

IŞIN THERM



türkey

Discover
the potential

About us...

EMS plastic was established in 1990. Our main products are PP-R pipes and fittings, U-PVC pipes and fittings and PE-Corrugated pipes and fittings even the metal parts of it to make sure our prices and the quality. We produce superior quality pipes and fittings using our machine park and we trust our technical team who has been working with us at least 15 years. . The company covers 100.000 square meters, with high design, product development and quality control facilities. We as a company have TSE, SASO, ISO 9001-2008 certifications. Our company is one of the oldest company which does producing in that area. To write about location the company is located in Adana which is an international port city. Thanks to our strategic location, we export all over the World including Senegal, Qatar, Ethiopia, Norway, Georgia, Morocco, Kazakhstan, Spain, Lebanon, Iraq...

Top Quality at the Best Price

WE EXPORT ALL OVER THE WORLD

**PVC SEWAGE PIPE
AND FITTINGS**



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IŞIN THERM 

3.2 PVC PIPE

CODE	MM	PCS
9010050015	50x150	100
9010050025	50x250	70
9010050050	50x500	40
9010050100	50x1000	10
9010050200	50x2000	10
9010050300	50x3000	10
9010050600	50x6000	1
9010075015	75x150	40
9010075025	75x250	30
9010075050	75x500	20
9010075100	75x1000	6
9010075200	75x2000	6
9010075300	75x3000	6
9010075600	75x6000	1
9010110015	110x150	20
9010110025	110x250	15
9010110050	110x500	10
9010110100	110x1000	4
9010110200	110x2000	4
9010110300	110x3000	4
9010110600	110x6000	1
9010125015	125x150	15
9010125025	125x250	12
9010125050	125x500	6
9010125100	125x1000	4
9010125200	125x2000	4
9010125300	125x3000	4
9010125600	125x6000	1
9010160015	160x150	10
9010160025	160x250	6
9010160050	160x500	4
9010160100	160x1000	1
9010160200	160x2000	1
9010160300	160x3000	1
9010160600	160x6000	1
9010200015	200x150	6
9010200025	200x250	4
9010200050	200x500	3
9010200100	200x1000	1
9010200200	200x2000	1
9010200300	200x3000	1
9010200600	200x6000	1



2.2 PVC PIPE

CODE	MM	PCS
9011050015	50x150	100
9011050025	50x250	70
9011050050	50x500	40
9011050100	50x1000	10
9011050200	50x2000	10
9011050300	50x3000	10
9011050600	50x6000	1
9011075015	75x150	40
9011075025	75x250	30
9011075050	75x500	20
9011075100	75x1000	6
9011075200	75x2000	6
9011075300	75x3000	6
9011075600	75x6000	1
9011110015	110x150	20
9011110025	110x250	15
9011110050	110x500	10
9011110100	110x1000	4
9011110200	110x2000	4
9011110300	110x3000	4
9011110600	110x6000	1
9011125015	125x150	15
9011125025	125x250	12
9011125050	125x500	6
9011125100	125x1000	4
9011125200	125x2000	4
9011125300	125x3000	4
9011125600	125x6000	1
9011160015	160x150	10
9011160025	160x250	6
9011160050	160x500	4
9011160100	160x1000	1
9011160200	160x2000	1
9011160300	160x3000	1
9011160600	160x6000	1
9011200015	200x150	6
9011200025	200x250	4
9011200050	200x500	3
9011200100	200x1000	1
9011200200	200x2000	1
9011200300	200x3000	1
9011200600	200x6000	1



U-PVC SEWAGE PIPES

ELBOW 45°



CODE	MM	PCS
9012050045	50x45	200
9012075045	75x45	80
9012110045	110x45	30
9012125045	125x45	20
9012160045	160x45	10
9012200045	200x45	5

ELBOW 87°



CODE	MM	PCS
9013050087	50x87	150
9013075087	75x87	70
9013110087	110x87	25
9013125087	125x87	15
9013160087	160x87	8
9013200087	200x87	4

CODE	MM	PCS
9015050050	50x50	100
9015075050	75x50	50
9015075075	75x75	35
9015110050	110x50	20
9015110075	110x75	20
9015110110	110x110	15
9015125050	125x50	10
9015125075	125x75	10
9015125110	125x110	10
9015125125	125x125	10
9015160050	160x50	8
9015160075	160x75	8
9015160110	160x110	8
9015160125	160x125	5
9015160160	160x160	4
9015200110	200x110	5
9015200125	200x125	3
9015200160	200x160	3
9015200200	200x200	3

TEE-BRANCH 87°



BRANCH 45°



DOUBLE BRANCH 45°



CODE	MM	PCS
9014050050	50x50	80
9014075050	75x50	50
9014075075	75x75	30
9014110050	110x50	20
9014110075	110x75	15
9014110110	110x110	10
9014125050	125x50	10
9014125075	125x75	10
9014125110	125x110	10
9014125125	125x125	8
9014160050	160x50	10
9014160075	160x75	10
9014160110	160x110	6
9014160125	160x125	5
9014160160	160x160	4
9014200110	200x110	5
9014200125	200x125	5
9014200160	200x160	4
9014200200	200x200	4

CODE	MM	PCS
9016050050	50x50	60
9016075050	75x50	20
9016075075	75x75	20
9016110050	110x50	20
9016110075	110x75	10
9016110110	110x110	8
9016125050	125x50	10
9016125075	125x75	10
9016125110	125x110	10
9016125125	125x125	10
9016160050	160x50	5
9016160075	160x75	5
9016160110	160x110	5
9016160125	160x125	5
9016160160	160x160	4
9016200110	200x110	3
9016200125	200x125	3
9016200160	200x160	3
9016200200	200x200	3

U-PVC SEWAGE PIPES

REDUCTION



CODE	MM	PCS
9017075050	75x50	100
9017110050	110x50	60
9017110075	110x75	50
9017125075	125x75	40
9017125110	125x110	30
9017160110	160x110	25
9017160125	160x125	25
9017200110	200x110	15
9017200125	200x125	15
9017200160	200x160	10

