



We are giving way to water! for 38 years.

Duzgunler, which took its first steps in the buiness world with its objectives inclined towards the future in 1975, hold on production activities with innovative approach. New production activities have been added to this succes story starting with producing agriculturel machines and spare parts and the modern and extroverted structure of today was reached. Having extended its range of operations started from 100 m² closed area. It is 30 000 m² closed of 80 000 m² open area after investment at since two years.

Being aware of the importance of getting and applying new technologies, Duzgunler manufacture machines itself for its production activities by designed and projected own research and development department. Duzgunler produce high quality product serial and order request according to international norms as TS, EN and ISO with applying ISO 9001:2008 Quality management system. Main production activities are;

PVC deep well casing and Screen pipes and fittings,
PE and PVC pressure water pipes and fittings,
PE Infrastructure Pipes Systems (corrugated pipes),
PVC Column Pipes (submersible pumps),
Irrigation pipes (sprinkling-dripping) and fittings,
Plastic processing and complemantary machines and equipments.

Duzgunler mission is to improve its knowledge and experience for the future by preserving the good image Quality and Services and to maintain its contributions to the country's economy in the sectors it is involved.

Duzgunler has adopted working with creativity and in a team sprit without making concessions about its trusted values so as to be the best, following new technologies and the agenda in the sectors, improving itself and being integrated with the world as its vision.

Duzgunler has ever aimed to the works undertaken by it in the best way by inspiring confidence in the

international arena, thinking globally, keeping its promises till the end. Duzgunler Group has adopted providing the best service and quality to its customers in all of the sectors as a principle since it was first established with its specialized , experinced and disciplined staff.

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14577

KALITE YÖNETIM SISTEMI BELGESI **QUALITY MANAGEMENT SYSTEM CERTIFICATE**

|∴Net

TSE-ISO-EN

TURKISH STANDARDS INSTITUTION hereby certifies that the organization

DÜZGÜNLER PLASTİK MAKİNE METAL NAKLIYAT SAN, VE TİC LIB. STİ. JORGANIZE KANAVI DAY ZE SANAVI BOLG EVRENKOV CAD. 3.50K. NO.12

TÜRK STANDARDLARI ENSTİTÜSÜ TURKISH STANDARDS INSTITUTION

Mudwerts

Belge No /Certificate No KY-4514-06/09-R Beige Tarihi / Date of Certificate 08.05.2012 Geçerlilik Tarihi / Valid Uniti 08.05.2015



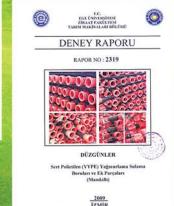


Musuers

Production & Quality Certificates















Well Casing and Screen Pipes and Fittings

Duzgunler Plastic produces a high quality range of PVC-U well casings and screens strictly in accordance with the Standard TS 11794 and ISO standarts, class I, II and III. The standards TS, EN and ISO applies as well for raw materials and workmanship of pipes used in the manufacture of the casing and screen.

There are three basic ranges - a standard range for shallow, medium well depth and a heavy duty, thick walled range for greater well depths.

The casing and screens are made from 100% virgin unplasticized poly vinyl chloride compound and are coloured grey. They are supplied with a male pipe thread at the spigot end and a female pipe thread at the socket end. No re-worked material is used.

The pipe is produced under ISO 9001:2008 Quality Management System.

Screens can be supplied with either a plain or filtered surface. Slots are arranged vertically to improve the mechanical strength of the screens and are designed to give open areas ranging from 6% to 12% depending on the size and slot width.



Materials	PVC - U				
Lengths	Normally supplied in 2m 3m and 4m. Lengths. Other lengths available on request.				
Slot Sizes	Available slot width 2.0 mm.				
Thread Style	Mechanical jointing by threaded connection to TS 11794 with Trapezoidal threads.				
Joints	Each length is supplied with a Male/Female socketed joint as standard.				
Marking	Standard marking is applied to all PVC well casing and screen.				



