114.3	40	57.15



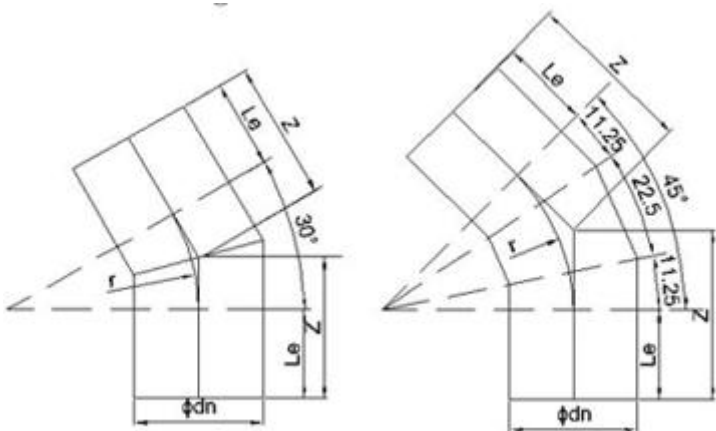
PP Coated Backing Ring/PP Fiber Backing Ring with HDPE flange adaptors



PP FIBER BACKINNG RING										
Butt fusion systems inch/ANSI										
Connection dimensions according to ANSI B 16.5,ASTM D 4024;bolt circle class 150										
d	DN	PN	OD	PCD	ID	Bolt Hole Dia	Thickness	Bolt No.	SC	kg
1 1/4"	32	16	140	89	51	16	20	4	M16	0.25
1 1/2"	40	16	150	98	62	16	22	4	M16	0.31
2"	50	16	165	121	78	19	24	4	M16	0.38
2 1/2"	65	16	185	140	92	19	26	4	M16	0.51
3"	80	16	200	152	108	19	27	4	M16	0.59
4"	100	16	229	190	128	19	28	8	M16	0.76
6"	150	16	285	241	178	22	32	8	M20	1.2
8"	200	16	340	296.5	238	22	34	8	M20	1.55
10"	250	16	406	362	294	26	38	12	M20	2.23
12"	300	16	483	432	338	26	42	12	M20	3.9
Socket fusion systems inch/ANSI										
Connection dimensions according to ANSI B 16.5,ASTM D 4024;bolt circle class 150										
d	DN	PN	OD	PCD	ID	Bolt Hole Dia	Thickness	Bolt No.	SC	kg
1 1/4"	32	16	140	89	51	16	20	4	M16	0.25
1 1/2"	40	16	150	98	62	16	22	4	M16	0.31
2"	50	16	165	121	78	19	24	4	M16	0.38
2 1/2"	65	16	185	140	92	19	26	4	M16	0.51
3"	80	16	200	152	110	19	27	4	M16	0.58
4"	100	16	229	190	133	19	28	8	M16	0.73
6"	150	16	285	241	190	22	32	8	M20	1.09
8"	200	16	340	296.5	250	22	34	8	M20	1.39
10"	250	16	406	362	310	26	38	12	M20	1.91
12"	300	16	483	432	348	26	42	12	M20	3.66



HDPE Fabricated Segments Sweep Bend

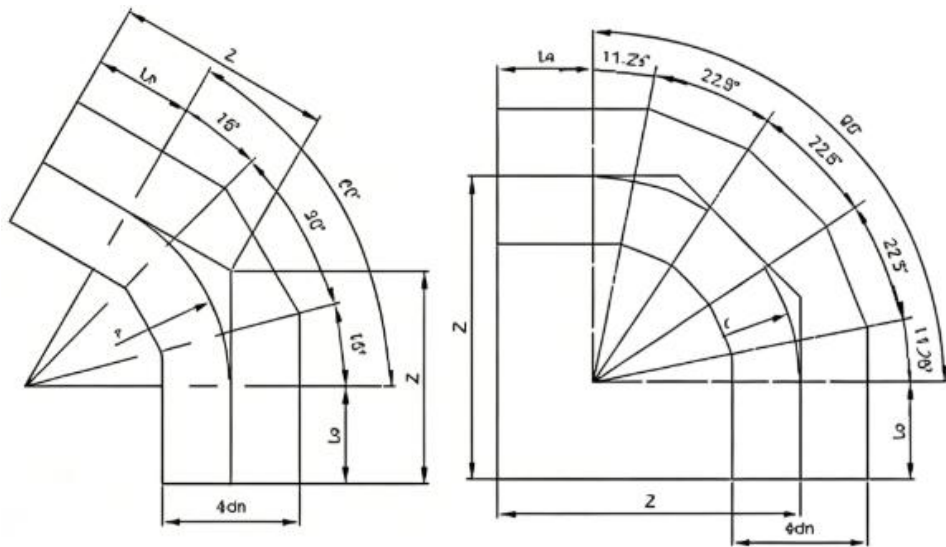


Φdn	Φdn	r	Le min mm	Z min(mm)	
mm	inch	mm	mm	45°	30°
90	3	135	100	156	136
110	4	165	150	218	194
125	5	188	150	228	200
140	5.5	210	150	237	206
160	6	240	150	249	214
180	6	270	150	262	222
200	8	300	150	274	230
225	8	338	150	290	241
250	10	375	250	412	350
280	10	420	250	424	362
315	12	473	300	498	428
355	14	533	300	520	443
400	16	600	300	548	461
450	18	675	300	580	481
500	20	750	350	665	551
560	22	840	350	698	575
630	24	945	350	741	603
710	28	1065	350	792	636
800	32	1200	350	847	672
900	36	1350	400	960	762
1000	40	1500	400	1022	802
1200	48	1800	400	1146	882
1400	54	2100	400	1270	963
1600	64	2400	400	1394	1043

$r=1,5d$

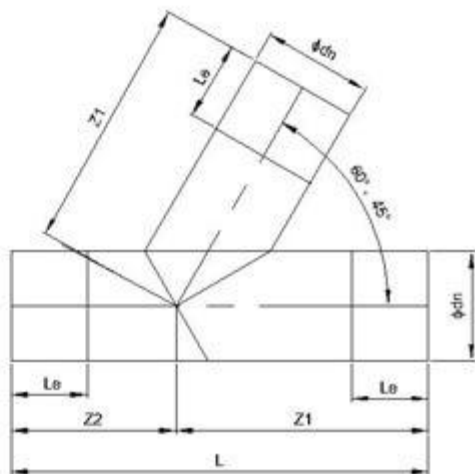
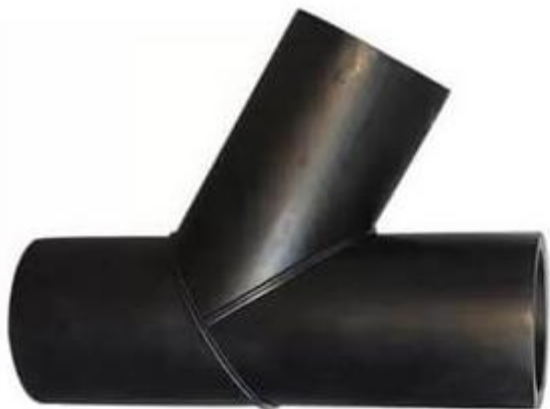


HDPE Fabricated Segments Sweep Bend



Φdn	Φdn inch	r	Le min	Z min(mm) 60°	
mm	inch	mm	mm	90°	60°
90	3	135	100	235	178
110	4	165	150	315	245
125	5	188	150	338	258
140	5 1/2	210	150	360	271
160	6	240	150	440	288
180	6	270	150	470	305
200	8	300	150	500	323
225	8	338	150	538	345
250	10	375	250	625	466
280	10	420	250	670	492
315	12	473	300	773	576
355	14	533	300	833	608
400	16	600	300	900	646
450	18	675	300	975	689
500	20	750	350	1100	783
560	22	840	350	1190	835
630	24	945	350	1295	896
710	28	1065	350	1415	965
800	32	1200	350	1550	1043
900	36	1350	400	1750	1179
1000	40	1500	400	1900	1266
1200	48	1800	400	2200	1439
1400	54	2100	400	2500	1612
1600	64	2400	400	2800	1786

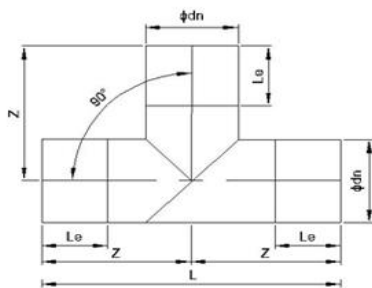
r=1,5d



Φdn	Φdn	Le min	L min	Z1 min	Z2 min
mm	inch	mm	mm	mm	mm
90	3	100	650	385	265
110	4	150	700	425	275
125	5	150	745	455	290
140	5 1/2	150	781	475	306
160	6	150	842	512	330
180	6	150	900	550	350
200	8	150	959	587	375
225	8	150	1030	630	400
250	10	250	1305	780	525
280	10	250	1395	830	565
315	12	300	1490	890	600
355	14	300	1555	930	625
400	16	300	1650	1000	650
450	18	300	1725	1050	675
500	20	350	1900	1150	750
560	22	350	1980	1200	780
630	24	350	2045	1250	795
710	28	350	2170	1340	830
800	32	350	2310	1430	880
900	36	400	2310	1620	970
1000	40	400	2590	1660	1010
1200	48	400	2680	1750	1100
1400	54	400	3000	1800	1200
1600	64	400	3000	1800	1200

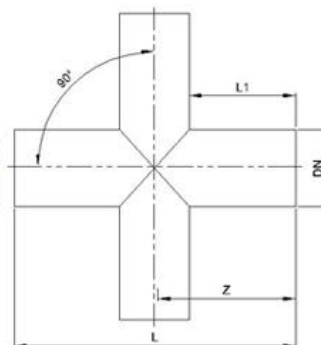


Fabricated HDPE Tee



Φdn mm	Φdn inch	L_0 min mm	L min mm	Z min mm
90	3	100	590	295
110	4	150	610	305
125	5	150	630	315
140	5.5	150	640	320
160	6	150	660	330
180	6	150	680	340
200	8	150	700	350
225	8	150	730	365
250	10	250	1150	575
280	10	250	1180	590
315	12	300	1320	660
355	14	300	1360	680
400	16	300	1400	700
450	18	300	1450	725
500	20	350	1600	800
560	22	350	1660	830
630	24	350	1730	865
710	28	350	1810	905
800	32	350	1900	950
900	36	400	2100	1050
1000	40	400	2200	1100
1200	48	400	2400	1200
1400	54	400	2400	1200
1600	64	400	2400	1200

Fabricated HDPE Cross Tee



DN mm	DN inch	L mm	L1 mm
50	1 1/2	390	170
63	2	403	170
75	2 1/2	415	170
90	3	430	170
110	4	670	280
125	5	685	280
140	5 1/2	700	280
160	6	720	280
180	6	780	300
200	8	800	300
225	8	825	300
250	10	850	300
280	10	880	300
315	12	915	300
355	14	1155	400
400	16	1200	400
450	18	1750	650
500	20	1800	650

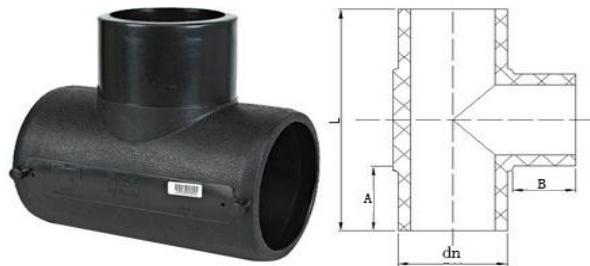


Electrofusion Coupler



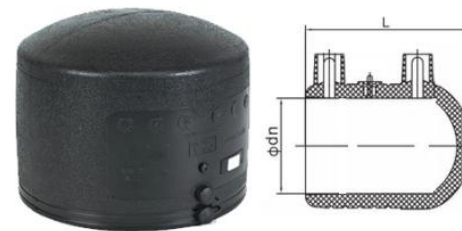
Φdn	L	A	Φd
20	85	40	4.7
25	90	43	4.7
32	90	43	4.7
40	97	47	4.7
50	95	45	4.7
63	110	50	4.7
75	120	55	4.7
90	135	65	4.7
110	155	75	4.7
125	169	83	4.7
140	170	80	4.7
160	195	95	4.7
180	210	103	4.7
200	220	105	4.7
225	230	110	4.7
250	240	115	4.7
280	226	109	4.7
315	285	135	4.7
355	290	140	4.7
400	315	150	4.7
450	320	155	4.7
500	330	160	4.7
560	340	160	4.7
630	420	200	4.7

Electrofusion Equal Tee



Φdn	L	A	B
20	100	40	44
25	105	42	50
32	120	45	55
40	126	45	60
50	145	55	60
63	175	50	55
75	205	55	60
90	230	65	70
110	265	75	75
125	255	80	85
140	320	80	80
160	365	95	100
180	340	95	105
200	435	105	110
225	460	110	110
250	485	125	140
315	575	140	145
355	660	140	140
400	740	150	150
450	785	155	155
500	845	160	160

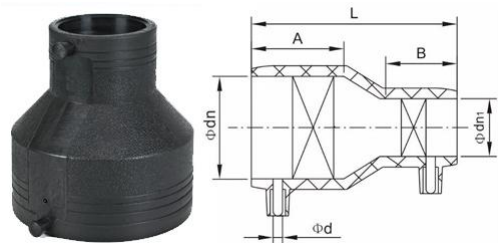
End Cap



Φdn	L
20	82
25	82
32	84
40	97
50	101
63	115
75	125
90	133
110	164
125	175
140	236
160	202
180	214
200	215
225	222
250	220

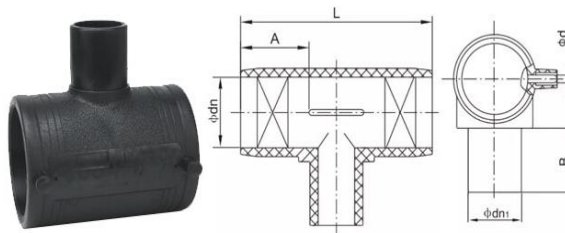


HDPE Electrofusion Reducing Coupler



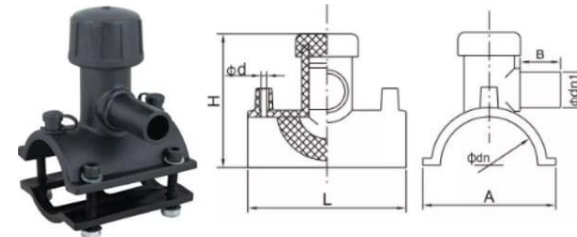
Φdn × Φdn1	L	A	B	Φd	Φdn × Φdn1	L	A	B	Φd
25×20	92	42	37	4.7	200×160	250	105	90	4.7
32×20	94	42	40	4.7	225×110	260	105	76	4.7
32×25	94	42	40	4.7	225×160	260	115	85	4.7
40×25	100	50	40	4.7	225×200	260	115	94	4.7
40×32	102	50	40	4.7	250×110	280	115	80	4.7
50×25	112	55	40	4.7	250×160	280	120	90	4.7
50×32	112	55	42	4.7	250×200	280	120	100	4.7
50×40	115	55	50	4.7	250×225	280	120	89	4.7
63×25	121	60	40	4.7	315×160	310	140	90	4.7
63×32	122	60	40	4.7	315×200	310	140	100	4.7
63×40	120	60	45	4.7	315×225	310	140	100	4.7
63×50	120	50	50	4.7	315×250	310	140	112	4.7
75×50	135	55	50	4.7	355×250	310	140	98	4.7
75×63	135	55	50	4.7	400×250	310	160	114	4.7
90×50	155	65	55	4.7	400×315	310	160	112	4.7
90×63	155	65	55	4.7	450×110	360	170		4.7
90×75	175	65	60	4.7	450×160	360	170		4.7
110×63	163	79	55	4.7	450×250	360	170		4.7
110×75	155	73	63	4.7	450×315	360	170		4.7
110×90	156	77	65	4.7	450×400	360	170		4.7
125×63	160	80	60	4.7	500×110	350	180		4.7
125×90	168	83	70	4.7	500×140	350	180		4.7
125×110	168	88	69	4.7	500×160	350	180		4.7
160×90	230	75	75	4.7	500×250	350	180		4.7
160×110	230	95	75	4.7	500×315	350	180		4.7
160×125	193	95	75	4.7	500×355	350	180		4.7
200×90	210	90	75	4.7	500×400	350	180		4.7
200×110	290	105	80	4.7	500×450	350	180		4.7