SLIDING COUPLING



CODE	MM	PCS
9018050050	50	150
9018075075	75	80
9018110110	110	30
9018125125	125	30
9018160160	160	12
9018200200	200	6

S SIPHON



CODE	MM	PCS
9019075045	75x45	25
9019110045	110x45	10
9019075087	75x87	25
9019110087	110x87	8

S SIPHON WITH GASKET



CODE	MM	PCS
9024110045	110x45	10
9024110087	110x87	8

ACCESS ELBOW



CODE	MM	PCS
9025110087	110x87	15

ACCESS PIPE



CODE	MM	PCS
9020050050	50	100
9020075075	75	35
9020110110	110	15
9020125125	125	10
9020160160	160	5
9020200200	200	3

CLAMP



CODE	MM	PCS
9021050050	50	500
9021075075	75	200
9021110110	110	100
9021125125	125	100
9021160160	160	50
9021200200	200	25

PLUG



CODE	MM	PCS
9023050050	50	1000
9023075075	75	300
9023110110	110	150
9023125125	125	100
9023160160	160	75
9023200200	200	30

U-PVC SEWAGE PIPES

CHECK VALVE



GASKET



CODE	MM	PCS
9022050050	50	12
9022075075	75	4
9022110110	110	2
9022125125	125	1
9022160160	160	1
9022200200	200	1

CODE	MM	PCS
9050050050	50	5000
9050075075	75	4000
9050110110	110	2000
9050125125	125	1000
9050160160	160	800
9050200200	200	500

APPLICATION AREA

Işin U- PVC sewage pipe and fittings is ideal for construction works and structures such as villas, and multi-floor houses, hospitals, hotels, etc... The features of U- PVC sewage pipe and fittings are environmental friendly, economical and its resistant temperature is up to 60 C and maintains ideal. It secures drainage of foundation and indoor sewage for long-term uses. Thanks to its smooth inner and outer surfaces, it does not allow any residuals, deposits, bacteria growth and smell.

The production is accordant with the standart of TS 275-1 EN 1329-1 in a type BD type. The type of BD waste water pipe and fittings are used inside and outside of the buildings placed on the wall or underground within suitable distance from the buildings.

STORAGE & HANDLING

The products must be stored on flat level ground, free from large or sharp stones or stacks on 75 mm square timber at 1,5 meter centres to a maximum height of 1,5 m with sockets at alternative ends, in tropical temperatures.

U-PVC is a tough resilient material but careless handling can cause damages. In very hot or cold conditions, extra care is required.

Fittings are generally stacked in cartoons, bags or on shelves.

S GASKET



CODE	MM	PCS
9051110110	110	400

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**PPR HOT/COLD WATER
PIPE AND FITTINGS**



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PPR HOT/COLD WATER PIPES

PIPE PN 16



CODE	MM	S	MT/PCS	BUNDLE
9110020020	20	2,8	4x25	100
9110025025	25	3,5	4x25	100
9110032032	32	4,4	4x20	80
9110040040	40	5,5	4x15	60
9110050050	50	6,9	4x6	24
9110063063	63	8,6	4x4	16
9110075075	75	10,3	4x3	12
9110090090	90	12,3	4x2	8
9110110110	110	15,1	4x1	4
9110125125	125	17,1	4x1	4

PIPE PN 20



CODE	MM	S	MT/PCS	BUNDLE
9111020020	20	3,4	4x25	100
9111025025	25	4,2	4x25	100
9111032032	32	5,4	4x20	80
9111040040	40	6,7	4x15	60
9111050050	50	8,3	4x6	24
9111063063	63	10,5	4x4	16
9111075075	75	12,5	4x3	12
9111090090	90	15,0	4x2	8
9111110110	110	18,3	4x1	4
9111125125	125	20,8	4x1	4

STABIL WITH ALUMINIUM PIPE PN 25



CODE	MM	S	MT/PCS	BUNDLE
9112020020	20	4,1	4x25	100
9112025025	25	5,1	4x20	80
9112032032	32	6,5	4x10	40
9112040040	40	8,1	4x10	40
9112050050	50	10,1	4x5	20
9112063063	63	12,7	4x3	12

ELBOW 45°



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9117020020	20	19,5	25,5	14,5	5x100	500
9117025025	25	24,5	29,5	16,0	3x100	300
9117032032	32	31,5	35,0	18,0	3x50	150
9117040040	40	39,5	41,5	20,5	5x20	100
9117050050	50	49,5	50,0	23,5	5x10	50
9117063063	63	62,5	60,0	27,5	5x5	25

TAIL ELBOW 90°



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9119020020	20	19,5	23,0	14,5	5x100	500
9119025025	25	24,5	25,0	16,0	3x100	300

ELBOW 90°



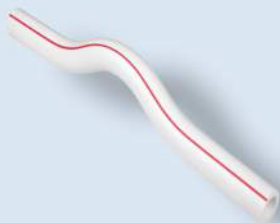
CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9118020020	20	19,5	34,0	14,5	5x100	500
9118025025	25	24,5	37,0	16,0	3x100	300
9118032032	32	31,5	41,0	18,0	3x50	150
9118040040	40	39,5	45,0	20,5	5x20	100
9118050050	50	49,5	52,0	23,5	5x10	50
9118063063	63	62,5	60,0	27,5	5x5	25
9118075075	75	74,5	65,0	30,5	5x3	15
9118090090	90	89,5	71,0	33,0	5x2	10
9118110110	110	109,5	80,0	37,0	4x1	4

SOCKET



CODE	MM	Ød ₁	L	E	BAG/PCS	BUNDLE
9116020020	20	19,5	34,0	14,5	7x100	700
9116025025	25	24,5	37,0	16,0	5x100	500
9116032032	32	31,5	41,0	18,0	5x50	250
9116040040	40	39,5	45,0	20,5	5x30	150
9116050050	50	49,5	52,0	23,5	5x20	100
9116063063	63	62,5	60,0	27,5	5x12	60
9116075075	75	74,5	65,0	30,5	6x5	30
9116090090	90	89,5	71,0	33,0	6x4	24
9116110110	110	109,5	80,0	37,0	5x2	10

