



PP-R

Water Pipe and Fittings

ULP PP-R water pipe and Fittings is designed for household water piping system. It is deal for water supply with Health and environmental protection, Light weight, Corrosion resistance, Low thermal conductivity etc. Approved by contractors, engineers and private home-owners. Conforms with GB/T 18742.2-2017 & GB/T 18742.3-2017 specification. Also Homso PPR Piping and fittings conform to EN ISO15874-1/2/3:2013.

Note: German standard-DIN 8077/78 and national standard GB/T18742.2-2017 parameter comparison, (under the same pressure, pipe series specification number/outer diameter value/wall thickness/SDR value) are consistent

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PP-R Pipe Series S5
Color : Grey
• For Cold Water

O.D. (mm)	Thickness (mm)	Pressure (Mpa)
20	2	1.25
25	2.3	1.25
32	2.9	1.25
40	3.7	1.25
50	4.6	1.25
63	5.8	1.25
75	6.8	1.25
90	8.2	1.25
110	10	1.25
125	11.4	1.25
160	14.6	1.25

PP-R Pipe Series S2. 5
Color: Grey
• For Cold and Hot Water

O.D. (mm)	Thickness (mm)	Pressure (Mpa)
20	3.4	2.5
25	4.2	2.5
32	5.4	2.5
40	6.7	2.5

PP-R Pipe Series S4
Color: Grey
• For Cold Water

O.D. (mm)	Thickness (mm)	Pressure (Mpa)
20	2.3	1.6
25	2.8	1.6
32	3.6	1.6
40	4.5	1.6
50	5.6	1.6
63	7.1	1.6
75	8.4	1.6
90	10.1	1.6
110	12.3	1.6
125	14	1.6
160	17.9	1.6

PP-R Pipe Series S2. 5
Color: Grey
• For Cold and Hot Water

O.D. (mm)	Thickness (mm)	Pressure (Mpa)
50	8.3	2.5
63	10.5	2.5
75	12.5	2.5
90	15	2.5

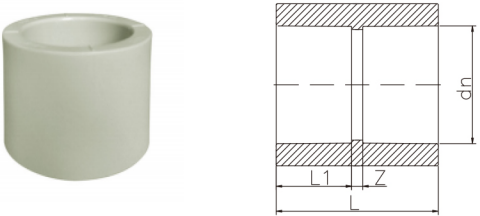
PP-R Pipe Series S3. 2
Color : Grey
• For Cold and Hot Water

O.D. (mm)	Thickness (mm)	Pressure (Mpa)
20	2.8	2
25	3.5	2
32	4.4	2
40	5.5	2
50	6.9	2
63	8.6	2
75	10.3	2
90	12.3	2
110	15.1	2
125	17.1	2
160	21.9	2

PP-R Pipe Series S2. 5
Color: Grey
• For Cold and Hot Water

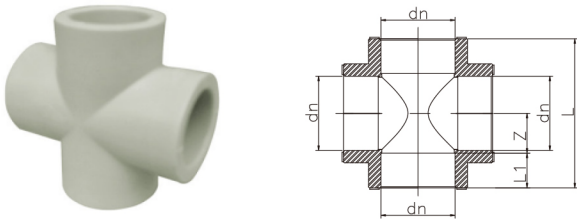
O.D. (mm)	Thickness (mm)	Pressure (Mpa)
110	18.3	2.5
125	20.8	2.5
160	26.6	2.5

Coupling



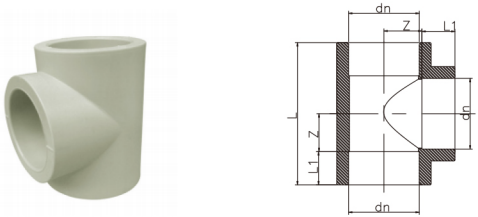
Size (mm)	L (mm)	L1 (mm)	Z (mm)
20	35	16.5	2
25	40	18.5	3
32	44	20.5	3
40	49	23	3
50	54	25.5	3
63	62	29.5	3
75	67	32	3
90	78	37	4
110	93	43.5	6

