



Since
1975

Düzgünler®
Plastik

EXPORT MORE THAN 40 COUNTRIES



Plastic Pipe Catalogue

We Have Been Directing The Water **Since 1975**

Düzgünler has accepted its mission and vision as continuously innovation by increasing its knowledge and experience.

Düzgünler has adopted providing the best service and quality to its customers as a principle since it was first established with its specialized, experienced and well disciplined staff.

Düzgünler began its production activities under the leadership of Mr. Ekrem Düzgün in 1975 as agricultural machinery, automotive spare parts and metal pipe respectively and has started to produce plastic pipes and fittings since 1999.

Düzgünler manufactures machines and molds itself, designed by own group companies that used in production line with the support of powerful infrastructure and machinery park.

Düzgünler, which works with an innovative, quality product and customer satisfaction focused, produces the following products in accordance with international standards (ISO, EN, TS) and within the scope of ISO 9001: 2015 quality management system;

- Plastic Column Pipes (for submersible pumps),
- Plastic Deep Well and Screen Pipes,
- Plastic Pressure Clean Water Pipes,
- HDPE 100 Pipes,
- Plastic Irrigation (Sprinkler) Pipes,
- Plastic Infrastructure (Corrugated) Pipes And Fittings

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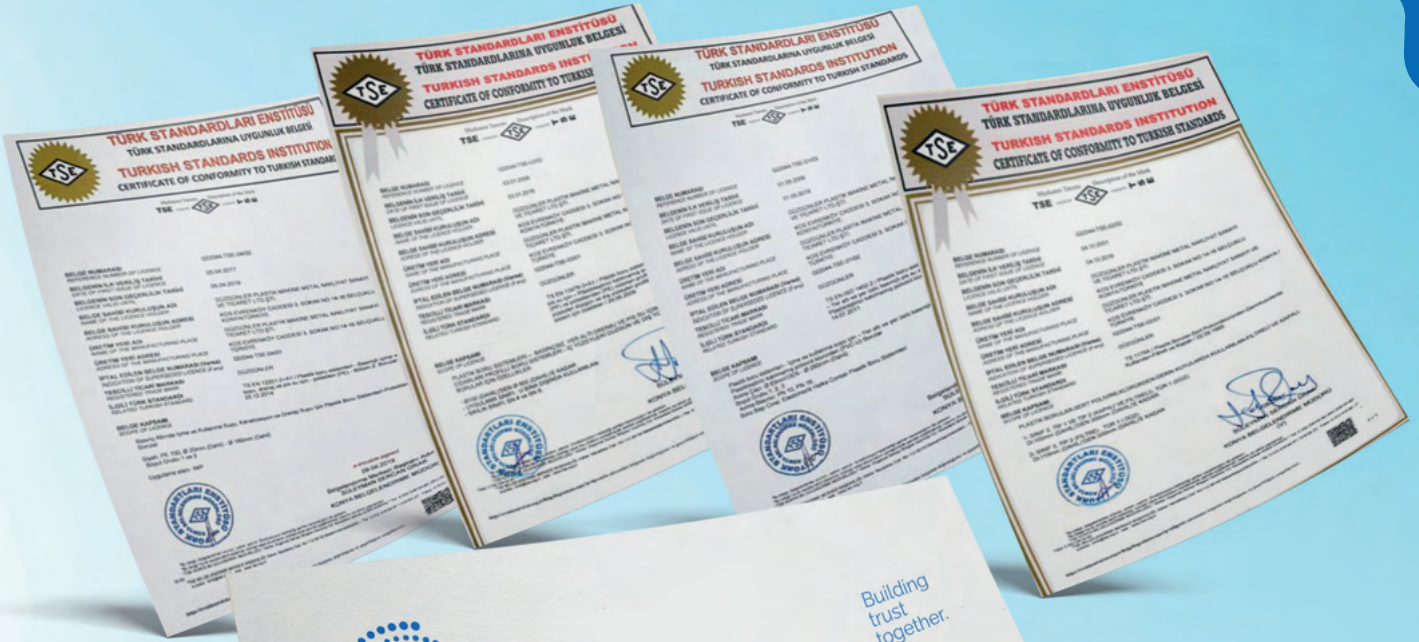
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Sprinkler Irrigation Pipes

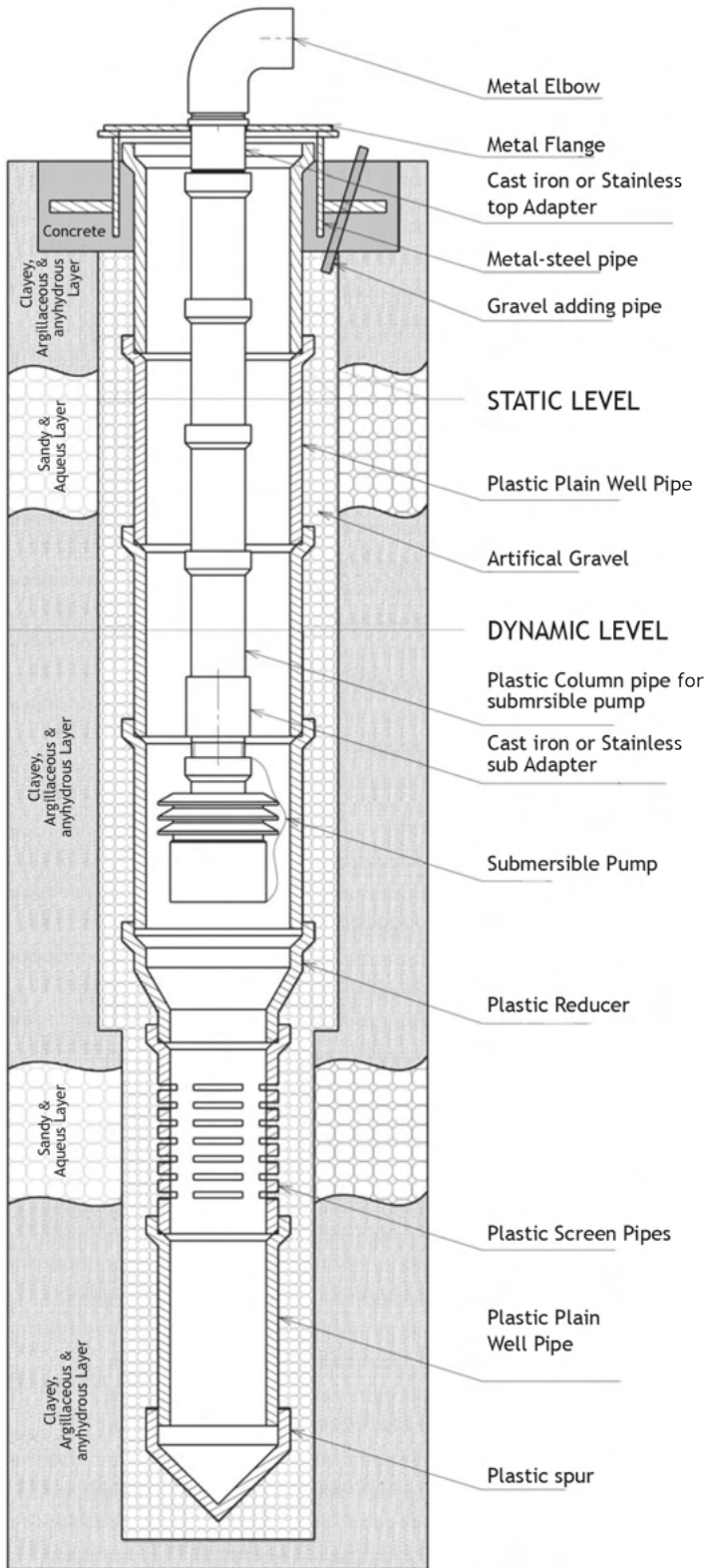
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Corrugated Pipes