CROSSOVER



CODE	MM	Ød ₁	L	H	BAG/PCS	BOX
9124020020	20	19,5	320,0	40,0	3x40	120
9124025025	25	24,5	320,0	50,0	3x30	90
9124032032	32	31,5	320,0	64,0	5x10	50
9124040040	40	39,5	320,0	80,0	5x6	30

CROSSOVER SOCKET



CODE	MM	Ød ₁	L	H	BAG/PCS	BOX
9125020020	20	19,5	145,0	38,0	3x40	120
9125025025	25	24,5	145,0	51,0	3x30	90
9125032032	32	31,5	145,0	66,0	5x10	50

C - CROSSOVER



CODE	MM	Ød ₁	L	H	BAG/PCS	BOX
9126020020	20	19,5	95,0	38,0	3x40	120
9126025025	25	24,5	95,0	51,0	3x30	90
9126032032	32	31,5	95,0	66,0	5x10	50

SINGLE CLAMP



CODE	MM	Ød ₁	-	-	BAG/PCS	BOX
9127020020	20	20,5	-	-	4x300	1200
9127025025	25	25,5	-	-	4x200	800
9127032032	32	32,5	-	-	6x100	600
9127040040	40	40,5	-	-	5x50	250

PPR HOT/COLD WATER PIPES

BEND



CODE	MM	Ød ₁	-	-	BAG/PCS	BOX
9163025025	25	24,5	-	-	4x40	160

BY-PASS



CODE	MM	Ød ₁	L	-	BAG/PCS	BOX
9167025025	25	24,5	87,0	-	5x20	100

TEE



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9120020020	20	19,5	51,0	14,5	3x100	300
9120025025	25	24,5	59,0	16,0	4x50	200
9120032032	32	31,5	70,0	18,0	4x30	120
9120040040	40	39,5	83,0	20,5	4x15	60
9120050050	50	49,5	105,0	23,5	4x10	40
9120063063	63	62,5	126,0	27,5	4x4	16
9120075075	75	74,5	160,0	30,5	4x3	12
9120090090	90	89,5	170,0	33,0	6x1	6
9120110110	110	109,5	186,0	37,0	4x1	4

CLOSING CAP



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9123020020	20	19,5	27,0	14,5	4x200	800
9123025025	25	24,5	30,0	16,0	6x100	600
9123032032	32	31,5	34,0	18,0	4x100	400
9123040040	40	39,5	47,0	20,5	4x50	200
9123050050	50	49,5	47,0	23,5	4x25	100
9123063063	63	62,5	54,0	27,5	4x15	60
9123075075	75	74,5	60,0	30,5	8x5	40
9123090090	90	89,5	65,0	33,0	5x5	25
9123110110	110	109,5	70,0	37,0	5x3	15

END PLUG



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9121020020	20	19,5	34,0	14,5	4x250	1000
9121025025	25	24,5	37,0	16,0	4x200	800
9121032032	32	31,5	41,0	18,0	6x100	600
9121040040	40	39,5	45,0	20,5	5x50	250

END PLUG LONG



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9122020020	20	19,5	73,0	14,5	7x50	350

LAUNDRY FORK



CODE	MM	Ød ₁	Ød ₂	L	-	BAG/PCS	BOX
9130025025	25	24,5	16,50	56,50	-	5x50	250

END PLUG SIX CORN LONG



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9166020020	20	19,5	8,5	14,5	7x50	350

REDUCER ELBOW



CODE	MM	Ød ₁	Ød ₂	-	BAG/PCS	BOX
9165025020	25/20	24,5	19,5	-	3x100	300
9165032025	32/25	31,5	24,5	-	3x50	150
9165040032	40/32	39,5	31,5	-	5x20	100

REDUCER SOCKET



CODE	MM	Ød ₁	Ød ₂	-	BAG/PCS	BOX
9168032025	32/25	31,5	24,5	-	5x50	250

CHECKVALVE



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9128020020	20	19,5	68,0	14,5	7x50	350
9128025025	25	24,5	68,0	16,0	5x50	250

SPRINGY CHECKVALVE



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9159020020	20	19,5	6,8	14,5	7x50	350
9159025025	25	24,5	6,8	16,0	5x50	250

REDUCER



UNEQUAL TEE



CODE	MM	Ød ₁	Ød ₂	E	BAG/PCS	BOX
9129025020	25/20	24,5	19,5	14,51	7x100	700
9129032020	32/20	31,5	19,5	4,5	3x100	300
9129032025	32/25	31,5	24,5	16,0	3x100	300
9129040020	40/20	39,5	19,5	14,5	4x50	200
9129040025	40/25	39,5	24,5	16,0	4x50	200
9129040032	40/32	39,5	31,5	18,0	4x50	200
9129050020	50/20	49,5	19,5	14,5	4x25	100
9129050025	50/25	49,5	24,5	16,0	4x25	100
9129050032	50/32	49,5	31,5	18,0	4x25	100
9129050040	50/40	49,5	39,5	20,5	4x25	100
9129063020	63/20	62,5	19,5	14,5	5x10	50
9129063025	63/25	62,5	24,5	16,0	5x10	50
9129063032	63/32	62,5	31,5	18,0	5x10	50
9129063040	63/40	62,5	39,5	20,5	5x10	50
9129063050	63/50	62,5	49,5	23,5	5x10	50
9129075050	75/50	74,5	49,5	23,5	5x8	40
9129075063	75/63	74,5	62,5	27,5	5x8	40
9129090050	90/50	89,5	49,5	23,5	8x3	24
9129090063	90/63	89,5	62,5	27,5	8x3	24
9129090075	90/75	89,5	74,5	30,5	8x3	24
9129110063	110/63	109,5	62,5	27,5	6x3	18
9129110075	110/75	109,5	74,5	31,0	6x3	18
9129110090	110/90	109,5	89,5	35,5	6x3	18

