



AN ISO 9001:2015 & ISO 14001:2015
CERTIFIED COMPANY

www.kptpipes.com

pneumato™
PNEUMATIC PIPES & FITTINGS



PP-GF Pneumatic and compressed Air Piping Systems

With a service life of atleast 50 years once installed, tight and safe.

Pioneers in India to have PPR-C Range from 16mm to 400mm



PNEUMATIC AIR AND COMPRESSED AIR PLUMBING PIPING SYSTEM

KPT Pneumato Pipes combine the advantages of FRP and plastic pipes and eliminate the disadvantages of both materials at the same time. The FRP is absolutely diffusion tight and reliably prevents oxygen or gases from permeating into the pipe. It compensates and reduces snap-back forces and heat expansion with changes in temperature. KPT Pneumato pipes are being produced with latest German technology at its state of the art manufacturing unit at Dehradun, Uttarakhand, India. KPT Pneumato pipes has been specially designed for the creation of primary and secondary network for compressed air, neutral gases & Vacuum. The FRP allows KPT Pneumato Pipes to withstand high working pressure and prevent oxygen and gases from permeating into the pipe. KPT Pneumato pipes are safe and reliable choice for compressed air, gas and oxygen supply.

KPT Pneumato Pipes consist of an overlapped FRP with an inner and outer layer of Polypropylene Random Copolymer (PPR-C). All the layers are permanently bonded together by intermediate adhesive layers. The FRP thickness of KPT Pneumato pipes has been selected to meet compressive and flexural strength requirements. Most of the industries are now slowly moving away from MS/GI piping system for compressed air transportation owing to following problems:

Reinforcement Glass Fiber - The Sandwich Glass Reinforcement technology processed on Pneumato enables to withstand more pressure even in high temperature. Since Glass is non-conductor of heat, so there is lesser thermal expansion, this reduces sagging.

U.V. Resistant - New Pneumato technology being developed with carbon content blue layer which protects the pipes from UV rays in open sky.

Glass Insulation - Glass acts as non-conductor of heat. So the Sandwich Glass Reinforcement technology reduces the condensation, thus reduces the chances of moisture in Pneumato technology getting least.

Leaking zero - in fusion welded joints.

Rusting - Water condensation in compressed air system leads to rust formation even in joint areas of GI pipe welding, affecting costlier pneumatic equipments.

Installation Time - Threaded joints consume more time in existing repair work as well as in new projects where as fusion joints once conducted require no maintainence.

Pressure Drop - Rough inner surface in the above pipes leads to slight increase in pressure drop.

Cost - Aluminium/MS/GI piping systems are conventionally more expensive.

Atmospheric effects - Aluminium also reacts with most of the chemicals. If some chemicals are present in compressed air, that can equally effect aluminium pipes. Often aluminium pipes are available at the maximum size of 110mm only. Most of the fittings are in plastics material. These areas are then rendered mechanically weaker in the line.



ADVANTAGES OF PNEUMATO PIPES

1. Very less heat loss due to lesser thermal conductivity.
2. Lesser sagging because of very less thermal expansion.
3. High temperature and high pressure with stand capacity due to inbuilt GFR reinforcement layer.
4. Since having 0.1micron RA value and mirror finish inner surface, 40% to 60% lesser friction compared to other pipe.
5. Reduced thermal expansion will reduce clamping.
6. Style fittings offer a tight, leak free fit.
7. As a result of socket Fusion joint, 0% leakage.
8. 60% layer of glass fiber reinforcement in the pipe.
9. Excellent performance with long life in direct sunlight having UV resistant on the upper layer.
10. Reduced linear expansion coefficient, only 1/3 of that of normal PP-R
11. Higher strength and stability of dimension. It can stand 25% more pressure than PP-R at the same condition
12. Improved resistant to impulse under low temperature. It can used in 90 ° for a long time
13. With the same condition of pressure, wall thickness of PPR fiberglass pipe is thinner, increasing inner diameter of the pipe, bigger of the air flow.
14. Direct connect with water table within the health of non-toxic, good scalability, no formation of sphagnum.

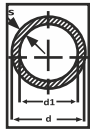
Technical Data of K.P.T. Pneumato Pipes:

S.No.	PROPERTY	(KPT-GF) PIPE
1	Thermal Conductivity	0.024
2	Coefficient Linear Thermal Expansion	1.0×10^{-4}
3	Flexural Modulus	1260
4	Tensile Strength at break	45
5	Melting Temperature Rate	160-165
6	Vicat Softening Temperature	145.3



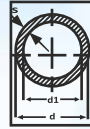
KPT Pneumato Pipe
SDR 11/ S 5/ PN 10

Pipe		Diameter	Wall Thickness	Internal Diameter	Air Content
Dimension	Packing Unit	d(mm)	S(mm)	di(mm)	litre/mtr
20mm	240m	20	1.9	16.2	0.206
25mm	180m	25	2.3	20.4	0.327
32mm	120m	32	2.9	26.2	0.539
40mm	75m	40	3.7	32.6	0.834
50mm	45m	50	4.6	40.8	1.307
63mm	30m	63	5.8	51.4	2.074
75mm	21m	75	6.8	61.4	2.959
90mm	15m	90	8.2	73.6	4.252
110mm	12m	110	10.0	90.0	6.359
125mm	9m	125	11.4	102.2	8.199
160mm	6m	160	14.6	130.8	13.430
200mm	3m	200	18.2	163.6	21.010
250mm	3m	250	22.7	204.6	32.861
315mm	3m	315	28.6	257.8	52.172
355mm	3m	355	32.2	290.6	66.292
400mm	3m	400	36.3	327.4	84.145



KPT Pneumato Pipe
SDR 6/ S 2.5/ PN 20

Pipe		Diameter	Wall Thickness	Internal Diameter	Air Content
Dimension	Packing Unit	d(mm)	S(mm)	di(mm)	litre/mtr
16mm	240m	16	2.7	10.6	0.088
20mm	210m	20	3.4	13.2	0.137
25mm	150m	25	4.2	16.6	0.216
32mm	105m	32	5.4	21.2	0.353
40mm	60m	40	6.7	26.6	0.555
50mm	36m	50	8.3	33.4	0.876
63mm	24m	63	10.5	42.0	1.385
75mm	21m	75	12.5	50.0	1.963
90mm	12m	90	15.0	60.0	2.826
110mm	9m	110	18.3	73.4	4.229
125mm	6m	125	20.8	83.4	5.460
160mm	3m	160	26.6	106.8	8.954



KPT Pneumato Pipe
SDR 7.4/ S 3.2/ PN 16

Pipe		Diameter	Wall Thickness	Internal Diameter	Air Content
Dimension	Packing Unit	d(mm)	S(mm)	di(mm)	litre/mtr
16mm	300m	16	2.2	11.6	0.106
20mm	240m	20	2.8	14.4	0.163
25mm	180m	25	3.5	18.0	0.254
32mm	120m	32	4.4	23.2	0.423
40mm	75m	40	5.5	29.0	0.660
50mm	45m	50	6.9	36.2	1.029
63mm	30m	63	8.6	45.8	1.647
75mm	21m	75	10.3	54.4	2.323
90mm	15m	90	12.3	65.4	3.358
110mm	9m	110	15.1	79.8	4.999
125mm	9m	125	17.1	90.8	6.472
160mm	6m	160	21.9	116.2	10.599
200mm	3m	200	27.4	145.2	16.550
250mm	3m	250	34.2	181.6	25.888
315mm	3m	315	43.4	228.2	40.879
355mm	3m	355	49.0	257	51.848
400mm	3m	400	55.2	289.6	65.837



KPT Pneumato Pipe
SDR 12.5/ S 4/ PN 12.5

Pipe		Diameter	Wall Thickness	Internal Diameter	Air Content
Dimension	Packing Unit	d(mm)	S(mm)	di(mm)	litre/mtr
20mm	240m	20	2.2	15.6	0.190
25mm	180m	25	2.8	19.4	0.297
32mm	120m	32	3.6	24.9	0.486
40mm	75m	40	4.4	31.1	0.760
50mm	45m	50	5.6	38.9	1.187
63mm	30m	63	7.0	49.0	1.885
75mm	21m	75	8.3	58.3	2.671
90mm	15m	90	10.0	70.0	3.847
110mm	12m	110	12.2	85.6	5.746
125mm	9m	125	13.9	97.2	7.420
160mm	6m	160	17.8	124.4	12.157
200mm	3m	200	22.2	155.6	18.995
250mm	3m	250	27.8	194.4	29.680
315mm	3m	315	35.0	245.0	47.120
355mm	3m	355	39.4	276.1	59.846
400mm	3m	400	44.4	311.0	75.980

PERMISSIBLE WORKING PRESSURE

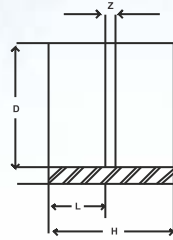
The below table list is the allowable working pressure for pipes with different pressure class under specific temperature and work life. Under normal work pressure and conditions, the life of KPT PPR Piping system is guaranteed to be 50 years at least.