Quality Certificates



INSTALLATION RULES FOR THE DEEP WELL PIPES AND COLUMN PIPES



- The ground survey must be done before the borehole (deep well) is opened.
- Well pipe and pump column pipe should be selected according to the pump to be used.
- The pipes must be carried carefully without dragging, colliding to each other and ground.
- Pipes must be carefully checked before use and installation. (cracks, fractures, damages and physical defects) Defective pipes should not be used.
- The thread protective covers of the pipes should not be removed until the time of installation.
- Mineral oil (grease) must not be applied to the threaded part of pipe. However, may use liquid soap.
- The plastic tightening wrench must be used during the installation. (Do not use chain or metal torque wrench that could be damage the pipe)
- If the pipes do not go down, they must not forced. The pipes must be removed from well and the installation must continue after the well has been cleaned.
- In order for the pipes to stand upright in the well, the pipes should be pulled 10 cm upwards after they touch the bottom and then should be suspended.
- The gravelling should be slow and equal to the circumference of the pipe in order to avoid bridging.
- The submersible pump must be installed below of the dynamic level and the upper part of the screen (filtered) pipes. Otherwise, sand and silt pumped out by it and damages may occur to the pipes on the surface.
- The pump column pipe must must be fixed to metal pipe that placed on the top of the well and must avoided fixing to the plastic pipe. Never, the well must not be cleaned by giving high air pressure with the compressor.

DEEP WELL PIPE TECHNIC DETAILS

SDR	Classification Pipe Size (Depth)	Critical Collapse Press	SN
		Pkr (Bar)	KN/m
21	100 m Series	7,7	27
17	300 m Series	14,8	55
13,5	500 m Series	32	112

* Critical Collapse Pressure values should be taken into account in pipe selection.



DCP®
COLUMN PIPES





Pipes producing 3m length.
* 20°C water temperature is taken as reference.

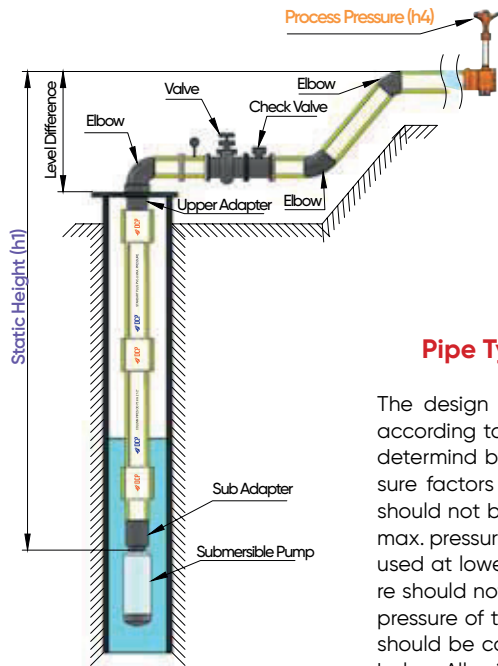
PIPE SPECIFICATIONS													
TYPE	Ext. Dia- meter	Nominal Diameter	Pipe End Wall Thickness (mm)		Middle Of Pipe Wall Thickness (mm)		Pump Head (Hm)	Safe Hyd- rostatic Pressure*	Coupling Overlap Diameter	Safe Tensile Load	Breaking Load	Weight	
	mm	inch	mm	min	max	min	max	m	kg/cm ² Bar-Atü	mm	kg	kg	kg/length
MEDIUM PLUS 15 BAR	42	1 1/4"	32	3,90	4,30	2,30	2,70	150	15	59,50	870	1450	1,560
	48	1 1/2"	40	4,20	4,60	2,60	3,00	150	15	64,50	1120	1860	1,985
	60	2"	50	4,90	5,30	3,00	3,40	150	15	83,50	1600	2675	3,035
	75	2 1/2"	65	5,60	6,00	3,70	4,10	150	15	96	2450	4080	4,370
	88	3"	80	6,10	6,50	4,20	4,60	150	15	111	3250	5410	5,800
	113	4"	100	7,90	8,30	5,40	5,80	150	15	142	5310	8850	9,600
	140	5"	125	9,70	10,10	7,20	7,60	150	15	170,00	8660	14440	15,170
	165	6"	150	11,00	11,40	8,50	8,90	150	15	204,00	12000	20000	21,380
STANDARD PLUS 21 BAR	42	1 1/4"	32	4,80	5,20	3,20	3,60	210	21	59,50	1160	1930	2,010
	48	1 1/2"	40	5,30	5,70	3,70	4,10	210	21	64,50	1520	2530	2,585
	60	2"	50	6,00	6,40	4,10	4,50	210	21	83,50	2115	3525	3,835
	75	2 1/2"	65	6,90	7,30	5,00	5,40	210	21	96	3200	5340	5,570
	88	3"	80	7,80	8,20	5,90	6,30	210	21	111	4410	7350	7,500
	113	4"	100	10,10	10,50	7,60	8,00	210	21	142	7245	12080	12,400
	140	5"	125	12,50	12,90	10,00	10,40	210	21	170,00	11690	19485	19,670
	165	6"	150	14,30	14,70	11,80	12,20	210	21	204,00	16210	27020	27,680
HEAVY 26 BAR	42	1 1/4"	32	5,90	6,30	4,00	4,40	260	26	65,50	1400	2335	2,590
	48	1 1/2"	40	6,50	6,90	4,60	5,00	260	26	71,50	1830	3050	3,355
	60	2"	50	7,70	8,10	5,20	5,60	260	26	87	2600	4340	5,000
	75	2 1/2"	65	9,00	9,40	6,50	6,90	260	26	104	4040	6735	7,400
	88	3"	80	10,10	10,50	7,60	8,00	260	26	121	5520	9200	10,020
	113	4"	100	12,30	12,70	9,80	10,20	260	26	146	9090	15160	16,470
	140	5"	125	15,30	15,70	12,30	12,70	260	26	185	14075	23455	-
	165	6"	150	17,00	17,40	14,50	14,90	260	26	217	19510	32520	-
SUPER HEAVY 35 BAR	42	1 1/4"	32	7,00	7,40	5,10	5,50	350	35	65,50	1720	2860	3,090
	48	1 1/2"	40	7,70	8,10	5,80	6,20	350	35	71,50	2225	3700	3,955
	60	2"	50	9,40	9,80	6,90	7,30	350	35	87	3315	5525	6,050
	75	2 1/2"	65	11,20	11,60	8,70	9,10	350	35	104	5195	8660	9,100
	88	3"	80	12,70	13,10	10,20	10,60	350	35	121	7125	11875	12,420
	113	4"	100	15,60	16,00	13,10	13,50	350	35	146	11710	19515	20,370
	140	5"	125	18,80	19,20	16,30	16,70	350	35	185	17995	29990	-
	165	6"	150	21,80	22,20	19,30	19,70	350	35	217	25055	41760	-