HDPE Electrofusion Reducing Tee



Φdn × Φdn1	L	A	B	Φdn × Φdn1	L	A	B
25×20	105	42	50	140×90	280	85	80
32×20	120	45	50	160×40	305	90	50
32×25	120	45	50	160×63	230	90	75
40×20	125	45	55	160×75	305	90	75
40×25	125	45	55	160×90	250	90	95
40×32	125	45	55	160×110	270	90	95
50×25	145	50	50	160×125	285	90	95
50×32	145	50	55	200×63	360	95	63
50×40	145	50	55	200×90	360	95	63
63×25	130	50	55	200×110	360	95	70
63×32	135	50	55	200×160	360	95	90
63×40	140	50	55	225×110	395	100	85
63×50	165	50	60	225×160	395	100	100
75×32	195	70	60	250×90	405	100	80
75×40	195	70	65	250×110	405	100	95
75×50	195	70	65	250×160	405	100	110
75×63	195	70	70	250×200	405	98	110
90×32	210	70	60	315×110	525	134	95
90×40	210	70	60	315×160	525	134	95
90×50	210	70	60	315×200	525	134	95
90×63	210	70	65	315×250	525	134	102
90×75	210	70	70	355×160			
110×32	240	75	63	355×250			
110×40	240	75	63	355×315			
110×50	240	75	63	400×110	600	121	98
110×63	240	75	63	400×160	600	127	99
110×75	240	75	70	400×200	600	127	119
110×90	240	75	80	400×250	600	127	108
125×90	255	80	85	400×315	600	127	124

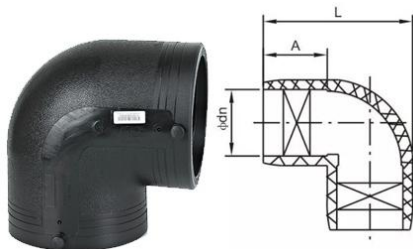
HDPE Tapping Tee



Φdn × Φdn1	L	A	B	H
63×20	115	100	50	120
63×25	115	100	50	120
63×32	115	100	65	120
90×20	130	140	55	145
90×25	130	140	55	145
90×32	130	140	55	145
90×50	140	130	75	185
90×63	140	140	85	140
110×20	130	155	55	130
110×25	130	155	55	130
110×32	130	155	60	130
110×40	145	160	60	145
110×50	145	160	60	145
110×63	145	160	70	145
160×25	142	195	65	142
160×32	142	195	70	142
160×50	190	240	85	190
160×63	190	240	85	190
160×90	190	240	120	190
200×63	190	250	85	190
200×90	190	250	120	190
225×32	190	250	65	190
225×63	190	250	85	190
225×90	190	250	120	190
250×63	190	305	90	190
250×90	190	305	115	190
315×63	190	315	85	190
315×90	190	315	155	190



90 Degree Elbow



$\Phi dn \times 90^\circ$	L	A
25×90°	86	42
32×90°	94	43
40×90°	95	48
50×90°	112	52
63×90°	130	54
75×90°	152	64
90×90°	173	64
110×90°	200	73
125×90°	225	79
140×90°	238	79
160×90°	265	80
180×90°	295	85
200×90°	330	100
225×90°	355	104
250×90°	395	114
315×90°	482	128
355×90°	523	126
400×90°	590	139
450×90°	650	155
500×90°	705	160

Electrofusion Stub End



Φdn	L	A
50	115	90
63	120	105
75	130	125
90	145	140
110	150	160
140	155	190
160	160	215
200	180	270
225	175	315
250	130	325
315	135	380
355	170	450
400	160	495
450	190	560
500	230	580
560	240	650
630	270	750

45 Elbow Fings



$\Phi dn \times 45^\circ$	L	A
50×45°	135	50
63×45°	180	63
75×45°	167	63
90×45°	230	84
110×45°	285	90
125×45°	245	80
140×45°	270	85
160×45°	285	85
200×45°	330	100
225×45°	350	104
250×45°	420	114
315×45°	470	130
355×45°	495	128
400×45°	580	138



PVC-U Water Supply Pipe



Product Overview

Unplasticized polyvinyl chloride (PVC-U) water supply pipe is an all-plastic product, mainly made of polyvinyl chloride with high-performance processing aids, formed by high-speed extrusion. It has similar application scenarios to traditional pipes but better performance, and is widely used in water supply projects.

Core Advantages

Compared with traditional pipes, PVC-U water supply pipes have advantages of light weight, corrosion resistance, low water flow resistance, energy saving, quick installation and low cost. High-efficiency heat stabilizers are added during processing, which are environmentally friendly and ensure the pipe's sanitary performance.

Application Scenarios

PVC-U water supply pipes are widely used in various fields, with specific application scenarios as follows:

1. Municipal buried water supply and drainage projects.
2. Water supply and drainage in buildings.
3. Township water supply projects.
4. Agricultural irrigation and drainage projects.
5. Protective jacket for power and communication cables.
6. Chemical corrosion protection and non-toxic medium transportation in chemical plants.



PVC-U Drainage Pipe



Product Overview

PVC-U Drainage Pipe is a high-performance product for building drainage, sewage discharge and tap water transportation, widely used for its safety and multiple advantages.

Core Benefits

Core benefits of PVC-U pipes: easy installation, 50-year service life; excellent corrosion, chemical and temperature resistance, high impact strength; smooth inner wall (30% lower head loss than cast iron pipes); high mechanical strength (tensile strength >45Mpa); light weight (1/6 of cast iron pipes, 30% lower total project cost); non-toxic, sanitary and up to drinking water standards.

Application Scenarios

1. Building drainage and sewage systems
2. Tap water pipelines
3. Corrosion-resistant, high-efficiency water-related projects
4. Non-toxic, sanitary and long-service-life required projects



PVC-M High Impact Pipe



Product Overview

PVC-M High Impact Pipe is an all-plastic product, mainly made of polyvinyl chloride resin with high-performance processing aids, formed by high-speed extrusion or injection molding. It is improved from traditional PVC-U building drainage pipes, with enhanced anti-ultraviolet performance to avoid aging and discoloration caused by light exposure.

Core Advantages

Compared with traditional pipes, PVC-M High Impact Pipe has advantages of light weight, corrosion resistance, low water flow resistance, energy saving, quick installation and low cost. It also has enhanced anti-ultraviolet performance, solving the problem of aging and discoloration due to light exposure.

Application Scenarios

1. Indoor and outdoor or buried building drainage
2. UV-resistant PVC rain downspouts
3. Industrial sewage discharge
4. Ventilation pipes



PVC-M High Impact Pipe



Product Overview

PVC-U drainage pipes are high-quality products made of high-grade raw materials, with complete specifications, widely used in building drainage and sewage systems.

Core Benefits

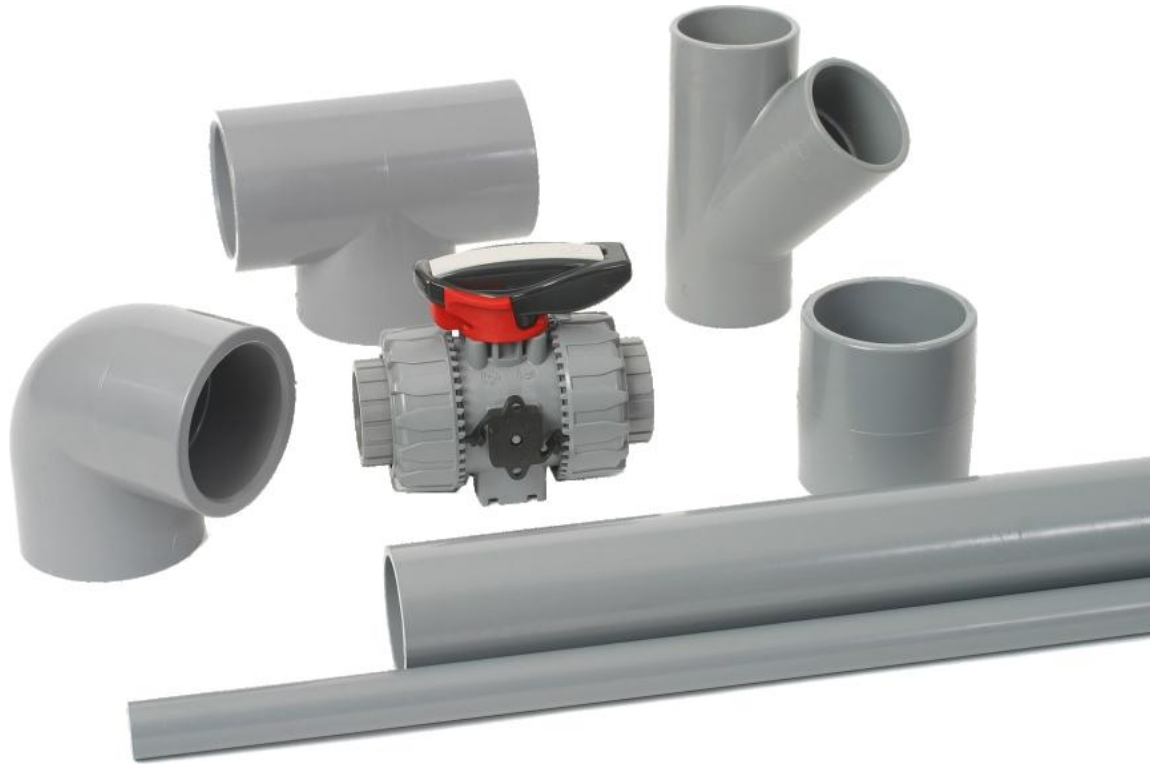
Core benefits: anti-ultraviolet, anti-aging and long service life; excellent corrosion, chemical and temperature resistance; smooth walls, high conveying efficiency; light, easy to install and maintain, cost-saving; reliable connection; beautiful appearance.

Application Scenarios

Ideal for building drainage and sewage, suitable for scenarios requiring reliable performance, easy construction and nice appearance.



PVC-M High Impact Pipe



Product Overview

PVC-M water supply high-impact pipes adopt foreign advanced technology. On the basis of retaining the high strength of PVC materials, they enhance ductility and crack resistance through physical modification, with better toughness and high pressure-bearing capacity. The products have passed tests by authoritative organizations and meet relevant national and corporate standards, reaching the domestic advanced level.

Core Advantages

Core advantages: retain PVC material's high strength; enhanced ductility and crack resistance via physical modification; good toughness and high pressure-bearing capacity; tested by authoritative organizations; comply with national and corporate standards; reach domestic advanced level.

Application Scenarios

1. Reclaimed water system and indoor water supply system of civil and industrial buildings
2. Buried water supply system in residential areas
3. Piping system of water treatment plants
4. Marine aquaculture
5. Garden irrigation, well sinking and other projects



PVC-UH Water Supply Pipe



Product Overview

The high-performance rigid polyvinyl chloride pipe (PVC-UH) for water supply is made of polyvinyl chloride (PVC compound) with a minimum required strength (MRS) $\geq 25\text{MPa}$, extruded and with an integrated steel skeleton seal ring bearing mouth structure. The PVC-UH pipes produced by DEF Pipeline adopt high-efficiency and high-quality heat stabilizers and advanced production technology to ensure the quality and sanitary performance of the pipes.

Core Advantages

Core advantages: Made of PVC compound with MRS $\geq 25\text{MPa}$; integrated steel skeleton seal ring bearing mouth structure; adopts high-efficiency heat stabilizers and advanced production technology; ensures product quality and sanitary performance.

Application Scenarios

1. Water supply in pipe gallery
2. Municipal water supply, drainage and sewage
3. Building water supply
4. Township water supply
5. Chemical medium transportation



PVC-M High Impact Pipe



Product Overview

PVC-M water supply high-impact pipes adopt foreign advanced technology. On the basis of retaining the high strength of PVC materials, they enhance ductility and crack resistance through physical modification, with better toughness and high pressure-bearing capacity. The products have passed tests by authoritative organizations and meet relevant national and corporate standards, reaching the domestic advanced level.

Core Advantages

Benefits of PVC-M High Impact Pipe: Excellent toughness and impact resistance to resist point loads and uneven foundation settlement; strong chemical, acid, alkali and corrosion resistance; smooth inner wall with small fluid resistance and no scaling; simple construction, adapting to construction environment and reducing project cost; light weight for convenient handling; good watertightness with looper socket or TS socket connection.

Application Scenarios

1. Reclaimed water system and indoor water supply system of civil and industrial buildings
2. Buried water supply system in residential areas
3. Piping system of water treatment plants
4. Marine aquaculture
5. Garden irrigation, well sinking and other projects



PVC-UH Water Supply Pipe



Product Overview

PVC-UH water supply pipes are made of PVC compound (MRS $\geq 25\text{MPa}$), extruded with an integrated steel skeleton seal ring structure. DEF Pipeline's products use high-efficiency heat stabilizers and advanced technology to ensure quality and sanitation.

Core Advantages

Benefits of PVC-UH Pipes: Over 50-year service life, advanced technology; good water pressure resistance, ring stiffness, impact resistance and water hammer resistance (flattening experiment reaches 40% of pipe outer diameter); excellent chemical, acid and alkali resistance; easy construction, light weight, cost-saving; stable, watertight connection via steel frame rubber ring or all-plastic fittings.

Application Scenarios

1. Water supply in pipe gallery
2. Municipal water supply, drainage and sewage
3. Building water supply
4. Township water supply
5. Chemical medium transportation

PVC Casing Pipe&Filter Pipe



Product Overview

The PVC-U water well piping system is a new plastic piping product developed by Def Pipeline based on PVC-U water supply piping characteristics and market demand through decades of production practice. It includes special PVC-U well wall pipes and PVC-U water filter pipes, connected by high-strength threaded connections; the filter pipes are processed with Def Pipeline's patented sling equipment.

Core Advantages

Core advantages: Developed based on rich production experience and market demand; composed of special well wall pipes and filter pipes; high-strength threaded connection for stability; filter pipes processed with patented sling equipment to ensure quality.

Application Scenarios

1. Water supply in pipe gallery
2. Municipal water supply, drainage and sewage
3. Building water supply
4. Township water supply
5. Chemical medium transportation



PVC Casing Pipe&Filter Pipe



Product Overview

PVC casing pipe and filter pipe are high-performance plastic piping products, designed with advanced production technology to meet the needs of various well and piping applications. They are processed with professional technology to ensure stable performance and wide adaptability in different working environments.

Core Benefits

Core benefits of PVC Casing Pipe&Filter Pipe: Over 50 years of service life with advanced production technology; excellent pressure resistance, ring stiffness and impact resistance; chemical stability, suitable for various water qualities; reasonable density for safe and labor-saving pipe running; light weight, low cost (1/3 of the same-spec steel pipes); stable and watertight connection via integral rubber ring or all-plastic fittings.

Application Scenarios

Main application scenarios for PVC casing pipe and filter pipe include various well projects, water supply and drainage systems, and chemical medium transportation, adapting to different water qualities and construction environments.



PVC Casing Pipe&Filter Pipe



Product Overview

The PVC-U water well piping system is a new plastic piping product developed by Def Pipeline based on PVC-U water supply piping characteristics and market demand through decades of production practice. It includes special PVC-U well wall pipes and PVC-U water filter pipes, connected by high-strength threaded connections; the filter pipes are processed with Def Pipeline's patented sling equipment.

Core Advantages

Core advantages: Developed based on rich production experience and market demand; composed of special well wall pipes and filter pipes; high-strength threaded connection for stability; filter pipes processed with patented sling equipment to ensure quality.