Dimensions of well casing and screens

	Ext. Dia.			Thickness		Int. Dia.	_	Weight (plain)			
	Tube			Toler	ance	int. Dia. mm	Screw	weight (plain)			
	mm	inch	mm	m	m			2 mt	3 mt	4 mt	
	113	4 1/2"	5.0	+0.70	-0.00	101.6	TR 113x6	5.250	7.750	10.250	
<u></u>	125	5"	5.5	+0.80	-0.00	111.4	TR 125x6	6.550	9.600	12.650	
depth	140	5 1/2"	6.5	+0.90	-0.00	125.3	TR 140x6	8.400	12.450	16.500	
рш	175	6 5/8"	8.0	+1.00	-0.00	157.0	TR 175x6	12.850	19.050	25.250	
00 r	200	8"	9.0	+1.20	-0.00	179.6	TR 200x6	16.500	24.500	32.500	
7	225	8 5/8"	10.0	+1.20	-0.00	202.6	TR 225x6	20.700	30.700	40.700	
	250	9 1/2"	10.5	+1.30	-0.00	226.4	TR 250x6	24.500	36.430	48.300	
	280	10 3/4"	12.5	+1.40	-0.00	252.2	TR 280x12	32.370	47.900	63.430	
	330	12 3/4"	14.5	+1.70	-0.00	297.6	TR 330x12	44.300	65.550	86.800	
	400	16"	18.0	+2.00	-0.00	360.0	TR 400x12	64.740	95.790	126.830	



	Ext. Dia.			Thickness		Int. Dia.		Weight (plain)		
	Tube			Toler	ance	mm. Dia.	Screw	Weight (plant)		
	mm	inch	mm	m	m			2 mt	3 mt	4 mt
	113	4 1/2"	6.5	+0.85	-0.00	97.3	TR 113x6	6.300	9.350	12.400
ے	125	5"	7.1	+0.95	-0.00	108.9	TR 125x6	7.750	11.400	15.050
depth	140	5 1/2"	8.0	+1.00	-0.00	122.0	TR 140x6	10.150	15.050	19.950
рш	175	6 5/8"	10.0	+1.20	-0.00	152.6	TR 175x6	15.800	23.500	31.200
300 r	200	8"	11.5	+1.40	-0.00	173.2	TR 200x6	20.880	31.480	41.080
3(225	8 5/8"	13.0	+1.50	-0.00	196.0	TR 225x6	26.360	39.100	51.840
	250	9 1/2"	14.0	+1.65	-0.00	218.7	TR 250x6	32.250	47.820	63.400
	280	10 3/4"	16.0	+1.80	-0.00	244.4	TR 280x12	40.800	60.350	79.900
	330	12 3/4"	19.0	+2.20	-0.00	287.6	TR 330x12	56.850	84.150	111.450
	400	16"	22.7	+2.20	-0.00	350.2	TR 400x12	82.800	122.080	161.660



th	Ext. Dia.			Thickness		Int. Dia. mm	Screw	Weight (plain)			
	Tube			Tolerance				Weight (plant)			
depth	mm	inch	mm	m	m			2 mt	3 mt	4 mt	
Б	113	4"	8.5	+1.00	-0.00	95.0	TR 113x6	8.480	12.600	16.730	
500 r	125	5"	9.3	+1.15	-0.00	104.1	TR 125x6	10.500	15.500	20.500	
20	140	5 1/2"	10.4	+1.25	-0.00	116.7	TR 140x6	12.900	19.150	25.400	
	175	6 5/8"	13.0	+1.40	-0.00	148.2	TR 175x6	20.020	29.730	39.440	

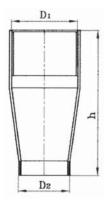




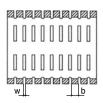
Fittings

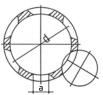






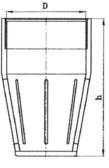
Reduction Dimensions								
D1	D2	h (±25)						
125	113	225						
140	125	260						
175	140	375						
200	175	400						
225	200	560						
280	225	575						
280	250	660						
330	280	590						
400	330	750						



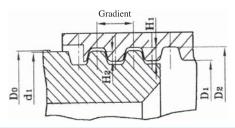


Size Of The Filter Slots									
Ext	. Dia.	Unit of slit	Width of slit	Slit area					
mm	inch	0.0		5 5.5.					
113	4"	5	2	12					
125	4 1/2"	5	2	12					
140	5 1/2"	5	2	12					
175	6 5/8"	5	2	11					
200	8"	5	2	11					
225	8 5/8"	6	2	11					
250	9 1/2"	6	2	11					
280	10 3/4"	6	2	10					
330	12 3/4"	6	2	10					
400	16"	6	2	10					





Spur Dimensions						
D	h (±25)					
113	227					
125	240					
140	257					
175	295					
200	322					
225	348					
250	370					
280	410					
330	464					
400	541					