EXTERNAL DIAMETER

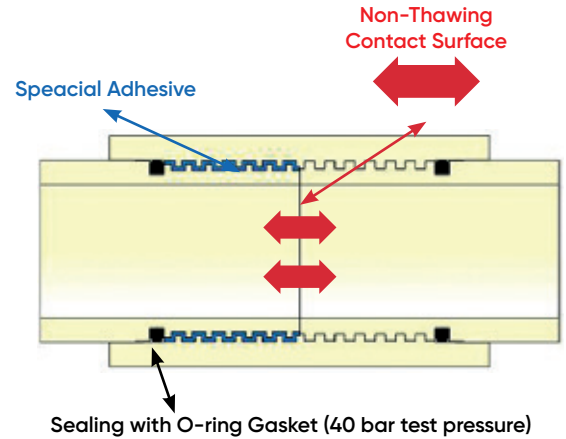
mm	42	48	60	75	88	113	140	165
inch	1 1/4	1 1/2	2	2 1/2	3	4	5	6

The square threads of coupler and pipes designed for DCP Column Pipes are made in the last generation threading machines. By thickening the pipe ends with special production methods, the safe wall thickness value of the pipe is maintained after threading. Special adhesive is used to fix the coupler to the pipe. Sealing is provided with o-ring seal used between pipe and coupler. With the tightening torque applied during the well assembly, the pipe head parts contact each other, creating pretension in the square threads. This pre-tension prevents self-thawing of the teeth.

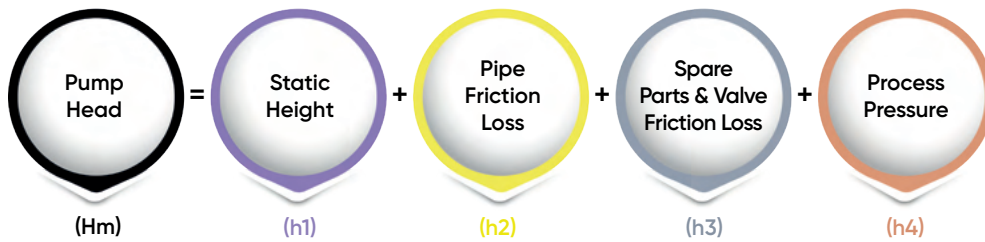


Pipe Type and Pump Selection

The design of DCP Column Pipes was made according to the safe head to the Pumps (Hm) determined by taking into account all the pressure factors in the system. DCP Column Pipes should not be chosen as a type lower than the max. pressure value of the pump even if it will be used at lower depths. The Pump's max. Pressure should not exceed the allowable hydrostatic pressure of the pipe. Laying depth of the pipes should be calculated according to the formula below. All units are meters.



Pipe Type	Pump Head (Hm)	Max. Pump Pressure Selection kg/cm ² - Bar
Medium Plus	0 - 150 m	15
Standard Plus	0 - 210 m	21
Heavy	0 - 260 m	26
Super Heavy	0 - 350 m	35



Hm	Pump Head	Static height in the pipeline is the total pressure affecting the pipe as a result of friction losses and process pressure. The general principle in altitude-pressure conversion is 10 mSS = 1 kg/cm ² dir.
h1	Static Height	It is the height difference between the lowest and highest level of pipeline.
h2	Pipe Friction Loss	It is the friction loss occurs along the pipeline. The appropriate pipe diameter must be selected to minimize loss. Friction losses in the pipe can also be calculated with the Hazen-Williams formula. $P_m = 6.05 \times [(Q_m^{1.85}) / (C^{1.85} d_m^{4.87})] \times 10^5$ Q_m = Flow (lt/min) C = Friction Loss Coefficient (PVC = 150) P_m = Unit length friction resistance in the pipe (bar/m) d_m = Pipe inside diameter (mm)
h3	Spare Parts & Valve Friction Loss	It is the pressure loss caused by elements such as fittings and valves in the system. In practice, %10(h1+h2) is taken. For more accurate calculations, equivalent straight pipe lengths of valves and fittings corresponding to the same resistance loss should be used. Catalogs of manufacturers can be used.
h4	Process Pressure	It is the operating pressure required at the end of the pipeline. (In irrigation systems 30 m (3 bar), in housing 10 m (1 bar), in free flow to pools 0 m (0 bar) etc.

Not: Normal usage temperature is 25°C. For every 5°C of increases in temperature, there will be 10% performance loss. Maximum usage temperature is 50°C. There will be 50% performance at 50°C.

U-PVC DEEP WELL PIPES (CASING & SCREEN)



U-PVC Deep Well Pipes (TS 11794) (Casing & Screen)



Düzgünler U-PVC Casing(plain) an screen(slotted) pipes have been specially designed and manufactured using high quality raw materials and additives that accordance quality standards TS 11794 as one end of pipes is male trapezoid type threaded and other socket end is a female trapezoid type threaded. Casing pipes are available in various length for depth up to 500 meters. Screen pipes are slotted along its circumference with different slot dimensions. The slots are cut by circular saws and arranged perpendicular to the axis of the pipe. The perpendicular disposition of the slots provides higher resistance to collapsing pressure and excellent hydraulic properties. Slot sizes permeability adapted to the requested flow rate. Pipe Lengths and slot sizes of casing and screen pipes can produced according to customer's request .

Düzgünler pipes are marked to ensure full traceability of our products. In addition to the date and production time, we can go back to the raw material which was used to produce the pipe.



Raw Materials	PVC - U
Length	2 – 3 and 4 meter
Slot size	2 mm – 1 mm – 0,75 mm - 0,50 mm width (perpendicular to the axis of the pipe)
Threads type	Trapezoidal
Connection	Male and Female Snap-Fit Con- nection
Marking	Standart marking

SDR	Classification Pipe Size (Depth)	Critical Collapse Pressure (Bar)	SN kN/m ²
21	100 m Series	7,7	27
17	300 m Series	14,8	55
13,5	500 m Series	32	112

* Critical Collapse Pressure values should be taken into account in pipe selection.