Application Scenarios

1. Water supply in pipe gallery
2. Municipal water supply, drainage and sewage
3. Building water supply
4. Township water supply
5. Chemical medium transportation



CPVC Power Pipe



Product Overview

CPVC power pipe is a cable protection pipe, with performance indicators up to or exceeding domestic similar products after national and provincial tests and certifications, better than traditional asbestos and ordinary PVC cable pipes.

Core Benefits

Core benefits: High strength, good flexibility, high temperature resistance, corrosion resistance, flame retardant, good insulation; pollution-free, anti-aging, light weight and easy to construct.

Application Scenarios

1. Urban power grid construction and transformation
2. Urban municipal renovation projects
3. Civil aviation airport engineering construction
4. Engineering parks and communities construction
5. Traffic, road and bridge construction, urban street lamp cable laying



CPVC Power Pipe



Product Overview

CPVC power pipe is a cable protection pipe with excellent performance, passing national and provincial tests and certifications, and its overall performance is better than traditional cable pipes.

Core Benefits

Benefits of CPVC Power Pipe: Heat-resistant (no deformation above 93°C), high insulation (withstands over 30,000V), flame-retardant; easy to construct, impact-resistant, tough; light weight, cost-saving; good low-temperature impact (withstands 1kg hammer impact at 0°C from 2m height).

Application Scenarios

1. Urban power grid construction and transformation
2. Urban municipal renovation projects
3. Civil aviation airport engineering construction
4. Engineering parks and communities construction
5. Traffic, road and bridge construction, urban street lamp cable laying



PVC Piping: An Economical and Versatile Piping Solution

Solution Introduction

Thanks to their exceptional cost-effectiveness and mature technology, PVC pipes have become the preferred choice in the fields of water supply and drainage, as well as power and telecommunications. The PVC-U/C piping systems provided by Henan Lukuang deliver economical, reliable, and high-performance engineering solutions for our clients.



Chemical-resistant

It possesses excellent corrosion resistance against chemical substances such as acids, alkalis, and salts, making it suitable for complex operating conditions.



Convenient and Efficient Installation

Its lightweight nature facilitates easy handling, supports various connection methods, and significantly shortens construction schedules while reducing labor costs.



Excellent Insulation Performance

PVC-U is an excellent electrical insulator, making it highly suitable for engineering applications such as power cable sheathing conduits.



High Cost-Effectiveness

With low overall procurement costs and simple subsequent maintenance, it represents an ideal engineering choice for those seeking cost-effectiveness.



PRODUCT SERIES | PVC-U / PVC-C



PVC Pipe Product Matrix: Comprehensive Coverage to Meet Diverse Engineering Needs



PVC-U Water Supply Pipe

Application Areas: Urban Water Supply, Agricultural Irrigation Systems

Specifications: Nominal Diameter DN20–630 mm | Pressure PN0.63–1.6 MPa

Execution Standard: GB/T 10002.1-2016



PVC-U Drainage Pipe

Application Areas: Indoor and outdoor drainage for buildings; municipal sewage disposal for residential communities.

Specifications: Nominal Diameter DN50–400 mm | Smooth Inner Wall, Unobstructed Drainage

Execution Standard: GB/T 5836.1-2018



PVC-C Chemical Piping

Application Fields: Chemical, Metallurgical, and Pharmaceutical Industries (Transport of Corrosive Fluids)

Specifications: Nominal Diameter DN15–400 mm | Excellent Temperature and Pressure Resistance

Execution Standard: HG/T 20538-2016



PVC-U Power Cable Conduit

Application Areas: High-voltage power cable laying, communication cable threading and protection.

Specifications: Nominal Diameter DN50–200 mm | Excellent Insulation and Heat Resistance

Implementing Standard: GB/T 20041-2015



PVC Pipe Application Case Studies: Widely Used and Highly Trusted



Large-scale Residential Development Project

The extensive use of PVC-U drainage pipes ensures the stability and hygiene of the residential community's drainage system, effectively enhancing the quality of the living environment.



Chemical Plant Acid and Alkali Wastewater Treatment Project

Chemical Plant Acid and Alkali Wastewater Treatment Project



Urban Power Grid Upgrade Project

The use of high-strength CPVC power conduits provides reliable physical and chemical protection for underground cables, enabling them to withstand complex subterranean environments.



EN ISO 1452-2 : Plastics piping systems for water supply and for buried and above-ground drainage and sewerage under pressure - Unplasticized poly(vinyl chloride) (PVC-U)

Nominal Outside Diameter	Pipe Series S						
	S 20	S 16	S 12.5	S 10	S 8	S 6.3	S 5
	SDR 41	SDR 33	SDR 26	SDR 21	SDR 17	SDR 13.6	SDR 11
DN	Nominal Pressure PN based on design coefficient C = 2.5						
mm	Nominal (minimum) Wall Thickness						
		PN 6	PN 8	PN 10	PN 12.5	PN 16	PN 20
12	-	-	-	-	-	-	1.5
16	-	-	-	-	-	-	1.5
20	-	-	-	-	-	1.5	1.9
25	-	-	-	-	1.5	1.9	2.3
32	-	-	1.5	1.6	1.9	2.4	2.9
40	-	1.5	1.6	1.9	2.4	3	3.7
50	-	1.6	2	2.4	3	3.7	4.6
63	-	2	2.5	3	3.8	4.7	5.8
75	-	2.3	2.9	3.6	4.5	5.6	6.8
90	-	2.8	3.5	4.3	5.4	6.7	8.2
DN	Nominal Pressure PN based on design coefficient C = 2.0*						
mm	PN 6	PN 8	PN 10	PN 12.5	PN 16	PN 20	PN 25
110	2.7	3.4	4.2	5.3	6.6	8.1	10
125	3.1	3.9	4.8	6	7.4	9.2	11.4
140	3.5	4.3	5.4	6.7	8.3	10.3	12.7
160	4	4.9	6.2	7.7	9.5	11.8	14.6
180	4.4	5.5	6.9	8.6	10.7	13.3	16.4
200	4.9	6.2	7.7	9.6	11.9	14.7	18.2
225	5.5	6.9	8.6	10.8	13.4	16.6	-
250	6.2	7.7	9.6	11.9	14.8	18.4	-
280	6.9	8.6	10.7	13.4	16.6	20.6	-
315	7.7	9.7	12.1	15	18.7	23.2	-
355	8.7	10.9	13.6	16.9	21.1	26.1	-
400	9.8	12.3	15.3	19.1	23.7	29.4	-
450	11	13.8	17.2	21.5	26.7	33.1	-
500	12.3	15.3	19.1	23.9	29.7	36.8	-
560	13.7	17.2	21.4	26.7	-	-	-
630	15.4	19.3	24.1	30	-	-	-
710	17.4	21.8	27.2	-	-	-	-
800	19.6	24.5	30.6	-	-	-	-
900	22	27.6	-	-	-	-	-
1000	24.5	30.6	-	-	-	-	-

* To apply a design coefficient of 2.5 (instead of 2.0) for pipes with nominal diameters above 90mm, the next higher pressure rating, PN, shall be chosen.
The nominal wall thickness conform to ISO 4065.
The PN6 values for S 20 and S 16 are calculated with the preferred number 6.3.

ISO 4422-2 Pipes and fittings made of unplasticized poly(vinyl chloride) (PVC-U) for water supply - Specifications

Nominal outside diameters (DN) and nominal wall thickness on based on an overall service (design) coefficient of C = 2.5								
Nominal Outside Diameter DN(mm)	Pipe Series S, SDR Series and Nominal Pressure PN Equivalents							
	S 20	S 16.7	S 16	S 12.5	S 10	S 8	S 6.3	S 5
	SDR 41	SDR 34.4	SDR 33	SDR 28	SDR 21	SDR 17	SDR 13.6	SDR 9
	PN 5	PN 6	PN 6.3	PN 8	PN 10	PN 12.5	PN 16	PN 25
Nominal Wall Thickness e _n								
10	-	-	-	-	-	-	-	1.5
12	-	-	-	-	-	-	-	1.5
16	-	-	-	-	-	-	1.5	1.8
20	-	-	-	-	-	-	1.5	2.3
25	-	-	-	-	-	1.5	1.9	2.8
32	-	-	-	-	1.6	1.9	2.4	3.6
40	-	-	1.5	1.6	1.9	2.4	3	4.5
50	-	-	1.6	2	2.4	3	3.7	5.6
63	1.6	1.9	2	2.5	3	3.8	4.7	7.1
75	1.9	2.2	2.3	2.9	3.6	4.5	5.6	8.4
90	2.2	2.7	2.8	3.5	4.3	5.4	6.7	10.1
Nominal outside diameters (DN) and nominal wall thickness on based on an overall service (design) coefficient of C = 2.0								
Nominal Outside Diameter DN(mm)	Pipe Series S, SDR Series and Nominal Pressure PN Equivalents							
	S 20	S 16	S 12.5	S 10	S 8	S 6.3	S 5	
	SDR 41	SDR 33	SDR 21	SDR 21	SDR 17	SDR 13.6	SDR 11	
	PN 6.3	PN 8	PN 10	PN 12.5	PN 16	PN 20	PN 25	
Nominal Wall Thickness e _n								
110	2.7	3.4	4.2	5.3	6.6	8.1	10	
125	3.1	3.9	4.8	6	7.4	9.2	11.4	
140	3.5	4.3	5.4	6.7	8.3	10.3	12.7	
160	4	4.9	6.2	7.7	9.5	11.8	14.6	
180	4.4	5.5	6.9	8.6	10.7	13.3	16.4	
200	4.9	6.2	7.7	9.6	11.9	14.7	18.2	
225	5.5	6.9	8.6	10.8	13.4	16.6	-	
250	6.2	7.7	9.6	11.9	14.8	18.4	-	
280	6.9	8.6	10.7	13.4	16.6	20.6	-	
315	7.7	9.7	12.1	15	18.7	23.2	-	
355	8.7	10.9	13.6	16.9	21.1	26.1	-	
400	9.8	12.3	15.3	19.1	23.7	29.4	-	
450	11	13.8	17.2	21.5	26.7	33.1	-	
500	12.3	15.3	19.1	23.9	29.7	36.8	-	
560	13.7	17.2	21.4	26.7	-	-	-	
630	15.4	19.3	24.1	30	-	-	-	
710	17.4	21.8	27.2	-	-	-	-	
800	19.6	24.5	30.6	-	-	-	-	
900	22	27.6	-	-	-	-	-	
1000	24.5	30.6	-	-	-	-	-	
To apply an overall design (service) coefficient C of 2.5 for pipes with normal diameters in this table, the next higher pressure rating, PN , shall be selected, e.g an S10 series pipes rated at PN 12.5 will be selected for PN10 applications when a C of 2.5 is required.								



BS 3505: Specification for unplasticized polyvinyl chloride (PVC-U) pressure pipes for cold potable water

Nominal Size	Outside Diameter (mm)		Wall Thickness (mm)							
			Class C		Class D		Class E			
			9 bar		12 bar		15 bar			
inch	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1/2	21.2	21.5	-	-	-	-	1.7	2.1		
3/4	26.6	26.9	-	-	-	-	1.9	2.5		
1	33.4	33.7	-	-	-	-	2.2	2.7		
1 1/4	42.1	42.4	-	-	2.2	2.7	2.7	3.2		
1 1/2	48.1	48.4	-	-	2.5	3	3.1	3.7		
2	60.2	60.5	2.5	3	3.1	3.7	3.9	4.5		
3	88.7	89.1	3.5	4.1	4.6	5.3	5.7	6.6		
4	114.7	114.5	4.5	5.2	6	6.9	7.3	8.4		
5	140	140.4	5.5	6.4	7.3	8.4	9	10.4		
6	168	168.5	6.6	7.6	8.8	10.2	10.8	12.5		
8	218.8	219.4	7.8	9	10.3	11.9	12.6	14.5		
10	272.6	273.4	9.7	11.2	12.8	14.8	15.7	18.1		
12	323.4	324.3	11.5	13.3	15.2	17.5	18.7	21.6		
14	355	356	12.6	14.5	16.7	19.2	20.5	23.6		
16	405.9	406.9	14.5	16.7	19	21.9	23.4	27		
18	456.7	457.7	16.3	18.8	21.4	24.6	-	-		
20	507.5	508.5	18.1	20.9	-	-	-	-		
24	609.1	610.1	21.7	25	-	-	-	-		
Pressure ratings for working pressures at 20°C										

BS 3506: Specification for unplasticized PVC pipe for industrial uses*

Nominal Size	Outside Diameter (mm)		Wall Thickness (mm)									
			Class O		Class B		Class C		Class D		Class E	
			non pressure		6 bar		9 bar		12 bar		15 bar	
			Individual Value		Individual Value		Individual Value		Individual Value		Individual Value	
inch	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)
1/2	21.2	21.5	-	-	-	-	-	-	-	-	1.7	2.1
3/4	26.6	26.9	-	-	-	-	-	-	-	-	1.9	2.5
1	33.4	33.7	-	-	-	-	-	-	-	-	2.2	2.7
1 1/4	42.1	42.4	-	-	-	-	-	-	2.2	2.7	2.7	3.2
1 1/2	48.1	48.4	1.8	2.2	-	-	-	-	2.5	3	3.1	3.7
2	60.2	60.5	1.8	2.2	-	-	2.5	3	3.1	3.7	3.9	4.5
2 1/2	75	75.3	1.8	2.2	-	-	3	3.5	3.9	4.5	4.8	5.5
3	88.7	89.1	1.8	2.2	2.9	3.4	3.5	4.1	4.6	5.3	5.7	6.6
4	114.7	114.5	2.3	2.8	3.4	4	4.5	5.2	6	6.9	7.3	8.4
5	140	140.4	2.6	3.1	3.8	4.4	5.5	6.4	7.3	8.4	9	10.4
6	168	168.5	3.1	3.7	4.5	5.2	6.6	7.6	8.8	10.2	10.8	12.5
7	193.5	194	3.1	3.7	5.2	6	7.7	8.9	10.1	11.7	12.4	14.3
8	218.8	219.4	3.1	3.7	5.3	6.1	7.8	9	10.3	11.9	12.6	14.5
9	244.1	244.8	3.1	3.7	5.9	6.8	8.7	10	11.5	13.3	14.1	16.3
10	272.6	273.4	3.1	3.7	6.6	7.6	9.7	11.2	12.8	14.8	15.7	18.1
12	323.4	324.3	3.1	3.7	7.8	9	11.5	13.3	15.2	17.5	18.7	21.6
14	355	356	3.6	4.2	8.5	9.8	12.6	14.5	16.7	19.2	20.5	23.6
16	405.9	406.9	4.1	4.8	9.7	11.2	14.5	16.7	19	21.9	23.4	27
18	456.7	457.7	4.6	5.3	11	12.7	16.3	18.8	21.4	24.6	-	-
20	507.5	508.5	5.1	5.9	12.2	14.1	18.1	20.9	-	-	-	-
22	558.3	559.3	5.6	6.5	13.4	15.5	19.9	22.9	-	-	-	-
24	609.1	610.1	6.1	7.1	14.6	16.8	21.7	25	-	-	-	-

*1 bar=105 N/M2 + Pipes to these nominal sizes are not normally available from stock.