Temperature in C	Years of Service	Allowable working pressure, in bar for			
		PN-10 (SDR 11)	PN-12.5 (SDR 9)	PN-16 (SDR 7.4)	PN-20 (SDR 6)
10°C	1	20.5	28.8	34.8	43.8
	5	19.1	27.8	33.0	41.5
	10	18.5	27.5	31.9	40.1
	25	17.8	27.0	30.9	38.9
	50	17.3	26.6	30.0	37.9
20°C	1	18.8	25.1	29.8	37.5
	5	17.6	24.2	27.9	35.1
	10	17.1	23.9	27.1	34.1
	25	16.6	23.5	26.4	33.1
	50	16.1	23.2	25.5	32.1
30°C	1	16.0	21.7	25.3	31.9
	5	15.0	20.9	23.8	29.9
	10	14.5	20.6	22.9	28.9
	25	14.0	20.3	22.1	27.9
	50	13.6	19.9	21.6	27.3
40°C	1	13.5	18.6	21.4	26.9
	5	12.6	18.0	20.0	25.3
	10	12.3	17.6	19.5	24.5
	25	11.8	17.3	18.8	23.5
	50	11.5	17.0	18.1	22.9
50°C	1	11.4	16.0	18.0	22.8
	5	10.6	15.4	16.9	21.3
	10	10.3	15.1	16.4	20.6
	25	10.0	14.8	15.8	19.9
	50	9.6	14.5	15.3	19.3

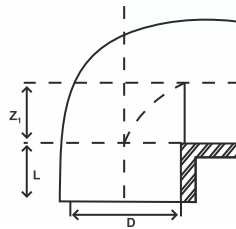
Temperature in C	Years of Service	Allowable working pressure, in bar for			
		PN-10 (SDR 11)	PN-12.5 (SDR 9)	PN-16 (SDR 7.4)	PN-20 (SDR 6)
60°C	1	9.5	13.4	15.1	19.1
	5	9.0	13.0	14.3	17.9
	10	8.6	12.7	13.8	17.3
	25	8.4	12.5	13.1	16.6
	50	8.0	12.2	12.6	15.6
70°C	1	8.1	11.3	12.9	16.3
	5	7.5	10.9	11.9	14.9
	10	7.4	10.7	11.6	14.6
	25	6.4	9.1	10.0	12.6
	50	5.4	7.6	8.4	10.6
80°C	1	6.9	9.5	10.8	13.6
	5	6.0	9.0	9.5	12.0
	10	5.0	7.4	7.9	10.0
	25	4.0	6.0	6.4	8.0
95°C	1	4.9	7.1	7.6	9.6
	5	3.1	4.6	5.0	6.3
	10	2.6	3.7	4.3	5.3
110°C	1	2.9	3.7	5.0	5.6
	5	2.0	2.6	3.0	3.5

The bracketed values apply where testing can be shown to have been carried out for longer than one year at 120°C.

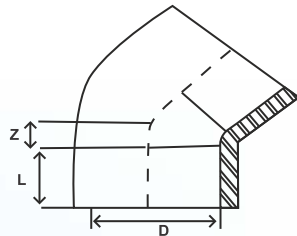
COUPLING★



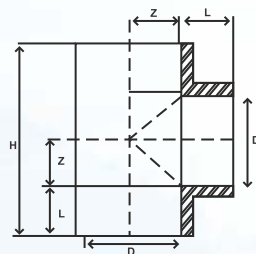
ELBOW 90°★



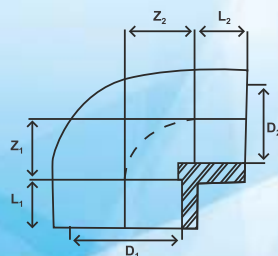
ELBOW 45°★



EQUAL TEE★



REDUCING ELBOW★



CODE	SIZE	D	L	Z	H
KPT C-0501	16 MM	15.4	16	1.6	33.6
KPT C-0502	20 MM	19.2	14.5	3.9	32.9
KPT C-0503	25 MM	24.1	18.0	2.6	38.6
KPT C-0504	32 MM	31.0	18.4	3.0	39.8
KPT C-0505	40 MM	38.9	20.7	3.4	44.8
KPT C-0506	50 MM	48.0	24.4	3.1	51.9
KPT C-0507	63 MM	60.7	28.2	8.2	64.6
KPT C-0508	75 MM	71.9	31.5	4.0	67.0
KPT C-0509	90 MM	86.4	32.5	6.1	71.1
KPT C-0510	110 MM	106.8	38.8	3.0	80.6
KPT C-0511	125 MM	122.0	44.0	8.7	96.7
KPT C-0512	160 MM	153.0	42.5	5.4	90.4

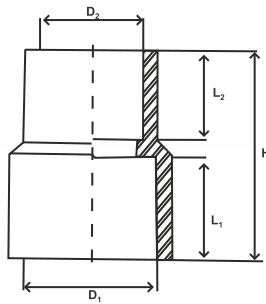
CODE	SIZE	D	L	Z	H
KPT E90-0513	16 MM	15.5	14.4	8.5	34.3
KPT E90-0514	20 MM	19.1	15.5	10.9	40.0
KPT E90-0515	25 MM	24.2	16.9	14.1	47.4
KPT E90-0516	32 MM	31.1	18.0	16.4	54.2
KPT E90-0517	40 MM	39.5	20.0	20.0	66.2
KPT E90-0518	50 MM	48.4	23.8	26.2	80.3
KPT E90-0519	63 MM	60.5	27.4	32.2	98.2
KPT E90-0520	75 MM	72.6	31.5	38.0	115.4
KPT E90-0521	90 MM	86.8	33.0	44.7	130.6
KPT E90-0522	110 MM	106.5	39.0	54.8	160.6
KPT E90-0523	125MM	123.6	43.0	71.0	150.0
KPT E90-0524	160 MM	153.6	45.0	78.7	220.8
KPT E90-0525	200MM	...	...	...	...
KPT E90-0526	250MM	...	...	...	...
KPT E90-0527	315MM	...	...	...	...
KPT E90-0528	355MM	...	...	...	...
KPT E90-0529	400MM	...	...	...	...

CODE	SIZE	D	L	Z
KPT E45-0530	20 MM	19.3	15.5	6.0
KPT E45-0531	25 MM	23.7	17.6	7.0
KPT E45-0532	32 MM	30.6	16.5	8.0
KPT E45-0533	40 MM	38.2	21.3	9.0
KPT E45-0534	50 MM	47.7	22.5	12.0
KPT E45-0535	63 MM	60.0	26.0	13.0
KPT E45-0536	75 MM	72.5	26.7	20.0
KPT E45-0537	90 MM	86.8	34.5	32.0
KPT E45-0538	110 MM	106.2	35.3	40.0
KPT E45-0539	125 MM	...	...	...
KPT E45-0540	160 MM	154.9	48.2	50.0
KPT E45-0541	200 MM	...	...	...
KPT E45-0542	250 MM	...	...	...
KPT E45-0543	315 MM	...	...	...
KPT E45-0544	355 MM	...	...	...
KPT E45-0545	400 MM	...	...	...