Straight Cross



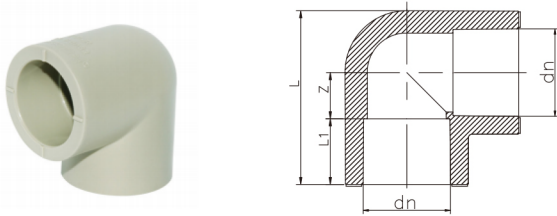
Size (mm)	L (mm)	L1 (mm)	Z (mm)
20	55	16.5	11
25	63.2	18.5	13.1
32	76	20.5	17.5
40	88	23	21
50	104	25.5	26.5
63	126	29.5	33.5
75	143	32	39.5
90	170	37	48
110	203	43	58.5

90° Equal Tee



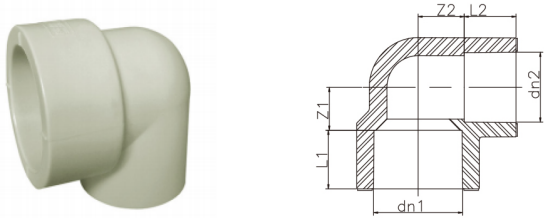
Size (mm)	L (mm)	L1 (mm)	Z (mm)
20	55.8	16.5	11.4
25	64.7	18.5	13.85
32	76.6	20.5	17.8
40	89.4	23	21.7
50	105.6	25.5	27.3
63	126.6	29.5	33.8
75	143	32	39.5
90	170	37	48
110	203	43	58.5
125			
160			

90° Elbow



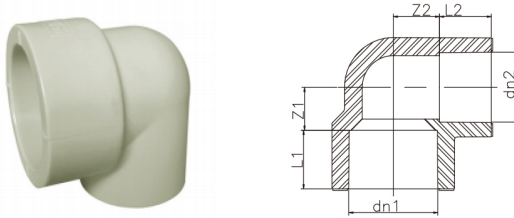
Size (mm)	L (mm)	L1 (mm)	Z (mm)
20	42	16.5	11.2
25	49	18.5	13.3
32	59.3	20.5	17
40	71.62	23	21.72
50	85.9	25.5	26.72
63	105.1	29.5	33.14
75	121.2	32	38.73
90	144.7	37	47.03
110	176.5	43.5	58.84
125			
160			

90° Reducing Elbow



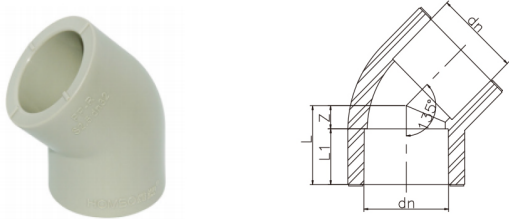
Size (mm)	L1 (mm)	Z1 (mm)	L2 (mm)	Z2 (mm)
25×20	18.5	12	16.5	13.5
32×20	20.5	13	16.5	17
32×25	20.5	15	18.5	16.5
40×20	23	14.5	16.5	14
40×25	23	18	18.5	13.5
40×32	23	21	20.5	16.5
50×25	25.5	21.5	18.5	20.5
50×32	25.5	23.5	20.5	19.5
50×40	25.5	29	23	20.5

90° Reducing Elbow



Size (mm)	L1 (mm)	Z1 (mm)	L2 (mm)	Z2 (mm)
63×32	29.5	24	20.5	26
63×40	29.5	28.5	23	24.5
63×50	29.5	33	25.5	27.5