CODE	MM	Ød ₁	Ød ₂	Ød ₃	BAG/PCS	BOX
9131252020	25/20/20	24,5	19,50	19,5	4x50	200
9131252025	25/20/25	24,5	19,50	24,5	4x50	200
9131322020	32/20/20	31,5	19,50	19,5	4x30	120
9131322032	32/20/32	31,5	19,50	31,5	4x30	120
9131322520	32/25/20	31,5	24,50	19,5	4x30	120
9131322525	32/25/25	31,5	24,50	24,5	4x30	120
9131322532	32/25/32	31,5	24,50	31,5	4x30	120
9131402040	40/20/40	39,5	19,50	39,5	4x15	60
9131402540	40/25/40	39,5	24,50	39,5	4x15	60
9131403240	40/32/40	39,5	31,50	39,5	4x15	60
9131502050	50/20/50	49,5	19,50	49,5	4x10	40
9131502550	50/25/50	49,5	24,50	49,5	4x10	40
9131503250	50/32/50	49,5	31,50	49,5	4x10	40
9131504050	50/40/50	49,5	39,50	49,5	4x10	40
9131632063	63/20/63	62,5	19,50	62,5	4x4	16
9131632563	63/25/63	62,5	24,50	62,5	4x4	16
9131633263	63/32/63	62,5	31,50	62,5	4x4	16
9131634063	63/40/63	62,5	39,50	62,5	4x4	16
9131635063	63/50/63	62,5	49,50	62,5	4x4	16
9131752075	75/20/75	74,5	19,50	74,5	4x3	12
9131752575	75/25/75	74,5	24,50	74,5	4x3	12
9131753275	75/32/75	74,5	31,50	74,5	4x3	12
9131754075	75/40/75	74,5	39,50	74,5	4x3	12
9131755075	75/50/75	74,5	49,50	74,5	4x3	12
9131756375	75/63/75	74,5	62,50	74,5	4x3	12
9131904090	90/40/90	89,5	39,50	89,5	6x1	6
9131905090	90/50/90	89,5	49,50	89,5	6x1	6
9131906390	90/63/90	89,5	62,50	89,5	6x1	6
9131907590	90/75/90	89,5	74,50	89,5	6x1	6
913111050110	110/50/110	109,5	49,50	109,5	4x1	4
913111063110	110/63/110	109,5	62,50	109,5	4x1	4
913111075110	110/75/110	109,5	74,50	109,5	4x1	4
913111090110	110/90/110	109,5	89,50	109,5	4x1	4

FEMALE UNION



MALE UNION



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9132020012	20x1/2"	19,5	40,0	14,5	6x50	300
9132020034	20x3/4"	19,5	40,0	14,5	5x50	250
9132025012	25x1/2"	24,5	40,0	16,0	4x50	200
9132025034	25x3/4"	24,5	40,0	16,0	4x50	200
9132032012	32x1/2"	31,5	47,0	18,0	5x15	75
9132032034	32x3/4"	31,5	47,0	18,0	5x15	75
9132032100	32x1"	31,5	47,0	18,0	5x15	75

CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9133020012	20x1/2"	19,5	52,5	14,5	5x50	250
9133020034	20x3/4"	19,5	52,5	14,5	3x50	150
9133025012	25x1/2"	24,5	52,5	16,0	3x50	150
9133025034	25x3/4"	24,5	52,5	16,0	3x50	150
9133032012	32x1/2"	31,5	59,5	18,0	5x15	75
9133032034	32x3/4"	31,5	59,5	18,0	5x15	75
9133032100	32x1"	31,5	59,5	18,0	5x15	75

MANIFOLD-4 WAY



CODE	MM	Ød ₁	Ød ₂	L	BAG/PCS	BOX
9164322532	32*25*32	31,5	24,5	-	5x7	35
9164502550	50*25*50	49,5	24,5	-	3x5	15
9164503250	50*32*50	49,5	31,5	-	3x5	15
9164632563	63*25*63	62,5	24,5	-	4x3	12
9164633263	63*32*63	62,5	31,5	-	4x3	12

FEMALE SIX CORN UNION



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9134032100	32x1"	31,5	57,5	18,0	5x10	50
9134040114	40x1 1/4"	39,5	55,5	20,5	5x10	50
9134050112	50x1 1/2"	49,5	60,0	23,5	4x10	40
9134063200	63x2"	62,5	70,0	27,5	4x5	20
9134075212	75x2 1/2"	74,5	85,0	30,5	6x2	12
9134090300	90x3"	89,5	96,5	33,0	5x2	10
9134110400	110x4"	109,5	120,0	37,0	5x1	5

MALE SIX CORN UNION



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9135032100	32x1"	31,5	72,0	18,0	5x10	50
9135040114	40x1 1/4"	39,5	77,0	20,5	5x10	50
9135050112	50x1 1/2"	49,5	80,0	23,5	4x10	40
9135063200	63x2"	62,5	90,0	27,5	4x5	20
9135075212	75x2 1/2"	74,5	100,0	30,5	6x2	12
9135090300	90x3"	89,5	115,0	33,0	5x2	10
9135110400	110x4"	109,5	135,0	37,0	5x1	5

FEMALE MOVABLE UNION



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9136020012	20x1/2"	19,5	38,0	14,5	6x25	150
9136020034	20x3/4"	19,5	38,0	14,5	6x25	150
9136025012	25x1/2"	24,5	40,0	16,0	5x25	125
9136025034	25x3/4"	24,5	40,0	16,0	5x25	125
9136025100	25x1"	24,5	40,0	16,0	5x25	125
9136032034	32x3/4"	31,5	45,0	18,0	6x15	90
9136032100	32x1"	31,5	45,0	18,0	6x15	90
9136040114	40x1 1/4"	39,5	50,0	20,5	5x10	50
9136050112	50x1 1/2"	49,5	60,0	23,5	6x5	30
9136063200	63x2"	62,5	70,0	27,5	5x4	20

MALE MOVABLE UNION



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9137020012	20x1/2"	19,5	50,0	14,5	5x25	125
9137020034	20x3/4"	19,5	50,0	14,5	5x25	125
9137025012	25x1/2"	24,5	53,0	16,0	4x25	100
9137025034	25x3/4"	24,5	53,0	16,0	4x25	100
9137025100	25x1"	24,5	53,0	16,0	4x25	100
9137032034	32x3/4"	31,5	57,0	18,0	5x15	75
9137032100	32x1"	31,5	57,0	18,0	5x15	75
9137040114	40x1 1/4"	39,5	65,0	20,5	5x8	40
9137050112	50x1 1/2"	49,5	70,0	23,5	5x5	25
9137063200	63x2"	62,5	80,0	27,5	4x4	16

FEMALE BAT. CON.



