

Company Profile »

NINGBO SALVADOR PIPING SYSTEM CO.,LTD is a leading manufacturer and exporter of plastic pipes, valves and fittings, we are committed to provide piping system solutions to customers all over the world. Salvador Industrial stick to the principle of "Quality First, Service First, Continuous Improvement and Innovation to meet the requirements of Customers".

SWD Products are widely used in Agricultural Irrigation, Wastewater Treatment, Aquaculture, Pharmaceutical Industry, Electroplating, Papermaking Industry, Chemical Industry, Mining plant, Power Station, Drainage, and other applications involving corrosive fluid transfer. Most of our products confirm to ANSI, DIN, BS, JIS & TIS standard and have been already exported to the countries below: United States, Canada, Germany, UK, Spain, Austria, Mexico, Argentina, Chile, Colombia, Peru, Russia, Saudi Arabia, UAE, Iran, Iraq, Syria, Yemen, Vietnam, Thailand, Philippines, Indonesia, Malaysia, Sri Lanka, Zambia, Morocco, Algeria etc. with very good reputation.

With rich experience in piping & duct systems, we will provide best solutions and services to you. Welcome to our company visit and discuss business, sincerely hope our professional technology and individual service can win your trust and favor, looking forward to cooperate with friends all over the world, let's do win-win business together!

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UPVC PIPE For Water Supply (DIN) »

Confirm to: GB/T 10002.2-2003 BS EN ISO 1452

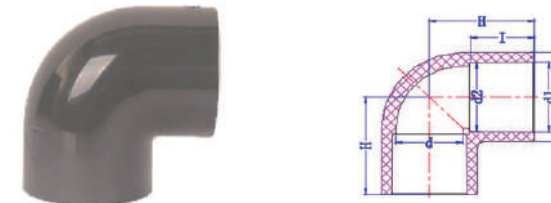


Nominal Outside Diameter dn	S series SDR series and nominal pressure						
	S16 SDR33 0.63MPa	S12.5 SDR26 0.8MPa	S10 SDR21 1.0MPa	S8 SDR17 1.25MPa	S6.3 SDR13.6 1.6MPa	S5 SDR11 2.0MPa	S4 SDR9 2.5MPa
	Nominal wall thickness						
20	-	-	-	-	-	2.0	2.3
25	-	-	-	-	2.0	2.3	2.8
32	-	-	-	2	2.4	2.9	3.6
40	-	-	2	2.4	3.0	3.7	4.5
50	-	2	2.4	3	3.7	4.6	5.6
63	2	2.5	3	3.8	4.7	5.8	7.1
75	2.3	2.9	3.6	4.5	5.6	6.9	8.4
90	2.8	3.5	4.3	5.4	6.7	8.2	10.1

Nominal Outside Diameter dn	S series SDR series and nominal pressure						
	S20 SDR41 0.63MPa	S16 SDR33 0.8MPa	S12.5 SDR26 1.0MPa	S10 SDR21 1.25MPa	S8 SDR17 1.6MPa	S6.3 SDR13.6 2.0MPa	S5 SDR11 2.5MPa
	Nominal wall thickness						
110	2.7	3.4	4.2	5.3	6.6	9.2	13.9
125	3.1	3.9	4.8	6.0	7.4	10.3	15.7
140	3.5	4.3	5.4	6.7	8.3	11.8	17.9
160	4.0	4.9	6.2	7.7	9.5	13.3	20.0
180	4.4	5.5	6.9	8.6	10.7	14.7	22.3
200	4.9	6.2	7.7	9.6	11.9	16.6	25.1
225	5.5	6.9	8.6	10.8	13.4	18.4	27.9
250	6.2	7.7	9.6	11.9	14.8	20.6	-
280	6.9	8.6	10.7	13.4	16.6	23.2	-
315	7.7	9.7	12.1	15.0	18.7	26.1	-
355	8.7	10.9	13.6	16.9	21.1	29.4	-
400	9.8	12.3	15.3	19.1	23.7	33.1	-
450	11.0	13.8	17.2	21.5	26.7	36.8	-
500	12.3	15.3	19.1	23.9	29.7	-	-
560	13.7	17.2	21.4	26.7	-	-	-
630	15.4	19.3	24.1	30.0	-	-	-
710	17.4	21.8	27.2	-	-	-	-
800	19.6	24.5	30.6	-	-	-	-

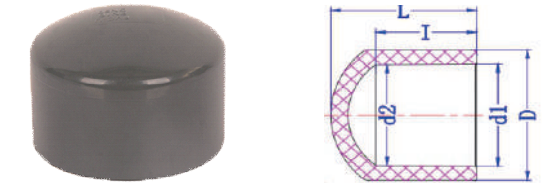
UPVC Fittings (DIN PN16) » Confirm to: ISO 15493-2003

90° Elbow (DIN)



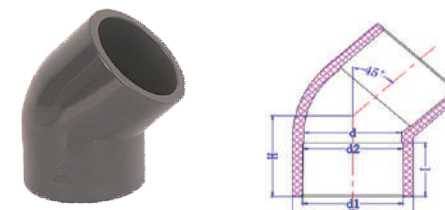
Nominal SIZE	Socket Type			Structural Diameter		
	d1	d2	I	D	d	H
20	20.3	20.1	16	27	17	28.5
25	25.3	25.1	19	33	23	34
32	32.3	32.1	22	41	29	40.5
40	40.3	40.1	26	50	37	48.5
50	50.3	50.1	32	61	47	57
63	63.3	63.1	38	75	60	71
75	75.3	75.1	44	92	72	83
90	90.3	90.1	51	110.6	87.1	98
110	110.4	110.1	61	127	106.1	118
140	140.5	140.2	77	162	133	147
160	160.5	160.2	86	186	154	166
225	225.8	225	117.5	261	218	240
280	281	280	145	323	271	285
315	316	315	162.5	363	306	320.5

Cap (DIN)



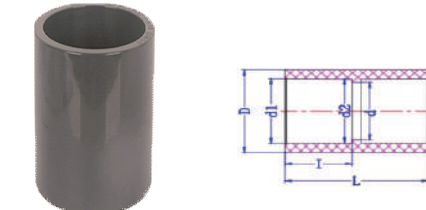
Nominal SIZE	Socket Type			Structural	
	d1	d2	I	d	L
20	20.3	20.1	16	27	28.5
25	25.3	25.1	20	33	29.5
32	32.3	32.1	24	40.5	35.5
40	40.3	40.1	28	49.1	40
50	50.3	50.1	32	61	46.5
63	63.3	63.1	38	75	54.5
75	75.3	75.1	47	87	66.5
90	90.3	90.1	52.5	104	74.5
110	110.4	110.1	63	125.4	85.5
160	160.5	160.2	86	186	105
225	225.8	225	117.5	261	155

45° Elbow (DIN)



Nominal SIZE	Socket Type			Structural Diameter		
	d1	d2	I	D	d	H
20	20.3	20.1	16	27	17	24
25	25.3	25.1	19	33	23	28.5
32	32.3	32.1	22	41	29	33
40	40.3	40.1	26	50	37	39
50	50.3	50.1	32	61	47	48
63	63.3	63.1	38	75	60	57
75	75.3	75.1	44	92	72	66
90	90.3	90.1	51	110.6	87.1	71.5
110	110.4	110.1	61	127	106.1	82.5
140	140.5	140.2	77	162	133	108
160	160.5	160.2	86	186	154	120.5
225	225.8	225	117.5	261	218	165
280	281	280	145	323	271	203
315	316	315	162.5	363	306	228