45° Elbow



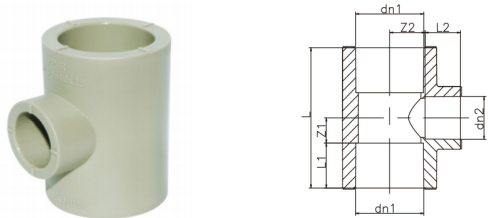
Size (mm)	L (mm)	L1 (mm)	Z (mm)
20	22	16.5	5.5
25	25	18.5	6.5
32	29	20.5	8.5
40	33	23	10
50	37.5	25.5	12
63	44.5	29.5	15
75	51.71	32	19.71
90	60.9	37	23.9
110	72.5	43	29.5
125	132	90	42
160	154	100	54

Cap



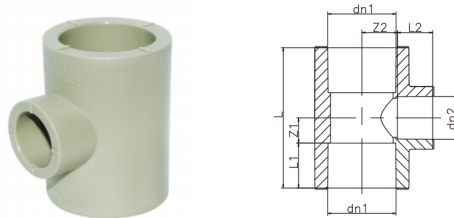
Size (mm)	L (mm)	L1 (mm)
20	24	16.5
25	27.5	18.5
32	31.5	20.5
40	35.5	23
50	42.5	25.5
63	51.5	29.5
75	57	32
90	68	37
110	82	43
125		
160		

90° Reducing Tee



Size (mm)	L (mm)	L1 (mm)	L2 (mm)	Z1 (mm)	Z2 (mm)
25×20	59	18.5	16.5	11	13
32×20	64	20.5	16.5	11.5	16.5
32×25	68.5	20.5	18.5	13.75	17
40×20	70.8	23	16.5	12.4	21.2
40×25	75.7	23	18.5	14.85	21.2
40×32	82.6	23	20.5	18.3	21.7
50×20	75.8	25.5	16.5	12.4	26.3

90° Reducing Tee



Size (mm)	L (mm)	L1 (mm)	L2 (mm)	Z1 (mm)	Z2 (mm)
50×25	80.7	25.5	18.5	14.85	26.3
50×32	87.6	25.5	20.5	18.3	26.8
50×40	95.4	25.5	23	22.2	26.8
63×25	88.7	29.5	18.5	14.85	32.8
63×32	95.6	29.5	20.5	18.3	33.3
63×40	103.4	29.5	23	22.2	33.3
63×50	113.6	29.5	25.5	27.3	33.8

90° Reducing Tee



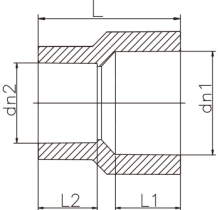
Size (mm)	L (mm)	L1 (mm)	L2 (mm)	Z1 (mm)	Z2 (mm)
75×32	100.6	32	20.5	18.3	39
75×40	108.4	32	23	22.2	39
75×50	118.6	32	25.5	27.3	39.5
75×63	131.6	32	29.5	33.8	39.5
90×40	120.4	37	23	23.2	46.5
90×50	130.6	37	25.5	28.3	47
90×63	143.6	37	29.5	34.8	47
90×75	155	37	32	40.5	47

90° Reducing Tee



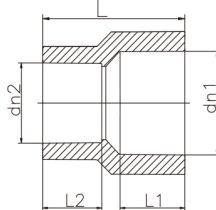
Size (mm)	L (mm)	L1 (mm)	L2 (mm)	Z1 (mm)	Z2 (mm)
110×50	142.6	42	25.5	28.3	57
110×63	155.6	42	29.5	34.8	57
110×75	167	42	32	40.5	57
110×90	182	42	37	48	58.5
160×63	330	100	29.5	65	100
160×75	332.5	100	32	66.25	100
160×90	338	100	37	69	100
160×110	350	100	42	75	95

Reducer



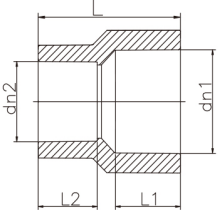
Size (mm)	L (mm)	L1 (mm)	L2 (mm)
25×20	39.5	18.5	16.5
32×20	43.5	20.5	16.5
32×25	44.5	20.5	18.5
40×20	47	23	16.5
40×25	49	23	18.5
40×32	50.5	23	20.5
50×20	53.73	25.5	16.5