U-PVC Deep Well Pipes (TS 11794) (Casing & Screen)

Dimensions of well casing and screens

Up to 100 meters depth (the pipe has a BLUE cap)

100 m Depth	Ext. Dia.		Wall Thickness (+,-)		Int. Dia. mm	Screw Size	Weight (kg / lenght)		
	Pipe		mm	Tolerance mm			2mt	3mt	4mt
	mm	inch							
	88	3"	4.0	±0.00	80.0	TR 88x6	3.260	4.850	6.440
113	4"	5.0	±0.70	103.0	TR 113x6	5.250	7.750	10.250	
125	4 1/2"	5.5	±0.80	114.0	TR 125x6	6.550	9.600	12.650	
140	5"	6.5	±0.90	127.0	TR 140x6	8.400	12.450	16.500	
160	5 1/2"	7.7	±0.90	144.6	TR 160x6	11.670	17.240	22.800	
175	6"	8.0	±1.00	159.0	TR 175x6	12.850	19.050	25.250	
185	7"	8.3	±1.00	168.4	TR 185x6	14.550	21.500	28.400	
200	7 1/2"	9.0	±1.20	182.0	TR 200x6	16.500	24.500	32.500	
225	8"	10.0	±1.20	205.0	TR 225x6	20.700	30.700	40.700	
250	9"	11.0	±1.30	228.0	TR 250x12	24.500	36.430	48.300	
280	10"	12.5	+1.40	255.0	TR 280x12	32.370	47.900	63. 430	
330	12"	14.5	±1.70	301.0	TR 330x12	44.300	65.550	86.800	
355	14"	16.0	±1.70	323.0	TR 355x12	55.400	83.200	110.000	
400	16"	18.0	±2.00	364.0	TR 400x12	64. 740	95.790	126.830	



Up to 300 meters depth (the pipe has a RED cap)

300 m Depth	Ext. Dia.		Wall Thickness (+,-)		Int. Dia. mm	Screw Size	Weight (kg / lenght)		
	Pipe		mm	Tolerance mm			2mt	3mt	4mt
	mm	inch							
	88	3"	5.0	±0.70	78.0	TR 88x6	4.000	5.950	7.900
113	4"	6.5	±0.85	100.0	TR 113x6	6.300	9.350	12.400	
125	4 1/2"	7.1	±0.95	110.8	TR 125x6	7.750	11.400	15.050	
140	5",	8.0	±1.00	124.0	TR 140x6	10.150	15.050	19.950	
160	5 1/2"	9.2	±1.00	141.6	TR 160x6	15.000	22.150	29.300	
175	6"	10.0	±1.20	155.0	TR 175x6	15.800	23.500	31.200	
185	7"	10.8	±1.20	163.4	TR 185x6	19.560	28.880	38.200	
200	7 1/2"	11.5	±1.40	177.0	TR 200x12	20.880	31.480	41.080	
225	8"	13.0	±1.50	199.0	TR 225x12	26.360	39.100	51.840	
250	9"	14.0	±1.65	222.0	TR 250x12	32.250	47.820	63.400	
280	10"	16.0	±1.80	238.0	TR 280x12	40.800	60.350	79.900	
330	12"	19.0	+2.20	292.0	TR 330x12	56.850	84.150	111.450	
355	14"	20.0	±2.20	315.0	TR 355x12	69.200	102.000	135.000	
400	16"	22.7	±2.20	354.6	TR 400x12	82.800	122.080	161.660	



Up to 500 meters depth (the pipe has a GREEN cap)

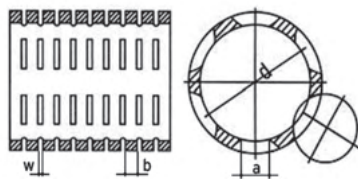
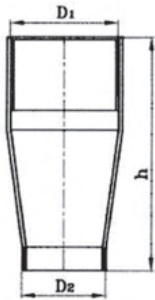
500 m Depth	Ext. Dia.		Wall Thickness (+,-)		Int. Dia. mm	Screw Size	Weight (kg / lenght)		
	Pipe		mm	Tolerance mm			2mt	3mt	4mt
	mm	inch							
	140	5"			10.4	±1.25				119.2	TR 140x6	12.90	19.15	25.40
	160	5 1/2"	11.9	±1.30	136.2	TR 160x6	18.37	27.56	36.75
175	6"	13.0	±1.40	149.0	TR 175x6	20.02	29.73	39.44	
200	7 1/2"	14.0	±1.60	172.0	TR 200x12	24.60	36.30	54.0	
225	8"	16.0	±1.70	193.0	TR 225x12	37.70	55.40	71.0	



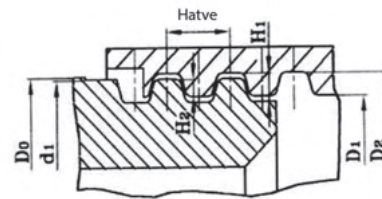
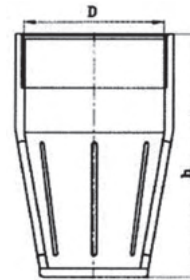
U-PVC Deep Well Pipes (TS 11794) (Casing & Screen)



Fittings



Reduction		
D1	D2	h (± 25)
125	113	225
140	125	260
160	140	300
175	140	375
175	160	300
185	175	300
200	175	400
200	185	300
225	200	560
250	225	350
280	225	575
280	250	660
330	280	590
400	330	750



Spur	
D	h (± 25)
113	227
125	240
140	257
160	300
175	295
185	320
200	322
225	348
250	370
280	410
330	464
355	490
400	541
400	750

Slot Sizes

Ext. Dia		Slot Pieces (n)	Slot Width (W)		
mm	inch		2 mm Slit Area %	1 mm Slit Area %	0,5 mm Slit Area %
88	3"	3	-	7	7
113	4"	5	12	8,5	6,5
125	4 1/2"	5	12	8,5	6,5
140	5"	5	12	7,5	6
160	5 1/2"	5	11	7,5	6
175	6"	5	11	7,5	6
185	7"	5	11	7,5	6
200	7 1/2"	5	11	7,5	6
225	8"	6	11	7,5	6
250	9"	6	11	7	5,5
280	10"	6	10	7	5,5
330	12"	6	10	7	5
355	14"	6	10	6	-
400	16"	6	10	5	-

Pipe Threads (Trapezoid) Sizes

Ext.Dia. DO		D1	D2	d1	h1	h2	Pitch
mm	inch						
88	3"	84.5	88.9	87.5	2.5	1.5	6
113	4"	109.5	113.5	112.5	2.5	1.5	6
125	4 1/2"	121.5	125.5	124.5	3.1	2.1	6
140	5"	135.3	140.5	139.5	3.1	2.1	6
160	5 1/2"	155.3	160.5	159.5	3.1	2.1	6
175	6"	170.3	175.5	174.5	3.1	2.1	6
185	7"	180.3	185.5	184.5	3.1	2.1	6
200	7 1/2"	195.3	200.5	199.5	3.1	2.1	6/12
225	8"	220.3	225.5	224.5	3.1	2.1	6/12
250	9"	241.5	250.5	249.5	5	4	12
280	10"	270	279	278	5	4	12
330	12"	321	330	329	5	4	12
355	14"	344	353	352	5	4	12
400	16"	389.5	393	397.5	5	4	12