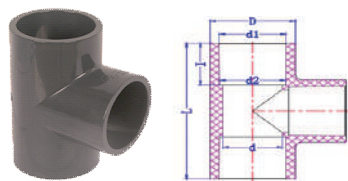
Coupling /Socket (DIN)



Nominal SIZE	Socket Type			Structural Diameter		
	d1	d2	I	D	d	L
20	20.3	20.1	16	27	17	37
25	25.3	25.1	19	33	23	42
32	32.3	32.1	22	40.5	29	49
40	40.3	40.1	26	49.1	37	57
50	50.3	50.1	32	61	47	68
63	63.3	63.1	38	75	60	82
75	75.3	75.1	44	87	72	95
90	90.3	90.1	51	104	87.1	108
110	110.4	110.1	61	125.4	106.1	130
140	140.5	140.2	77	162	133	162
160	160.5	160.2	86	186	154	180
200	200.6	200.2	130	240	185	268
225	225.7	225.3	130	261	218	268
280	281	280	145	323	271	300
315	316	315	162.5	363	306	335

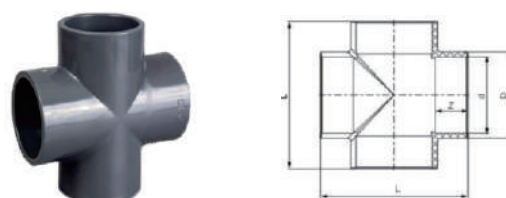


Tee (DIN)



Nominal	Socket Type			Structural Diameter		
SIZE	d1	d2	l	D	d	L
20	20.3	20.1	16	27	17	57.8
25	25.3	25.1	19	33	23	68
32	32.3	32.1	22	40.5	29	83
40	40.3	40.1	26	49.1	37	97.5
50	50.3	50.1	32	61	47	115
63	63.3	63.1	38	75	60	142.6
75	75.3	75.1	44	87	72	166.7
90	90.3	90.1	51	104	87.1	196.5
110	110.4	110.1	61	125.4	106.1	236.5
140	140.5	140.2	77	162	133	298.5
160	160.5	160.2	86	186	154	338
225	225.8	225	117.5	261	218	465
280	281	280	145	323	271	592
315	316	315	162.5	363	306	665

PVC CROSS 4 WAY PIPE FITTINGS

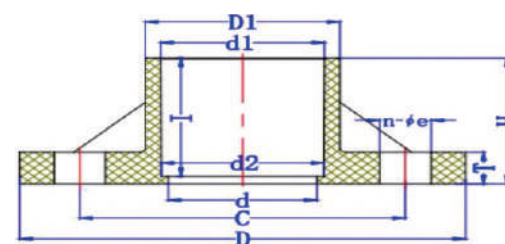


DN(mm) Noninal diameter	DN (mm) Nominal outer diameter	Figure size (mm)			
		D	d	L	Z
15	20	26	20	56	16
20	25	32	25	66	20
25	32	40	32	80	22
32	40	50	40	98	27
40	50	61	50	120	31
50	63	76	63	147	36
65	75	89	75	167	42
80	90	107	90	198	50
100	110	129	110	238	60
125	140	162	140	297	76
150	160	184	160	338	86
200	225	254	160	338	86

One Piece Flange (UPVC/CPVC) (DIN)



SIZE	D	D1	C	d	d1	d2	H	T	l	n-φ	e
20	95	32	65	15	20.3	20.1	35	14	16	4-15	
25	105	35	75	20	25.3	25.1	40	15	20	4-14	
32	125	43	85	25	32.3	32.1	45	16	24	4-18	
40	140	52	100	32	40.3	40.1	49	16	28	4-18	
50	150	59	110	43	50.3	50.1	59	18	32	4-18	
63	165	72	125	55	63.3	63.1	66	20	38	4-18	
75	185	89	145	65	75.3	75.1	70	22	47	4-18	
90	200	106	160	80	90.3	90.1	73	22	52.5	8-18	
110	220	132	180	100	110.4	110.1	93	22	63	8-18	
160	285	187	240	150	160.5	160.2	142	26	86	8-18	
200	343	228	298	180	200.6	200.2	160	30	130	8-22	
250	395	278	350	225	250.5	250.2	175	32	145	8-22	

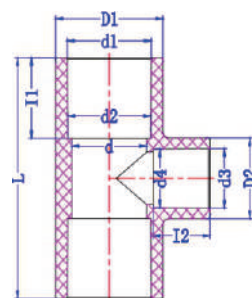


Reducing Coupling/Socket (DIN)



Nominal	Socket Type						Structural Diameter			
SIZE	d1	d2	l	d3	d4	l2	D	D2	d	L
25*20	25.3	25.1	19	20.3	20.1	16	33	27	23	42.5
32*20	32.3	32.1	22	20.3	20.1	16	40.5	27	29	48
32*25	32.3	32.1	22	25.3	25.1	19	40.5	33	29	48
40*20	40.3	40.1	26	20.3	20.1	16	49.1	27	37	55
40*25	40.3	40.1	26	25.3	25.1	19	49.1	33	37	55
40*32	40.3	40.1	26	32.3	32.1	22	49.1	40.5	37	55
50*20	50.3	50.1	32	20.3	20.1	16	61	27	47	64
50*25	50.3	50.1	32	25.3	25.1	19	61	33	47	64
50*32	50.3	50.1	32	32.3	32.1	22	61	40.5	47	64
50*40	50.3	50.1	32	40.3	40.1	26	61	49.1	47	64
63*20	63.3	63.1	38	20.3	20.1	16	75	27	60	68
63*25	63.3	63.1	38	25.3	25.1	19	75	33	60	68
63*32	63.3	63.1	38	32.3	32.1	22	75	40.5	60	68
63*40	63.3	63.1	38	40.3	40.1	26	75	49.1	60	68
63*50	63.3	63.1	38	50.3	50.1	32	75	61	60	68
75*32	75.3	75.1	44	32.3	32.1	22	87	40.5	72.1	83
75*40	75.3	75.1	44	40.3	40.1	26	87	49.1	72.1	83
75*50	75.3	75.1	44	50.3	50.1	32	87	61	72.1	83
75*63	75.3	75.1	44	63.3	63.1	38	87	75	72.1	83
90*50	90.3	90.1	51	50.3	50.1	32	104	61	87.1	100
90*63	90.3	90.1	51	63.3	63.1	38	104	75	87.1	100
90*75	90.3	90.1	51	75.3	75.1	44	104	87	87.1	106
110*50	110.4	110.2	61	50.3	50.1	32	125.4	61	106.1	110
110*63	110.4	110.2	61	63.3	63.1	38	125.4	75	106.1	110
110*75	110.4	110.2	61	75.3	75.1	44	125.4	87	106.1	110
110*90	110.4	110.2	61	90.3	90.1	51	125.4	104	106.1	110
140*90	140.5	140.2	77	90.3	90.1	51	162	104	87	140
140*110	140.5	140.2	77	110.4	110.2	61	162	125.4	106.1	150
160*90	160.5	160.2	86	90.3	90.1	51	186	104	185	165
160*110	160.5	160.2	86	110.4	110.2	61	186	125.4	185	175
160*140	160.5	160.2	86	140.5	140.2	77	186	162	154	180
225*110	225.8	225	117.5	110.4	110.2	61	240	125.4	106.1	230
225*160	225.8	225	117.5	160.5	160.2	86	240	186	154	255