Reducer



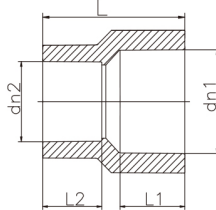
Size (mm)	L (mm)	L1 (mm)	L2 (mm)
50×25	55	25.5	18.5
50×32	57	25.5	20.5
50×40	59	25.5	23
63×25	56.65	29.5	18.5
63×32	59	29.5	20.5
63×40	61	29.5	23
63×50	63	29.5	25.5

Reducer



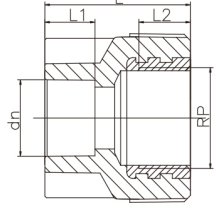
Size (mm)	L (mm)	L1 (mm)	L2 (mm)
75×32	63	32	20.5
75×40	65	32	23
75×50	67	32	25.5
75×63	70	32	29.5
90×40	75	37	23
90×50	77	37	25.5
90×63	81	37	29.5
90×75	84	37	32
110×50	86	43	25.5

Reducer



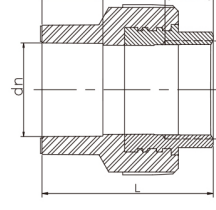
Size (mm)	L (mm)	L1 (mm)	L2 (mm)
110×63	89	43	29.5
110×75	92	43	32
110×90	98	43	37
125×63	210	85	75
125×110	200	85	85
160×90	230	90	80
160×110	220	90	85
160×125	210	90	85

Female Coupling (Copper Thread) I



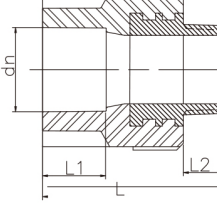
Size (mm)	L (mm)	L1 (mm)	L2 (mm)
20x1/2"	42	16.5	15
20x3/4"	44	16.5	15
25x1/2"	45	18.5	15
25x3/4"	44	18.5	15
25x1"	48	18.5	20.5
32x1/2"	47	20.5	15
32x3/4"	46	20.5	15

Female Coupling (Copper Thread) II



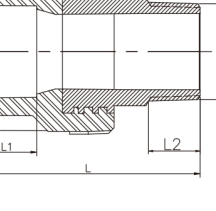
Size (mm)	L (mm)	L1 (mm)	L2 (mm)
25×1"	59	16.5	20.5
32×1"	59	20.5	20.5
40×1"	61	23	20.5
40×1¼"	66	23	19
50×1¼"	68.5	25.5	19
50×1½"	69.5	25.5	19
63×2"	80.5	29.5	22
75×2"	83	32	22

Male Coupling (Copper Thread) I



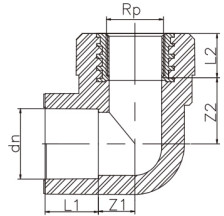
Size (mm)	L (mm)	L1 (mm)	L2 (mm)
20x1/2"	54	16.5	15
20x3/4"	57	16.5	15
25x1/2"	58	18.5	15
25x3/4"	57	18.5	15
25x1"	67.5	16.5	15
32x1/2"	62	20.5	15
32x3/4"	60	20.5	15

Male Coupling (Copper Thread) II



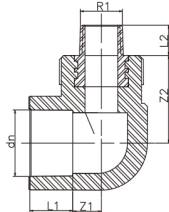
Size (mm)	L (mm)	L1 (mm)	L2 (mm)
32×1"	78	20.5	20.5
40×1	73	23	20.5
40×1¼"	87	23	21
50×1¼"	89.5	25.5	21
50×1½"	91.5	25.5	23
63×2"	105	29.5	26.5
75×2"	107.5	32	26.5