Note 1 : The Pressure given at the top of the columns for Classes B,C,D and E are the maximum sustained working pressure for which the pipes are suitable and are based on water at a temperature of 63 °C



ASTM D1785 - Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80*

Nominal Size	Outside Diameter (mm)			SCH 40			SCH 80		
				Wall Thickness (mm)		Pressure Rating (bar)	Wall Thickness (mm)		Pressure Rating (bar)
inch	Min (mm)	Max (mm)	Max (mm)	Min (mm)	Max (mm)		Min (mm)	Max (mm)	
1/2	21.34	0.01	21.35	2.77	3.28	41.4	3.73	4.24	58.6
3/4	26.67	0.01	26.68	2.87	3.38	33.1	3.91	4.42	47.6
1	33.4	0.13	33.53	3.38	3.89	31	4.55	5.08	43.4
1 1/4	42.16	0.13	42.29	3.56	4.07	25.5	4.85	5.43	35.9
1 1/2	48.26	0.15	48.41	3.68	4.19	22.8	5.08	5.69	32.4
2	60.32	0.15	60.47	3.91	4.42	19.3	5.54	6.2	27.6
2 1/2	73.02	0.18	73.2	5.16	5.77	20.7	7.01	7.85	29
3	88.9	0.2	89.1	5.49	6.15	17.9	7.62	8.53	25.5
4	114.3	0.23	114.53	6.02	6.73	15.2	8.56	9.58	22.1
5	141.3	0.25	141.55	6.55	7.34	13.1	9.52	10.66	20
6	168.28	0.28	168.56	7.11	7.97	12.4	10.97	12.29	19.3
8	219.08	0.38	219.46	8.18	9.17	11	12.7	14.22	17.2
10	273.05	0.38	273.43	9.27	10.39	9.7	15.06	16.87	15.9
12	323.85	0.38	324.23	10.31	11.55	9	17.45	19.53	15.9
14	355.6	0.38	355.98	11.1	12.45	9.1	19.05	21.34	15.4
16	406.4	0.48	406.88	12.7	14.22	9.1	21.41	23.98	15.4
18	475.2	0.48	475.68	14.27	15.97	9.1	23.8	26.64	15.4
20	508	0.58	508.58	15.06	16.86	8.4	26.19	29.34	15.4
24	609.6	0.79	610.39	17.45	19.53	8.4	30.94	34.65	14.7
Pressure rating based on water at 23°C for unthre add pipes.									

Nominal Size	Outside Diameter (Inch)			SCH 40				SCH 80			
				Wall Thickness (in)		Internal Diameter	Pressure (Psi)	Wall Thickness (in)		Internal Diameter	Pressure Rating
				Min	Max			Min	Max		
Inch	Min (in)	Max (mm)	Max (in)	Min (in)	Max (in)	ID (in)	(Psi)	Min (in)	Max (in)	ID (in)	(Psi)
1/2	0.84	0.004	0.844	0.109	0.226	0.622	600	0.147	0.157	0.546	850
3/4	1.05	0.004	1.054	0.113	0.233	0.824	480	0.154	0.174	0.742	690
1	1.315	0.005	1.32	0.133	0.268	1.049	450	0.179	0.2	0.957	630
1 1/4	1.66	0.005	1.665	0.14	0.281	1.38	370	0.191	0.214	1.278	520
1 1/2	1.9	0.006	1.906	0.145	0.289	1.61	330	0.2	0.224	1.5	470
2	2.375	0.006	2.381	0.154	0.305	2.067	280	0.218	0.244	1.939	400
2 1/2	2.875	0.007	2.882	0.203	0.398	2.469	300	0.276	0.309	2.323	420
3	3.5	0.008	3.508	0.216	0.424	3.068	260	0.3	0.336	2.9	370
4	4.5	0.009	4.509	0.237	0.464	4.026	220	0.337	0.377	3.826	320
5	5.563	0.01	5.573	0.258	0.289	5.047	190	0.375	0.42	4.813	290
6	6.625	0.011	6.636	0.28	0.55	6.065	180	0.423	0.484	5.779	280
8	8.625	0.015	8.64	0.322	0.632	7.981	160	0.5	0.56	7.625	250
10	10.75	0.015	10.765	0.365	0.717	10.02	140	0.593	0.664	9.564	230
12	12.75	0.015	12.765	0.406	0.797	11.938	130	0.687	0.769	11.376	230
14	14	0.015	14.015	0.437	0.859	13.126	130	0.75	0.84	12.5	220
16	16	0.019	16.019	0.5	0.981	15	130	0.843	0.944	14.314	220
18	18	0.019	18.019	0.562	1.101	16.876	130	0.937	1.049	14.126	220
20	20	0.023	20.023	0.593	1.163	18.814	120	1.031	1.155	17.938	220
24	24	0.031	24.031	0.687	1.347	22.626	120	1.218	1.364	21.564	220
Pressure rating based on water at 23°C for unthreaded pipes.											



Specification of PVC Pipes

DIN 8061/62 :2009 : PVC-U Pressure Pipes (SF=2.5)

SF	2.5		2.5		2.5		2.5		2.5		2.5		2.5		2.5		2.5		2.5	
PN	1.6		4		5		6		8		10		12.5		16		20		25	
S	S 63		S 25		S 20		S 16.7		S 12.5		S 10		S 8		S 6.3		S 5		S 4	
SDR	SDR 127		SDR 51		SDR 41		SDR 34.4		SDR 26		SDR 21		SDR 17		SDR 13.6		SDR 11		SDR 9	
Nominal Outside Diameter DN(mm)	e		e		e		e		e		e		e		e		e		e	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
Wall Thickness (mm)																				
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1	1.5	1.4	1.8
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	1.6	1.5	1.9	1.8	2.2
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	1.9	1.9	2.3	2.3	2.8
25	-	-	-	-	-	-	-	-	-	-	-	-	1.5	1.9	1.9	2.3	2.3	2.8	2.8	3.3
32	-	-	-	-	-	-	-	-	-	1.6	2	1.9	2.3	2.4	2.9	2.9	3.4	3.6	4.2	4.2
40	-	-	-	-	-	-	-	1.6	2	1.9	2.3	2.4	2.9	3	3.5	3.7	4.3	4.5	5.2	5.2
50	-	-	-	-	-	-	1.5	1.9	2	2.4	2.9	3	3.5	3.7	4.3	4.6	5.3	5.6	6.4	6.4
63	-	-	-	-	1.6	2	1.9	2.3	2.5	3	3.5	3.8	4.4	4.7	5.4	5.8	6.6	7	7.9	7.9
75	-	-	1.5	1.9	1.9	2.3	2.2	2.7	2.9	3.4	3.6	4.2	4.5	5.2	5.6	6.4	6.8	7.7	8.4	9.5
90	-	-	1.8	2.2	2.2	2.7	2.7	3.2	3.5	4.1	4.3	5	5.4	6.2	6.7	7.6	8.2	9.3	10.1	11.4
110	1.8	2.2	2.2	2.7	2.7	3.2	3.2	3.8	4.2	4.9	5.3	6.1	6.6	7.5	8.1	9.2	10	11.2	12.3	13.8
125	1.8	2.2	2.5	3	3.1	3.7	3.7	4.3	4.8	5.5	6	6.8	7.4	8.4	9.2	10.4	11.4	12.8	14	15.6
140	1.8	2.2	2.8	3.3	3.5	4.1	4.1	4.8	5.4	6.2	6.7	7.6	8.3	9.4	10.3	11.6	12.7	14.2	15.7	17.5
160	1.8	2.2	3.2	3.8	4	4.6	4.7	5.4	6.2	7.1	7.7	8.7	9.5	10.7	11.8	13.2	14.6	16.3	17.9	19.9
180	1.8	2.2	3.6	4.2	4.4	5.1	5.3	6.1	6.9	7.8	8.6	9.7	10.7	12	13.3	14.9	16.4	18.3	20.1	22.4
200	1.8	2.2	3.9	4.5	4.9	5.6	5.9	6.7	7.7	8.7	9.6	10.8	11.9	13.3	14.7	16.4	18.2	20.3	22.4	24.9
225	1.8	2.2	4.4	5.1	5.5	6.3	6.6	7.5	8.6	9.7	10.8	12.1	13.4	15	16.6	18.5	20.5	22.8	25.2	28
250	2	2.4	4.9	5.6	6.2	7.1	7.3	8.3	9.6	10.8	11.9	13.3	14.8	16.5	18.4	20.5	22.7	25.2	27.9	30.9
280	2.2	2.7	5.5	6.3	6.9	7.8	8.2	9.3	12	13.4	13.4	15	16.6	18.5	20.6	22.9	25.4	28.2	31.3	34.7
315	2.5	3	6.2	7.1	7.7	8.7	9.2	10.4	13.5	15.1	15	16.7	18.7	20.8	23.2	25.8	28.6	31.7	-	-
355	2.8	3.3	7	7.9	8.7	9.8	10.4	11.7	15.2	17	16.9	18.8	21.1	23.5	26.1	29	-	-	-	-
400	3.2	3.8	7.9	8.9	9.8	11	11.7	13.1	17.1	19.1	19.1	21.3	23.7	26.3	29.4	32.6	-	-	-	-
450	3.6	4.2	8.8	9.9	11	12.3	13.2	14.8	19.2	21.4	21.5	23.9	26.7	29.6	-	-	-	-	-	-
500	4	4.6	9.8	11	12.3	13.8	14.6	16.3	21.4	23.8	23.9	26.5	29.7	32.9	-	-	-	-	-	-
560	4.4	5.1	11	12.3	13.7	15.3	16.4	18.3	23.9	26.5	26.7	29.6	-	-	-	-	-	-	-	-
630	5	5.7	12.3	13.8	15.4	17.2	18.4	20.5	25.9	29.8	30	33.2	-	-	-	-	-	-	-	-
710	5.6	6.4	13.9	15.5	17.4	19.4	20.7	23	30.3	33.6	-	-	-	-	-	-	-	-	-	-
800	6.3	7.2	15.7	17.5	19.6	21.8	23.3	25.9	-	-	-	-	-	-	-	-	-	-	-	-
900	7.1	8.1	17.6	19.6	22	24.4	26.3	29.2	-	-	-	-	-	-	-	-	-	-	-	-
1000	7.9	8.9	19.6	21.8	24.5	27.2	29.2	32.4	-	-	-	-	-	-	-	-	-	-	-	-
1200	9.5	10.7	23.5	26.1	29.4	32.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1400	11.1	12.5	27.4	30.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1600	12.6	14.1	31.3	34.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: S = pipe series, SF = safety factor 2.5, PN = working pressure at 20°C for 50 years of service
Suitable for water supply, sewerage and ducting applications.

DIN 8061/62 :2009 : PVC-U Pressure Pipes (SF=2.0)

SF	2		2		2		2		2		2		2		2		2		2		
PN	2		5		6		8		10		12.5		16		20		25		32		
S	S63		S25		S20		S16.7		S12.5		S10		S8		S6.3		S5		S4		
SDR Nominal Outside Diameter DN(mm)	SDR 127		SDR 51		SDR 41		SDR 34.4		SDR 26		SDR 21		SDR 17		SDR 13.6		SDR 11		SDR 9		
	e	e	e	e	e	e	e	e	e	e	e	e	e	e	e	e	e	e	e	e	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
Wall Thickness (mm)																					
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1	1.5	1.4	1.8
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	1.6	1.5	1.9	1.8	2.2
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	1.9	1.9	2.3	2.3	2.8
25	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	1.9	1.9	2.3	2.3	2.8	2.8	3.3
32	-	-	-	-	-	-	-	-	-	-	1.6	2	1.9	2.3	2.4	2.9	2.9	3.4	3.6	4.2	
40	-	-	-	-	-	-	-	-	1.6	2	1.9	2.3	2.4	2.9	3	3.5	3.7	4.3	4.5	5.2	
50	-	-	-	-	-	-	1.5	1.9	2	2.4	2.4	2.9	3	3.5	3.7	4.3	4.6	5.3	5.6	6.4	
63	-	-	-	-	1.6	2	1.9	2.3	2.5	3	3	3.5	3.8	4.4	4.7	5.4	5.8	6.6	7	7.9	
75	-	-	1.5	1.9	1.9	2.3	2.2	2.7	2.9	3.4	3.6	4.2	4.5	5.2	5.6	6.4	6.8	7.7	8.4	9.5	
90	-	-	1.8	2.2	2.2	2.7	2.7	3.2	3.5	4.1	4.3	5	5.4	6.2	6.7	7.6	8.2	9.3	10.1	11.4	
110	1.8	2.2	2.2	2.7	2.7	3.2	3.2	3.8	4.2	4.9	5.3	6.1	6.6	7.5	8.1	9.2	10	11.2	12.3	13.8	
125	1.8	2.2	2.5	3	3.1	3.7	3.7	4.3	4.8	5.5	6	6.8	7.4	8.4	9.2	10.4	11.4	12.8	14	15.6	
140	1.8	2.2	2.8	3.3	3.5	4.1	4.1	4.8	5.4	6.2	6.7	7.6	8.3	9.4	10.3	11.6	12.7	14.2	15.7	17.5	
160	1.8	2.2	3.2	3.8	4	4.6	4.7	5.4	6.2	7.1	7.7	8.7	9.5	10.7	11.8	13.2	14.6	16.3	17.9	19.9	
180	1.8	2.2	3.6	4.2	4.4	5.1	5.3	6.1	6.9	7.8	8.6	9.7	10.7	12	13.3	14.9	16.4	18.3	20.1	22.4	
200	1.8	2.2	3.9	4.5	4.9	5.6	5.9	6.7	7.7	8.7	9.6	10.8	11.9	13.3	14.7	16.4	18.2	20.3	22.4	24.9	
225	1.8	2.2	4.4	5.1	5.5	6.3	6.6	7.5	8.6	9.7	10.8	12.1	13.4	15	16.6	18.5	20.5	22.8	25.2	28	
250	2	2.4	4.9	5.6	6.2	7.1	7.3	8.3	9.6	10.8	11.9	13.3	14.8	16.5	18.4	20.5	22.7	25.2	27.9	30.9	
280	2.2	2.7	5.5	6.3	6.9	7.8	8.2	9.3	12	13.4	13.4	15	16.6	18.5	20.6	22.9	25.4	28.2	31.3	34.7	
315	2.5	3	6.2	7.1	7.7	8.7	9.2	10.4	13.5	15.1	15	16.7	18.7	20.8	23.2	25.8	28.6	31.7	-	-	
355	2.8	3.3	7	7.9	8.7	9.8	10.4	11.7	15.2	17	16.9	18.8	21.1	23.5	26.1	29	-	-	-	-	
400	3.2	3.8	7.9	8.9	9.8	11	11.7	13.1	17.1	19.1	19.1	21.3	23.7	26.3	29.4	32.6	-	-	-	-	
450	3.6	4.2	8.8	9.9	11	12.3	13.2	14.8	19.2	21.4	21.5	23.9	26.7	29.6	-	-	-	-	-	-	
500	4	4.6	9.8	11	12.3	13.8	14.6	16.3	21.4	23.8	23.9	26.5	29.7	32.9	-	-	-	-	-	-	
560	4.4	5.1	11	12.3	13.7	15.3	16.4	18.3	23.9	26.5	26.7	29.6	-	-	-	-	-	-	-	-	
630	5	5.7	12.3	13.8	15.4	17.2	18.4	20.5	26.9	29.8	30	33.2	-	-	-	-	-	-	-	-	
710	5.6	6.4	13.9	15.5	17.4	19.4	20.7	23	30.3	33.6	-	-	-	-	-	-	-	-	-	-	
800	6.3	7.2	15.7	17.5	19.6	21.8	23.3	25.9	-	-	-	-	-	-	-	-	-	-	-	-	
900	7.1	8.1	17.6	19.6	22	24.4	26.3	29.2	-	-	-	-	-	-	-	-	-	-	-	-	
1000	7.9	8.9	19.6	21.8	24.5	27.2	29.2	32.4	-	-	-	-	-	-	-	-	-	-	-	-	
1200	9.5	10.7	23.5	26.1	29.4	32.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1400	11.1	12.5	27.4	30.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1600	12.6	14.1	31.3	34.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: S= pipe series, SF= safety factor 2.0, PN= working pressure at 20°C for 50 years of service																					
Suitable for water supply , sewerage and ducting applications.																					