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9142020012	20x1/2"	19,5	35,0	14,5	4x50	200
9142025012	25x1/2"	24,5	35,0	16,0	4x50	200
9142025034	25x3/4"	24,5	35,0	16,0	4x50	200

MALE BAT. CON.



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9143020012	20x1/2"	19,5	50,0	14,5	4x50	200
9143025012	25x1/2"	24,5	50,0	16,0	4x50	200
9143025034	25x3/4"	24,5	50,0	16,0	4x50	200

FEMALE ELBOW



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9140020012	20x1/2"	19,5	35,0	14,5	5x50	250
9140020034	20x3/4"	19,5	35,0	14,5	4x50	200
9140025012	25x1/2"	24,5	37,0	16,0	4x50	200
9140025034	25x3/4"	24,5	37,0	16,0	4x50	200
9140032012	32x1/2"	31,5	49,0	18,0	6x15	90
9140032034	32x3/4"	31,5	49,0	18,0	6x15	90
9140032100	32x1"	31,5	49,0	18,0	6x15	90
9140040114	40x1 1/4"	39,5	49,0	20,5	5x10	50

MALE ELBOW



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9141020012	20x1/2"	19,5	50,0	14,5	5x50	250
9141020034	20x3/4"	19,5	50,0	14,5	3x50	150
9141025012	25x1/2"	24,5	55,0	16,0	3x50	150
9141025034	25x3/4"	24,5	55,0	16,0	3x50	150
9141032012	32x1/2"	31,5	64,0	18,0	5x15	75
9141032034	32x3/4"	31,5	64,0	18,0	5x15	75
9141032100	32x1"	31,5	64,0	18,0	5x15	75
9141040114	40x1 1/4"	39,5	64,0	20,5	4x10	40

FEMALE TEE



MALE TEE



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9138201220	20x1/2"x20	19,5	36,0	14,5	4x50	200
9138203420	20x3/4"x20	19,5	36,0	14,5	3x50	150
9138251225	25x1/2"x25	24,5	38,0	16,0	3x50	150
9138253425	25x3/4"x25	24,5	38,0	16,0	3x50	150
9138321232	32x1/2"x32	31,5	49,0	18,0	5x15	75
9138323432	32x3/4"x32	31,5	49,0	18,0	5x15	75
9138321032	32x1"x32	31,5	49,0	18,0	5x15	75

CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9139201220	20x1/2"x20	19,5	50,0	14,5	4x50	200
9139203420	20x3/4"x20	19,5	50,0	14,5	3x50	150
9139251225	25x1/2"x25	24,5	57,0	16,0	3x50	150
9139253425	25x3/4"x25	24,5	57,0	16,0	3x50	150
9139321232	32x1/2"x32	31,5	65,0	18,0	4x15	60
9139323432	32x3/4"x32	31,5	65,0	18,0	4x15	60
9139321032	32x1"x32	31,5	65,0	18,0	4x15	60

ADJUSTABLE BAT. CON.



TRANSITION UNION TWO SIDE W.



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9158020012	20x1/2"	19,5	120,0	14,5	5x5	25
9158025012	25x1/2"	24,5	120,0	16,0	5x5	25

CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9160020020	20*20	19,5	56,0	14,5	4x25	100
9160025025	25*25	24,5	59,0	16,0	5x15	75
9160032032	32*32	31,5	60,0	18,0	5x10	50

PPR HOT/COLD WATER PIPES

FEMALE LUSTRATION BAT. CON.



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9145020012	20x1/2"	19,5	120,0	14,5	4x15	60
9145025012	25x1/2"	24,5	120,0	16,0	4x15	60

MALE LUSTRATION BAT. CON.



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9172020012	20x1/2"	19,5	120,0	14,5	4x15	60
9172025012	25x1/2"	24,5	120,0	16,0	4x15	60

FEMALE DOUBLE BAT. CON.



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9144020012	20x1/2"	19,5	147,0	14,5	4x10	40
9144020034	20x3/4"	19,5	147,0	14,5	4x10	40
9144025012	25x1/2"	24,5	147,0	16,0	4x10	40

MALE DOUBLE BAT. CON.



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9173020012	20x1/2"	19,5	147,0	14,5	4x10	40
9173020034	20x3/4"	19,5	147,0	14,5	4x10	40
9173025012	25x1/2"	24,5	147,0	16,0	4x10	40

FEMALE DOUBLE BAT. CON. - 10 CM



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9171020012	20x1/2"	19,5	92,0	14,5	4x10	40
9171025012	25x1/2"	24,5	92,0	16,0	4x10	40

MALE DOUBLE BAT. CON. - 10 CM



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9170020012	20x1/2"	19,5	92,0	14,5	4x15	60
9170025012	25x1/2"	24,5	92,0	16,0	4x15	60

TRANSITION UNION BALL VALVE



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9162020020	20	19,5	74,0	14,5	4x10	40
9162025025	25	24,5	74,0	16,0	3x10	30
9162032032	32	31,5	82,0	18,0	4x5	20
9162040040	40	39,5	82,0	20,0	4x3	12
9162050050	50	49,5	91,0	23,5	5x2	10
9162063063	63	62,5	100,0	30,5	3x2	6

STOP VALVE



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9148020020	20x1/2"	19,5	81,0	14,5	4x25	100
9148025025	25x3/4"	24,5	86,0	16,0	4x15	60
9148032034	32x3/4"	31,5	104,0	18,0	4x10	40
9148032032	32x1"	31,5	104,0	18,0	4x10	40
9148040040	40x1 1/4"	39,5	122,0	20,5	5x6	30