Female Elbow (Copper Thread) I

				
Size (mm)	L1 (mm)	Z1 (mm)	L2 (mm)	Z2 (mm)
20×1/2"	16.5	12.5	15	20
20×3/4"	16.5	13.5	15	21
25×1/2"	18.5	12.5	15	25
25×3/4"	18.5	15.5	15	25
25×1"				
32×1/2"	20.5	13	15	30
32×3/4"	20.5	15	15	30
40×3/4"	23	21.5	15	33.5
40×1¼"				
50×3/4"	25.5	26.8	15	44.5

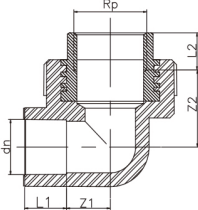
Male Elbow (Copper Thread) I



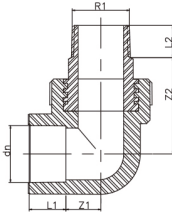


Size (mm)	L1 (mm)	Z1 (mm)	L2 (mm)	Z2 (mm)
20×1/2"	16.5	12.5	15	36
20×3/4"	16.5	13.5	15	36
25×1/2"	18.5	12.5	15	40
25×3/4"	18.5	15.5	15	40
25×1"				
32×1/2"	20.5	13	15	45
32×3/4"	20.5	15	15	45
40×3/4"	23	21.5	15	47.5
50×3/4"	24.5	26.8	15	58.5

Female Elbow (Copper Thread) II

				
Size (mm)	L1 (mm)	Z1 (mm)	L2 (mm)	Z2 (mm)
32×1"	20.5	19	20.5	35.5
40×1"	23	21.5	20.5	38
40×1¼"	23	21.5	19	46
50×1"	25.5	26.8	20.5	37.5
50×1¼"	25.5	26.8	19	50.5
50×1½"	25.5	26.8	19	52.5
63×1"	29.5	33.1	20.5	49.5
63×1¼"	29.5	33.1	19	63.5
63×1½"	29.5	33.1	19	63.5
63×2"	29.5	33.1	22	62.5

Male Elbow (Copper Thread) II

				
Size (mm)	L1 (mm)	Z1 (mm)	L2 (mm)	Z2 (mm)
32×1"	20.5	18	20.5	49.5
40×1¼"	23	21.5		
40×1"	23	21.5	20.5	
50×1"	25.5	26.8	20.5	
50×1¼"	25.5	26.8	21	
50×1½"	25.5	26.8	23	
63×1"	29.5	33.1	20.5	
63×1¼"	29.5	33.1	21	
63×1½"	29.5	33.1	23	
63×2"	29.5	33.1	26.5	

Female Tee (Copper Thread) I

Size (mm)	L (mm)	L1 (mm)	L2 (mm)	Z1 (mm)	Z2 (mm)
20×1/2"	59	16.5	15	13	21
20×3/4"	60	16.5	15	13.5	21
25×1/2"	62	18.5	15	12.5	25
25×3/4"	67	18.5	15	15	25
25×1"					
32×1/2"	68	20.5	15	13.5	29
32×3/4"	72	20.5	15	15.5	30
40×3/4"	76	23	15	15	32

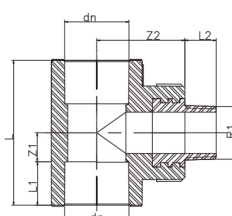
Female Tee (Copper Thread) II

Size (mm)	L (mm)	L1 (mm)	L2 (mm)	Z1 (mm)	Z2 (mm)
32x1"	78	21	20.5	18	35.5

Double Female Thread Tee with Seat

Size (mm)	L (mm)	L1 (mm)	H (mm)
20x1/2"	153	82	48.5
25x1/2"	153	82	55.6

Male Tee (Copper Thread) I

Size (mm)	L (mm)	L1 (mm)	L2 (mm)	Z1 (mm)	Z2 (mm)
20×1/2"	59	16.5	15	13	36
20×3/4"	60	16.5	15	13.5	36
25×1/2"	62	18.5	15	12.5	40
25×3/4"	67	18.5	15	15	40
25×1"					
32×1/2"	68	20.5	15	13	44
32×3/4"	72	20.5	15	15.5	45
40×3/4"	76	23		15	47.5