Drilling Trap

Hoisting Plug

Ext.Dia.														
mm	88	113	125	140	160	175	185	200	225	250	280	330	355	400
inch	3"	4"	4 1/2"	5"	5 1/2"	6"	7"	7 1/2"	8"	9"	10"	12"	14"	16"



PRESSURE CLEAN WATER PIPES

A collection of various pressure clean water pipes and fittings is displayed against a scenic background of mountains and water. The pipes are primarily white and blue, with some featuring black text indicating specifications. The fittings include straight sections, elbows, and couplings. The background shows a calm body of water reflecting the sky and distant mountains under a bright, slightly hazy sky. The pipes are arranged in a cluster, with some standing upright and others lying horizontally. The overall composition is clean and professional, highlighting the products in a natural setting.

Pressure Clean Water Pipes (TS EN ISO 1452)



Düzgünler U-PVC Pressure Clean water pipes with a wide spectrum of pipes and fittings in different sizes and pressure classes in an ideal solution for water supply and irrigation. Düzgünler u-PVC pressure water pipes and fittings produced in accordance with TS 274 EN 1452 from high quality raw material in various sizes, length and pressures. (size; 50 to 400 mm, Standard lengths are 6 meters, for delivery in 20' or; 40' container should be 5,80 meters)

Düzgünler U-PVC Pressure pipes could be assembled in two different methods :

- Solvent cement socket joints
- Rubber seal type joints

Düzgünler pipes are marked to ensure full traceability of our products. In addition to the date and production time, we can go back to the raw material which was used to produce the pipe.

These pipes and fittings are used for a variety of application as water supply(city and industrial water network), irrigation, industrial-chemical & petrochemical process line, drainage & sewage applications, ducting electrical & telecommunication, firefighting systems, swimming pools.

Advantages of Düzgünler U-PVC Pressure pipes;

- Odorless and hygienic
- High corrosion resistance & chemical resistance
- Smooth internal bore for low friction losses & high flow rates
- Easier and quicker installation & Maintenance free
- Long lasting and service life
- Economical
- Light in weight

Secifications;

Raw Materials	: U-PVC
Length	: 6 meter
Ext. Dia.	: Ø 50 mm up to Ø 400 mm
Pressure	: PN 4 – PN 6 – PN 10 – PN16 6 meter lenght
Colour/Marking	: Grey / Standart marking (others upon request)

Tests;

Density	: $1350 \leq P \leq 1460 \text{ kg/m}^3$
Opacity	: Max. % 0,2
Vicat softening temprature	: $\geq 80^\circ\text{C}$
Resistance to dicchlormethane	: < 1 ppm
Impact strength	: TI R<%10





Pressure Clean Water Pipes (TS EN ISO 1452)

Jointed Pipe G-M

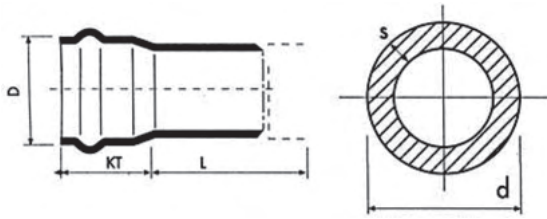


Ext. Dia. (D) mm	Muff Length KT (mm)	(S 16) (SDR 33) PN 6 s (mm)	(S 10) (SDR 21) PN 10 s (mm)	(S 6.3) (SDR 13.6) PN 16 s (mm)
------------------------	---------------------------	--------------------------------------	---------------------------------------	--

Service (design) coefficient based as C=2.5 for PN

Ø 50	86	1.6	2.4	3.7
Ø 63	90	2.0	3.0	4.7
Ø 75	94	2.3	3.6	5.6
Ø 90	97	2.8	4.3	6.7

Raw Material : U-PVC
Pressure : 4-6-10-16 Atm
Color : Grey, Blue, Black

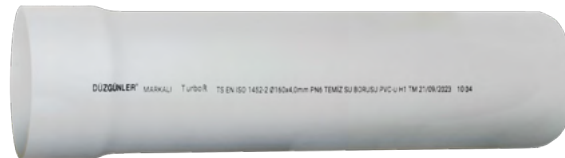


Ext. Dia. (D) mm	Muff Length KT (mm)	(S 20) (SDR 41) PN 6 s (mm)	(S 12.5) (SDR 26) PN 10 s (mm)	(S 8) (SDR 17) PN 16 s (mm)
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Service (design) coefficient based as C=2.0 for PN

Ø 110	104	2.7	4.2	6.6
Ø 125	108	3.1	4.8	7.4
Ø 140	112	3.5	5.4	8.3
Ø 160	119	4.0	6.2	9.5
Ø 200	129	4.9	7.7	11.9
Ø 225	136	5.5	8.6	13.4
Ø 250	143	6.2	9.6	14.8
Ø 280	152	6.9	10.7	16.6
Ø 315	160	7.7	12.1	18.7
Ø 355	169	8.7	13.6	21.1
Ø 400	178	9.8	15.3	23.7

Solvent Cement Socketed Pipe Y-MU-PVC

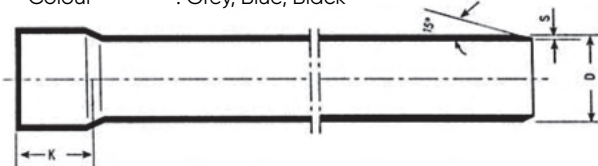


Ext. Dia. (D) mm	Muff Length KT (mm)	(S 16.7) (SDR 34.4) PN 6 s (mm)	(S 10) (SDR 21) PN 10 s (mm)	(S 6.3) (SDR 13.6) PN 16 s (mm)
------------------------	---------------------------	--	---------------------------------------	--

Service (design) coefficient based as C=2.5 for PN

Ø 32			1.6	
Ø 40			1.9	
Ø 50	31.0	1.6	2.4	3.7
Ø 63	37.5	2.0	3.0	4.7
Ø 75	43.5	2.3	3.6	5.6
Ø 90	51.0	2.8	4.3	6.7

Raw Material : U-PVC
Pressure : 4-6-10-16 Atm
Colour : Grey, Blue, Black



Ext. Dia. (D) mm	Muff Length KT (mm)	(S 20) (SDR 41) PN 6 s (mm)	(S 12.5) (SDR 26) PN 10 s (mm)	(S 8) (SDR 17) PN 16 s (mm)
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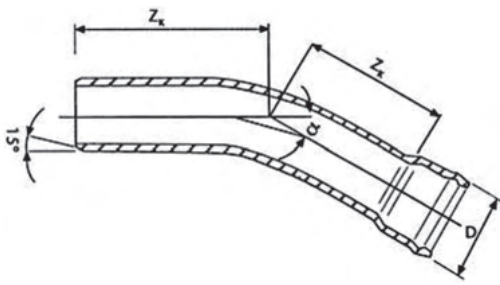
Service (design) coefficient based as C=2.0 for PN