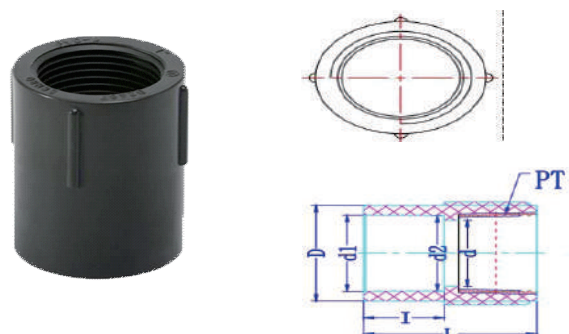
Reducing Tee (DIN)



Nominal	Socket Type						Structural Diameter			
SIZE	d1	d2	l	d3	d4	l2	D	D2	d	L
25*20	25.3	25.1	19	20.3	20.1	16	33	27	23	76.2
32*20	32.3	32.1	22	20.3	20.1	16	40.5	27	29	74.5
32*25	32.3	32.1	22	25.3	25.1	19	40.5	33	29	74.5
40*20	40.3	40.1	26	20.3	20.1	16	49.1	27	37	89.5
40*25	40.3	40.1	26	25.3	25.1	19	49.1	33	37	89.5
40*32	40.3	40.1	26	32.3	32.1	22	49.1	40.5	37	89.5
50*20	50.3	50.1	32	20.3	20.1	16	61	27	47	105.2
50*25	50.3	50.1	32	25.3	25.1	19	61	33	47	105.2
50*32	50.3	50.1	32	32.3	32.1	22	61	40.5	47	105.2
50*40	50.3	50.1	32	40.3	40.1	26	61	49.1	47	105.2
63*20	63.3	63.1	38	20.3	20.1	16	75	27	6	112.6
63*25	63.3	63.1	38	25.3	25.1	19	75	33	60	112.6
63*32	63.3	63.1	38	32.3	32.1	22	75	40.5	60	112.6
63*40	63.3	63.1	38	40.3	40.1	26	75	49.1	60	128
63*50	63.3	63.1	38	50.3	50.1	32	75	61	60	128
75*32	75.3	75.1	44	32.3	32.1	22	87	40.5	72.1	154.5
75*40	75.3	75.1	44	40.3	40.1	26	87	49.1	72.1	154.5
75*50	75.3	75.1	44	50.3	50.1	32	87	61	72.1	154.5
75*63	75.3	75.1	44	63.3	63.1	38	87	75	72.1	154.5
90*50	90.3	90.1	51	50.3	50.1	32	104	61	87.1	184
90*63	90.3	90.1	51	63.3	63.1	38	104	75	87.1	184
90*75	90.3	90.1	51	75.3	75.1	44	104	87	87.1	184
110*50	110.4	110.2	61	50.3	50.1	32	125.4	61	106.1	190
110*63	110.4	110.2	61	63.3	63.1	38	125.4	75	106.1	190
110*75	110.4	110.2	61	75.3	75.1	44	125.4	87	106.1	218
110*90	110.4	110.2	61	90.3	90.1	51	125.4	104	106.1	218
140*90	140.5	140.2	77	90.3	90.1	51	162	104	133	307
140*110	140.5	140.2	77	110.4	110.2	61	162	125.4	133	307
160*90	160.5	160.2	86	90.3	90.1	51	186	104	185	338
160*110	160.5	160.2	86	110.4	110.2	61	186	125.4	185	338
160*140	200.6	160.2	86	140.5	140.2	77	186	162	185	338
225*110	225.8	225	117.5	110.4	110.2	61	240	125.4	218	465
225*160	225.8	225	117.5	160.5	160.2	86	240	186	218	465

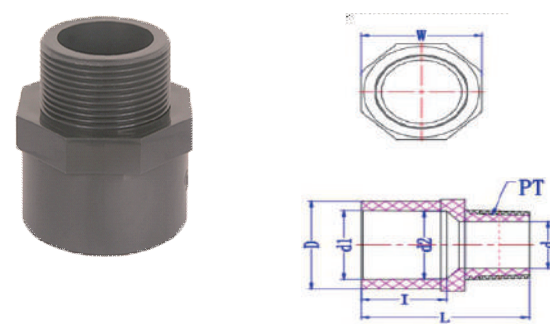


Female Adapter (DIN)



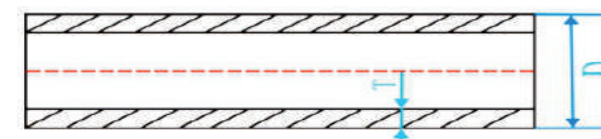
Nominal SIZE	Outside Dia D	Socket Type			Structural Diameter		
SIZE	D	d1	d2	L	d	L	PT
20*1/2"	27	20.3	20.1	16	13.2	37.6	14
25*3/4"	33	25.3	25.1	19	19	42.5	14
32*1"	40.5	32.3	32.1	22	24	48.3	11
40*1-1/4"	49.1	40.3	40.1	26	32	54.6	11
50*1-1/2"	61	50.3	50.1	32	38	60.6	11
63*2"	75	63.3	63.1	38	50	72.3	11

Male Adapter (DIN)



Nominal SIZE	Outside Dia D	Socket Type			Structural Diameter			
SIZE	D	d1	d2	L	w	d	L	PT
20*1/2"	27	20.3	20.1	16	30	13	38.5	14
25*3/4"	33	25.3	25.1	19	35	18	45	14
32*1"	40.5	32.3	32.1	22	45	23	56.8	11
40*1-1/4"	49.1	40.3	40.1	26	51	31	57.5	11
50*1-1/2"	61	50.3	50.1	32	64	37	67.5	11
63*2"	75	63.3	63.1	38	78	48	78	11

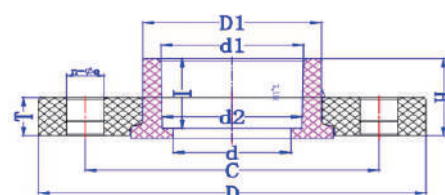
UPVC PIPE (ANSI SCH40 & SCH80) » Confirm to: ASTM D-1785



Nominal SIZE	D	Tolerance	SCH80		SCH40	
			T(mm)	Tolerance	T(mm)	Tolerance
1/2"	1/2"	±0.10	3.73	+0.51	2.77	+0.51
3/4"	3/4"	±0.10	3.91	+0.51	2.87	+0.51
1"	1"	±0.13	4.55	+0.53	3.38	+0.51
1-1/4"	1-1/4"	±0.13	4.85	+0.58	3.56	+0.51
1-1/2"	1-1/2"	±0.15	5.08	+0.61	3.68	+0.51
2"	2"	±0.15	5.54	+0.66	3.91	+0.51
2-1/2"	2-1/2"	±0.18	7.01	+0.84	5.16	+0.61
3"	3"	±0.20	7.62	+0.91	5.49	+0.66
4"	4"	±0.23	8.56	+1.02	6.02	+0.71
5"	5"	±0.25	9.52	+1.14	6.55	+0.79
6"	6"	±0.28	10.97	+1.32	7.11	+0.86
8"	8"	±0.38	12.7	+1.52	8.18	+0.99
10"	10"	±0.38	15.06	+1.80	9.27	+1.12