ASTM D2241 : Standard Specificaon for Poly(Vinyl Chloride) (PVC) Pressure-Rated Pipe. (SDR Series)*

Nominal Size	Outside Diameter (mm)		Wall Thickness (mm)													
			PN 4.3 bar		PN 5.9 bar		PN 8.6 bar		PN 11 bar		PN 13.8 bar		PN 17.2 bar		PN 21.7 bar	
			SDR 64		SDR 41		SDR 32.5		SDR 26		SDR 21		SDR 17		SDR 13.5	
inch	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)
1/2	21.24	21.44	-	-	-	-	-	-	-	-	-	-	-	-	1.575	2.083
3/4	26.57	26.77	-	-	-	-	-	-	-	-	1.524	2.032	1.575	2.083	1.981	2.489
1	33.27	33.53	-	-	-	-	-	-	1.524	2.032	1.6	2.108	1.956	2.464	2.464	2.972
1 1/4	42.03	42.29	-	-	-	-	1.524	2.032	1.626	2.134	2.007	2.515	2.489	2.997	3.124	3.632
1 1/2	48.11	48.41	-	-	-	-	1.524	2.032	1.854	3.362	2.286	2.794	2.845	3.353	3.581	4.089
2	60.17	60.47	-	-	-	-	1.854	2.362	2.311	2.819	2.87	3.378	3.556	4.064	4.47	4.978
2 1/2	72.84	73.2	-	-	-	-	2.236	2.743	2.794	3.302	3.48	3.988	4.293	4.801	8.41	6.071
3	88.7	89.1	-	-	2.159	2.667	2.743	3.251	3.429	3.937	4.242	4.75	5.232	5.867	6.579	7.366
3 1/2	101.4	101.8	-	-	2.489	2.997	3.124	3.632	3.912	4.42	4.826	5.41	5.969	6.68	7.518	8.433
4	114.07	114.53	1.778	2.286	2.794	3.302	3.505	4.013	4.394	4.902	5.426	6.096	6.731	7.544	8.458	9.474
5	141.05	141.55	2.21	2.718	3.454	3.962	7.343	4.877	5.436	6.121	6.731	7.544	8.306	9.296	10.465	11.709
6	168	168.56	2.642	3.15	4.115	4.623	5.182	5.791	6.477	7.264	8.026	8.992	9.906	11.1	12.471	13.97
8	218.7	219.46	3.429	3.937	5.334	5.969	6.731	7.544	8.433	9.449	10.414	11.659	12.903	14.453	-	-
10	272.67	273.43	4.267	4.775	6.655	7.442	8.407	9.423	10.49	11.76	12.979	14.529	16.053	17.983	-	-
12	323.47	324.23	5.055	5.664	7.899	8.839	9.957	11.151	12.446	13.945	15.392	17.247	19.05	21.336	-	-
14	355.22	355.98	-	-	8.661	9.881	10.922	12.243	13.666	15.291	16.916	18.948	20.904	23.419	-	-
16	405.92	406.88	-	-	9.906	11.303	12.497	13.995	15.521	17.501	19.365	21.666	23.901	26.772	-	-
18	456.72	457.68	-	-	11.151	12.7	14.072	15.748	17.577	19.685	21.768	24.384	26.899	30.124	-	-
20	507.42	508.58	-	-	12.396	14.122	15.621	17.501	19.533	21.869	24.181	27.076	29.87	33.452	-	-
24	608.81	610.39	-	-	14.859	16.942	18.745	20.98	23.444	26.264	29.032	32.512	35.865	40.157	-	-
30	760.96	763.04	-	-	18.593	21.184	23.444	26.264	29.312	32.817	36.271	40.615	44.831	50.216	-	-
36	913.13	915.67	-	-	22.301	25.425	28.143	31.521	35.179	39.396	43.536	48.743	53.797	60.249	-	-
*Suitable for water supply, sewerage and ducting applications.																



ASTM F 441 Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe-Schedules 40 and 80

Nom. Pipe Size (in.)	O.D. (in.)	Schedule 40 Dimensions(in)				Schedule 80 Dimensions(in)			
		Average I.D.	Min. Wall	Nom. Wt./Ft.	Max. W.P	Average I.D.	Min. Wall	Nom. Wt./Ft.	Max. W.P
1/4	0.54	0.344	0.088	0.096	780	0.282	0.119	0.117	1130
3/8	0.675	0.473	0.091	0.128	620	0.403	0.126	0.162	920
1/2	0.84	0.602	0.109	0.19	600	0.526	0.147	0.238	850
3/4	1.05	0.804	0.113	0.253	480	0.722	0.154	0.322	690
1	1.315	1.029	0.133	0.371	450	0.936	0.179	0.473	630
1-1/4	1.66	1.36	0.14	0.502	370	1.255	0.191	0.654	520
1-1/2	1.9	1.59	0.145	0.599	330	1.476	0.2	0.793	470
2	2.375	2.047	0.154	0.803	280	1.913	0.218	1.097	400
2-1/2	2.875	2.445	0.203	1.267	300	2.29	0.276	1.674	420
3	3.5	3.042	0.216	1.66	260	2.864	0.3	2.242	370
3-1/2	4	3.521	0.226	1.996	240	3.326	0.318	2.735	350
4	4.5	3.998	0.237	2.363	220	3.786	0.337	3.277	320
5	5.563	5.016	0.258	2.874	190	4.768	0.375	4.078	280
6	6.625	6.031	0.28	4.164	180	5.709	0.432	6.258	280
8	8.625	7.942	0.322	6.268	160	7.565	0.5	9.506	250
10	10.75	9.976	0.365	8.886	140	9.493	0.593	14.095	230
12	12.75	11.889	0.406	11.751	130	11.294	0.687	19.392	230
14	14	13.073	0.437	13.916	130	12.41	0.75	23.261	220
16	16	14.94	0.5	18.167	130	14.213	0.843	29.891	220
18	18	16.809	0.562	22.965	130	16.014	0.937	37.419	220
20	20	18.743	0.593	29.976	120	17.814	1.031	45.789	220
24	24	22.544	0.687	37.539	120	21.418	1.218	64.959	210
Maximum Operating Pressure is applied to 23°C.									



BS EN 1401-1 Plastics piping systems for non-pressure underground drainage and sewerage. Unplasticized poly(vinyl chloride) (PVC-U). Specifications for pipes, fittings and the system.

Outside Diameter(mm)		S 2		S 4		S 8	
		SDR 51		SDR 41		SDR 34	
min	max	e _{min}	e _{max}	e _{min}	e _{max}	e _{min}	e _{max}
110	110.3	-	-	3.2	3.8	3.2	3.8
125	125.3	-	-	3.2	3.8	3.7	4.3
160	160.4	3.2	3.8	4	4.6	4.7	5.4
200	200.5	3.9	4.5	4.9	5.6	5.9	6.7
250	250.5	4.9	5.6	6.2	7.1	7.3	8.3
315	315.6	6.2	7.1	7.7	8.7	9.2	10.4
355	355.6	7	7.9	8.7	9.8	10.4	11.7
400	400.7	7	8.9	9.8	11	11.7	13.1
450	450.8	8.8	9.9	11	12.3	13.2	14.8
500	500.9	9.8	11	12.3	13.8	14.6	16.3
630	631.1	12.3	13.8	15.4	17.2	18.4	20.5
710	711.2	13.9	15.5	17.4	19.4	-	-
800	801.3	15.7	17.5	19.6	21.8	-	-
900	901.5	17.6	19.6	22	24.4	-	-
1000	1001.6	19.6	21.8	24.5	27.2	-	-

*Pipes to these nominal sizes are not normally available from stock.

SDR 51 is applicable for application area code "U" only.

Cable Conduits Of Chlorinated Polyvinyl Chloride(CPVC)-SCJ end

Specif cation dn*e _n (mm)	Mean Outside Diameter d _e (mm)		Nominal wall thickness e _n (mm)		Minimum socket length A _{min} (mm)	First stage minimum length of socket B _{min} (mm)	Minimum ID of socket in second stage d _{min} (mm)
	DN	Limit Deviation	Thickness	Umit Deviation			
110*5.0	110	0.8	5	0.5	100	60	111
139*6.0	139	0.8	6	0.5	120		140.2
167*6.0	167	0.8	6	0.5	140		168.5
167*8.0	167	1	8	0.6			
192*6.5	192	1	6.5	0.5	160		193.8
192*8.5	192	1	8.5	0.6			
219*7.0	219	1	7	0.5	180		221
219*9.5	219	1	9.5	0.8			
Note: Other specifications can be produced according to customer requirements. The color is usually orange red.							



ISO 16422 Pipes and joints made of oriented unplasticized poly(vinyl chloride) (PVC-O) for the conveyance of water under pressure - Specifications

PVC-O Pipes Specification									
Material Classification	Nominal Pressure PN(C=1.6), MPa								
400	1.0		1.25		1.6		2.0		2.5
450		1.25		1.6		2.0		2.5	
500	1.25		1.6		2.0		2.5		
Pipe Series S and Standard Size Ratio SDR									
S	25	12.4	22	18	16	14	12.5	11.2	10
SDR	51	45.8	41	37	33	29	26	23.4	21
DN(mm)	Nominal wall thickness e _n (mm)								
63			1.6	1.8	2	2.2	2.5	2.7	3
75	1.5	1.7	1.9	2.1	2.3	2.6	2.9	3.2	3.6
90	1.8	2	2.2	2.5	2.8	3.1	3.5	3.9	4.3
110	2.2	2.4	2.7	3.1	3.4	3.8	4.2	4.7	5.3
125	2.5	2.8	3.1	3.5	3.9	4.3	4.8	5.1	6
140	2.8	3.1	3.5	3.9	4.3	4.8	5.4	6	6.7
160	3.2	3.5	4	4.4	4.9	5.5	6.2	6.9	7.7
180	3.6	4	4.4	5	5.5	6.2	6.9	7.7	8.6
200	3.9	4.4	4.9	5.5	6.2	6.9	7.7	8.6	9.6
225	4.4	5	5.5	6.2	6.9	7.7	8.6	9.6	10.8
250	4.9	5.5	6.2	6.9	7.7	8.6	9.6	10.7	11.9
280	5.5	6.2	6.9	7.7	8.6	9.7	10.7	12	13.4
315	6.2	6.9	7.7	8.7	9.7	10.8	12.1	13.5	15
355	7	7.8	8.7	9.8	10.9	12.2	13.6	15.2	16.9
400	7.9	8.8	9.8	11	12.3	13.7	15.3	17.1	19.1
450	8.8	9.9	11	12.3	13.8	15.4	17.2	19.2	21.5
500	9.8	11.1	12.3	13.7	15.3	17.1	19.1	21.4	23.9
560	11	12.3	13.7	15.4	17.2	19.2	21.4	23.9	26.7
630	12.3	13.8	15.4	17.3	19.3	21.6	24.1	26.9	30

1. The theoretical calculation of ring stiffness of SDR51 and SDR45. 8 series pipes generally does not exceed 4kN/m². Measures should be taken during buried construction to avoid pipe buckling instability.
 2. The color of the pipe is generally blue.
 3. Unusual specifications are in brackets.

GB/T32018.1-2015 Modified impact resistance poly(vinyl chloride)(PVC-M) pipe system for water

System for Water

Nominal Outside Diameter DN(mm)	Pipe Series S and Nominal Pressure PN					Rubber Ring Joints Minimum Socket Depth m_{min} (mm)	Solvent Cement Joints Minimum Socket Depth m_{min} (mm)
	S20	S16	S12.5	S10	S8		
	SDR41	SDR33	SDR26	SDR21	SDR17		
	PN8	PN10	PN12.5	PN16	PN20		
Nominal Wall Thickness e_n (mm)							
63	2	2	2.5	3	3.8	64	37.5
75	2	2.3	2.9	3.6	4.5	67	43.5
90	2.2	2.8	3.5	4.3	5.4	70	51
110	2.7	3.4	4.2	5.3	6.6	75	61
125	3.1	3.9	4.8	6	7.4	78	68.5
140	3.5	4.3	5.4	6.7	8.3	81	76
160	4	4.9	6.2	7.7	9.5	86	86
180	4.4	5.5	6.9	8.6	10.7	90	96
200	4.9	6.2	7.7	9.6	11.9	94	106
225	5.5	6.9	8.6	10.8	13.4	100	118.5
250	6.2	7.7	9.6	11.9	14.8	105	-
280	6.9	8.6	10.7	13.4	16.6	112	-
315	7.7	9.7	12.1	15	18.7	118	-
355	8.7	10.9	13.6	16.9	21.1	124	-
400	9.8	12.3	15.3	19.1	23.7	130	-
450	11	13.8	17.2	21.5	26.7	138	-
500	12.3	15.3	19.1	23.9	29.7	145	-
560	13.7	17.2	21.4	26.7	-	154	-
630	15.4	19.3	24.1	30	-	165	-
710	17.4	21.8	27.2	-	-	177	-
800	19.6	24.5	30.6	-	-	190	-

1. The minimum required strength of the pipe is not less than 24.5MPa, the nominal wall thickness (en) is determined according to the design stress (as) 16MPa, and the minimum wall thickness of the pipe is 2.0mm.

2. "-" Indicates not recommended.

3. When the length of the pipe is longer than 12 m, the rubber ring joints socket depth m_{min} (mm) needs to be designed separately.



Henan LuKuang offers a comprehensive range of PVC fittings designed to complement our portfolio of U-PVC, M-PVC, O-PVC, and C-PVC pipes and ducting products. We cover the entire spectrum of pipes and fittings available on the market—from basic models to high-end solutions—and play a pivotal role within the piping industry. These fittings find extensive application across a wide array of fields, including the conveyance of high-temperature and corrosive fluids, chemical processing, chilled water distribution, chemical drainage, wastewater treatment, and electroplating processes.

Solvent Cement Joints(SCJ) Type PN10 & PN16



Threaded End Joints Type PN10 & PN16





Rubber Ring Joints(RRJ) Type PN10



Rubber Ring Joints(RRJ) Type PN10





PP COMPRESSION FITTINGS PN10 & PN16



PVC VALVES PN10





Piping Tools

TSCB Series Split-Frame Cutting and Beveling Machine — Specialized Pipe Processing Equipment

Product Overview

A lightweight split-type pipe cutting & beveling machine, installable anywhere on pipelines without disassembly. Fits carbon steel, stainless steel, X80 steel; used in petroleum, chemical, nuclear power for pipeline installation and maintenance.

Core Benefits

- Wide material adaptability (max wall 120mm)
- One-step cutting & beveling, automatic feeding
- Electric/hydraulic/pneumatic power switchable
- Split design for fixed pipelines, narrow spaces
- Durable, customizable bevel functions

Application Scenarios

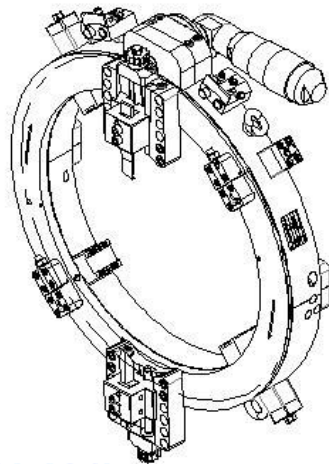
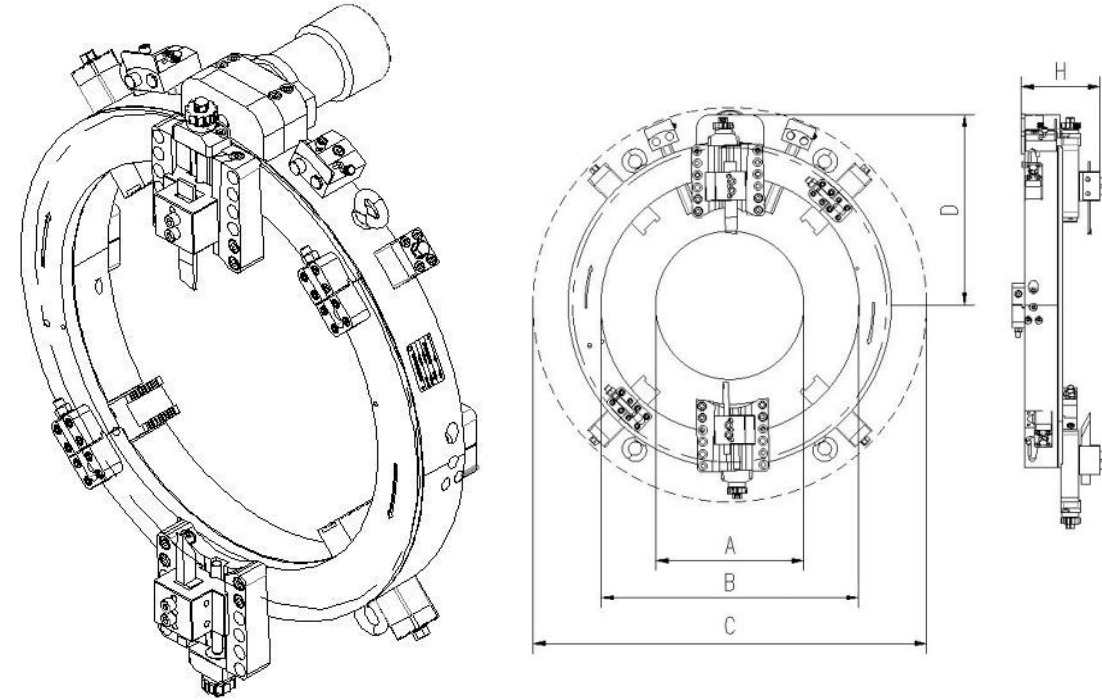
Petroleum, chemical, nuclear power, food, pharmaceutical industries; suitable for fixed pipelines, narrow spaces, flammable-explosive environments.