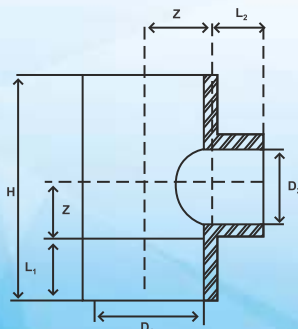
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KPT ET-0546	16MM	15.3	14.6	8.9	46.9
KPT ET-0547	20 MM	19.3	15.8	10.5	52.6
KPT ET-0548	25 MM	24.2	18.0	12.7	61.4
KPT ET-0549	32 MM	31.4	20.2	16.1	72.5
KPT ET-0550	40 MM	39.0	20.3	20.9	82.4
KPT ET-0551	50 MM	48.6	24.4	24.5	97.8
KPT ET-0552	63 MM	61.7	27.4	32.6	120.0
KPT ET-0553	75 MM	72.2	31.3	36.7	136.0
KPT ET-0554	90 MM	86.9	32.9	47.1	160.0
KPT ET-0555	110 MM	106.7	38.8	55.3	188.2
KPT ET-0556	125 MM	122.2	42.2	101.3	287.0
KPT ET-0557	160 MM	153.7	45.0	85.0	260.0
KPT ET-0558	200MM	...	...	...	...
KPT ET-0559	250MM	...	...	...	...
KPT ET-0560	315MM	...	...	...	...
KPT ET-0561	355MM	...	...	...	...
KPT ET-0562	400MM	...	...	...	...

CODE	SIZE	D1	D2	L1	L2	Z1	Z2
KPT RE-0903	25/20	24.0	19.2	18.5	16.0	17.8	14.4
KPT RE-0904	32/20	31.3	19.2	21.1	16.0	18.3	18.0
KPT RE-0905	32/25	31.3	24.2	20.0	17.8	22.2	20.7
KPT RE-0906	40/20	38.7	19.2	21.6	16.3	19.6	24.2
KPT RE-0907	40/25	38.7	24.2	21.6	17.8	21.4	20.7
KPT RE-0908	40/32	38.6	31.2	21.9	19.8	24.2	25.3

REDUCER★



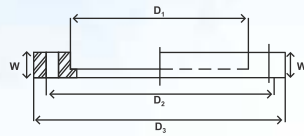
REDUCING TEE★



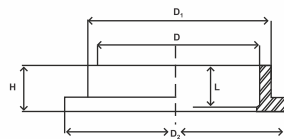
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KPT R-0563	25/20	24.0	19.2	18.5	15.7	38.1
KPT R-0564	32/20	31.3	19.2	20.0	15.7	39.3
KPT R-0565	32/25	31.4	24.4	21.0	18.4	41.7
KPT R-0566	40/20	38.7	19.3	22.9	16.9	48.0
KPT R-0567	40/25	39.0	24.2	24.2	18.0	48.5
KPT R-0568	40/32	38.6	31.0	21.1	18.8	44.9
KPT R-0569	50/20	48.0	18.8	24.6	16.6	44.5
KPT R-0570	50/25	48.0	23.8	24.5	16.2	45.6
KPT R-0571	50/32	48.0	31.1	24.4	18.0	48.1
KPT R-0572	50/40	48.2	38.8	24.3	20.9	48.2
KPT R-0573	63/20	60.9	19.2	28.2	15.9	48.3
KPT R-0574	63/25	60.7	24.1	28.2	18.0	49.5
KPT R-0575	63/32	60.6	30.7	28.0	18.0	48.0
KPT R-0576	63/40	60.8	38.3	25.3	25.5	56.8
KPT R-0577	63/50	60.9	48.2	29.2	25.8	64.8
KPT R-0578	75/20	72.5	19.0	42.7	21.1	63.8
KPT R-0579	75/25	72.5	24.3	42.7	21.1	63.8
KPT R-0580	75/32	72.5	31.0	42.7	21.1	63.8
KPT R-0581	75/40	72.2	38.7	31.6	22.5	63.6
KPT R-0582	75/50	72.1	48.4	31.7	27.0	63.2
KPT R-0583	75/63	71.8	60.9	31.4	30.0	67.0
KPT R-0584	90/20	87.3	19.0	43.5	27.0	70.5
KPT R-0585	90/25	87.3	24.1	43.5	27.0	70.5
KPT R-0586	90/32	87.3	31.0	42.5	27.0	70.5
KPT R-0587	90/40	87.3	38.9	42.5	27.0	70.5
KPT R-0588	90/50	86.5	48.1	33.0	26.3	70.0
KPT R-0589	90/63	86.6	60.9	32.8	29.9	68.8
KPT R-0590	90/75	86.7	72.7	37.2	31.5	71.7
KPT R-0591	110/20	106.8	19.0	58.1	19.5	76.0
KPT R-0592	110/25	106.8	24.0	53.3	19.2	76.0
KPT R-0593	110/32	106.8	31.0	57.6	19.5	76.0
KPT R-0594	110/40	106.8	39.0	56.6	19.3	76.0
KPT R-0595	110/50	106.8	48.4	38.9	26.0	76.0
KPT R-0596	110/63	106.8	61.2	38.9	30.1	76.0
KPT R-0597	110/75	106.8	72.6	38.9	31.8	76.0
KPT R-0598	110/90	106.8	86.6	38.9	33.0	76.0
KPT R-0599	125/110	122.2	104.3	43.0	40.0	96.0
KPT R-0600	160/20	155.3	18.9	61.8	29.5	91.2
KPT R-0601	160/25	155.3	23.9	61.8	29.5	91.2
KPT R-0602	160/32	155.3	30.6	61.8	29.5	91.2
KPT R-0603	160/40	155.3	38.7	61.8	29.5	91.2
KPT R-0604	160/50	155.3	48.5	61.8	29.5	91.2
KPT R-0605	160/63	155.3	61.8	61.8	29.5	91.2
KPT R-0606	160/75	155.3	73.5	61.8	29.5	91.2
KPT R-0607	160/90	155.3	86.6	61.8	29.5	91.2
KPT R-0608	160/110	155.3	106.3	61.8	29.5	91.2
KPT R-0609	160/125	157.3	122.1	43.0	40.0	92.1