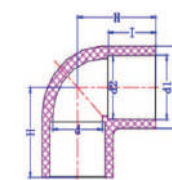
UPVC Fittings (ANSI SCH80) » Confirm to: ASTM D2467

One Piece Flange (UPVC/CPVC) (DIN)



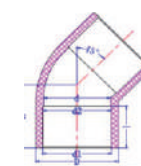
SIZE	D	D1	C	d	d1	d2	H	T	L	n-φe
20	95	30.6	65	15	20.3	20	26	14	21.6	4-14
25	105	36	75	20	25.3	25	29.5	15	23.4	4-14
32	115	43.8	85	25	32.3	32	32.2	16	28.7	4-14
40	140	52.6	100	32	40.3	40	38.5	16	31.7	4-18
50	150	60.7	110	40	50.3	50	40.5	18	35	4-18
63	165	74.8	125	51	63.3	63	45	20	38.2	4-18
75	185	89.6	145	63	75.3	75	51	24	45	4-18
90	200	106.5	160	77	90.3	90	55	26	48	8-18
110	220	133	180	102	110.4	110	64	28	57.5	8-18
140	250	160.1	210	125	140.6	140	82	28	67.2	8-18
160	285	187.1	240	156	160.7	160	87	32	76.8	8-22
225	343	247.1	298	200	225.8	225	116	35	103.2	8-22
280	406	305	362	250	280.8	280	150	42	127.6	12-23
315	483	344.6	432	307	316	315	190	52	172	12-23

90° Elbow SCH80



Nominal SIZE	Socket Type			Structural Diameter		
SIZE	d1	d2	L	D	d	H
1/2"	21.54	21.23	24	29.2	16	34.8
3/4"	26.87	26.57	27	34.9	22	40.9
1"	33.55	33.27	30	43	30	47
1-1/4"	42.42	42.04	34	52.3	38	54.25
1-1/2"	48.56	48.11	37	58.9	43	60.9
2"	60.63	60.17	40	71.9	54	70.1
2-1/2"	73.38	72.85	46.5	87.6	67	82.95
3"	89.31	88.7	50	104.75	82	93.6
4"	114.76	114.1	60	132	106	115.65
5"	141.81	141.1	76	162.3	133	150
6"	168.83	168	76.5	190.8	158	165.5
8"	219.84	218.7	102	245.3	200	225

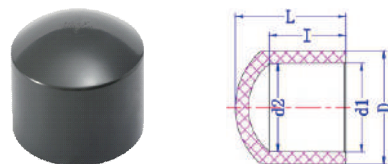
45° Elbow SCH80



Nominal SIZE	Socket Type			Structural Diameter		
SIZE	d1	d2	L	D	d	H
1/2"	21.54	21.23	24	29.2	16	30.2
3/4"	26.87	26.57	27	34.9	22	36.2
1"	33.55	33.27	30	43	30	41
1-1/4"	42.42	42.04	34	52.3	38	46.4
1-1/2"	48.56	48.11	37	58.9	43	52.3
2"	60.63	60.17	40	71.9	54	59.8
2-1/2"	73.38	72.85	46.5	87.6	67	70
3"	89.31	88.7	50	104.75	82	78.3
4"	114.76	114.1	60	132	106	96.3
5"	141.81	141.1	76	162.3	133	108
6"	168.83	168	76.5	190.8	158	132.3
8"	219.84	218.7	102	245.3	200	163.2

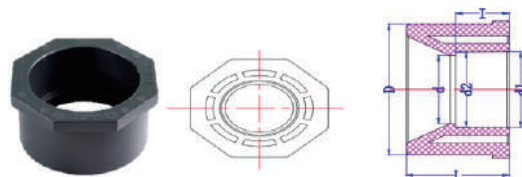


Cap SCH80



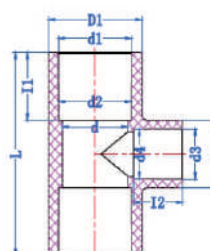
Nominal	Socket Type			Structural Diameter	
SIZE	d1	d2	I	d	L
1/2"	21.54	21.23	24	30	35
3/4"	26.75	26.57	27	35	36.5
1"	33.65	33.27	30	44	42
1-1/4"	42.28	42.04	34	54	46
1-1/2"	48.56	48.11	37	60	50.5
2"	60.63	60.17	40	73	55
2-1/2"	73.38	72.85	46.5	88	67.5
3"	89.31	88.7	50	105	71
4"	114.76	114.1	60	132	82

Reducing Bush SCH80



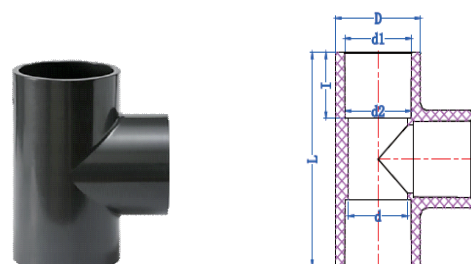
Nominal	Outside Dia	Socket Type		Structural Diameter		
SIZE	D	d1	d2	d1	I	L
3/4" * 1/2"	26.67	21.54	21.23	17	24	33
1" * 3/4"	33.4	26.87	26.57	22.5	27	36
1-1/4" * 1"	42.16	33.65	33.27	28	30	40
1-1/2" * 1-1/4"	48.26	42.42	42.04	38	34	45
2" * 1-1/2"	60.33	48.56	48.11	42	37	49
2-1/2" * 2"	73.03	60.63	60.17	54	41	55
3" * 2"	88.9	60.63	60.17	54	47	60
3" * 2-1/2"	88.9	73.38	72.85	66	47	60
4" * 2-1/2"	114.3	73.38	72.85	65	50	68
4" * 3"	114.3	89.31	88.7	80	50	68
5" * 4"	141.3	114.76	114.1	97.1	60	85
6" * 4"	168.28	114.76	114.1	97.1	60	92.5
6" * 5"	168.28	141.81	141	121	69	92.5
8" * 4"	219.08	114.76	114.1	97.1	60	120
8" * 6"	219.08	168.83	168	146	79	120