	Size Of The Trapezoidal Threaded								
Ext	. Dia.	D1	D2	d1	H1	H2	Gradient		
mm	inch								
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 1/2"	135.3	140.5	139.5	3.1	2.1	6		
175	6 5/8"	170.3	175.5	174.5	3.1	2.1	6		
200	8"	195.3	200.5	199.5	3.1	2.1	6		
225	8 5/8"	220.3	225.5	224.5	3.1	2.1	6		
250	9 1/2"	249.5	254.7	253.7	3.1	2.1	6		
280	10 3/4"	270	279	278	5	4	12		
330	12 3/4"	319	328	327	5	4	12		
400	16"	389	398	397	5	4	12		







Pressure Water Pipes

PVC-U PIPES FOR COLD POTABLE WATER CLASS 4, 6, 10 and 16 BAR

Duzgunler Plastic produce a range of PVC-U pipes strictly in accordance with TS EN ISO 1452-2-3 and ISO standards on dimensions, materials and workmanship. The pipe is manufactured from 100% virgin unplasticized polyvinyl chloride compound (PVC-U).

No re-worked material is used. The pipe is produced under an ISO 9001:2008 Quality System.

Duzgunler Plastic pipes are produced in a range of pressure ratings 4, 6, 10 and 16 Bar. Duzgunler Plastic pipes are produced in a range of nominal pressure (PN) at 20°C. The appropriate derating factors should be applied for working pressures when subjected to higher temperatures. The nominal outside diameters and nominal wall tickness are based on an overall service (design) coefficient C=2,5 from 50 mm. to 90 mm. and C= 2 from 110 mm to 400 mm.

Features of Duzgunler Plastic PVC-U pipes;

- 1. Fully compliant with TS EN ISO 1452-2-3.
- 2. Resistant to a wide range of chemicals and corrosion.
- 3. High Impact Resistance
- Quality assured and tested to the strict specifications of the standard for dimension compliance, impact resistance, burst pressure, flattening and joint tightness.
- 5. Smooth internal bore for low friction losses.
- 6. Compatible with the full range of PVC-U Pressure fittings.
- 7. Long service life under a wide range of conditions.
- 8. Will not support combustion.

Duzgunler Plastic pipe is used in a wide range of applications, such as:

- 1. Irrigation systems main/sub-mains.
- 2. Chemical industrial processes.
- 3. Pressurized water supply (city town, industrial, home, commercial.)
- 4. Drainage/sewage applications.
- 5. General services, domestic water, A/C drainage.
- 6. Ducting, electrical, telecommunication.
- 7. Industrial process plants oil/gas/petrochemical.
- 8. Desalination processes, brine disposal, mineral water

Specifications of pressure pipes of Duzgunler Plastic

Raw material: PVC-U

Standarts : TS EN ISO 1452-2-3

Color : Grey

Dimensions : Pipes produced in ranging from Ø 50 mm.

Up to Ø 400 mm diameter.

Normally supplied in 6 m length

Others can be supplied on request.

Pipes are supplied in plain end solvent

Connection : Pipes are supplied in plain end solve weld or rubber ring joint for all size

Tests Results

Density : $1350 \le P \le 1460 \text{ kg/m}^3$

Opacity : Max. % 0,2 Vicot softening temperature : $\ge 80^{\circ}$ C Resistance to dichloromethane Quantity of vinilcloridmonomer : < 1 ppm

Resistance of int. pressure : Two times of nominal pressure

Impact strength : TIR < %10





Jointed Pipe — G-M



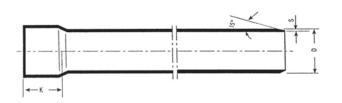
	Ext. Dia.	Belling length KT (mm)	(S 16) (SDR 33) PN 6 s (mm)	(S 10) (SDR 21) PN 10 s (mm)	(S 6.3) (SDR 13.6) PN 16 s (mm)				
:	Service (design) coefficent based as C=2.5 for PN								
	ø50	86	1.6	2.4	3.7				
	ø63	90	2.0	3.0	4.7				
	ø75	94	2.3	3.6	5.6				
	ø90	97	2.8	4.3	6.7				

KT L	\$ d
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Raw Material : U PVC Pressure : 6-10-16 Atm Color : Grey