CODE	SIZE	D1	D2	L1	L2	Z	H
KPT RT-0610	25/20/25	24.2	19.1	17.6	16.2	10.8	56.8
KPT RT-0611	32/20/32	31.1	19.1	19.8	16.5	11.3	62.2
KPT RT-0612	32/25/32	31.4	24.2	20.0	17.8	13.4	66.8
KPT RT-0613	40/20/40	39.0	19.1	21.4	16.5	11.1	65.0
KPT RT-0614	40/25/40	38.8	24.2	21.4	17.6	13.5	69.8
KPT RT-0615	40/32/40	38.8	31.0	21.4	19.5	16.8	76.4
KPT RT-0616	50/20/50	48.4	19.1	24.4	18.1	24.5	97.7
KPT RT-0617	50/25/50	48.6	24.1	24.3	17.9	24.7	98.0
KPT RT-0618	50/32/50	48.6	30.5	24.3	18.8	24.6	97.8
KPT RT-0619	50/40/50	48.6	38.7	22.4	22.0	26.1	96.9
KPT RT-0620	63/20/63	61.2	19.0	27.5	16.2	32.2	119.4
KPT RT-0621	63/25/63	61.3	23.8	27.5	19.4	32.2	119.4
KPT RT-0622	63/32/63	61.3	30.8	27.5	19.3	32.2	119.4
KPT RT-0623	63/40/63	61.3	38.9	27.3	22.5	32.4	119.4
KPT RT-0624	63/50/63	61.2	48.0	27.4	25.8	32.3	119.4
KPT RT-0625	75/20/75	72.5	19.0	31.4	15.9	26.4	115.5
KPT RT-0626	75/25/75	72.5	24.0	31.4	17.6	26.4	115.5
KPT RT-0627	75/32/75	72.5	30.9	31.4	19.7	26.4	115.5
KPT RT-0628	75/40/75	72.3	38.4	31.4	20.3	26.4	115.5
KPT RT-0629	75/50/75	72.3	47.9	31.4	29.8	26.4	115.5
KPT RT-0630	75/63/75	72.2	60.2	31.4	29.8	26.4	115.5
KPT RT-0631	90/20/90	86.5	19.0	32.8	15.6	31.3	128.1
KPT RT-0632	90/25/90	86.5	24.0	32.8	17.6	31.3	128.1
KPT RT-0633	90/32/90	86.5	31.0	32.8	19.5	31.3	128.1
KPT RT-0634	90/40/90	86.5	38.6	32.8	21.2	31.3	128.1
KPT RT-0635	90/50/90	86.5	48.1	32.8	26.0	31.3	128.1
KPT RT-0636	90/63/90	86.5	61.2	32.8	30.1	31.3	128.1
KPT RT-0637	90/75/90	86.5	72.4	32.9	31.7	46.9	159.5
KPT RT-0638	110/20/110	106.5	19.0	38.7	15.8	38.5	154.3
KPT RT-0639	110/25/110	106.5	24.2	38.7	17.7	38.5	154.3
KPT RT-0640	110/32/110	106.5	31.0	38.7	19.7	38.5	154.3
KPT RT-0641	110/40/110	106.5	38.9	38.7	21.5	38.5	154.3
KPT RT-0642	110/50/110	106.5	48.6	38.9	26.2	38.3	154.3
KPT RT-0643	110/63/110	106.7	61.3	39.0	30.2	38.2	154.3
KPT RT-0644	110/75/110	106.4	72.5	39.0	32.0	38.2	154.3
KPT RT-0645	110/90/110	106.7	87.1	38.9	33.0	54.8	187.4
KPT RT-0646	125/110/125	122.5	107.5	44.0	44.0	64.0	216.0
KPT RT-0647	160/20/160	155.4	19.0	45.0	15.8	80.9	251.8
KPT RT-0648	160/25/160	155.4	23.8	45.0	18.5	80.9	251.8
KPT RT-0649	160/32/160	155.4	31.0	45.0	19.5	80.9	251.8
KPT RT-0650	160/40/160	155.4	38.9	45.0	21.5	80.9	251.8
KPT RT-0651	160/50/160	155.4	48.8	45.0	25.4	80.9	251.8
KPT RT-0652	160/63/160	157.5	61.9	45.0	27.6	80.9	251.8
KPT RT-0653	160/75/160	157.5	73.9	45.0	32.1	80.9	251.8
KPT RT-0654	160/90/160	157.5	88.5	45.0	33.0	80.9	251.8
KPT RT-0655	160/110/160	157.5	107.4	45.0	44.9	80.9	251.8
KPT RT-0656	200/90/200	...	...	...	...	...	...
KPT RT-0657	200/110/200	...	...	...	...	...	...
KPT RT-0658	200/125/200	...	...	...	...	...	...
KPT RT-0659	200/160/200	...	...	...	...	...	...
KPT RT-0660	250/90/250	...	...	...	...	...	...
KPT RT-0661	250/110/250	...	...	...	...	...	...
KPT RT-0662	250/125/250	...	...	...	...	...	...
KPT RT-0663	250/160/250	...	...	...	...	...	...
KPT RT-0664	250/200/250	...	...	...	...	...	...
KPT RT-0665	315/160/315	...	...	...	...	...	...
KPT RT-0666	315/200/315	...	...	...	...	...	...
KPT RT-0667	315/250/315	...	...	...	...	...	...
KPT RT-0668	355/160/355	...	...	...	...	...	...
KPT RT-0669	355/200/355	...	...	...	...	...	...
KPT RT-0670	355/250/355	...	...	...	...	...	...
KPT RT-0671	355/315/355	...	...	...	...	...	...
KPT RT-0672	400/160/400	...	...	...	...	...	...
KPT RT-0673	400/200/400	...	...	...	...	...	...
KPT RT-0674	400/250/400	...	...	...	...	...	...
KPT RT-0675	400/315/400	...	...	...	...	...	...
KPT RT-0676	400/355/400	...	...	...	...	...	...

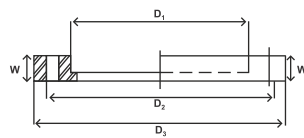
SLIP ON (PPR C STEEL INLAY FLANGE)



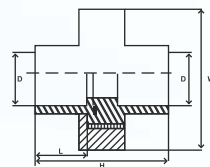
FLANGE CORE(STUB END)★



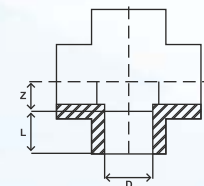
SLIP-ON (PPR FLANGES)★



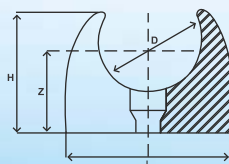
PLAIN UNION



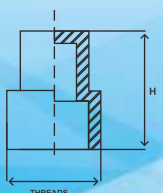
4WAY/CROSS TEE★



PIPE CLAMP★



LONG PLUG★



CODE	SIZE	PCD	MS Flange Wall thickness	(PPR +MS) Wall thickness	Flange OD.	Flange ID.	No. of Hole	Bolt Dia
KPT SIF-0716	20 MM	73.0	4.8	16.9	113.4	32.0	4	12.7
KPT SIF-0717	25 MM	82.6	4.8	17.0	126.2	37.1	4	12.7
KPT SIF-0718	32 MM	87.6	6.4	16.7	136.0	44.4	4	12.7
KPT SIF-0719	40 MM	98.4	6.4	17.8	149.7	51.2	4	12.7
KPT SIF-0720	50 MM	114.3	7.9	20.7	170.8	63.2	4	15.9
KPT SIF-0721	63 MM	127.0	9.5	20.7	183.5	82.6	4	15.9
KPT SIF-0722	75 MM	146.1	9.5	21.6	204.9	98.3	4	15.9
KPT SIF-0723	90 MM	165.1	9.5	23.6	222.7	114.8	4	15.9
KPT SIF-0724	110 MM	177.8	9.5	25.6	235.6	136.9	4	15.9
KPT SIF-0725	125 MM	209.6	12.7	28.5	273.7	160.1	8	15.9
KPT SIF-0726	160 MM	260.4	12.7	25.0	345.0	196.0	8	15.9
KPT SIF-0727	200 MM	292.1	12.7	26.0	366.0	218.0	8	15.9
KPT SIF-0728	250 MM	355.6	19.1	27.8	430.0	272.0	8	15.9
KPT SIF-0729	315 MM	406.4	19.1	30.0	492.0	320.0	12	19.1

CODE	SIZE	D	D1	D2	L	H
KPT FC-0689	20 MM	19.2	29.9	44.6	20.7	24.2
KPT FC-0690	25 MM	24.1	33.9	49.7	20.0	24.0
KPT FC-0691	32 MM	31.1	42.9	50.5	19.9	23.3
KPT FC-0692	40 MM	31.1	49.6	60.2	20.3	25.8
KPT FC-0693	50 MM	48.1	62.6	72.3	22.2	27.2
KPT FC-0694	63 MM	61.0	80.7	95.0	20.9	35.4
KPT FC-0695	75 MM	72.6	95.0	111.3	31.9	39.0
KPT FC-0696	90 MM	87.1	111.8	129.4	24.2	42.1
KPT FC-0697	110 MM	106.8	133.3	151.0	25.4	43.3
KPT FC-0698	125 MM	123.8	157.6	179.8	43.4	68.0
KPT FC-0699	160 MM	155.0	194.4	214.0	31.0	52.8
KPT FC-0700	200MM	166.1	211.0	251.5	54.8	80.3
KPT FC-0701	250MM	213.8	261.4	312.0	80.5	84.4
KPT FC-0702	315MM	253.5	315.0	380.0	71.0	94.0
KPT FC-0703	355MM	300.0	355.0	427.0	63.8	119.0
KPT FC-0704	400MM	352.0	400.0	477.0	70.0	117.0