Male Tee (Copper Thread) II

Size (mm)	L (mm)	L1 (mm)	L2 (mm)	Z1 (mm)	Z2 (mm)
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32x1"

78

20.5

20.5

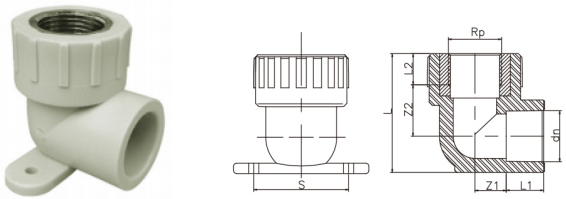
18.5

49.5

Double Female Thread Elbow with Seat

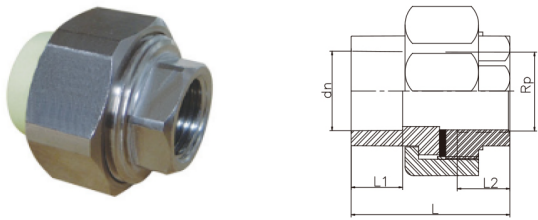
Size (mm)	L (mm)	L1 (mm)	H (mm)
20x1/2"	153	82	48.5
25x1/2"	153	82	55.6

Female Thread Elbow With
Seat



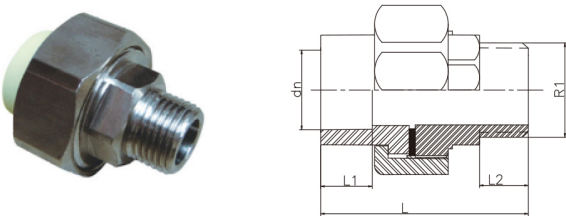
Size (mm)	L (mm)	L1 (mm)	Z1 (mm)	S (mm)	L2 (mm)	Z2 (mm)
20x1/2"	50	16.5	12.5	39	15	21
20x3/4"	50	16.5	13.5	39	15	21
25x1/2"	57.5	18.5	12.5	47	15	42.5
25x3/4"	57.5	18.5	15.5	47	15	42.5

Female Thread Union



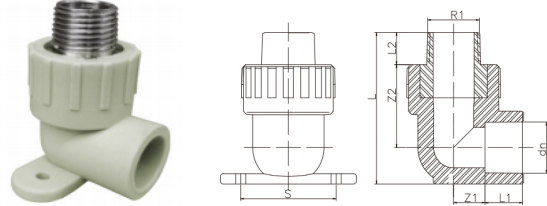
Size (mm)	L (mm)	L1 (mm)	L2 (mm)
20x1/2"	39	16.5	15
25x3/4"	43.8	18.5	15
32x1"	48	20.5	20.5

Male Thread Union



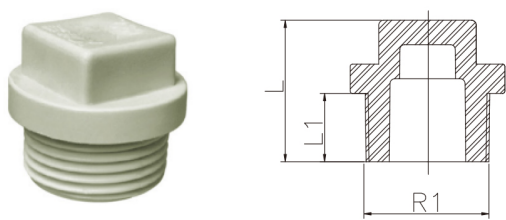
Size (mm)	L (mm)	L1 (mm)	L2 (mm)
20x1/2"	52	16.5	15
25x3/4"	57.5	18.5	15
32x1"	65.5	20.5	18

Male Thread Elbow With
Seat



Size (mm)	L (mm)	L1 (mm)	Z1 (mm)	S (mm)	L2 (mm)	Z2 (mm)
20x1/2"	65	16.5	12.5	39	15	36
20x3/4"	65	16.5	13.5	39	15	36
25x1/2"	72.5	18.5	12.5	47	15	40
25x3/4"	72.5	18.5	15.5	47	15	40