Ext. Dia.	Belling length	(S 20) (SDR 41)	(S 12.5) (SDR 26)	(S 8) (SDR 17)
	tength	PN 6	PN 10	PN 16
mm	KT (mm)	s (mm)	s (mm)	s (mm)
Service (desi	gn) coefficer	nt based as C	=2.0 for PN	
ø110	104	2.7	4.2	6.6
ø125	108	3.1	4.8	7.4
ø140	112	3.5	5.4	8.3
ø160	119	4.0	6.2	9.5
ø200	129	4.9	7.7	11.9
ø225	136	5.5	8.6	13.4
ø250	143	6.2	9.6	14.8
ø280	152	6.9	10.7	16.6
ø315	160	7.7	12.1	18.7
ø355	169	8.7	13.6	21.1
ø400	178	9.8	15.3	23.7

Ext. Dia.	Belling 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 (desi	Service (design) coefficent based as C=2.5 for PN								
ø50	31.0	1.6	2.4	3.7					
ø63	37.5	2.0	3.0	4.7					
ø75	43.5	2.3	3.6	5.6					
ø90	51.0	2.8	4.3	6.7					



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

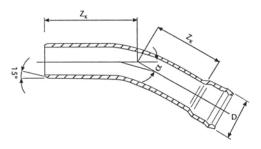
Belling length Ext. Dia. (S 12.5) (SDR 26) PN 10 (S 8) (SDR 17) PN 16 KT (mm) $\,mm$ s (mm) Service (design) coefficent based as C=2.0 for PN 61.0 2.7 4.2 ø110 6.6 3.1 7.4 ø125 68.5 4.8 76.0 3.5 5.4 8.3 ø140 6.2 9.5 ø160 86.0 4.0 ø200 106.0 4.9 7.7 11.9 118.5 5.5 8.6 13.4 ø225 14.8 ø250 131.0 6.2 9.6 146.0 6.9 10.7 16.6 ø280 163.5 7.7 12.1 18.7 ø315 ø355 183.5 8.7 13.6 21.1 ø400 206.0 9.8 15.3 23.7



Bends Joint Socked Type > G-MK - G-MQ





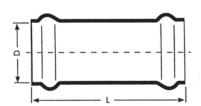


Raw Material : U PVC
Pressure : 6-10-16 Atm
Color : Grey

PN 10 PN 16		α=11°	α=22°	α=30°	α=45°	α=60°	α=90°
Ext. Dia. d (mm)	Arc Radius (mm)	Zk	Zk	Zk	Zk	Zk	Zk
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

Double socketed sleeves G-MMU





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

Ext. Dia. (mm)	L (mm)
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



DCP Column Pipes



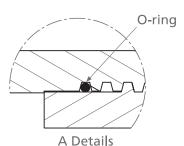


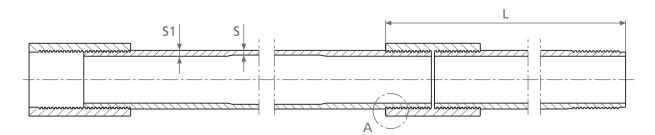
DCP Column Pipes

Düzgünler Plastic has expertise in the pipe production especially PVC pipe processing more than 20 years. Düzgünler Plastic manage to produce PVC column pipes with DCP brand in place of steel pipes by result of innovation and development of its AR-GE department research. DCP column pipes produced from % 100 uPVC compound by using special production techniques as one piece and seamless. DCP Column Pipes also supplied square type thearaded with a male pipe thread at the spigot end and a female pipe thread at the socket end as 3 meters length. Other length can produce upon request. DCP Column Pipes have long life, saving on power, money and handling time. Also DCP column Pipes get yield up to % 10 and % 30 which means get more water.

Advantages

- Low cost, cheapest
- · Long life under usage and storage conditions
- Corrosion proof
- Resistance to wide range chemicals
- Hygienic
- Non-Toksic
- High impact and tensile strength
- Max. temperature 70°C
- Low hydraulic friction
- Save energy
- "O" rings provides leak proof and vibrations
- Low weight
- Easy installation
- Low maintanence
- Dielectric
- Up to % 10 and % 30 yield.