CODE	SIZE	D1	D2	D3	W
KPT F-0705	20 MM	31.5	67.6	112	17.7
KPT F-0706	25 MM	36.8	73.2	112	17.8
KPT F-0707	32 MM	43.6	97.0	115.7	20.6
KPT F-0708	40 MM	50.0	109.0	128.0	21.6
KPT F-0709	50 MM	62.5	122.0	140.7	22.5
KPT F-0710	63 MM	83.0	141.4	157.4	24.3
KPT F-0711	75 MM	97.0	175.3	172.3	26.2
KPT F-0712	90 MM	113.7	178.3	194.8	26.4
KPT F-0713	110 MM	135.7	197.9	216.0	30.6
KPT F-0714	125 MM	157.0	208.0	257.0	33.2
KPT F-0715	160 MM	195.8	266.0	292.0	35.5

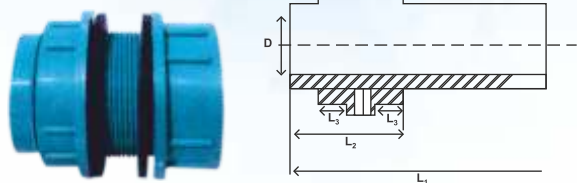
CODE	SIZE	D	L	W	H
KPT U-0730	20 MM	19.2	17.7	52.2	44.4
KPT U-0731	25 MM	24.2	18.6	51.4	55.2
KPT U-0732	32 MM	31.2	22.1	61.5	67.5
KPT U-0733	40 MM	39.2	29.2	79.0	79.9
KPT U-0734	50 MM	47.7	23.6	78.0	96.1
KPT U-0735	63 MM	60.7	27.7	89.0	107.6

CODE	SIZE	D	L	Z
KPT CT-0736	20 MM	18.8	15.5	15.4
KPT CT-0737	25 MM	24.1	17.1	24.9
KPT CT-0738	32 MM	30.6	17.8	32.2
KPT CT-0739	40 MM	38.0	20.8	39.2
KPT CT-0740	50 MM	48.0	21.3	52.2
KPT CT-0741	63 MM	60.7	23.3	63.6

CODE	SIZE	D	L	Z	H
KPT PC-0742	16 MM	15.2	23.0	14.1	26.0
KPT PC-0743	20 MM	18.9	27.0	19.2	31.0
KPT PC-0744	25 MM	24.0	32.0	21.0	36.0
KPT PC-0745	32 MM	30.7	39.5	27.5	43.5
KPT PC-0746	40 MM	39.1	48.3	30.9	49.8
KPT PC-0747	50 MM	50.0	60.0	37.3	61.5
KPT PC-0748	63 MM	63.0	74.7	45.0	75.3

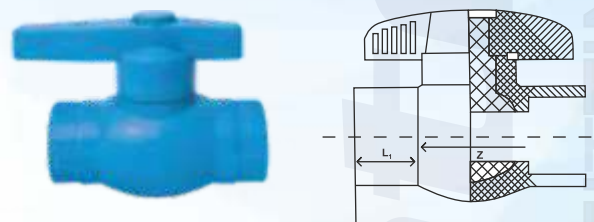
CODE	SIZE	THREADS	H
KPT LP-0749	1/2"	1/2"	69.7
KPT LP-0750	3/4"	3/4"	62.2
KPT LP-0751	1"	1"	73.6

TANK CONNECTOR



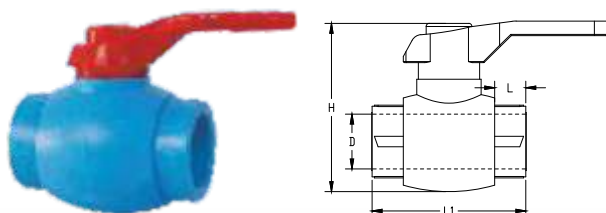
CODE	SIZE	D	L1	L2	L3
KPT TC-0752	20 MM	19.2	69.0	43.6	15.2
KPT TC-0753	25 MM	24.1	69.0	52.5	19.5
KPT TC-0754	32 MM	30.6	74.3	54.5	21.5
KPT TC-0755	40 MM	38.4	88.4	55.3	25.6
KPT TC-0756	50 MM	48.3	96.7	58.4	24.6
KPT TC-0757	63 MM	60.7	101.5	65.5	27.0

BALL VALVE PLASTIC (FOR COLD WATER)



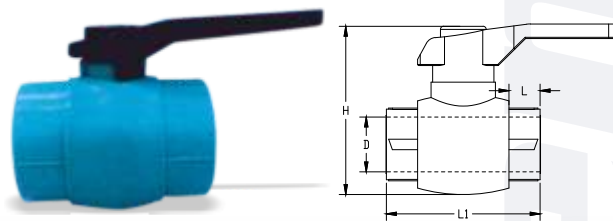
CODE	SIZE	D1	D2	L	Z	H
KPT PBV-0758	20 MM	19.10	19.35	16.15	41.35	64.25
KPT PBV-0759	25 MM	23.80	24.30	18.00	41.20	72.70
KPT PBV-0760	32 MM	30.85	31.20	19.90	46.90	82.65
KPT PBV-0761	40 MM	38.25	38.95	25.38	52.44	97.25

BALL VALVE PLASTIC (FOR COLD WATER)



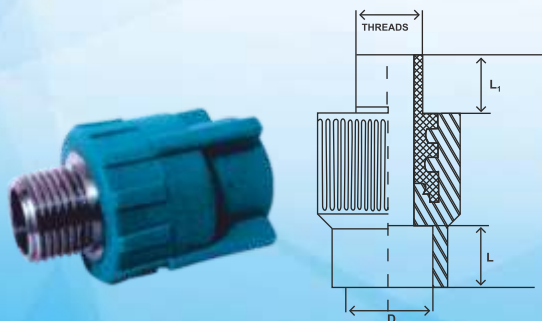
CODE	SIZE	D	L1	L	H
KPT PBV-0762	50 MM	48.8	125.0	33.0	122.0
KPT PBV-0763	63 MM	62.1	147.0	38.0	138.0

BRASS BALL VALVE (FOR HOT WATER)



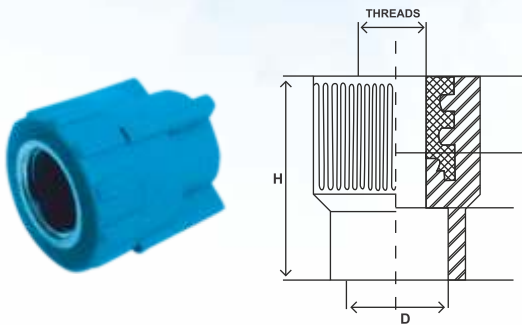
CODE	SIZE	D1	D2	L	Z	H
KPT BBV-0764	20 MM	18.90	19.35	20.90	26.50	70.55
KPT BBV-0765	25 MM	23.80	24.25	20.50	33.15	76.90
KPT BBV-0766	32 MM	30.80	31.10	24.00	37.65	86.70
KPT BBV-0767	40 MM	38.80	38.98	21.38	60.89	98.35
KPT BBV-0768	50 MM	48.90	49.10	22.80	68.20	122.25
KPT BBV-0769	63 MM	61.68	61.85	26.25	78.00	133.25