Male Thread Plug



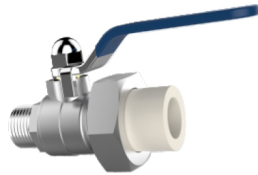
Size (mm)	L (mm)	L1 (mm)
R1/2"	26	13
R3/4"	29	14
R1"	34	16

Ball Valve



Size (mm)
20
25
32

Male Thread Union Ball Valve



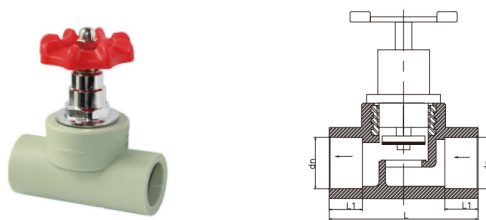
Size (mm)
20x1/2"
25x3/4"
32x1"
40x1¼"
50x1½"
63x2"

True Union Ball Valve



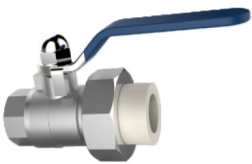
Size (mm)
20
25
32
40
50
63

Stop Valve



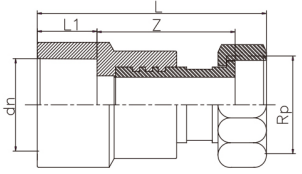
Size (mm)	L (mm)	L1 (mm)
20	70	16.5
25	80	18.5
32	94	20.5
40	95	23
50	115	25.5
63	135	29.5
75	134	32
90	188	37
110	198	43

Female Thread Union Ball Valve



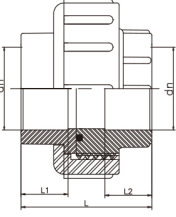
Size (mm)
20x1/2"
25x3/4"
32x1"
40x1¼"
50x1½"
63x2"

Flexible Joint I



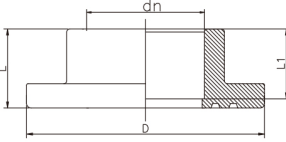
Size (mm)	L (mm)	L1 (mm)	Z (mm)
20×1/2"	68.6	16.5	43.5
20×3/4"	69.1	16.5	43.8
25×1/2"	70.6	18.5	43.5
25×3/4"	71.3	18.5	44
32×1"	79.5	20.5	48.5

Union II



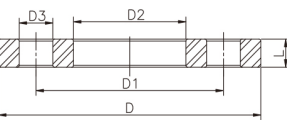
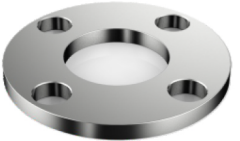
Size (mm)	L (mm)	L1 (mm)	L2 (mm)
20	46	16.5	16.5
25	51.3	18.5	18.5
32	59.8	20.5	20.5
40	63.2	23	23
50	65	25.5	25.5
63	76	29.5	29.5

Stub Flange



Size (mm)	L (mm)	L1 (mm)	D (mm)
40	26	23	80
50	30	25.5	90
63	34.5	29.5	107
75	37	32	125
90	42.5	37	143
110	49.5	43	169
125			
160			

Flange (Steel Tray)



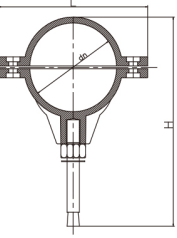
Size (mm)	L (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)
40	9.6	130	98	57	18
50	10	150	110	68	18
63	11.6	160	125	86	18
75	13.8	175	145	92	18
90	14	190	161	108	18
110	15	216	180	120	18
125					
160	17.5	275	240	178	18

Rubber Gasket



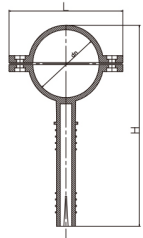
Size (mm)
40
50
63
75
90
110
125
160

Pipe Clamp (Screw)