Ext	t. Dia.	Int. Dia.	L	S	S1	Taking a safe load	Pipe weight	Water weight
mm	inch	mm	mm	mm	mm	kg	kg/200 mt	kg/200 mt
42	1 1/4"	33	3000	4.50	5.00	1325	140	170
50	1 1/2"	40	3000	5.00	5.80	1765	214	251
63	2"	50.6	3000	6.20	7.80	2685	333	408
75	2 1/2"	60.2	3000	7.40	8.80	3735	467	584
90	3"	73	3000	8.50	10.20	5320	647	836
115	4"	97	3000	9.00	11.30	7105	867	1508
150	5"	127	3000	11.50	14.00	11600	1453	2572
180	6"	152	3050	14.00	16.30	18000	2153	3626

Safety coefficient: 2

Resistance to instan pressure and shocks



Double Wall Corrugated Pipes



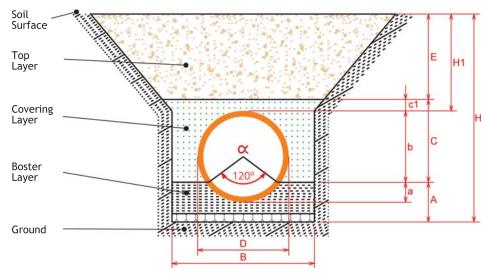


Double Wall Corrugated Pipes

Düzgünler Corrugated HDPE pipes are starting to use on infrastructurel systems for removing and carrying waste water and liquids. Corrugated pipes have superior resistance against waste waters, chemical materials, corrosion and bad environmental conditions.

Düzgünler Corrugated pipes are also resistant to heavy traffic and soil loads because of their special designs. Corrugated pipes don't affected from seismic movements because of their flexible structures. They provide great fludity speed and can't hang on any dreg and conglomeration due to their inner surfaces' smooth structure and low adhesion coefficient. They are completely hygienic and don't include toxic materials.

Other pipe types left rapidly because of their low resistance and high cost. HDPE corrugated pipes are have service life at least 50 years. Düzgünler Corrugated pipes and pieces produced from high density polyethylene as two wall according to TS EN 13476-3+A1 standards.



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)

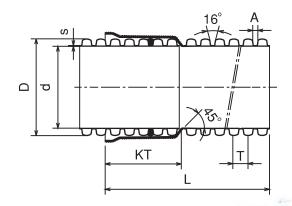
a : 0.25xDb : 0.75xD

E: Top layer (min. 500 mm)



Main Usage areas are;

Sewer systems for municipal waste liquids, Rain water carrying systems, Drainage systems, Water transportig systems with gravity, Industrial waste-water and liquids installations systems, Cable Protection for energy and comminications systems.



Advantages of Duzgunler

Corrugated pipes;
Economic and low cost,
Friendly for environment,
Light weight and flexible,
Easy installation and low maintenance,
High fluidty and low friction coefficient,
Durable and long life.

Ext. Dia.	Outside Dia.	Pipe Length	Belling Length	Step	A	SN 4	SN 8
d (mm)	D (mm)	L (mm)	KT (mm)	T (mm)	(mm)	s (mm)	s (mm)
ø 100	ø 115	6.00	114	10.00	3.50	-	1.0
ø 150	ø 178	6.08	140	26.17	7.00	1.4	1.7
ø 200	ø 235	6.13	170	31.40	8.00	1.9	2.4
ø 250	ø 287	6.14	170	31.40	8.50	2.0	2.4
ø 300	ø 347	6.14	185	39.25	10.50	2.5	3.0
ø 400	ø 468	6.11	245	52.33	12.60	3.2	3.8







PE 100 Pipes

PE 100 is strongest and durable pipe raw material against pressure. PE 100 resists to high pressure then the previous and conventional PE materials. PE 100 pipes have thinner wall thickness according to other PE pipes at the same operating pressure. Thus, at the same diameters with thinner wall thickness gets larger inner diameters and provides energy savings by reducing friction. PE 100 pipes use safely for transporting chemical substances and pressure potable water networks because of its high strength and high design tension. The color of PE 100 pipes for clean water applications blue and black (with blue strips).

Düzgünler PE 100 pipes produce and deliver in best quality under the quality assurance of ISO 9001:2008 quality managment system and according to TS EN 12201-2 standarts as coils - rolls in diameters 20 mm up to 110 mm and as straight pipes 6 meters or 12 meters for larger diameters.

Main usage areas of pe 100 pipes;

- Underground and surface water and liquid transfer networks,
- · Agricultural irrigation systems,
- Sewer and drainage systems,
- Marinas and fish culture farms,
- Sea discharging systems,
- · Geothermal facilities and systems,
- Hydroelectric power plants and systems,
- Refinement facilities and systems,
- Compressed air and gas facilities,
- Cable protection systems.