Reducing Tee SCH80



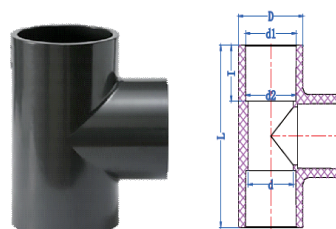
Nominal	Socket Type						Structural Diameter			
SIZE	d1	d2	I1	d3	d4	I2	D1	D2	d	L
3/4" * 1/2"	26.87	26.57	27	21.54	21.23	24	35	30	22	76.5
1" * 1/2"	33.65	33.27	30	21.54	21.23	24	44	30	30	87.7
1" * 3/4"	33.65	33.27	30	26.87	26.57	27	44	35	30	87.7
1-1/4" * 1/2"	42.42	42.04	34	21.54	21.23	24	54	30	38	100.5
1-1/4" * 3/4"	42.42	42.04	34	26.87	26.57	27	54	35	38	100.5
1-1/4" * 1"	42.42	42.04	34	33.65	33.27	30	54	44	38	100.5
1-1/2" * 1/2"	48.56	48.11	37	21.54	21.23	24	60	30	44	113.5
1-1/2" * 3/4"	48.56	48.11	37	26.87	26.57	27	60	35	44	113.5
1-1/2" * 1"	48.56	48.11	37	33.65	33.27	30	60	44	44	113.5
1-1/2" * 1-1/4"	48.56	48.11	37	42.42	42.04	34	60	54	44	113.5
2" * 1/2"	60.63	60.17	41	21.54	21.23	24	73	30	54	113
2" * 3/4"	60.63	60.17	41	26.87	26.57	27	73	35	54	113
2" * 1"	60.63	60.17	41	33.65	33.27	30	73	44	54	113
2" * 1-1/4"	60.63	60.17	41	42.42	42.04	34	73	54	54	129
2" * 1-1/2"	60.63	60.17	41	48.56	48.11	37	73	60	54	129
2-1/2" * 1"	73.38	72.85	46.5	33.65	33.27	30	88	44	67	154
2-1/2" * 1-1/4"	73.38	72.85	46.5	42.42	42.04	34	88	54	67	154
2-1/2" * 1-1/2"	73.38	72.85	46.5	48.56	48.11	37	88	60	67	154
2-1/2" * 2"	73.38	72.85	46.5	60.63	60.17	41	88	73	67	154
3" * 1-1/2"	89.31	88.7	50	48.56	48.11	37	105	60	82	172
3" * 2"	89.31	88.7	50	60.63	60.17	41	105	73	82	172
3" * 2-1/2"	89.31	88.7	50	73.38	72.85	46.5	105	88	82	172
4" * 1-1/2"	114.76	141.1	60	48.56	48.11	37	132	60	106	208
4" * 2"	114.76	141.1	60	60.63	60.17	41	132	73	106	208
4" * 2-1/2"	114.76	141.1	60	73.37	72.85	46.5	132	88	106	208
4" * 3"	114.76	141.1	60	89.31	88.7	50	132	105	106	208

Tee SCH80



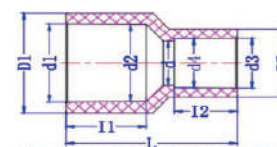
Nominal	Socket Type			Structural Diameter		
SIZE	d1	d2	I	D	d	L
1/2"	21.54	21.23	24	29.2	16	69.6
3/4"	26.87	26.57	27	34.9	22	82
1"	33.55	33.27	30	43	30	94.3
1-1/4"	42.42	42.04	34	52.3	38	108.5
1-1/2"	48.56	48.11	37	58.9	43	120.5
2"	60.63	60.17	40	71.9	54	140.7
2-1/2"	73.38	72.85	46.5	87.6	67	166.5
3"	89.31	88.7	50	104.75	82	188
4"	114.76	114.1	60	132	106	232
5"	141.81	141.1	76	162.3	133	298.5
6"	168.83	168	76.5	190.8	158	331
8"	219.84	218.7	102	245.3	200	432

Coupling/Socket SCH80



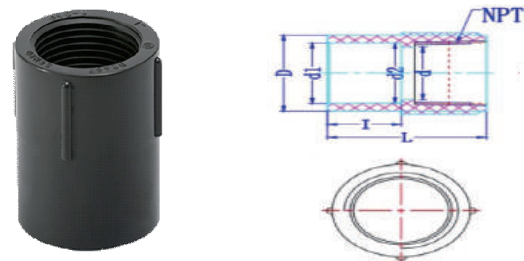
Nominal	Socket Type			Structural Diameter		
SIZE	d1	d2	I	D	d	L
1/2"	21.54	21.23	24	29.2	16	50
3/4"	26.87	26.57	27	34.9	22	55.8
1"	33.65	33.27	30	43	30	62.5
1-1/4"	42.42	42.04	34	52.3	38	68.8
1-1/2"	48.56	48.11	37	58.9	43	76
2"	60.63	60.17	40	71.9	54	83.4
2-1/2"	73.38	72.85	46.5	87.6	67	97
3"	89.31	88.7	50	104.75	82	104.2
4"	114.76	114.1	60	132	106	125.6
5"	141.81	141.1	69	162.3	133	158.3
6"	168.83	168	79	190.8	158	159.5
8"	219.84	218.7	105	245.3	200	210.5

Reducer SCH80



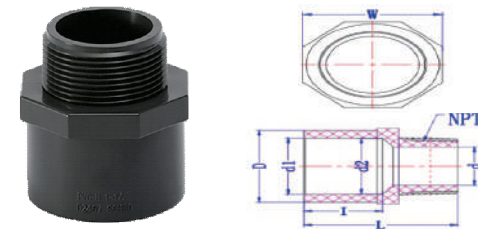
Nominal	Socket Type						Structural Diameter			
SIZE	d1	d2	I	d3	d4	I2	D1	D2	d	L
3/4" * 1/2"	26.87	26.57	27	21.54	21.23	24	35	30	22	56.5
1" * 1/2"	33.65	33.27	30	21.54	21.23	24	44	30	30	62.2
1" * 3/4"	33.65	33.27	30	26.87	26.57	27	44	35	30	62.4
1-1/4" * 1/2"	42.42	42.04	34	21.54	21.23	24	54	30	38	68
1-1/4" * 3/4"	42.42	42.04	34	26.87	26.57	27	54	35	38	68
1-1/4" * 1"	48.56	42.04	34	33.65	33.27	30	54	44	38	68
1-1/2" * 1/2"	48.56	48.11	37	21.54	21.23	24	60	30	44	74
1-1/2" * 3/4"	48.56	48.11	37	26.87	26.57	27	60	35	44	74
1-1/2" * 1"	48.56	48.11	37	33.65	33.27	30	60	44	44	75
1-1/2" * 1-1/4"	60.63	48.11	37	42.42	42.04	34	60	54	44	74.3
2" * 1/2"	60.63	60.17	41	21.54	21.23	24	73	30	54	76.8
2" * 3/4"	60.63	60.17	41	26.87	26.57	27	73	35	54	76.5
2" * 1"	60.63	60.17	41	33.65	33.27	30	73	44	54	76
2" * 1-1/4"	60.63	60.17	41	42.42	42.04	34	73	54	54	82
2" * 1-1/2"	60.63	60.17	41	48.56	48.11	37	73	60	54	82
2-1/2" * 1-1/4"	73.38	72.85	46.5	42.42	42.04	41	88	54	67	92
2-1/2" * 1-1/2"	73.38	72.85	46.5	48.56	48.11	37	88	60	67	92
2-1/2" * 2"	73.38	72.85	46.5	60.63	60.17	41	88	73	67	92
3" * 1-1/2"	89.31	88.7	50	45.86	48.11	37	105	60	82	102.4
3" * 2"	89.31	88.7	50	60.63	60.17	41	105	73	82	102
4" * 1-1/2"	114.76	141.1	60	48.56	48.11	37	132	60	106	106
4" * 2"	114.76	141.1	60	60.63	60.17	41	132	73	106	105.5
4" * 2-1/2"	114.76	141.1	60	73.38	72.85	46.5	132	88	106	115
4" * 3"	114.76	141.1	60	89.31	88.7	50	132	105	106	115.4