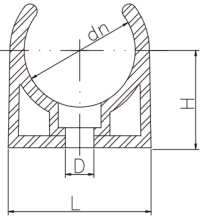
Size (mm)	L (mm)	H (mm)
20	50	90
25	57	101
32	64	118
40	76	126
50	87	135
63	104	150
75	113	162
90	130	186
110	148	206

Pipe Clamp with Steel Nail



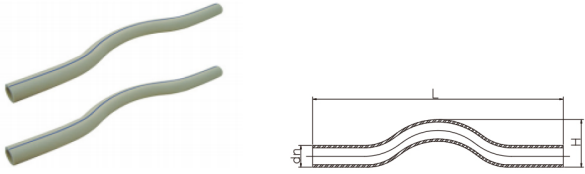
Size (mm)	L (mm)	H (mm)
20	50	110
25	57	105
32	64	113
40	76	112

Pipe Clamp



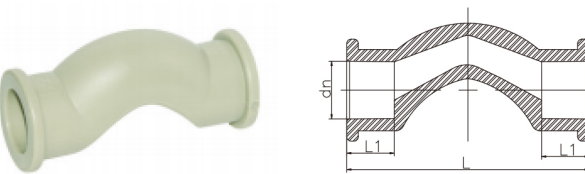
Size (mm)	L (mm)	H (mm)	D (mm)
20	28	20.5	8
25	33	23	8
32	40	26.8	8
40			

Pipe Bending (Cold Water)



Size (mm)	L (mm)	H (mm)
20	215	45
25	325	50
32	315	65

Pipe Bending I



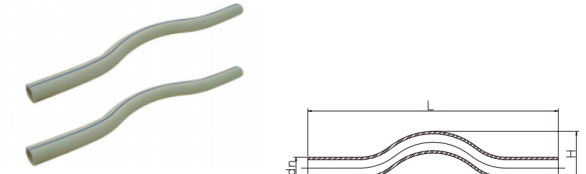
Size (mm)	L (mm)	L1 (mm)
20	84	16.5
25	95	18.5
32	120	21

Cutter



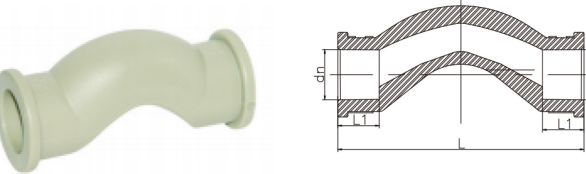
Size (mm)
20
25
32

Pipe Bending (Hot Water)



Size (mm)	L (mm)	H (mm)
20	215	45
25	325	50
32	315	65

Pipe Bending II



Size (mm)	L (mm)	L1 (mm)
20	98	16.5
25	125	18.5
32	140	21

Welding Step

1. Clean the pipe socket and the fittings socket surface.
2. Mark the insertion end of the pipe.
3. Heating the pipes and fittings to be connected with a hot melt machine.
4. Inserting the pipe into the fittings uniformly and steadily after the heating is finished.
5. The cooling time shall should match the size of the pipe, the cooling time of the large size and specification shall be appropriately extended according to the actual situation on the spot.

The welding is subject to the following data

O.D. (mm)	Welding Depth (mm)	Heating Time (s)	Welding Time (s)	Cooling Time (min)
20	14	5	4	2
25	16	7	4	2
32	18.5	8	6	4
40	20	12	6	4
50	23	18	6	4
63	27	24	8	6
75	29	30	8	8
90	33.5	40	8	8
110	39.5	50	10	8

● If the ambient temperature is below 5 °C, the heating time should be extended by 50%.



Clean



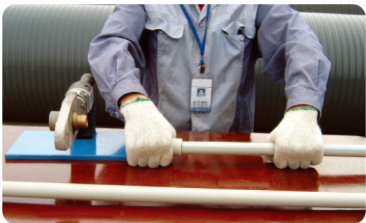
Mark



Heating



Welding



Cooling



Complete