Ø 110	61.0	2.7	4.2	6.6
Ø 125	68.5	3.1	4.8	7.4
Ø 140	76.0	3.5	5.4	8.3
Ø 160	86.0	4.0	6.2	9.5
Ø 200	106.0	4.9	7.7	11.9
Ø 225	118.5	5.5	8.6	13.4
Ø 250	131.0	6.2	9.6	14.8
Ø 280	146.0	6.9	10.7	16.6
Ø 315	163.5	7.7	12.1	18.7
Ø 355	183.5	8.7	13.6	21.1
Ø 400	206.0	9.8	15.3	23.7

Pressure Clean Water Pipes (TS EN ISO 1452)



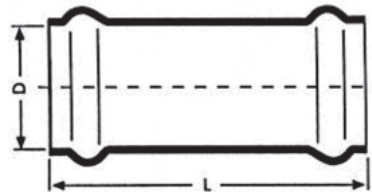
Bends Joint Socked Type G-MK - G-MQ



Raw Material : U-PVC
Pressure : 6-10-16 Atm
Colour : Grey

PN 10 ATM PN 16 ATM		$\alpha=11^\circ$	$\alpha=22^\circ$	$\alpha=30^\circ$	$\alpha=45^\circ$	$\alpha=60^\circ$	$\alpha=90^\circ$
Ext. Dia d (mm)	Arc Radius (mm)	Zk	Zk	Zk	Zk	Zk	Zk
50	200	45	65	80	110	150	240
63	221	46	68	84	117	153	246
75	263	55	81	100	139	182	293
90	315	66	97	120	166	218	351
110	385	81	119	147	203	266	429
125	438	92	135	167	231	303	488
140	490	103	151	187	259	339	546
160	560	118	173	214	296	387	624
200	700	147	216	268	370	484	780
225	788	166	243	301	416	545	878
250	875	184	270	334	462	605	975
280	980	206	302	375	518	678	1092
315	1103	232	340	421	583	763	1229
355	1243	262	384	475	656	859	1385
400	1400	300	420	520	700	925	1450

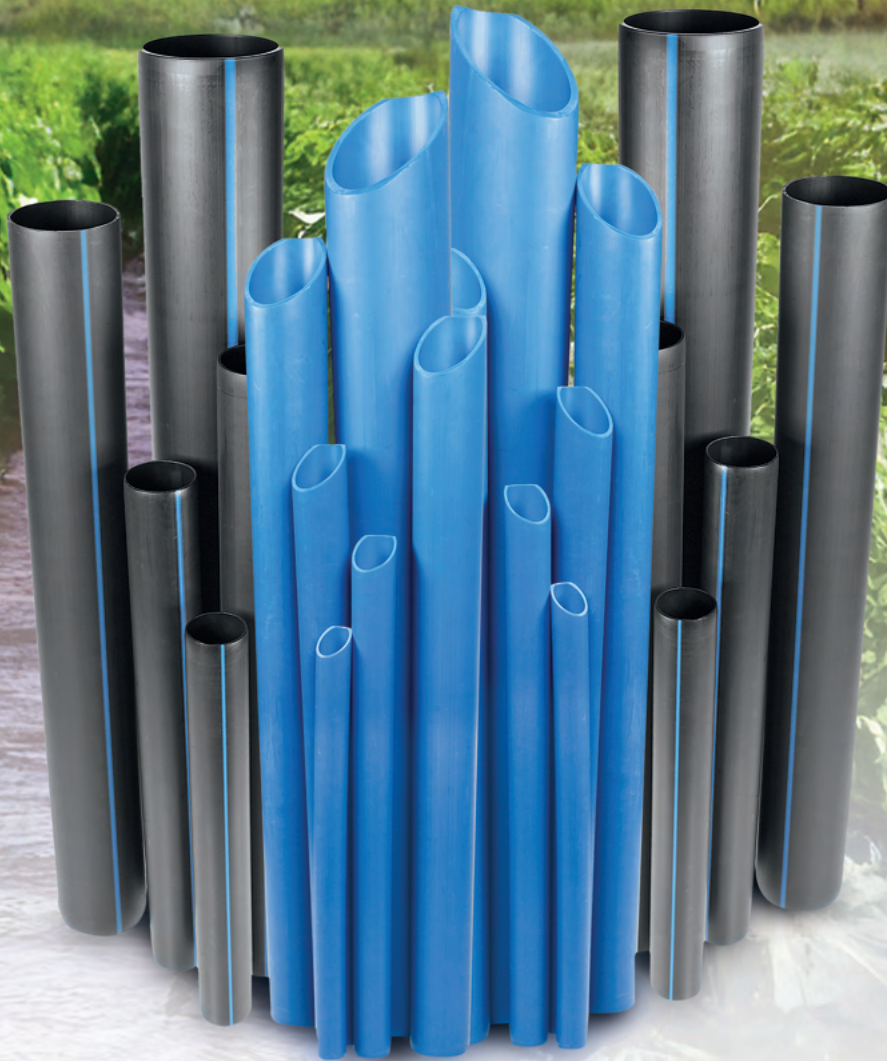
Double Socketed Sleeves G-MMU



Raw Material : U-PVC
Pressure : 6-10-16 Atm
Colour : Grey

Ext. Dia. (mm)	L (mm)
50	200
63	220
75	240
90	260
110	280
125	290
140	300
160	310
200	370
225	400
250	430
280	470
315	500
355	530
400	560