Female Adapter SCH80



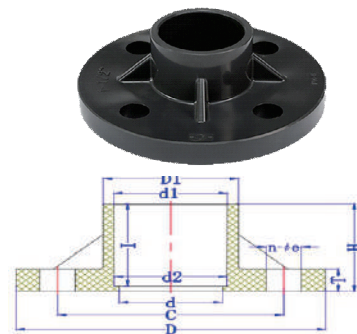
Nominal	Outside Dia	Socket Type			Structural Diameter		
SIZE	D	d1	d2	I	d	L	PT
1/2"	30	21.54	21.23	24	13.2	44	14
3/4"	35	26.87	26.57	27	19	50	14
1"	44	33.65	33.27	30	24	55	11.5
1-1/4"	54	42.42	42.04	34	32	62	11.5
1-1/2"	60	48.56	48.11	37	38	67	11.5
2"	73	60.63	60.11	40	50	73	11.5

Male Adapter SCH80



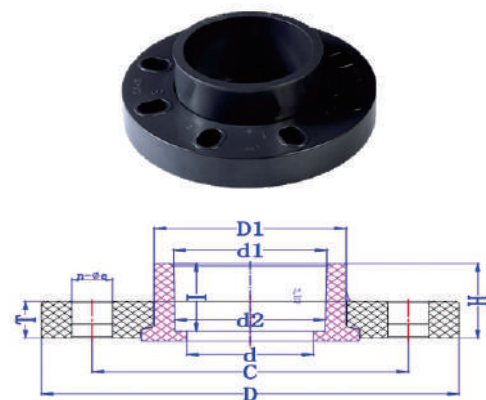
Nominal	Outside Dia	Socket Type			Structural Diameter		
SIZE	D	d1	d2	I	d	L	PT
1/2"	29.2	21.54	21.23	22.8	13.2	46.5	14
3/4"	34.9	26.87	26.57	25.9	19	49.4	14
1"	43	33.65	33.27	29.2	24	56.8	11.5
1-1/4"	52.3	42.42	42.04	32.25	32	58.5	11.5
1-1/2"	61	48.56	48.11	35.4	38	65.6	11.5
2"	75	60.63	60.11	38.6	50	70.3	11.5

One Piece Flange(UPVC) ANSI



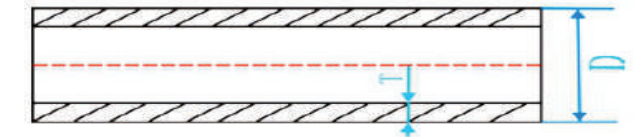
SIZE	D	D1	C	d	d1	d2	H	T	I	n-φ e
1/2"	89	32	60.45	15	21.54	21.23	35	14	30	4-16
3/4"	99	35	69.85	20	26.87	26.57	40	15	35	4-16
1"	108	43	79.25	25	33.65	33.27	45	16	40	4-16
1-1/4"	118	52	88.9	32	42.42	42.04	49	16	44	4-16
1-1/2"	127	59	98.55	43	48.46	48.11	59	18	35	4-16
2"	153	75	120.65	55	60.63	60.17	45	20	38.8	4-19
2-1/2"	178	89	139.7	65	73.38	72.85	70	22	44.5	4-19
3"	191	106	152.4	80	89.31	88.7	73	22	56	4-19
4"	230	132	190.5	100	114.76	114.1	93	22	57.3	8-19
5"	254	162	215.9	125	141.81	141	88	24	76	8-22
6"	279	187	241.3	150	168.83	168	91	26	76.2	8-22
8"	343	243	298.45	204	219.84	218.7	117	28	101.6	8-22

VAN STONE Flange(UPVC/CPVC) ANSI



SIZE	D	D1	C	d	d1	d2	H	T	I	n-φ e
1/2"	95	30.6	60.45	15	21.54	21.23	26	14	21.6	4-15
3/4"	105	36	69.85	20	26.87	26.57	29.5	15	23.4	4-15
1"	125	43.8	79.25	25	33.65	33.27	32.2	16	28.7	4-19
1-1/4"	140	52.6	88.9	32	42.42	42.04	38.5	16	31.7	4-19
1-1/2"	150	60.7	98.55	40	48.56	48.11	40.5	18	35	4-19
2"	165	74.8	120.6	51	60.63	60.17	45	20	38.2	4-19
2-1/2"	185	89.6	139.7	63	73.38	72.85	51	24	45	4-19
3"	200	106.5	152.4	77	89.31	88.7	55	26	48	8-19
4"	229	133	190.5	102	114.76	114.1	64	28	57.5	8-19
5"	254	160.1	215.9	125	141.81	141	88	28	68	8-22
6"	285	187.1	241.3	156	168.83	168	87	32	76.8	8-22
8"	343	247.1	298.45	204	219.84	218.7	116	35	104.2	8-22
10"	406	305	362	256	273.81	272.67	150	42	128.6	12-25
12"	483	344.6	432	307	324.61	323.47	190	52	172	12-25

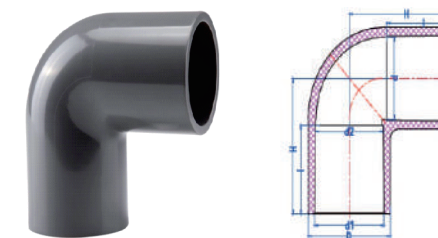
UPVC PIPE (JIS PN16) »



Nominal SIZE	D	Tolerance	T(mm)	Tolerance	Mpa
16A	22	±0.2	2.7	+0.6	1.8
20A	26	±0.2	2.7	+0.6	1.8
25A	32	±0.2	3.2	+0.8	1.8
32A	38	±0.2	3.2	+0.8	1.8
40A	48	±0.2	3.7	+0.8	1.8
50A	60	±0.2	4.1	+0.8	1.5
65A	76	±0.3	4.1	+0.8	1.5
75A	89	±0.3	5.5	+0.8	1.5
100A	114	±0.4	6.6	+1.0	1.5
150A	165	±0.5	9	+1.4	1.2
200A	216	±0.7	10.3	+1.4	1.2
250A	267	±0.9	12.7	+1.80	1.2
300A	318	±1.0	15.1	+2.2	1.2

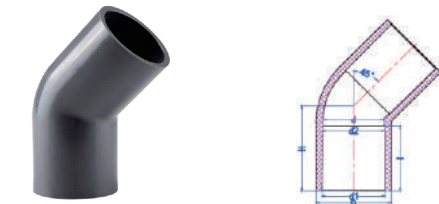
UPVC Fittings (JIS) » Confirm to: JIS K6743

UPVC 90° Elbow JIS



Nominal	Socket Type			Structural Diameter		
SIZE	d1	d2	I	D	d	H
16A	22.4	21.52	30	29.5	20	42
20A	26.45	25.42	35	34	24	50
25A	32.55	31.37	40	41	30	58
32A	38.6	37.31	44	47	36	65
40A	48.7	47.21	55	58	46	82
50A	60.8	59.1	63	72	58	96
65A	76.6	75.3	64	88	73.8	110
75A	89.6	88.29	64	106	86.8	120
100A	114.7	113.2	84	135	110.8	150