MALE THREADED COUPLING



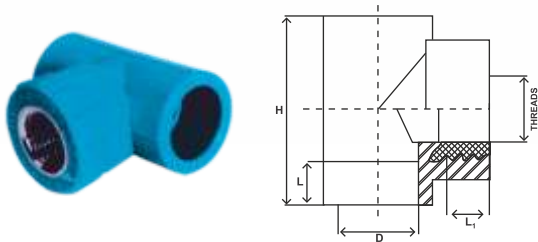
CODE	SIZE	THREADS	D	L	L1	H
KPT MTC-0779	16*1/2	1/2"	15.7	17.0	13.9	57.3
KPT MTC-0780	20*1/2	1/2"	19.2	16.2	14.2	57.0
KPT MTC-0781	25*1/2	1/2"	23.8	18.3	14.2	56.0
KPT MTC-0782	25*3/4	3/4"	24.1	18.2	14.1	59.1
KPT MTC-0783	32*1/2	1/2"	31.1	19.8	14.0	64.5
KPT MTC-0784	32*3/4	3/4"	31.1	20.3	14.2	67.8
KPT MTC-0785	32*1	1"	31.1	20.2	28.0	71.8
KPT MTC-0786	40*1	1"	38.7	21.6	28.0	76.0
KPT MTC-0787	40*1-1/4	1 1/4"	38.8	22.1	14.1	76.0
KPT MTC-0788	50*1-1/2	1 1/2"	48.9	25.5	21.3	80.0
KPT MTC-0789	63*2	2"	62.2	29.5	26.3	95.2
KPT MTC-0790	75*2-1/2	2 1/2"	72.0	32.4	24.9	100.5
KPT MTC-0791	90*3	3"	86.4	38.2	24.6	109.2
KPT MTC-0792	110*4	4"	104.9	38.1	25.5	119.0

FEMALE THREADED COUPLING



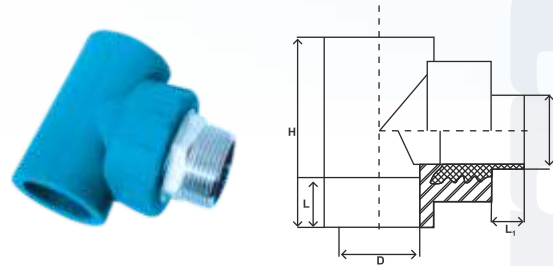
CODE	SIZE	THREADS	D	L	L1	H
KPT FTC-0793	16*1/2	1/2"	15.7	17.0	15.0	43.4
KPT FTC-0794	20*1/2	1/2"	19.2	16.0	15.0	43.2
KPT FTC-0795	20*3/4	3/4"	23.6	18.0	14.9	41.8
KPT FTC-0796	25*1/2	1/2"	23.6	18.0	14.9	41.8
KPT FTC-0797	25*3/4	3/4"	24.1	18.1	15.7	45.0
KPT FTC-0798	32*1/2	1/2"	31.1	20.0	15.0	50.5
KPT FTC-0799	32*3/4	3/4"	31.1	20.4	16.0	52.0
KPT FTC-0800	32*1	1"	31.1	20.2	17.8	54.7
KPT FTC-0801	40*1	1"	38.7	21.6	27.0	62
KPT FTC-0802	40*1-1/4	1 1/4"	38.8	22.1	18.0	62.0
KPT FTC-0803	50*1-1/2	1 1/2"	48.8	25.3	18.5	58.0
KPT FTC-0804	63*2	2"	61.5	28.6	25.6	68.1
KPT FTC-0805	75*2-1/2	2 1/2"	71.8	31.7	20.2	89.2
KPT FTC-0806	90*3	3"	86.5	38.0	21.9	101.5
KPT FTC-0807	110*4	4"	106.1	38.2	26.3	116.8

FEMALE THREADED TEE



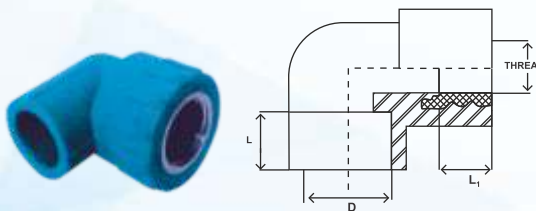
CODE	SIZE	THREADS	D	L	L1	H
KPT MTT-0815	20*1/2	1/2"	19.2	16.5	14.0	58.2
KPT MTT-0816	25*1/2	1/2"	24.2	18.2	14.0	62.2
KPT MTT-0817	25*3/4	3/4"	24.2	17.6	13.9	63.8
KPT MTT-0818	32*1/2	1/2"	31.3	20.0	14.2	78.0
KPT MTT-0819	32*3/4	3/4"	31.3	20.0	14.2	78.2
KPT MTT-0820	32*1	1"	31.2	20.0	15.8	77.8
KPT MTT-0821	40*1-1/4	1 1/4"	39.0	21.4	15.2	91.0

MALE THREADED TEE



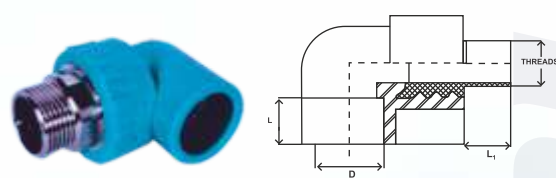
CODE	SIZE	THREADS	D	L	L1	H
PT FTT-0808	20*1/2	1/2"	19.2	15.0	14.0	58.2
KPT FTT-0809	25*1/2	1/2"	24.2	14.9	14.0	62.2
KPT FTT-0810	25*3/4	3/4"	24.2	16.2	13.9	63.8
KPT FTT-0811	32*1/2	1/2"	31.3	15.0	14.2	78.0
KPT FTT-0812	32*3/4	3/4"	31.3	16.2	14.2	78.2
KPT FTT-0813	32*1	1"	31.2	17.7	15.8	77.8
KPT FTT-0814	40*1-1/4	1 1/4"	39.0	17.6	15.2	91.0

FEMALE THREADED ELBOW



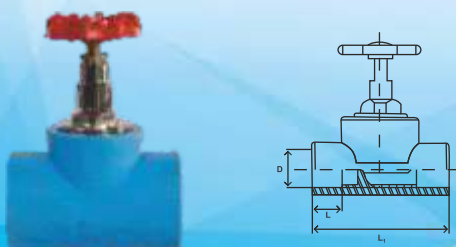
CODE	SIZE	THREADS	D	L	L1
KPT FTE-0822	20*1/2	1/2"	19.2	16.1	16.0
KPT FTE-0823	25*1/2	1/2"	24.1	17.9	15.0
KPT FTE-0824	25*3/4	3/4"	24.2	17.9	16.0
KPT FTE-0825	32*1/2	1/2"	31.2	20.2	15.0
KPT FTE-0826	32*3/4	3/4"	31.2	20.2	16.1
KPT FTE-0827	32*1	1"	31.2	20.3	18.3
KPT FTE-0828	40*1-1/4	1 1/4"	39.1	21.3	17.9

MALE THREADED ELBOW



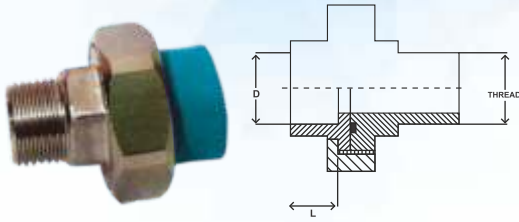
CODE	SIZE	THREADS	D	L	L1
KPT MTE-0829	20*1/2	1/2"	19.2	16.1	15.0
KPT MTE-0830	25*1/2	1/2"	24.1	17.9	15.0
KPT MTE-0831	25*3/4	3/4"	24.2	18.0	14.2
KPT MTE-0832	32*1/2	1/2"	31.3	21.0	14.3
KPT MTE-0833	32*3/4	3/4"	31.3	20.4	15.2
KPT MTE-0834	32*1	1"	31.3	20.1	27.0
KPT MTE-0835	40*1-1/4	1 1/4"	39.0	24.5	21.8