PLS. BALL VALVE



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9149020020	20	19,5	74,0	14,5	6x20	120
9149025025	25	24,5	74,0	16,0	5x20	100
9149032032	32	31,5	82,0	18,0	4x15	60
9149040040	40	39,5	82,0	20,5	4x6	24
9149050050	50	49,5	91,0	23,5	4x4	16
9149063063	63	62,5	100,0	30,5	4x2	8

METAL BALL VALVE



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9150020020	20	19,5	74,0	14,5	5x20	100
9150025025	25	24,5	74,0	16,0	5x20	100
9150032032	32	31,5	82,0	18,0	4x15	60
9150040040	40	39,5	82,0	20,5	4x6	24
9150050050	50	49,5	91,0	23,5	4x4	16
9150063063	63	62,5	100,0	30,5	4x2	8

CHROME H. VALVE MEDALLION



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9152020020	20	19,5	122,0	14,5	1x23	23
9152025025	25	24,5	132,0	16,0	1x23	23
9152032032	32	31,5	137,0	18,0	1x23	23
9176020020	20	19,5	153,0	20,0	1x23	23
9176025025	25	24,5	156,0	22,0	1x23	23
9176032032	32	31,5	163,0	24,0	1x23	23

CHROME H. VALVE ALFA



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9151020020	20	19,5	112,0	14,5	1x23	23
9151025025	25	24,5	123,0	16,0	1x23	23
9151032032	32	31,5	129,0	18,0	1x23	23
9174020020	20	19,5	143,0	20,0	1x23	23
9174025025	25	24,5	146,0	22,0	1x23	23
9174032032	32	31,5	155,0	24,0	1x23	23

CHROME H. VALVE OPEN/CLOSE



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9169025025	25	24,5	123,0	16,0	4x10	40

FLUSH VALVE OPEN/CLOSE



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9193025025	25	24,5	152,50	16,0	-	-

CHROME H.VALVE CAP MEDALLION



CODE	MM	-	L	-	BAG/PCS	BOX
9177012012	20x1/2	-	97,35	-	1x23	23
9177034034	25x3/4	-	102,34	-	1x23	23
9177100100	32x1"	-	99,25	-	1x23	23
9179012012	20x1/2	-	128,35	-	1x23	23
9179034034	25x3/4	-	126,54	-	1x23	23
9179034034	32x1"	-	125,25	-	1x23	23

CHROME H.VALVE CAP ALFA



CODE	MM	-	L	-	BAG/PCS	BOX
9175012012	20x1/2"	-	87,35	-	1x23	23
9175034034	25x3/4"	-	93,54	-	1x23	23
9175100100	32x1"	-	91,25	-	1x23	23
9178012012	20x1/2"	-	118,35	-	1x23	23
9178034034	25x3/4"	-	116,54	-	1x23	23
9178100100	32x1"	-	117,25	-	1x23	23

PLS. STOP VALVE



CODE	R	-	L	-	BAG/PCS	BOX
9157012012	1/2"	-	73,0	-	5x50	250
9157034034	3/4"	-	73,0	-	5x40	200
9157100100	1"	-	73,0	-	5x30	150

STOP VALVE UNIT



CODE	R	Ød ₁	L	E	BAG/PCS	BOX
8048020020	20	19,5	36,0	14,5	5x50	250
8048025025	25	24,5	38,0	16,0	5x40	200
8048032032	32	31,5	49,0	18,0	5x30	150

FEMALE BALL VALVE



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9153020012	20x1/2"	19,5	75,0	14,5	4x20	80
9153025034	25x3/4"	24,5	75,0	16,0	4x20	80

MALE BALL VALVE



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9154020012	20x1/2"	19,5	87,0	14,5	4x20	80
9154025034	25x3/4"	24,5	87,0	16,0	4x20	80

ADAPTOR WITH NUT



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9182020012	20	19,5	45,0	14,5	5x50	250
9182025034	25	24,5	49,0	16,0	4x50	200

ELBOW WITH NUT



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9183020012	20	19,5	35,0	14,5	5x50	250
9183025034	25	24,5	37,5	16,0	4x50	200

FILTER MALE



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9185020012	20	19,5	80,0	14,5	10x20	200
9185025034	25	24,5	100,0	16,5	12x10	120

COUNTER CHECKVALVE



CODE	MM	-	L	E	BAG/PCS	BOX
9146034034	3/4"	-	46,0	-	5x50	250

ELBOW BOILER SET



CODE	PCS	-	-	BAG/PCS	BOX
9186021008	8	-	-	5x3	15
9186021010	10	-	-	5x3	15

ADAPTOR BOILER SET



CODE	PCS	-	-	BAG/PCS	BOX
9186011008	8	-	-	5x3	15
9186011010	10	-	-	5x3	15

WATER ACID PLS.UNION



CODE	MM	Ød ₁	L	E	BAG/PCS	BOX
9156020020	20	19,5	48,0	14,5	6x25	150
9156025025	25	24,5	52,0	16,0	5x25	125
9156032032	32	31,5	57,0	18,0	6x15	90
9156040040	40	39,5	64,0	20,5	5x10	50
9156050050	50	49,5	84,0	23,5	4x10	40
9156063063	63	62,5	103,0	27,5	4x5	20
9156075075	75	74,5	107,0	30,5	5x3	15
9156090090	90	89,5	118,0	33,0	5x2	10
9156110110	110	109,5	127,0	37,0	5x1	5

WELDING MACHINE



CODE	MM	BAG/PCS	BOX
9188020020	-	1x1	1
9188020030	-	1x1	1
9188020040	-	1x1	1

WELDING SET



CODE	MM	BAG/PCS	BOX
9187020020	-	5x1	5
9187020030	-	5x1	5
9187020040	-	1x1	1

SCISSORS



CODE	MM	BAG/PCS	BOX
9190020020	-	1x1	1
9190025025	-	1x1	1

TEST PUMP



CODE	-	BAG/PCS	BOX
9191020020	-	1x1	1

WELDING APPARATUS



CODE	MM	BAG/PCS	BOX
9189020020	20	4x15	60
9189025025	25	5x10	50
9189032032	32	5x8	40
9189040040	40	5x6	30
9189050050	50	5x4	20
9189063063	63	5x3	15
9189075075	75	5x2	10

Since Işın fiber glass reinforced PP-R pipes have a thermal expansion of co-efficiently close to stabil with aluminium pipes, they can conveniently be used in the areas where the pipes are used.