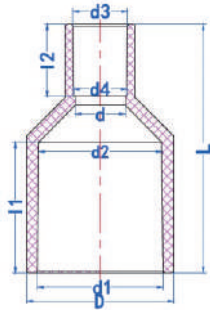
UPVC 45° Elbow JIS



Nominal	Socket Type			Structural Diameter		
SIZE	d1	d2	I	D	d	H
16A	22.4	21.52	30	29.5	19	38.2
20A	26.45	25.42	35	34	24	44
25A	32.55	31.37	40	41	30	50.2
32A	38.6	37.31	44	47	36	55.5
40A	48.7	47.21	55	58	46	71.5
50A	60.8	59.1	63	72	58	82
65A	76.6	75.3	64	88	71.5	86.3
75A	89.6	88.29	64	106	86.8	98
100A	114.7	113.2	84	135	108.8	118

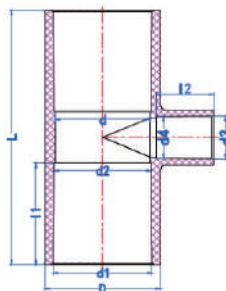


UPVC Reducing Socket JIS



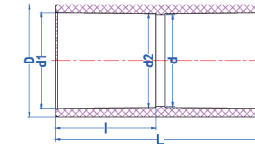
Nominal	Socket Type						Structural Diameter		
SIZE	d1	d2	I1	d3	d4	I2	D	d	L
20A*16A	26.45	25.42	35	22.4	21.52	30	34	20	73.5
25A*16A	32.55	31.37	40	22.4	21.52	30	41	20	79
25A*20A	32.55	31.37	40	26.45	25.42	35	41	24	83
32A*16A	38.6	37.31	44	22.4	21.52	30	47	20	89
32A*20A	38.6	37.31	44	26.45	25.42	35	47	24	88
32A*25A	38.6	37.31	44	26.45	25.42	35	47	30	93
40A*16A	48.7	47.21	55	22.4	21.52	30	58	20	103.5
40A*20A	48.7	47.21	55	26.45	25.42	35	58	24	105
40A*25A	48.7	47.21	55	32.55	31.37	40	58	30	106
40A*32A	48.7	47.21	55	38.6	37.31	44	58	36	108
50A*16A	60.8	59.1	63	22.4	21.52	30	72	20	120
50A*20A	60.8	59.1	63	26.45	25.42	35	72	24	120
50A*25A	60.8	59.1	63	32.55	31.37	40	72	30	122
50A*32A	60.8	59.1	63	38.6	37.31	44	72	36	122
50A*40A	60.8	59.1	63	48.7	47.21	55	72	46	132
65A*25A	76.6	75.3	64	32.55	31.37	40	88	30	124
65A*32A	76.6	75.3	64	38.6	37.31	44	88	36	128
65A*40A	76.6	75.3	64	48.7	47.21	55	88	46	135
65A*50A	76.6	75.3	64	60.8	59.1	63	88	58	145
75A*40A	89.6	88.29	64	48.7	47.21	55	106	46	135
75A*50A	89.6	88.29	64	60.8	59.1	63	106	58	150
75A*65A	89.6	88.29	64	76.6	75.3	64	106	73.8	145
100A*40A	114.7	113.2	84	48.7	47.21	55	135	46	160
100A*50A	114.7	113.2	84	60.8	59.1	63	135	58	183
100A*65A	114.7	113.2	84	76.6	75.3	64	135	88	179
100A*75A	114.7	113.2	84	89.6	88.29	64	135	86.8	179

UPVC Reducing Tee JIS



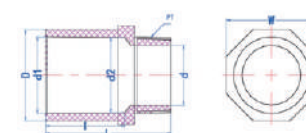
Nominal	Socket Type						Structural Diameter		
SIZE	d1	d2	I1	d3	d4	I2	D	d	L
20A*16A	26.45	25.42	35	22.4	21.52	30	34	23.5	90
25A*16A	32.55	31.37	40	22.4	21.52	30	41	30	105
25A*20A	32.55	31.37	40	26.45	25.42	35	41	30	105
32A*16A	38.6	37.31	44	22.4	21.52	30	47	36	118
32A*20A	38.6	37.31	44	26.45	25.42	35	47	36	118
32A*25A	38.6	37.31	44	26.45	25.42	35	47	36	118
40A*16A	48.7	47.21	55	22.4	21.52	30	58	45.5	146
40A*20A	48.7	47.21	55	26.45	25.42	35	58	45.5	146
40A*25A	48.7	47.21	55	32.55	31.37	40	58	45.5	146
40A*32A	48.7	47.21	55	38.6	37.31	44	58	45.5	146
50A*16A	60.8	59.1	63	22.4	21.52	30	70	57	156
50A*20A	60.8	59.1	63	26.45	25.42	35	70	57	156
50A*25A	60.8	59.1	63	32.55	31.37	40	70	57	156
50A*32A	60.8	59.1	63	38.6	37.31	44	70	57	156
50A*40A	60.8	59.1	63	48.7	47.21	55	70	57	156
65A*25A	76.6	75.3	64	32.55	31.37	40	88	73.8	183
65A*32A	76.6	75.3	64	38.6	37.31	44	88	73.8	183
65A*40A	76.6	75.3	64	48.7	47.21	55	88	73.8	183
65A*50A	76.6	75.3	64	60.8	59.1	63	88	73.8	183
75A*25A	89.6	88.29	64	32.55	31.37	40	102	86.8	198
75A*40A	89.6	88.29	64	48.7	47.21	55	102	86.8	198
75A*50A	89.6	88.29	64	60.8	59.1	63	102	86.8	198
75A*65A	89.6	88.29	64	76.6	75.3	64	102	86.8	198
100A*40A	114.7	113.2	84	48.7	47.21	55	129.4	110	253
100A*50A	114.7	113.2	84	60.8	59.1	63	129.4	110	253
100A*65A	114.7	113.2	84	76.6	75.3	64	129.4	110	253
100A*75A	114.7	113.2	84	89.6	88.29	64	129.4	110	253

UPVC Coupling/Socket JIS



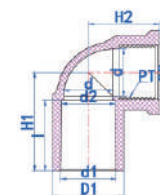
Nominal	Socket Type			Structural Diameter		
SIZE	d1	d2	I	D	d	L
16A	22.4	21.52	30	29.5	20	64
20A	26.45	25.42	35	34	24	74
25A	32.55	31.37	40	41	30	84
32A	38.6	37.31	44	47	36	92
40A	48.7	47.21	55	58	46	115
50A	60.8	59.1	63	72	58	132
65A	76.6	75.3	64	88	73	135
75A	89.6	88.29	64	106	86.8	136
100A	114.7	113.2	84	135	110.8	178