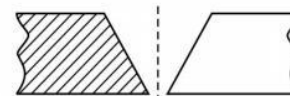


Features

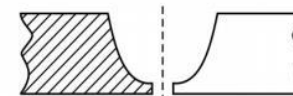
- 1、Material Adaptability: Fits alloy steel, carbon steel, stainless steel, X80 steel; max processing wall thickness 120mm.
- 2、Efficient Installation & Processing: Modular design, one-step cutting & beveling, adjustable automatic multi-pass feeding.
- 3、Flexible Drive: Switchable electric/hydraulic/pneumatic power, good interchangeability.
- 4、Split Design & Durability: Installable anywhere on pipelines; durable alloy structure for diverse scenarios.
- 5、Comprehensive Functions: Supports multiple bevel forms and processing functions (cutting, beveling, boring, repair).
- 6、Power Parameters: Servo motor (2.0/2.6/3.8kw); hydraulic (30L/min, 10Mpa, 380V 50/60Hz).



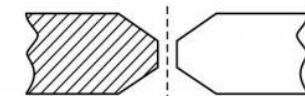
Bevel Type:



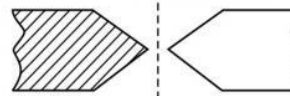
V-Type



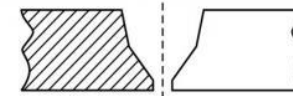
J-Type



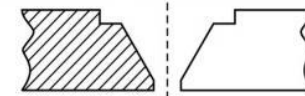
X-Type-1



X-Type-2



Compound Bevel-Type-1



Compound Bevel-Type-2



Technical Specifications

Model	Applicable Pipe Diameter (mm)	Standard Cutting Thickness (mm)	Heavy-duty Cutting Thickness (mm)	Cutter Head Speed (r/min)	Weight (kg)	Outer Diameter (mm)
TSCB206	30-184	≤30	≤40	45	50	50
TSCB408	40-235	≤30	≤60	25	55	55
TSCB610	86-286	≤30	≤60	20	65	65
TSCB612	136-336	≤30	≤120	20	73	73
TSCB814	184-384	≤30	≤120	15	81	81
TSCB1016	238-438	≤30	≤120	15	86	86
TSCB1218	288-488	≤30	≤120	13	92	92
TSCB1420	338-538	≤30	≤120	13	102	102
TSCB1824	436-636	≤30	≤120	13	110	110
TSCB2228	538-738	≤30	≤120	12	155	155
TSCB2632	640-840	≤30	≤120	12	168	168
TSCB3036	756-956	≤30	≤120	11	186	186
TSCB3642	909-1109	≤30	≤120	11	210	210
TSCB4248	1061-1261	≤30	≤120	10	226	226
TSCB4854	1228-1428	≤30	≤120	10	249	249
TSCB5460	1376-1576	≤30	≤120	10	270	270

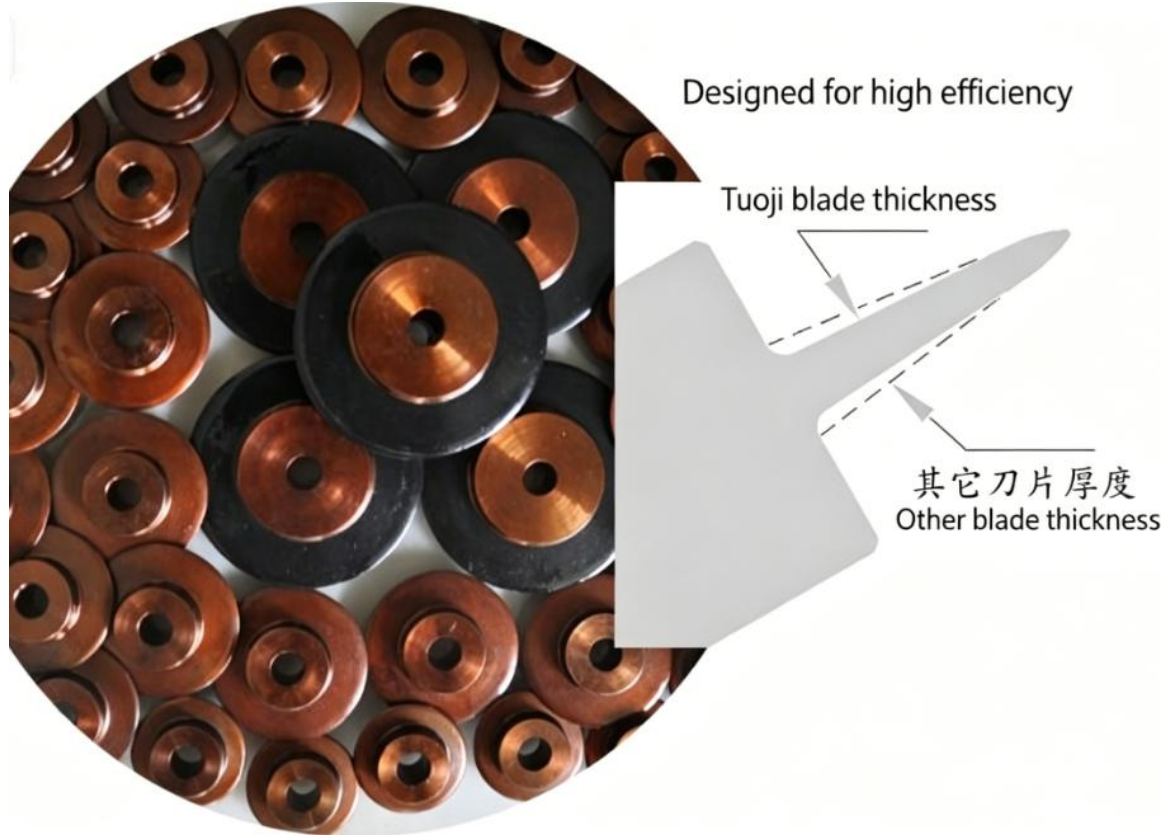
TSCB Series Split-Frame Cutting and Beveling Machine

Installation & External Dimension Parameters

Model	Applicable Pipe Diameter A(mm)	Inner Diameter B (mm)	Operation Space C (mm)	Height D (mm)	Height H (mm)
TSCB206	30-184	184	471	220	160
TSCB408	40-235	235	519	244.5	160
TSCB610	86-286	286	569	270	160
TSCB612	136-336	336	620	295	160
TSCB814	184-384	384	670	320	160
TSCB1016	238-438	438	722	347	160
TSCB1218	288-488	488	773	372	160
TSCB1420	338-538	538	825	397	160
TSCB1824	436-636	636	921	444.5	160
TSCB2228	538-738	738	1053	512	170
TSCB2632	640-840	840	1154	562	170
TSCB3036	756-956	956	1271	620	170
TSCB3642	909-1109	1109	1424	697	170
TSCB4248	1061-1261	1261	1576	772	170
TSCB4854	1228-1428	1428	1769.3	869.5	170
TSCB5460	1376-1576	1576	1921.7	944.5	170



Pipe Cutter Blade



Product Overview

Pipe cutting machine blades are core wearing parts, made of high-hardness alloy with precision heat treatment. They fit mainstream cutter models, cover various pipe materials, apply to multiple industries and support customization.

Core Benefits

- Precise Adaptation: Fits specific cutter models, easy to install and use directly.
- High-Quality Material: Heat-treated alloy for wear resistance and long service life.
- Efficient Cutting: Precision-ground edge, low resistance, smooth and burr-free cuts.
- Clear Classification: Easy to select by material, model and size.
- Wide Application: Suitable for various pipe types and industries.
- Customizable: Supports personalized customization of specifications and models.

Application Scenarios

- Petroleum industry: Pipeline cutting, maintenance and installation.
- Chemical industry: Pipe processing and maintenance operations.



Tube Machine Blade Selection Table (Core Parameters)

Blade Model	Suitable Pipe Cutter	Blade Length (Inch)	Blade Length (mm)	Suitable Pipe Material
THS2	TGW-2	0.288	7.2	Steel Pipe, Stainless Steel, Copper Pipe
THS2 1/2	THC-2 1/2	0.312	7.9	Steel Pipe, Stainless Steel, Copper Pipe
THI2 1/2	THC-2 1/2, TGW-2	0.154	3.9	Cast Iron, Ductile Iron
THX2 1/2	THC-2 1/2	0.383	9.7	Steel Pipe, Stainless Steel, SCH80 Pipe
THS4	THC-4	0.320	8.1	Steel Pipe, Stainless Steel
THI4	THC-4, THC-6	0.258	6.6	Cast Iron, Ductile Iron
THX4	THC-4	0.383	9.7	Steel Pipe, Stainless Steel, SCH80 Pipe
THS6	THC-6	0.390	9.9	Steel Pipe, Stainless Steel
THI6	THC-6, THC-8, THC-12	0.400	10.2	Cast Iron, Ductile Iron
THX6	THC-6	0.476	12.1	Steel Pipe, Stainless Steel, SCH80 Pipe
THS8-12	THC-8, THC-12	0.450	11.4	Steel Pipe, Stainless Steel
THX8-12	THC-8, THC-12	0.567	14.4	Steel Pipe, Stainless Steel, SCH80 Pipe
THXX8-12	THC-8, THC-12	0.682	17.3	Steel Pipe, Stainless Steel, SCH80 Pipe
TRCS8-36	TRC-8/12/16/20/24/30/36	0.635	16.1	Steel Pipe, Stainless Steel
TRCI8-30	TRC-8/12/16/20/24/30/36	0.500	12.7	Cast Iron, Ductile Iron
TRCXS8-30	TRC-8/12/16/20/24/30/36	0.800	20.3	Steel Pipe, Stainless Steel, SCH80 Pipe



Metal Pipe Cutter (Below 2 Inches)



Product Overview

The TWG-2 pipe cutting machine (for pipes under 2 inches) is a compact, lightweight tool (4kg) with 4 blades, designed for small spaces and multiple environments. It adopts straight-line cutting, requires only 90-140° swing, and is ideal for municipal, construction and maintenance industries, supporting custom blades for cast iron.

Core Benefits

- Efficient & Labor-Saving: 4-blade straight-line cutting, low resistance, fast and effortless
- Small Space Adaptation: Short handle, 90-140° swing, suitable for narrow areas.
- Precise Cutting: Smooth, burr-free cuts, no secondary processing.
- Multi-Environment Adaptable: Works stably in wet, flammable, narrow and underwater scenes.
- Portable: Lightweight (4kg), easy to carry and transport.
- Clear Adaptation: For pipes under 2 inches, standard for carbon steel, custom for cast iron.

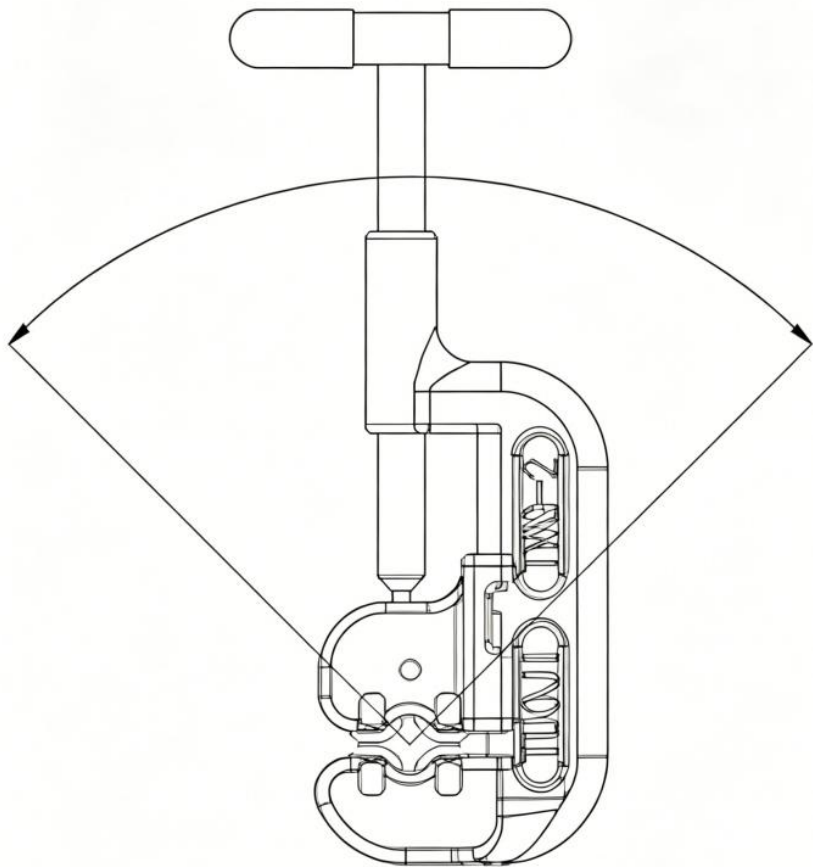
Application Scenarios

Widely used in underground, underwater, flammable, high-altitude/narrow spaces, and conventional scenes such as construction, municipal engineering, and mechanical manufacturing pipeline processing.



Technical Parameters

0-110° Swing

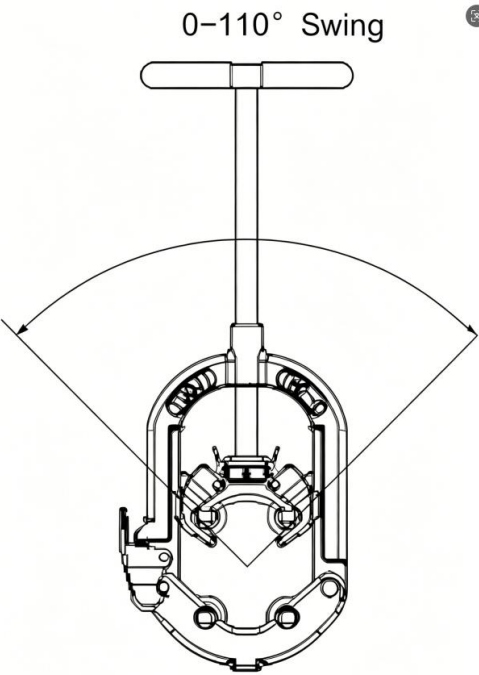


Name	Model	Suitable Pipe Diameter (Inch)	Suitable Pipe Diameter (mm)	Style	Length (Inch)	Length (mm)	Weight (Lb)	Weight (Kg)
Metal Pipe Cutter	TGW-2	1/2-2	21-63	4-Blade	14.3	362	7.2	4



Technical Parameters

Name	Model	Suitable Pipe Diameter (Inch)	Suitable Pipe Diameter (mm)	Length (Inch)	Length (mm)	Weight (Lb)	Weight (Kg)
Hinged Pipe Cutter	THC-2 1/2	1-2 1/2	32-76	17	419	7.2	3.3
Hinged Pipe Cutter	THC-4	2-4	60-125	22	559	12.8	5.8
Hinged Pipe Cutter	THC-6	4-6	114-182	28	711	19.4	8.8
Hinged Pipe Cutter	THC-8	6-8	168-240	32	813	24.4	11.1
Hinged Pipe Cutter	THC-12	8-12	219-356	34	864	34.9	15.9





Hinged Pipe Cutter



Product Overview

The hinged pipe cutting machine (THC series) is a safe, spark- free cold cutting tool with a 4- blade synchronous design. It requires only a 90–110° swing and 102mm operating space, enabling efficient and precise cutting of carbon steel, stainless steel, cast iron, ductile iron, and extra- thick steel pipes. Compact and durable, it is widely used in municipal, petroleum, chemical, mining and other industries, especially for narrow and hazardous working environments.