PE 100 PIPES



Dia. (mm)	PN6 SDR26			PN8 SDR21			PN10 SDR17			PN12,5 SDR13,6			PN16 SDR11			PN20 SDR9		
	WT (mm)	WEIGHT (kg/mt)	WEIGHT (kg/ 100 mt)	WT (mm)	WEIGHT (kg/mt)	WEIGHT (kg/ 100 mt)	WT (mm)	WEIGHT (kg/mt)	WEIGHT (kg/ 100 mt)	WT (mm)	WEIGHT (kg/mt)	WEIGHT (kg/ 100 mt)	WT (mm)	WEIGHT (kg/mt)	WEIGHT (kg/ 100 mt)	WT (mm)	WEIGHT (kg/mt)	WEIGHT (kg/ 100 mt)
Ø20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,0	0,107	10,70	2,3	0,121	12,10
Ø25	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,0	0,137	13,70	2,3	0,156	15,60	3,0	0,197	19,70
Ø32	.....	.....	.....	.....	.....	.....	2,0	0,179	17,90	2,4	0,212	21,20	3,0	0,260	26,00	3,6	0,305	30,50
Ø40	.....	.....	.....	2,0	0,227	.....	2,4	0,269	26,90	3,0	0,331	33,10	3,7	0,401	40,10	4,5	0,477	47,70
Ø50	2,0	0,287	.....	2,4	0,341	.....	3,0	0,421	42,10	3,7	0,511	51,10	4,6	0,623	62,30	5,6	0,742	74,20
Ø63	2,5	0,451	.....	3,0	0,537	.....	3,8	0,671	67,10	4,7	0,818	81,80	5,8	0,990	99,00	7,1	1,184	118,40
Ø75	2,9	0,624	.....	3,6	0,767	.....	4,5	0,947	94,70	5,6	1,160	116,00	6,8	1,384	138,40	8,4	1,670	167,00
Ø90	3,5	0,904	.....	4,3	1,100	.....	5,4	1,363	136,30	6,7	1,666	166,60	8,2	2,002	200,20	10,1	2,408	240,80
Ø110	4,2	1,326	.....	5,3	1,656	.....	6,6	2,037	203,70	8,1	2,463	246,30	10,0	2,984	298,40	12,3	3,586	358,60
Ø125	4,8	1,722	.....	6,0	2,131	.....	7,4	2,597	.....	9,2	3,179	.....	11,4	3,865	.....	14,0	4,638	.....
Ø140	5,4	2,169	.....	6,7	2,665	.....	8,3	3,262	.....	10,3	3,987	.....	12,7	4,825	.....	15,7	5,824	.....
Ø160	6,2	2,846	.....	7,7	3,500	.....	9,5	4,267	.....	11,8	5,219	.....	14,6	6,335	.....	17,9	7,591	.....
Ø180	6,9	3,565	.....	8,6	4,399	.....	10,7	5,406	.....	13,3	6,617	.....	16,4	8,007	.....	20,1	9,592	.....
Ø200	7,7	4,419	.....	9,6	5,455	.....	11,9	6,680	.....	14,7	8,129	.....	18,2	9,875	.....	22,4	11,873	.....
Ø225	8,6	5,554	.....	10,8	6,904	.....	13,4	8,462	.....	16,6	10,324	.....	20,5	12,511	.....	25,2	15,026	.....
Ø250	9,6	6,888	.....	11,9	8,456	.....	14,8	10,389	.....	18,4	12,718	.....	22,7	15,399	.....	27,9	18,493	.....

PE 100 Pipes (TS EN ISO 12201)



PE100 is the third generation of pipe grade PE that resists to high pressure than previous and conventional PE materials. 3rd generation PE 100 raw material gets to be both high performance and economic solution to the potable water and natural gas networks areas.

It has an optimum balance of three key properties; Minimum Required Strength (MRS) – this provides long-term strength and creep resistance. Stress crack resistance (sometimes referred to as slow crack growth resistance). Rapid crack propagation resistance.

PE100 pipe is easy to install, light, flexible, corrosion-free and has a service life of up to 100 years. It can be jointed using butt fusion or electrofusion to create a leak-free pressure network for gas or water.

Düzgünler PE100 pipes have been specially designed and manufactured using high quality virgin pipe grade raw materials and additives that accordance quality standards TS 12201 with ISO 9001:2015 quality management system.

Düzgünler PE100 pipes produced as coils and rolls in various dia and length which is easy to install, light, flexible, corrosion-free and has a service life of up to 100 years. It can be jointed using compression PE fittings, butt fusion or electrofusion couplers to create a leak-free pressure network for gas or water.

Applications;

- Underground and aboveground drinking water and Water Supply networks
- Irrigation systems
- Sewer and drainage systems
- Jeothermal facilities and systems
- Treatment facilities
- Fire extinguishing systems
- Compressed air and gas systems
- Submarine transition lines
- Deep-sea discharges
- Waste water discharge and pumping systems

Advantages of Düzgünler PE 100 pipes;

- Excellent corrosion and chemical resistance. Inert to most acidic and alkaline solutions.
- High flow characteristics.
- Light in Weight.
- Easy to handle & transport.
- Excellent flexibility combined with strength.
- Good abrasion resistance.
- Smooth inner walls minimises frictional losses.
- Safe for potable
- Hygienic



Technical Specifications	Value	Unit	Test Method
Colour	Blue or Black(on blue strip)	Physical control	
Density (23°C)	>0.94	g/cm ³	ISO 1183
Melt Flow Rate (MFR)190°C -5kg	0.2 -0.7	g 10/dk	ISO 1133
Elongation Break	≥ 350	%	EN ISO 6259 -1-3
Carbon Black amount	>2	%	ISO 6964
Dispersion of Carbon Black	Degree	Max 3	TS ISO 1142

* Carbon black amount and dispersion data is just for black pipes

SPRINKLER IRRIGATION PIPES



Sprinkler Irrigation Pipes (TS EN 12201)



Sprinkler Irrigation System;

Sprinkler irrigation system is conveys water from the source to the field in a closed circuit under a specific pressure and then sprinkles it as rainy. The water is conveyed to the field in the form of rain by means of sprinkler heads under high pressure and an even distribution is provided. Düzgünler Irrigation Pipes have been specially designed and manufactured using high quality virgin pipe grade HDPE raw materials and additives that accordance quality standards TS EN 12201 with applying ISO 9001:2015 quality management system in PN5 operation pressure as 5 and 6 meter length.



Advantages;

- Durable, high resistant to impact
- High corrosion resistance & chemical resistance
- Long lasting & long service life
- Resistant to sunlight
- Light in weight, easy handling & easy joint
- Prevents water loss by providing sealing with reliable seal system.
- Prevent erosion.

Important issues to be considered during the installation of sprinkler irrigation systems;

- The main pipe line should be installed in accordance with the dominant inclination.
- Sprinkler laterals should be installed vertical to dominant inclination and to the possible extent, parallel to the contour lines.
- where the wind speed is high, the laterals should be perpendicular to the direction of the wind.
- Assembling very long sprinkler lines and laterals should be avoided. Shorter laterals generally ensure homogenous water distribution and saving workmanship.
- The lateral movement on the main line should be assembled to require a minimum labor.
- In order to ensure minumum lateral movement and changes in the quantity of the sprinklers which operate jointly and harmoniously, the area to be served must be arranged in square or rectangle to the possible extent.
- In case where more than one lateral must operate simultaneously, diameters of the laterals should preferably be equal or two different sizes maximum.
- The pipe sizes and arrangement of the system should be such as to minimize the annual costs.
- if possible, the pump unit should be located in the middle of the area to be irrigated as it allows the selection of appropriate and economical pipe diameters



Irrigation Pipes (TS EN 12201)