For fiber glass reinforced PP-R: 0,40 mm/mk

For stabil pipe: 0,030 mm/mk

The welding of IŞIN fiber glass reinforced PP-R pipes are just like plain pipe, does not require shaving. Since IŞIN fiber glass reinforced PP-R pipe does not require shaving, it is applied 30% faster than other pipes.

Model Application

20 mm diameter fiber glass PP-R and stabil PP-R pipes are compared. The comparison is conducted under laboratory conditions and requires 250 welding. Duration of welding for one fibre glass reinforced PP-R pipe is 20,8 sec. The same condition is applicable for stabil pipe is 30,3 sec. The difference of the time is 9,5 sec. for one stabil pipe. Total time saving for 250 welding would be 40 minutes.

The system for PP-R pipe is applicable for heating and chilling together. The loss of heat will not occur for stabil with aluminium pipes.

Aluminium heat transfer co-efficient: 190 w/mk

Fiber glass heat transfer co-efficient: 1,10 w/mk

The internal and external surfaces must be smooth, clean, not cracked, not bubbled and not porous when controlled with bare eyes instead of a magnifier. Materials should not pose visible impurities. Pipe tips must be cut perpendicular to clean pipe axis. Using time for the pipe under proper pressure and temperature would be 50 years.

Proper pressure and temperature refers to 20 bar pressure and 20 Celsius degree.

Fusing Tool

The pipes and fittings in type 3 PP-R piping systems are connected through thermal fuse plugging. The thermal fusing tools are applied to melt the inner&outer surfaces of the fitting and pipes simultaneously and plug connect them under the specified temperature and conditions.

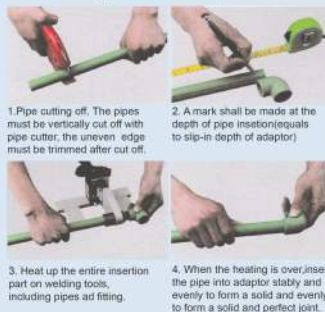
Operation Requirement

1. Check whether or not the specifications of the pipes and fittings to be connected meet with the install action requirement before the construction.
2. Check the visual quality of pipes and fittings. Remove any cracks found, oil and burs. Strictly follow specified technical parameters for operation. The pipes or fittings shall be inserted directly instead of being rotated during heating.
3. There shall be a uniform fusing circle at the connection between pipes and fittings.
4. In case of any lack of skill, a line shall be marked at pipe insert point to confirm the depth, the manual insertion depth shall be strictly controlled to avoid any over insertion that causes blockage and negative influence to flow rate.
5. The pipes can be sealed and used only after pressure test and acceptance.

Technical parameter for fusing connection:

Pipe outer diameter (mm)	Fusing depth (mm)	Heating time (Second)	Inserting time (Second)	Cooling time (Second)
20	14	5	4	2
25	15	7	4	2
32	16,5	8	6	4
40	18	12	6	4
50	20	18	6	4
63	24	24	8	6
75	26	30	10	8
90	32	40	10	8
110	38,5	50	15	10
160	56	80	20	15

4. Fusing connection procedure



Property		Unit	Test Method	Value
Density	+23 °C	g/cm ³	ISO 1183	0,909
Melting Flow Rate	MFR 190/5	g/10 min	ISO 1133	0,55
	MFR 230/2,16	g/10 min	ISO 1133	0,30
	MFR 230/5	g/10 min	ISO 1133	1,20
Volume Flow Rate	MFR 230/2,16	cm ³ /10 min	ISO 1133	0,4
Tensile Strength	(50 mm/min)	MPa	ISO 527/1+2	25
Elongation Rate	(50 mm/min)	%	ISO 527/1+2	600
Shore D Rigidity	(3 sec value)		DIN 53505	65
Charpy notch (Resistance)	+23 °C	kJ/m ²	ISO 179/1eU	43
	0 °C	kJ/m ²	ISO 179/1eU	43
	-30 °C	kJ/m ²	ISO 179/1eU	43
Charpy Notch Impact Resistance	+23 °C	kJ/m ²	ISO 179/1eA	52
	0 °C	kJ/m ²	ISO 179/1eA	7
	-30 °C	kJ/m ²	ISO 179/1eA	2,5
Vicat Softening Point	VST/A/50	°C	ISO 306	132
	VST/B	°C	ISO 306	69
Melting Interval		°C	DSC	150-160
Linear Thermal Expansion Coefficient		1/K	DIN 53752	0,030
Thermal Conductivity		W/mK	DIN 52612	0,24
Surface Resistance		Ohm	DIN VDE 0303,T3	>1014

Standart Number TS EN ISO 15874-2

Standard Name Tests Plastic Piping Systems - For Hot and Cold Water - Polypropylene (PP) - Section : 2 Pipes

1- Mechanical Properties

Hydrostatic Tension (MPa)	Test Temperature (°C)	Test Duration (Hour)	Test Pressure (Bar)
16	20	1	65
4,3	95	22	18
3,8	95	165	15
3,5	95	1000	14

2- Physical and Chemical Properties

	Requirement	Parameter	Duration (Hour)
Dimensional Stability	<%2	135 °C	en8mm—1 8mm<en<16 mm—2 en>16mm—4
Thermal Stability with Hydrostatic Pressure Test	No bursting during the test.	110 °C - 1,9 MPa	8760 en≤8,6mm—1 8mm<
Impact Resistance	<%10	0 °C - 10 Parça	en≤14,1mm—2 en>14,1mm—4
MFI (Raw material)	≤10,5 gr / 10 dk	230 °C - 2,16 kg	
MFI (Pipe)	When compared with raw material, the measured difference should be max. 30%	230 °C - 2,16 kg	