Core Benefits

- 1.Efficient & labor- saving with 4- blade cutting, only 90–110° reciprocating motion
- 2.Requires only 4" (102mm) operating space, ideal for narrow areas
- 3.Stable guided cutting for straight, burr- free ends without secondary processing
- 4.Spark- free & explosion- proof, safe for flammable and explosive environments
- 5.Works underground, underwater, overhead and in dense pipe areas
- 6.Compatible with various metal pipes, especially ductile iron and thick steel
- 7.Lightweight, sturdy structure for long- term heavy use
- 8.Supports customized blades for different materials

Application Scenarios

Widely applied in underground and underwater pipeline repair, petroleum and chemical hazardous areas, overhead and dense pipe construction, as well as municipal engineering, gas supply, plumbing, mechanical manufacturing and mine drilling pipeline projects.



Rotary Pipe Cutting Machine



Product Overview

The TRC series rotary pipe cutter is a spark-free cold cutting tool with a 4-blade design. It operates within a 90–110° swing and needs only 102mm working space, enabling efficient cutting of carbon steel, stainless steel, cast iron and ductile iron pipes. Safe, labor-saving and durable, it is widely used in municipal, petroleum, chemical and mining industries for various complex working conditions.

Core Benefits

- 1.Requires only 4" (102mm) operating space, ideal for narrow and dense pipe areas
- 2.Spark-free cold cutting, safe for flammable, explosive, underwater and underground environments
- 3.Precise and straight cutting with smooth, burr-free ends, no secondary processing needed
- 4.Ergonomic long handle, easy operation with 90–110° reciprocating movement
- 5.Sturdy structure, long service life and low maintenance cost
- 6.Compatible with various metal pipes, strong versatility
- 7.Easy to use, no professional training required

Application Scenarios

Widely used in underground and underwater pipeline repair, petroleum and chemical hazardous areas, overhead and dense pipe construction, as well as municipal engineering, gas, plumbing, mechanical manufacturing and mine drilling pipeline projects.



Technical Parameters

name	model	Suitable Pipe Diameter (inches)	Suitable Pipe Diameter (mm)	Length (inches)	Length (mm)	Weight (lbs)	Weight (kg)
Rotary Tube Cutter	TRC-4	2-4	60-125	19	483	12.3	5.6
Rotary Tube Cutter	TRC-8	6-8	159-246	58	1473	42.6	18.6
Rotary Tube Cutter	TRC-12	10-14	266-358	61	1549	50	22.7
Rotary Tube Cutter	TRC-16	14-18	368-462	66	1664	60	27.3
Rotary Tube Cutter	TRC-20	18-22	476-572	106	2680	89	40.5
Rotary Tube Cutter	TRC-24	22-26	584-660	111	2807	107	48.6
Rotary Tube Cutter	TRC-30	28-34	698-864	96	2438	283	128.6
Rotary Tube Cutter	TRC-36	32-36	813-915	96	2438	295	134.1
Rotary Tube Cutter	TRC-42	40-42	1016-1067	108	2743	325	147.7

Note: The standard blade included with the pipe cutting machine is designed for cutting carbon steel. If the machine is intended for cutting cast iron, this must be specified when placing an order.



PE Pipe Cutter



Product Overview

The PE pipe guillotine cutter is designed for medium-high density PE pipes with wall thickness above SDR17, cutting up to 350mm (12") diameter with precision within 3mm. It ensures smooth ends ideal for electrofusion and butt welding, equipped with a Teflon-coated tool steel blade for clean, spark-free cutting in gas, water supply and municipal pipeline projects.

Core Benefits

1. Large diameter capacity up to 12" (350mm) for thick-wall PE pipes
2. High cutting precision $\leq 3\text{mm}$, smooth burr-free ends for direct welding
3. Spark-free manual operation, safe and clean without pipe contamination
4. Requires only 4–5" working space for narrow and confined areas
5. Durable Teflon-coated blade, resharpenable and replaceable
6. Cost-effective with less polishing and low maintenance
7. Stable and long service life for heavy-duty use

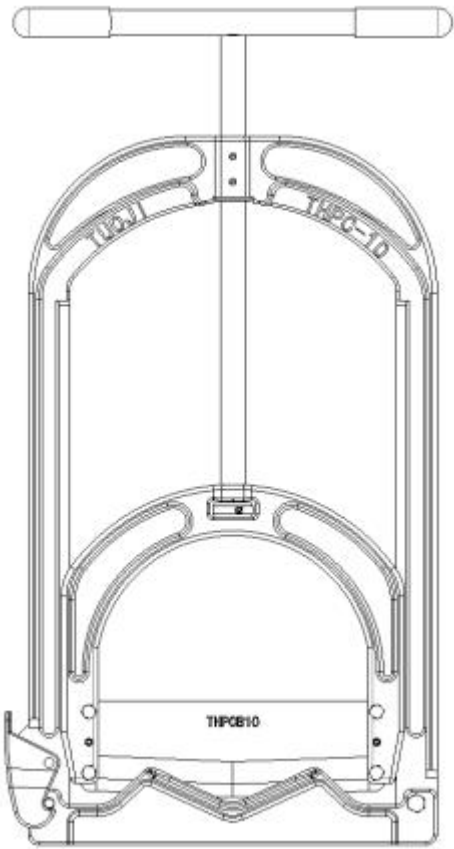
Application Scenarios

Widely used in gas pipeline construction, municipal water supply and drainage networks, urban pipe gallery projects, industrial PE piping, and emergency pipeline repair and maintenance.



Technical Parameters

Name	Model	Suitable Pipe Diameter (inch)	Suitable Pipe Diameter (mm)	Length (inch)	Length (mm)	Weight (lb)	Weight (kg)	Equipped Blade
PE Pipe Cutter	THPC4	2-4	63-125	19	482	15.6	7.1	THPCS4
PE Pipe Cutter	THPC10	3-10	90-255	30	750	35.0	15.9	THPCS10
PE Pipe Cutter	THPC12	4-12	114-350	51	1295	100.0	45.5	THPCS12





PE Pipe Plugger



Product Overview

The TPES series PE pipe plugger is a professional tool for precise pipeline sealing, available in manual and hydraulic versions, covering ½–12" (1–315mm) PE pipes. Featuring an openable base and anti-extrusion protection, it is widely used for emergency repair and temporary plugging of water supply, drainage and gas pipelines, especially in confined spaces.

Core Benefits

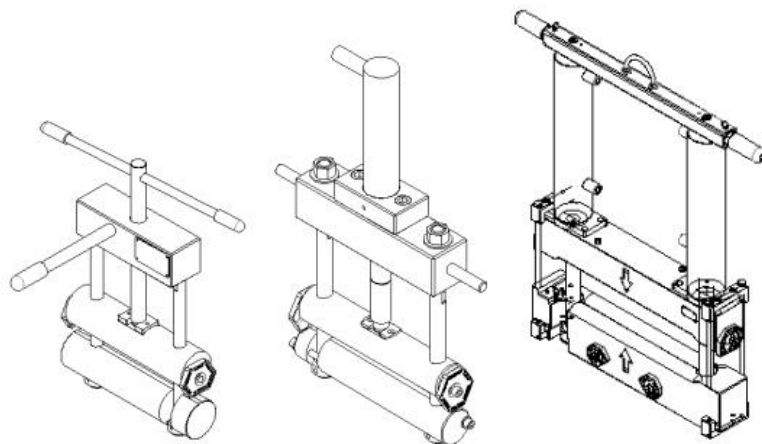
- 1.Full size range: ½–12" PE pipes, manual & hydraulic options
- 2.Precise sealing with strong tightness, effectively preventing leakage
- 3.Anti-over-compression design to protect PE pipes from damage
- 4.Openable base for easy installation on in-service pipes
- 5.Excellent for small spaces with flexible operation
- 6.Hydraulic models provide strong clamping force for large pipes
- 7.Sturdy structure, durable and easy to maintain

Application Scenarios

Widely used in municipal water supply & drainage, gas engineering, industrial PE pipeline maintenance, emergency repair in narrow spaces, in-service pipeline plugging, field construction and pipeline renovation projects.



Technical Parameters

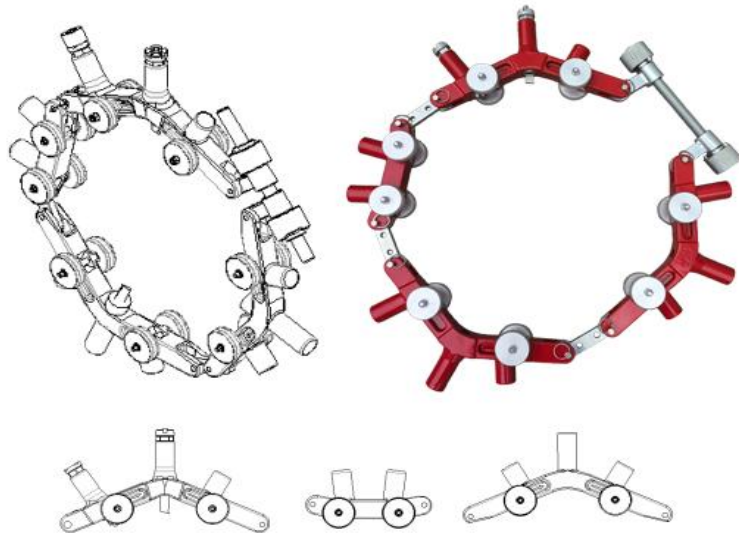


Name	Model	Suitable Pipe Diameter (inch)	Suitable Pipe Diameter (mm)	Brake Pad (Quantity)	Length (inch)	Length (mm)	Weight (lb)	Weight (kg)
PE Pipe Plug	TPES2	1/2-2	1-50	2	12	305	11.6	5.3
PE Pipe Plug	TPES4	2-4	63-110	4	25	635	200	35.0
PE Pipe Plug	TPES6H	3-6	89-168	10	20	508	38.6	17.5
PE Pipe Plug	TPES8H	3-8	89-219	12	28	711	233	105.7
PE Pipe Plug	TPES12H	8-12	200-315	12	30	762	395	179.2

Note: 1. TPES2 and TPES4 are manual PE pipe plugs, TPES6H, TPES8H and TPES12H are hydraulic types, and the hydraulic types include hydraulic pump, pressure gauge and fixture; 2. The TPES12H model in the hydraulic type needs to work with the same manual or pneumatic hydraulic pump.



Large Diameter Plastic Pipe Cutter



Product Overview

This rotary large-diameter plastic pipe cutter is designed for PVC and PE pipes from 160–800mm. It requires no power supply, needs only 152–203mm working space, and integrates cutting and 15° beveling in one step. With carbide blades and roller alignment, it ensures straight cuts even for thick and large pipes, ideal for trench, ground and field work.

Core Benefits

- 1.Clean & safe, no chips to block valves or pipes
- 2.Compact design for confined working spaces
- 3.Spring-loaded nut fits oval pipes flexibly
- 4.Cutting and beveling completed in one operation
- 5.Wide coverage: 160–800mm PVC & PE pipes
- 6.Easy assembly and operation, no professional skills needed
- 7.No power required, suitable for various on-site conditions
- 8.Cost-effective for contractors and maintenance teams

Application Scenarios

Widely used in municipal water supply, drainage, gas and industrial projects for large-diameter PVC and PE pipe installation, replacement, renovation and emergency repair, especially in trenches, field and non-powered working environments.



Technical Parameters

Name	Model	Suitable Pipe Diameter (inch)	Suitable Pipe Diameter (mm)	Application	Required Tool Rest	Weight (lb)	Weight (kg)
Rotary Pipe Cutter	TRC0PE	6-10	160-250	PVC, PE	A,C	23.2	10.5
Rotary Pipe Cutter	TRC1PE	6-12	160-355	PVC, PE	A,B,C	27.6	12.5
Rotary Pipe Cutter	TRC2PE	14-18	355-500	PVC, PE	A,B,C(2),D	31.3	14.2
Rotary Pipe Cutter	TRC3PE	14-24	355-630	PVC, PE	A,B,C(3),D	37.3	16.9
Rotary Pipe Cutter	TRC4PE	14-28	355-800	PVC, PE	A,B,C(4),D	52.1	23.6



TPS Series Plastic Pipe Scraping Tool



Product Overview

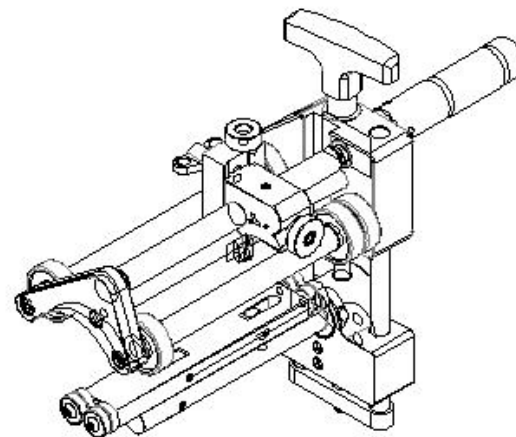
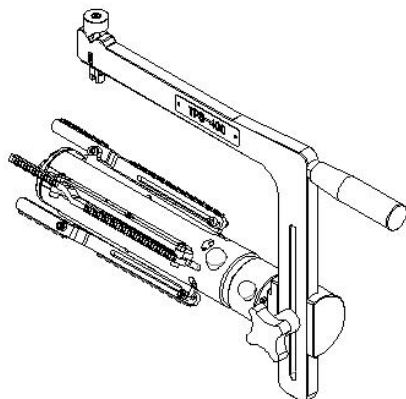
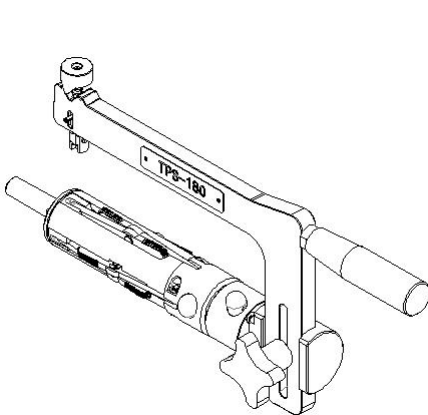
The TPS series scraping tool is specially designed for removing oxide skin from PE pipes before electrofusion welding. It adopts an external clamp rotary structure with an adjustable support, suitable for various PE pipe diameters. It ensures clean and even scraping, corrects out-of-tolerance or oval pipes, and guarantees welding quality.

Core Benefits

1. Effectively removes oxide layer to prevent cold welding in electrofusion joints
2. Clean and uniform scraping, able to correct deformed or oversized pipes
3. Simple structure, easy to install and operate
4. Stable inner support, runs smoothly even on oval pipes
5. Wide adaptability, not limited by pipe diameter (only wall thickness)
6. High working efficiency, shortens pre-welding preparation time
7. Customizable scraping width available

Application Scenarios

Widely used for pre-welding treatment of PE pipelines in municipal water supply, drainage, gas and industrial projects. Ideal for on-site construction, emergency repair and pipeline renovation, especially suitable for scraping deformed pipes in trenches and outdoor working environments.



Technical Parameters

Name	Model	Suitable Pipe Diameter (ID)	Suitable Pipe Diameter (OD)	Suitable Material	Scraping Width (mm)	Weight (kg)
Pipe Scraper	TPS8	61-172mm	75-200mm	PE Pipe	129	2.8
Pipe Scraper	TPS16	130-391mm	137-426mm	PE Pipe	150	5.5
Pipe Scraper	TPS24	-	63-500mm	PE Pipe	175	4.2
Pipe Scraper	TPS32	-	63-800mm	PE Pipe	255	5.2

Note: 1. This product is only suitable for PE pipes, limited by PE pipe wall thickness, not by pipe diameter; 2. The scraping width can be customized according to customer needs.