GATE VALVE



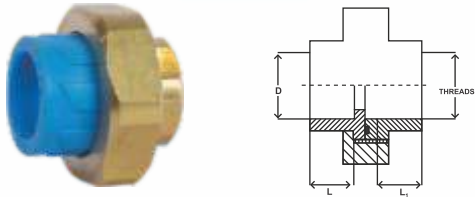
CODE	SIZE	D	L	L1
KPT GV-0836	20 MM	19.0	15.0	60.5
KPT GV-0837	25 MM	24.0	16.8	69.2
KPT GV-0838	32 MM	31.1	20.0	79.5
KPT GV-0839	40 MM	39.0	21.4	92.5
KPT GV-0840	50 MM	48.0	24.0	112.2
KPT GV-0841	63 MM	60.6	26.0	119.1
KPT GV-0842	75 MM	72.3	30.8	133.4
KPT GV-0843	90 MM	86.0	30.8	178.0
KPT GV-0844	110 MM	106.0	41.6	200.0

MALE THREADED UNION



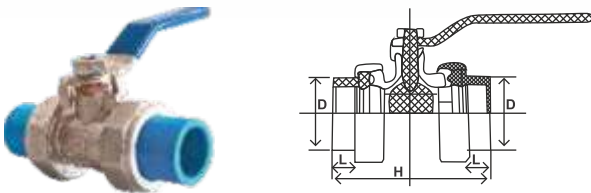
CODE	SIZE	THREADS	D	L
KPT MTU-0845	20*1/2	1/2"	19.2	17.8
KPT MTU-0846	25*3/4	3/4"	24.2	19.0
KPT MTU-0847	32*1	1"	31.3	23.5
KPT MTU-0848	40*1-1/4	1 1/4"	39.2	28.5
KPT MTU-0849	50*1-1/2	1 1/2"	47.6	24.6
KPT MTU-0850	63*2	2"	60.6	28.1

FEMALE THREADED UNION



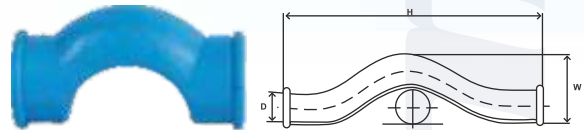
CODE	SIZE	THREADS	D	L	L1
KPT FTU-0851	20*1/2	1/2"	19.2	17.5	18.0
KPT FTU-0852	25*3/4	3/4"	24.2	19.0	18.5
KPT FTU-0853	32*1	1"	31.2	23.6	20.4
KPT FTU-0854	40*1-1/4	1 1/4"	39.2	28.4	23.0
KPT FTU-0855	50*1-1/2	1 1/2"	47.7	23.6	31.5
KPT FTU-0856	63*2	2"	60.6	28.4	28.7

DOUBLE UNION BALL VALVE



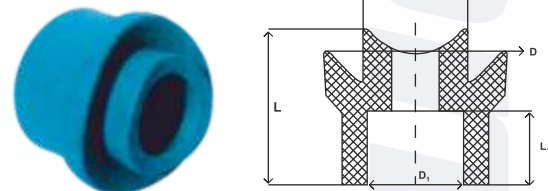
CODE	SIZE	D	L	H
KPT DUBV-0857	20 MM	18.7	16.3	84.1
KPT DUBV-0858	25 MM	23.8	17.4	95.7
KPT DUBV-0859	32 MM	30.8	21.8	107.3
KPT DUBV-0860	40 MM	38.9	25.2	125.3
KPT DUBV-0861	50 MM	48.7	27.3	147.0
KPT DUBV-0862	63 MM	61.4	29.0	168.5

BY PASS BEND*



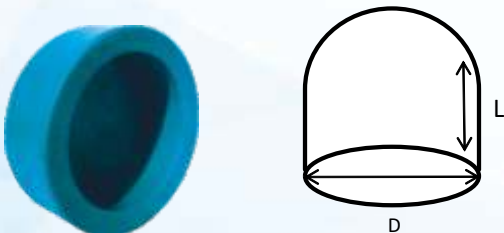
CODE	SIZE	D	W	H
KPT BPB-0863	20 MM	19.3	40	86
KPT BPB-0864	25 MM	23.9	47.0	94.9
KPT BPB-0865	32 MM	31.2	58.0	106.0
KPT BPB-0866	40 MM	37.9	80.0	133.0

WELD IN SADDLE REDUCER*



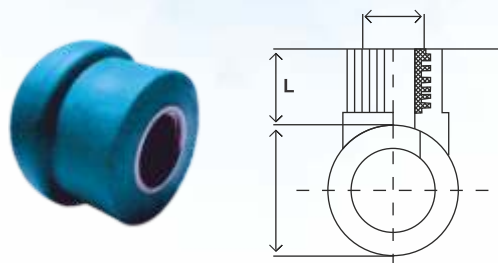
CODE	SIZE	D	D1	L	L1
KPT WIS R-0877	63/32	48.8	30.8	40.2	19.9
KPT WIS R-0878	75/32	48.8	30.8	40.2	19.9
KPT WIS R-0879	90/20	78.5	19.1	62.1	15.5
KPT WIS R-0880	90/25	78.5	24.2	62.1	17.5
KPT WIS R-0881	90/32	78.5	31.0	62.1	19.1
KPT WIS R-0882	90/40	79.2	38.9	62.1	21.4
KPT WIS R-0883	90/50	79.2	48.8	62.1	21.7
KPT WIS R-0884	90/63	79.2	62.7	62.1	27.5
KPT WIS R-0885	110/20	88.0	19.0	66.7	15.5
KPT WIS R-0886	110/25	88.0	24.0	66.7	17.3
KPT WIS R-0887	110/32	88.0	31.0	66.7	19.3
KPT WIS R-0888	110/40	88.0	39.1	66.7	21.5
KPT WIS R-0889	110/50	88.0	48.8	66.7	25.2
KPT WIS R-0890	110/63	88.0	62.4	66.7	27.4
KPT WIS R-0891	160/20	89.8	19.0	62.0	15.6
KPT WIS R-0892	160/25	89.8	23.9	62.0	17.3
KPT WIS R-0893	160/32	89.8	31.2	62.0	19.4
KPT WIS R-0894	160/40	89.8	38.8	62.0	21.3
KPT WIS R-0895	160/50	89.8	49.1	62.0	21.5
KPT WIS R-0896	160/63	89.8	62.5	62.0	27.3
KPT WIS R-0897	200/20	90.2	19.1	66.0	15.6
KPT WIS R-0898	200/25	90.2	24.1	66.0	17.7
KPT WIS R-0899	200/32	90.2	31.2	66.0	19.4
KPT WIS R-0900	200/40	90.2	39.0	66.0	21.4
KPT WIS R-0901	200/50	90.2	48.8	66.0	25.0
KPT WIS R-0902	200/63	90.2	62.5	66.0	27.3

END CAP*



CODE	SIZE	D	L
KPT EC-0677	16 MM	15.4	14.0
KPT EC-0678	20 MM	18.9	16.2
KPT EC-0679	25 MM	24.0	18.3
KPT EC-0680	32 MM	30.6	20.2
KPT EC-0681	40 MM	38.7	24.3
KPT EC-0682	50 MM	48.0	26.4
KPT EC-0683	63 MM	60.9	29.7
KPT EC-0684	75 MM	72.3	34.0
KPT EC-0685	90 MM	86.1	35.0
KPT EC-0686	110 MM	106.1	38.5
KPT EC-0687	125 MM	...	...
KPT EC-0688	160 MM	154.0	41.2