Advantages pe 100 pipes

- PE 100 pipes are long-lasting (at least 50 years)
- Any corrosion, rustproof, incorruptible,
- PE 100 pipes aren't affected ground movements due to their flexible structure,
- Resistant to abrasive materials in the soil and sea water,
- Energy savings due to smooth surface and low friction,
- High resistant to sun's rays(UV). Any dirt, moss and bacteria created.
- High resistant to chemicals,
- Lighweight. Easy handle, transportation and installation.
- Any wastage because of merge-add methods(butt welding and electrofusion)

Technical Specifications	Value	Unit	Test Method
Color	Blue or Black(on blue strip)	Physical control	
Density (23°C)	> 0.94	g/cm ³	ISO 1183
Melt Flow Rate 190°C-5 kg.	0.2 - 0.7	g/10 min.	ISO 1133
Elongation Break	≥ 350	%	EN ISO 6259-1-3
* Carbon Black amount	> 2	%	ISO 6964
* Distribution of Carbon Black	Degree	Max 3	TS ISO 11420









In sprinkler or overhead irrigation, water is piped to one or more central locations within the field and distributed by overhead high-pressure sprinklers or guns. The water travels through pipes from the water source through the valves to the sprinklers.

The pipes from the water source up to the irrigation valves are called "mainlines" and the lines from the valves to the sprinklers are called "lateral lines". Sprinkler guns mounted overhead on permanently installed risers and rotate in a full or partial circle with high pressure in field. Most piping used in irrigation systems today are HDPE.

Düzgünler sprinkler irrigation system pipes produced as 5 meters and 6 meters length for required working pressure. Under assurance of ISO 9001:2008 quality management systems and according to TS EN 12201-2 Other lengths can produced upon request.







Düzgünler sprinkler irrigation system pipes are;

- · Durable, non-corrosion and long life,
- Resistance for chemicals and sun lights,
- · Light weight, Flexible and unbreakable,
- · Easy installation and handling in fields,
- Stop soil erosion,
- Low labor cost and operation cost,
- · Soluble fertilizers can be added without workmanship during the irrigaton,
- High productivity, more crops. (at least % 50)
- · Water saves, provides efficient water usage.

Paying attention to installation 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.
- In places where wind forces are high laterals should be so installed as to meet the winds vertically.
- Use of very long laterals should be discouraged. Shorter laterals generally ensure homogenous water distribution and saving workmanship.
- In order to ensure minmum 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 regtangle 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.





	Pipe	
Dia mm	5 meter	6 meter
63	~	✓
75	✓	✓
90	✓	✓
110	✓	✓
125	~	✓
140	✓	✓
160	~	~



Male a	and cap
Dia	mm
63	~
75	~
90	~
110	~
125	~
140	~
160	•



Pipe	head	(female)	
	Dia r	nm	
	63	~	
	75	✓	
	90	✓	
	110	~	
	125	✓	
	140	~	
	160	J	



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Pipe head (male)					
Dia	mm				
63	✓				
75	~				
90	•				
110	~				
125	•				
140	~				
160	✓				



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Elb	ow	
Dia	mm	
63	~	
75	~	
90	~	
110	~	
125	~	
140	~	
160	~	



Sprinkler

Main line valve				
Dia mm				
63	~			
75	✓			
90	~			
110	✓			



Sprinkler stand			
	Dia	mm	
	63	~	
	75	~	
	90	~	
	110	~	



Gasket			
Dia mm			
63	~		
75	~		
90	~		
110	~		
125	~		
140	~		
160	~		



Tee			
Dia mm			
63 x 63	✓		
75 x 63	✓		
75 x 75	✓		
90 x 63	~		
90 x 75	~		
90 x 90	~		
110 x 63	~		
110 x 75	~		
110 x 90	~		
110 x 110	~		
125 x 63	•		
125 x 75	~		
125 x 90	~		
125 x110	~		
125 x125	~		
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 x160	✓		



Cross	
Dia mm	
63 x 63	~
75 x 63	•
75 x 75	•
90 x 63	✓
90 x 75	~
90 x 90	~
110 x 63	~
110 x 75	✓
110 x 90	•
110 x 110	~
125 x 63	~
125 x 75	•
125 x 90	~
125 x110	~
125 x125	~
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 x160	•



Reduction			
Dia mm			
75 x 63	~		
90 x 63	~		
90x75	~		
110x75	~		
110x90	✓		
125x110	~		
140x110	✓		
140x125	✓		
160x125	✓		
160x140	✓		

Riser Pipe						
Lenght cm				Lenght cm		
25	~			60	~	
32	~			80	~	
50	~			100	~	





Factory

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