Pipe								
Dia. mm	5 meter				6 meter			
Line Color	PN5	PN6	PN8	PN10	PN5	PN6	PN8	PN10
50	✓	✓	✓	✓	✓	✓	✓	✓
63	✓	✓	✓	✓	✓	✓	✓	✓
75	✓	✓	✓	✓	✓	✓	✓	✓
90	✓	✓	✓	✓	✓	✓	✓	✓
110	✓	✓	✓	✓	✓	✓	✓	✓
125	✓	✓	✓	✓	✓	✓	✓	✓
140	✓	✓	✓	✓	✓	✓	✓	✓
160	✓	✓	✓	✓	✓	✓	✓	✓



Male end Cap
Dia. mm
50
63
75
90
110
125
140
160



Pipe Head (Female)
Dia. mm
50
63
75
90
110
125
140
160



Pipe Head (Male)
Dia. mm
50
63
75
90
110
125
140
160



Elbow
Dia. mm
50
63
75
90
110
125
140
160



Main Line Valve
Dia. mm
50
63
75
90
110



Sprinkler Stand
Dia. mm
50
63
75
90
110



AL-40 SPRINKLER



AL-25 SPRINKLER



AL-30 SPRINKLER



AL-20 SPRINKLER



AL-20N SPRINKLER



Spherical Valve

Irrigation Pipes (TS EN 12201)



Gasket
Dia. mm
50
63
75
90
110
125
140
160



Reduction
Dia. mm
63 x 50
75 x 50
75 x 63
90 x 50
90 x 63
90 x 75
110 x 75
110 x 90
125 x 75
125 x 90
125 x 110
140 x 90
140 x 110
140 x 125
160 x 110
160 x 125
160 x 140

Cross
Dia. mm
50 x 50
63 x 63
75 x 63
75 x 75
90 x 50
90 x 63
90 x 75
90 x 90
110 x 50
110 x 63
110 x 75
110 x 90
110 x 110
125 x 50
125 x 63
125 x 75
125 x 90
125 x 110
125 x 125
140 x 75
140 x 90
140 x 110
140 x 125
140 x 140
160 x 75
160 x 90
160 x 110
160 x 125
160 x 140
160 x 160

Tee
Dia. mm
50 x 50
63 x 63
75 x 63
75 x 75
90 x 50
90 x 63
90 x 75
90 x 90
110 x 50
110 x 63
110 x 75
110 x 90
110 x 110
125 x 50
125 x 63
125 x 75
125 x 90
125 x 110
125 x 125
140 x 75
140 x 90
140 x 110
140 x 125
140 x 140
160 x 75
160 x 90
160 x 110
160 x 125
160 x 140
160 x 160



Riser Pipe						
Length cm	50	60	80	100	150	200

CORRUGATED PIPES



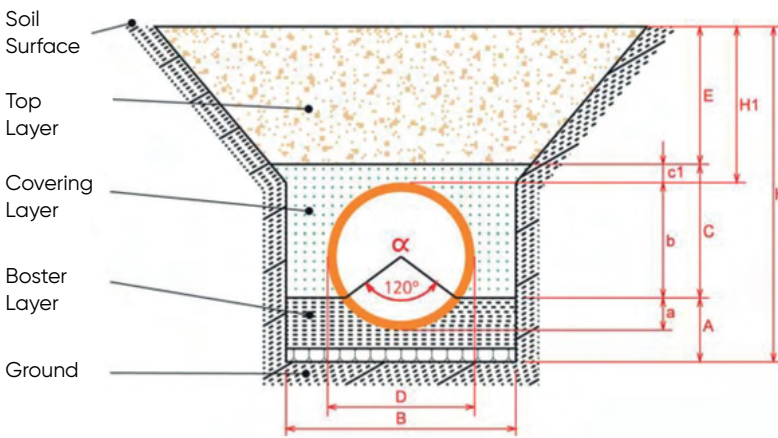
Corrugated Pipes (TS EN 13476)



Corrugated pipes used for many years in all over the world; having a high compressive strength and are serrated outer tube having rounded appearance. Double Wall corrugated pipes usually are used to transport the waste water and sewage system. The biggest reasons for preferring corrugated pipes are the high strength and economy. Rib system on the outer surface of the corrugated pipe is used to improve resistance to external pressure pipe. Referring to other plastic pipes most important characteristics of corrugated tubes is flexible and resistant to earthquakes besides resistant to abrasion and high chemical resistance.

Düzgünler Double Wall Corrugated Pipes have been specially designed and manufactured using high quality virgin pipe grade raw materials and additives that accordance quality standards EN 13476 with ISO 9001:2015 quality management system.

Düzgünler Double Wall Corrugated Pipes produced 6 meter length, with self-coupling (in line coupling-bell & spigot type) or without coupling (socket) and up to 1000 mm dia as SN4 or SN8.



- A : Bolster layer (cement or max. 100 mm. Gravel)
- B : Ditch width(d+400 mm)
- C : Covering layer
- øD : Pipe diameters
- c1 : Top layer (min.300 mm)
- a : 0.25xD
- b : 0.75xD
- E : Top layer (min. 500 mm)
- H1 : Ditch depth
- α : Bearing angle



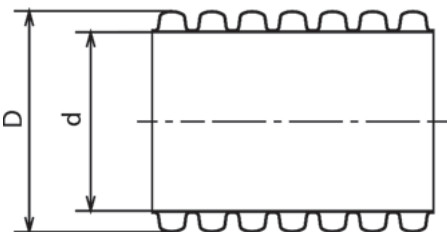
Applications;

- Sewer systems and drainage systems
- Power cable conduit & telecom cable duct.
- Detention / Retention Storm Water Lines.
- Building & Construction
- Agriculture / reclamation of land and soil amendment
- Rainwater and snow water piping systems
- Industrial sewage and industrial wastewater discharge systems
- Pressure-free and gravity fluid handling systems
- Biological waste and chemical waste handling systems

Advantages;

- High Resistance Abrasion & Chemicals.
- Light in Weight - Easy to Handle & Transport.
- High Flow Rates
- Long Lasting & Service Life
- Leak Proof Joints

- Economical
- Excellent Flexibility
- Repair & Maintenance.
- Labor & Time Savings
- Smooth Inner Surface
- Highest Strength Against Load & Ground Movement.



Nominal Dia. DN (mm)	Min. Int. Dia. ID (mm)	Max. Ext. Dia. OD (mm)	Length (m)*	Ring Stiffness	Joint type
100	96	111	6 - 12	SN 8	Spigot-Socket
150	146	169	6 - 12	SN 4-8	Spigot-Socket
200	196	229	6 - 12	SN 4-8	Spigot-Socket
300	297	336	6 - 12	SN 4-8	Spigot-Socket
400	396	451	6 - 12	SN 4-8	Spigot-Socket
500	495	562	6 - 12	SN 4-8	Spigot-Socket
600	589	692	6 - 12	SN 4-8	Spigot-Socket

* Standard length of with self-coupling (in line coupling-bell & spigot type) pipes are 6 meter

* Without coupling (socket) pipes can produce customers upon request.



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