WELD IN SADDLE FEMALE THREADED COUPLING

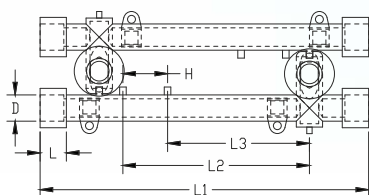


CODE	SIZE	THREADS	L	L1	H
KPT WIS M-0867	160*1/2	1/2"	16.3	49.2	41.3
KPT WIS M-0868	110*1/2	1/2"	16.3	49.2	41.3
KPT WIS M-0869	90*1/2	1/2"	16.3	49.2	41.3
KPT WIS M-0870	75*1/2	1/2"	16.3	49.2	41.3
KPT WIS M-0871	63*1/2	1/2"	16.3	49.2	41.3
KPT WIS M-0872	160*3/4	3/4"	16.0	49.1	41.3
KPT WIS M-0873	110*3/4	3/4"	16.0	49.1	41.3
KPT WIS M-0874	90*3/4	3/4"	16.0	49.1	41.3
KPT WIS M-0875	75*3/4	3/4"	16.0	49.1	41.3
KPT WIS M-0876	63*3/4	3/4"	16.0	49.1	41.3

DOUBLE BATTERY TAP CONNECTOR



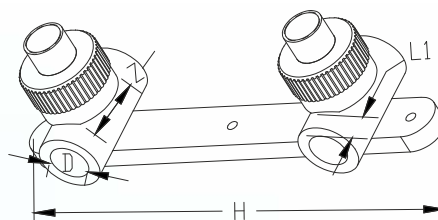
CODE	SIZE	THREADS	D	L	L1	L2	H
KPT DBTC F-0909	20*1/2	1/2"	19.1	17.3	248	101	30
KPT DBTC F-0910	25*1/2	1/2"	24.0	18.5	248	101	30



DOUBLE MALE T HREADED TEE WITH DISK



CODE	SIZE	THREADS	D	L1	Z	H
KPT DMTWD -0911	20*1/2	1/2"	19.1	16.0	25.3	150
KPT DMTWD -0912	25*1/2	1/2"	24.0	18.0	25.2	150



DOUBLE FEMALE T HREADED TEE WITH DISK



CODE	SIZE	THREADS	D	L1	Z	L
KPT DFTWD -0913	20*1/2	1/2"	19.1	16.0	25.3	150
KPT DFTWD -0914	25*1/2	1/2"	24.0	18.0	25.2	150



DOUBLE MALE ELBOW WITH DISK



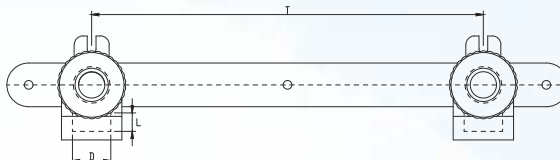
CODE	SIZE	THREADS	D	L	Z	T
KPT DMEWD -0915	20*1/2	1/2"	18.7	15.8	16.0	149.5
KPT DMEWD -0916	25*1/2	1/2"	24.0	17.6	16.2	149.5



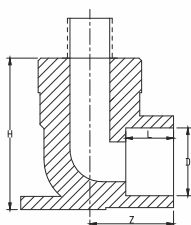
DOUBLE FEMALE ELBOW WITH DISK



CODE	SIZE	THREADS	D	L	Z	T
KPT DFEWD -0917	20*1/2	1/2"	18.7	15.8	16.0	149.5
KPT DFEWD -0918	25*1/2	1/2"	24.0	17.6	16.2	149.5

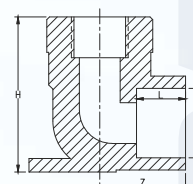


MALE THREADED ELBOW WITH DISK



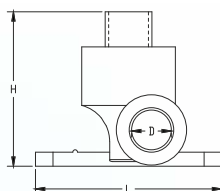
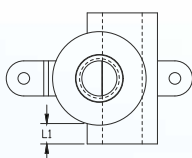
CODE	SIZE	THREADS	D	L	Z	H
KPT MTEWD -0919	20*1/2	1/2"	19.1	15.8	15.0	65
KPT MTEWD -0920	25*1/2	1/2"	24.0	17.6	16.2	70

FEMALE THREADED ELBOW WITH DISK



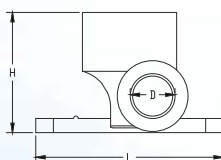
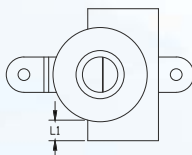
CODE	SIZE	THREADS	D	L	Z	H
KPT FTEWD -0921	20*1/2	1/2"	19.1	15.8	15.0	50
KPT FTEWD -0922	25*1/2	1/2"	24.0	17.6	16.2	55

MALE THREADED TEE WITH DISK



CODE	SIZE	THREADS	D	L1	Z	H
KPT MTTWD -0923	20*1/2	1/2"	19.1	16.0	56.0	64
KPT MTTWD -0924	25*1/2	1/2"	24.0	17.2	57.7	70

FEMALE THREADED TEE WITH DISK



CODE	SIZE	THREADS	D	L1	Z	H
KPT FTTWD -0925	20*1/2	1/2"	19.1	16.0	56.0	50
KPT FTTWD -0926	25*1/2	1/2"	24.0	17.2	57.8	56

CONCEALED VALVE



CODE	SIZE	D	L	L1
KPT CV-0927	20 MM	19.0	15.0	60.5
KPT CV-0928	25 MM	24.3	17.2	68.1
KPT CV-0929	32 MM	31.0	20.0	79.7



FUSION METHOD

The process of joining PPR-C pipes and fittings is very simple and results in inseparable watertight joints. It is carried out using a simple welding machine that fuses the internal surface of the fitting and the external surface of the pipe, so that the material of the pipe and the fitting will be bonded together.

THE FOLLOWING DESCRIBE THE STEPS OF THE WELDING PROCESS

Prepare the welding machine by fitting it with the welding dies of the diameters to be welded. Connect the plug to the 220V power supply socket and wait until the green light on the machine goes out indicating the welding machine has reached the working temperature.

- Cut the pipe at right angles to the pipe axis using suitable pipe cutter.
- Remove any burrs or cutting chips by deburring the cutting area.
- Mark the welding depth on the pipe using suitable marker.
- Insert the end of the pipe without turning into the heating sleeve up to the marked welding depth and at the same time slide the fitting without turning into the other side of the heating tool up to the stop. It is essential to observe the mentioned heating times (refer to the below table)
- Leave the pipe and fitting into the heating tool until the heating time is elapsed.
- At the end of the heating time, remove the pipe and fitting from the heating tool and push them immediately against each other up to the mark indicating the welding depth. At this stage the depth mark will be covered with the welding bead.
- During this process, do not rotate the pipe and fitting relative to each other.
- Allow the joint to cool fully before using.

STEP 01



STEP 02



RESULT



Recommended Time For PPR Systems Fusion Joints

PIPE DIA. (MM)	WELDING MACHINE TEMPERATURE °C			WELDING DEPTH (MM)	HEATING TIME (SEC)	WELDING TIME (SEC)	COOLING TIME (MIN)
	PN-10	PN-16	PN-20				
16	230-240	240-250	250-260	14.0	6	4	2
20				14.5	6	4	2
25				16.0	7	4	2
32				18.0	8	6	4
40				20.5	12	6	4
50				23.5	18	6	4
63				27.5	24	8	6
75				30.0	30	8	6
90				32.5	40	8	6
110				37.0	50	10	8
125				39.0	55	12	9
160				42.0	60	15	10

Recommended Time For PPR Systems Butt Joint

PIPE DIA. (MM)	WELDING MACHINE TEMPERATURE °C	HEATING TIME (MIN)	WELDING TIME (SEC)	COOLING TIME (MIN)
200	220-240	30	180	15-20
250	220-240	30	240	16-24
315	225-240	30	300	20-25
355	225-240	30	360	25-30
400	225-240	30	420	30-35

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New Delhi-110034 India

Works: 122/69, Central Hope Town, Selaqui, Industrial Area,
Dehradun-248197 (Uttarakhand)
Ph.: +11-45360050, + 91 8178402742, + 91 9354940961

Email: info@kptpipes.com

Toll Free No.: 1800-270-4672