PPR HOT/COLD WATER PIPES

Temperature (°C)	Service Life (Year)	Operation Pressure (Bar)
20	1	30,0
	5	28,1
	10	27,3
	25	26,5
	50	25,7
30	1	25,5
	5	23,9
	10	23,2
	25	22,3
	50	21,8
40	1	21,5
	5	20,2
	10	19,6
	25	18,8
	50	18,3
50	1	18,3
	5	17,0
	10	16,5
	25	15,9
	50	15,4
60	1	15,4
	5	14,3
	10	13,8
	25	13,3
	50	12,7
65	1	14,6
	5	13,6
	10	13,1
	25	12,6
	50	11,1
70	1	13,0
	5	11,9
	10	10,1
	25	8,8
	50	8,5



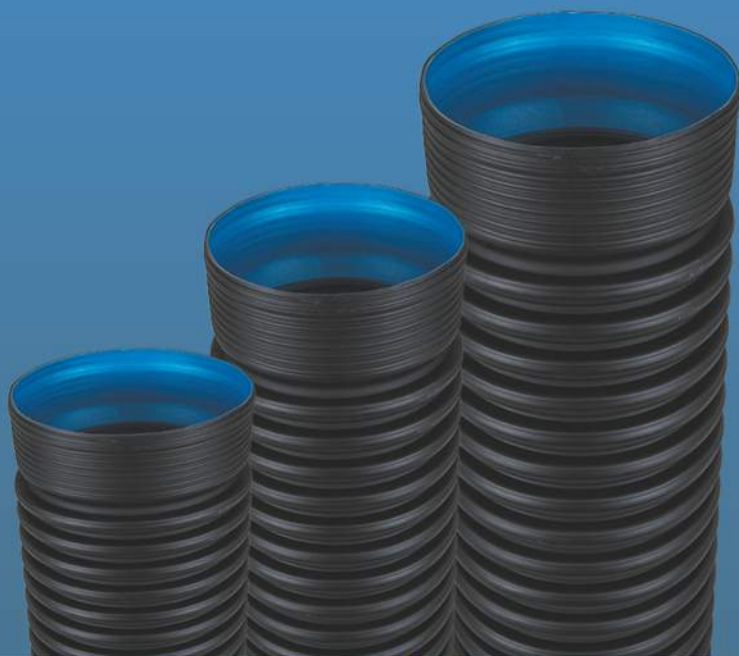
Pipe Diameter (Ø)	Load Capacity (lt/m)
20	0,137
25	0,216
32	0,353
40	0,556
50	0,876
63	1,385
75	1,963
90	2,827
110	4,231



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SN4



	CODE	Ød ₁
İŞİN	9210150150	150
İŞİN	9210200200	200
İŞİN	9210250250	250
İŞİN	9210300300	300
İŞİN	9210400400	400
İŞİN	9210500500	500
İŞİN	9210600600	600
İŞİN	9210800800	800

SN8



	CODE	Ød ₁
İŞİN	9211110110	110
İŞİN	9211150150	150
İŞİN	9211200200	200
İŞİN	9211250250	250
İŞİN	9211300300	300
İŞİN	9211400400	400
İŞİN	9211500500	500
İŞİN	9211600600	600
İŞİN	9211800800	800

SOCKET



	CODE	Ød ₁
İŞİN	9212110110	110
İŞİN	9212150150	150
İŞİN	9212200200	200
İŞİN	9212250250	250
İŞİN	9212300300	300
İŞİN	9212400400	400
İŞİN	9212500500	500
İŞİN	9212600600	600

REDUCER



	CODE	Ød ₁
İŞİN	9218150110	150*110
İŞİN	9218200110	200*110
İŞİN	9218200150	200*150
İŞİN	9218300110	300*110
İŞİN	9218300150	300*150
İŞİN	9218300200	300*200
İŞİN	9218400200	400*200
İŞİN	9218400300	400*300

ELBOW 45°



	CODE	Ød ₁
İŞİN	9213110110	110
İŞİN	9213150150	150
İŞİN	9213200200	200
İŞİN	9213300300	300
İŞİN	9213400400	400
İŞİN	9213500500	500
İŞİN	9213600600	600

ELBOW 87°



	CODE	Ød ₁
İŞİN	9214110100	110
İŞİN	9214150150	150
İŞİN	9214200200	200
İŞİN	9214300300	300
İŞİN	9214400400	400
İŞİN	9214500500	500
İŞİN	9214600600	600

TEE-BRANCH 87°



	CODE	Ød ₁
İŞİN	9216110110	110*110
İŞİN	9216150110	150*110
İŞİN	9216150150	150*150
İŞİN	9216200110	200*110
İŞİN	9216200150	200*150
İŞİN	9216200200	200*200
İŞİN	9216300110	300*110
İŞİN	9216300150	300*150
İŞİN	9216300200	300*200
İŞİN	9216300300	300*300

BRANCH 45°



	CODE	Ød ₁
İŞİN	9217110110	110*110
İŞİN	9217150110	150*110
İŞİN	9217150150	150*150
İŞİN	9217200200	200*200
İŞİN	9217200110	200*110
İŞİN	9217200150	200*150
İŞİN	9217300110	300*110
İŞİN	9217300150	300*150
İŞİN	9217300200	300*200
İŞİN	9217300300	300*300

PE CORRUGATED PIPES

BRANCH 45° PVC OUTPUT



	CODE	Ød ₁
İŞİN	9220110110	110*110
İŞİN	9220150110	150*110
İŞİN	9220150150	150*150
İŞİN	9220200110	200*110
İŞİN	9220200150	200*150
İŞİN	9220200200	200*200
İŞİN	9220300110	300*110
İŞİN	9220300150	300*150
İŞİN	9220300200	300*200

	CODE	Ød ₁
İŞİN	9225110110	110
İŞİN	9225150150	150
İŞİN	9225200200	200
İŞİN	9225250250	250
İŞİN	9225300300	300
İŞİN	9225400400	400
İŞİN	9225500500	500
İŞİN	9225600600	600
İŞİN	9225800800	800

GASKET



END PLUG



	CODE	Ød ₁
İŞİN	9215110110	110
İŞİN	9215150150	150
İŞİN	9215200200	200
İŞİN	9215300300	300
İŞİN	9215400400	400
İŞİN	9215500500	500



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