Pipe Flange Internal Alignment Tool

Product Overview

This manual pipe flange internal alignment tool is a special fixture for pipe and flange assembly welding. With a precision mechanical structure, it solves the pain points of insufficient assembly accuracy and low construction efficiency, providing a stable and accurate benchmark for various welding operations.

Core Benefits

High precision: Misalignment $\leq 1\text{mm}$, coaxiality $\leq 0.5\text{mm}$, meeting strict requirements of high-pressure and precision welding.

Stainless steel material: Rust and corrosion resistant, suitable for clean and stainless steel pipelines.

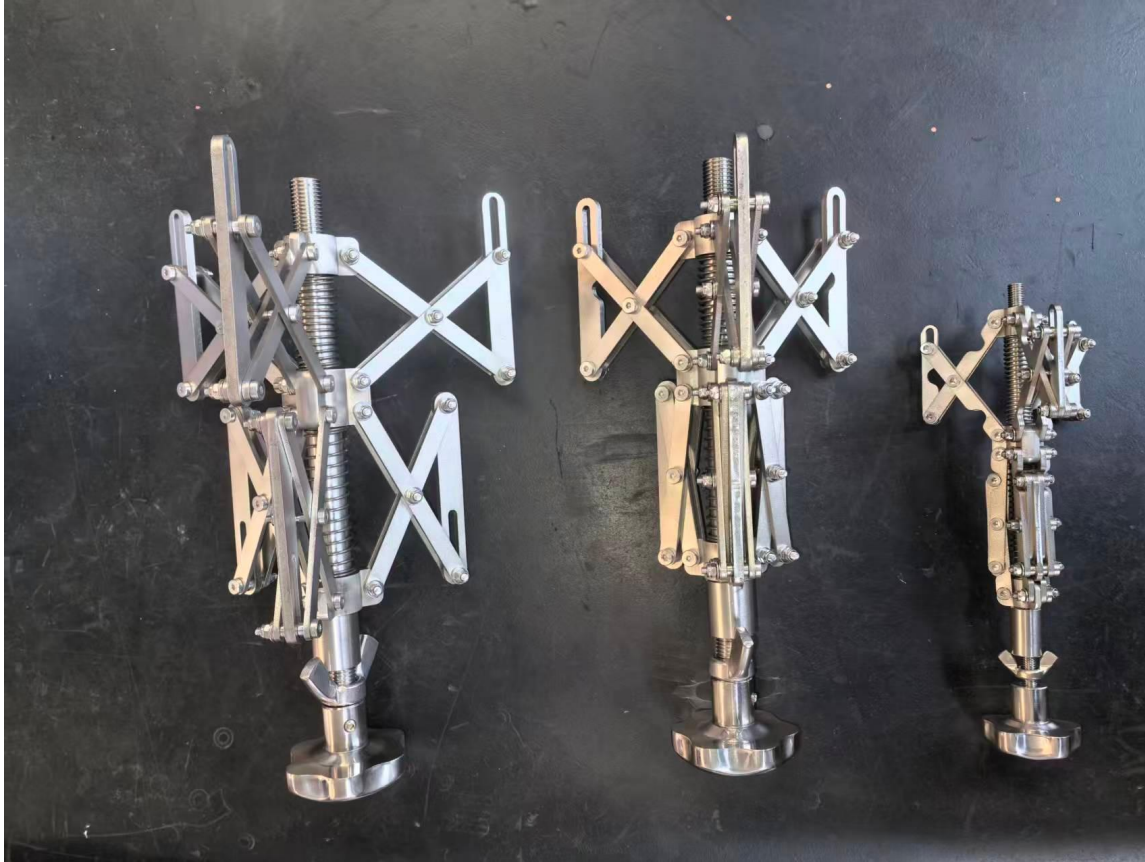
Manual & portable: No external power needed, compact, ideal for on-site emergency repair and non-powered working conditions.

Weld seam unobstructed: Internal expansion design does not block root weld, avoiding welding deformation.

Strong adaptability: Fits DN50-DN600, compatible with various pipes and flanges for most industrial scenarios.

Application Scenarios

Widely used in flange welding and assembly of industrial pipelines (petroleum, chemical, gas, water supply and drainage), high-precision welding of stainless steel and clean pipelines, on-site emergency repair, and flange installation of pressure vessels and equipment nozzles.





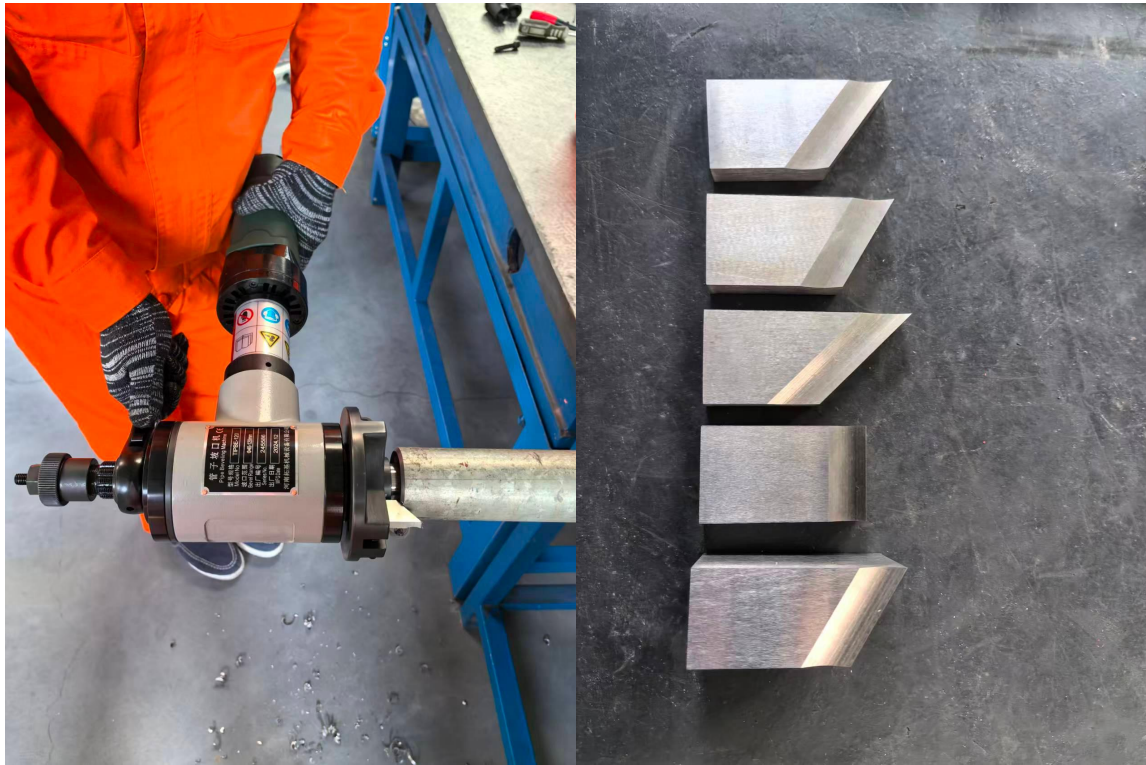
Technical Specifications



Name	Model	Suitable Pipe (mm)	Dimensions (mm)	Net Weight (kg)
Internal Pipe Flange Line-up Clamp	TFA-40	40-80	260×45×45	0.7
Internal Pipe Flange Line-up Clamp	TFA-80	80-170	335×75×75	2.1
Internal Pipe Flange Line-up Clamp	TFA-150	150-220	335×145×145	2.2



TIPBE- I Internal Expansion Electric Pipe Beveling Machine



Product Overview

The TIPBE- I is a lightweight, portable electric pipe beveling machine mounted from inside the pipe. It self-centers via an internal expansion structure for fast setup. Suitable for beveling, chamfering and facing carbon steel, stainless steel and alloy pipes, it is widely used in pipeline construction and emergency repair in petrochemical, natural gas, food, pharmaceutical, boiler and nuclear power industries.

Core Benefits

- 1.Cold cutting only, no change to material properties
- 2.Self-centering internal expansion, quick and easy installation
- 3.Multi-function: V/U bevel, chamfer, facing and flange machining
- 4.Wide diameter range $\Phi 18\text{--}\Phi 820\text{mm}$, bevel angle $0\text{--}45^\circ$ adjustable
- 5.Lightweight and portable for on-site mobile operation
- 6.Electric & pneumatic drive versions available for various sites
- 7.Supports V, Y, compound and J- type bevels

Application Scenarios

Widely applied in pipeline installation and emergency repair for petrochemical, natural gas, food, pharmaceutical, boiler and nuclear power industries, as well as on-site construction and maintenance of various metal pipes requiring precision beveling.



Technical Parameters

Model	Spec.	Working Range (Inner Diameter)	Bevel Thickness	Cutter Speed
Electric & Pneumatic TIPBE (P)	30	Φ18-28mm	≤15mm	50r/min
	80	Φ28-76mm	≤15mm	55r/min
	120	Φ40-120mm	≤15mm	30r/min
	159	Φ65-159mm	≤20mm	35r/min
	252- I	Φ80-240mm	≤20mm	16r/min
	352- I	Φ150-330mm	≤20mm	14r/min
	426- I	Φ250-426mm	≤20mm	12r/min
	630- I	Φ300-600mm	≤20mm	10r/min
	850- I	Φ600-820mm	≤20mm	9r/min
TIPBE-252T	-	65-245mm	≤20mm	16r/min





TIPBE- II Internal Expansion Electric Pipe Beveling Machine

Product Overview

The TIPBE- II is a heavy-duty internal clamping pipe beveling machine with self-centering expansion mounting. Designed for thick-wall and high-intensity applications, it performs beveling, chamfering and flange machining on carbon steel, stainless steel and alloy pipes. Widely used in petrochemical, natural gas, food, pharmaceutical, boiler and nuclear power pipeline construction and repair.

Core Benefits

- 1.Cold cutting preserves material properties
- 2.Self-centering internal expansion for fast installation
- 3.Multi-function: V/U bevel, chamfer, facing and flange processing
- 4.Wide range: $\Phi 80\text{--}\Phi 800\text{mm}$, bevel angle $0\text{--}40^\circ$ adjustable
- 5.Heavy-duty structure, high stability for thick-wall pipes
- 6.Electric & pneumatic drive options for hazardous areas
- 7.Supports V, Y, compound and J- type bevels

Application Scenarios

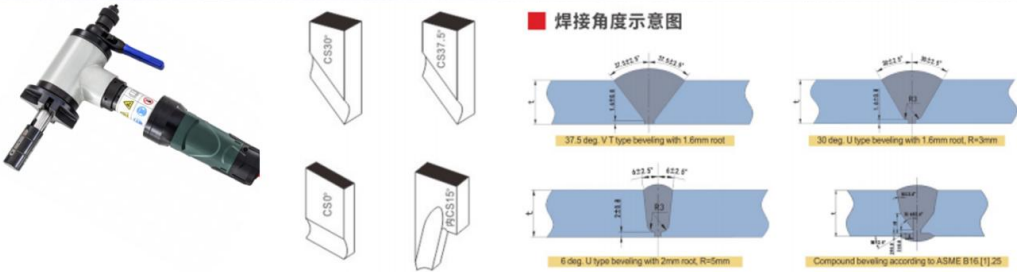
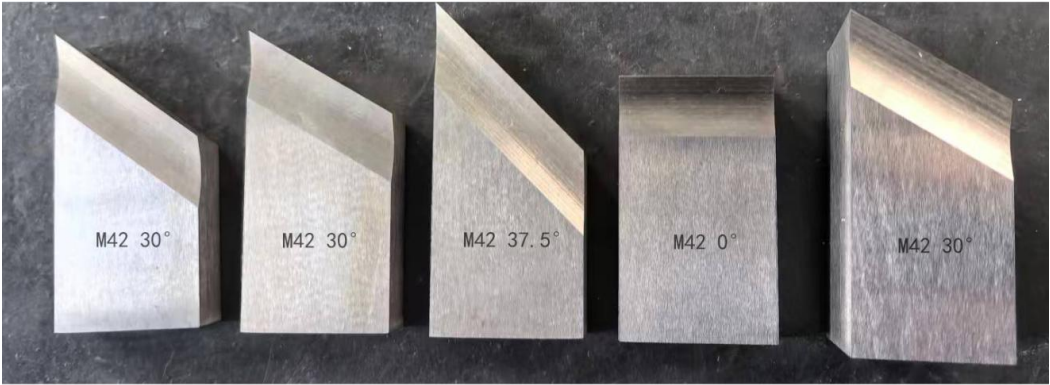
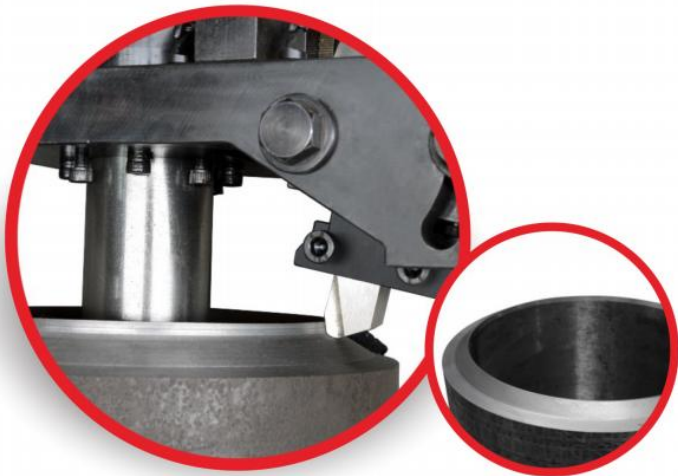
Applied in heavy-duty pipeline engineering, thick-wall pipe processing, and emergency repair in petrochemical, natural gas, food, pharmaceutical, boiler and nuclear power industries, especially for high-strength on-site construction.





Technical Parameters

Model	Spec.	Working Range (Inner Diameter)	Bevel Thickness	Cutter Speed
Electric & Pneumatic TIPBE (P)	252-II	Φ80-240mm	≤75mm	16r/min
	352-II	Φ150-330mm	≤75mm	14r/min
	426-II	Φ250-426mm	≤75mm	12r/min
	630-II	Φ300-600mm	≤75mm	10r/min
	850-II	Φ600-800mm	≤75mm	9r/min





TSBE Series External Clamp Automatic Beveling Machine

Product Overview

The TSBE series external clamp automatic beveling machine is designed for pressure-bearing pipelines in power generation, pipeline installation, chemical and shipbuilding industries. Equipped with an original German Metabo motor, it is used for pre-welding beveling, facing and chamfering of pipes, especially suitable for pipeline maintenance sites without internal working space restrictions, ensuring welding quality and improving construction efficiency.

Core Benefits

1. Efficient and versatile: Stepless centering device for quick pipe size switching; automatic feed structure ensures precision and reduces labor intensity for continuous operation.
2. Stable and durable: Precision transmission structure and German Metabo motor for low failure rate and long service life; external bidirectional clamping ensures stable processing and smooth, burr-free bevels.
3. Wide adaptability and safe: External clamp design fits narrow spaces, easy to install/remove; cold cutting for carbon steel, stainless steel and alloy pipes; overload protection for high-intensity work.

Application Scenarios

Widely used in power station boiler and pipeline installation/maintenance, pre-welding beveling of pressure-bearing pipes in petrochemical industry, pipeline laying/renovation in shipbuilding industry, and industrial plant pipeline construction and on-site emergency repair.





Technical Specifications

Model (Model)	Working Range Outer Diameter	Thickness	Clamping System	Accessory Cushion Block
TSBE-63	Φ28-63mm	≤12mm	Dual-way Clamping	28, 32, 38, 42, 45, 51, 54, 57, 60, 63
TSBE-76	Φ42-76mm	≤12mm	Dual-way Clamping	42, 45, 51, 54, 57, 63, 68, 76
TSBE-89	Φ63-89mm	≤12mm	Dual-way Clamping	63, 68, 76, 83, 89
TSBE-114	Φ76-114mm	≤12mm	Dual-way Clamping	76, 83, 89, 95, 102, 108, 114



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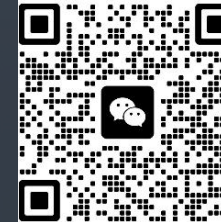


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