UPVC Male Adapter JIS



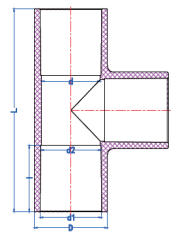
Nominal	Socket Type			Structural Diameter					
SIZE	d1	d2	I	D	d	L	W	PT	
16A*1/2"	22.4	21.52	30	29	13	53.5	29	14	
20A*3/4"	26.45	25.42	35	34	17	61.5	34	14	
25A*1"	32.55	31.37	40	41	22.5	69.5	41	11	
32A*1-1/4"	38.6	37.31	44	47	31	73	47	11	
40A*1-1/2"	48.7	47.21	55	58	36	86	58	11	
50A*2"	60.8	59.1	63	72	47	100	72	11	
65A*2-1/2"	76.6	75.3	64	88	62.5	116	88	11	

UPVC Female Elbow (JIS)



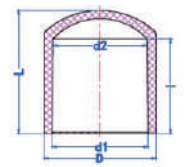
Nominal	Socket Type			Structural Diameter					
SIZE	d1	d2	I	D1	D2	d	H1	H2	PT
16A*1/2"	22.4	21.52	30	29.5	32.5	18	41	28	14
20A*3/4"	26.45	25.42	35	34	42	23.5	48.8	33.8	14
25A*1"	32.55	31.37	40	41	50	30	58	39	11

UPVC Tee JIS



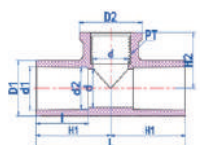
Nominal	Socket Type			Structural Diameter		
SIZE	d1	d2	I	D	d	L
16A	22.4	21.52	30	29.5	20	84
20A	26.45	25.42	35	34	24	100
25A	32.55	31.37	40	41	30	116
32A	38.6	37.31	44	47	36	130
40A	48.7	47.21	55	58	46	164
50A	60.8	59.1	63	72	58	192
65A	76.6	75.3	64	88	73.8	212
75A	89.6	88.29	64	102	86.8	225
100A	114.7	113.2	84	129.5	110.8	284

UPVC Cap (JIS)



Nominal	Socket Type			Structural Diameter	
SIZE	d1	d2	I	D	L
16A	22.4	21.52	30	29.5	42.8
20A	26.45	25.42	35	34	48
25A	32.55	31.37	40	41	54.6
32A	38.6	37.31	44	47	59
40A	48.7	47.21	55	58	71
50A	60.8	59.1	63	72	82
65A	76.6	75.3	64	88	81
75A	89.6	88.29	64	106	86
100A	114.7	113.2	84	135	112

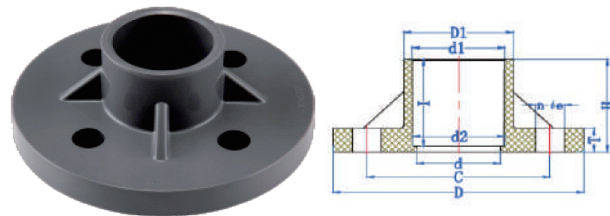
UPVC Female Elbow (JIS)



Nominal	Socket Type			Structural Diameter					
SIZE	d1	d2	I	D1	D2	d	H1	H2	PT
16A*1/2"	22.4	21.52	30	29.5	32.5	18	42	28	14
20A*3/4"	26.45	25.42	35	34	42	23.5	50	34	100
25A*1"	32.55	31.37	40	41	50	30	58	39	116



Flange (UPVC/CPVC) JIS



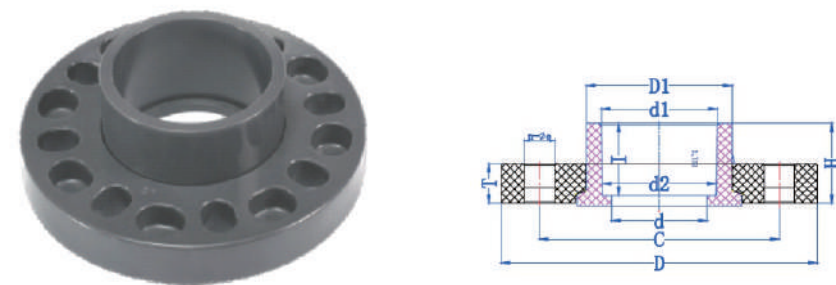
SIZE	D	D1	C	d	d1	d2	H	T	I	n-φe
16A	95	32	70	15	22.4	21.52	26	14	21.6	4-15
20A	105	35	75	20	26.45	25.42	29.5	15	23.4	4-15
25A	125	43	90	25	32.55	31.37	32.2	16	28.7	4-19
32A	140	52	100	32	38.43	37.31	38.5	16	31.7	4-19
40A	150	59	105	43	48.7	47.21	40.5	18	35	4-19
50A	165	72	120	55	60.8	59.1	45	20	38.2	4-19
65A	185	89	140	65	76.6	75.3	51	22	45	4-19
75A	200	106	150	80	89.6	88.29	55	22	48	8-19
100A	220	132	175	100	114.7	113.2	64	2	57.5	8-19
150A	285	187	240	150	166	164.7	87	32	76.8	8-23
200A	330	237	290	200	217	215.5	116	35	104.2	12-23
250A	395	294	355	250	268	266.3	150	42	128.6	12-25

UPVC Female Adapter (JIS)



Nominal	Socket Type			Structural Diameter				
SIZE	d1	d2	I	D1	D2	d	L	PT
16A*1/2"	22.4	21.52	30	29.5	32.5	18	49	14
20A*3/4"	26.45	25.42	35	34	42	23.5	58	14
25A*1"	32.55	31.37	40	41	50	30	66	11
32A*1-1/4"	38.6	37.31	44	47	55	36	71	11
40A*1-1/2"	48.7	47.21	55	58	63	46	83	11
50A*2"	60.8	59.1	63	72	77	58	94	11

VAN STONE Flange (UPVC/CPVC) JIS



SIZE	D	D1	C	d	d1	d2	H	T	I	n-φe
16A	95	30.6	70	15	22.4	21.52	26	14	21.6	4-15
20A	100	36	75	20	26.45	25.42	29.5	15	23.4	4-15
25A	125	43.8	90	25	32.55	31.37	32.2	16	28.7	4-19
32A	135	52.6	100	32	38.6	37.31	38.5	16	31.7	4-19
40A	140	60.7	105	40	48.7	47.21	40.5	18	35	4-19
50A	155	74.8	120	51	60.8	59.1	45	20	38.2	4-19
65A	175	89.6	140	63	76.6	75.3	51	24	45	4-19
75A	185	106.5	150	77	89.6	88.29	55	26	48	8-19
100A	210	133	175	102	114.7	113.2	64	28	57.5	8-19
125A	250	160.1	210	125	140.85	1	8	28	67.2	8-23
150A	280	187.1	240	156	166	164.7	87	32	76.8	8-23
200A	330	237.1	290	204	217	215.5	116	35	104.2	12-23
250A	400	293.8	355	256	268	266.3	150	42	128.6	12-25
315A	445	344.6	400	307	319	317.3	190	52	172	16-25

Clear PVC Pipe (DIN PN16) »



Outside Dimension

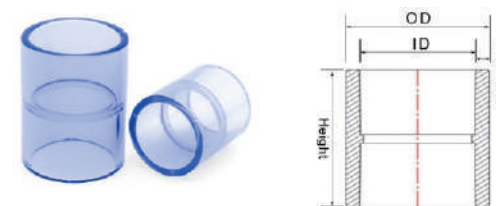
Mean outside diameter comparisons (MM)				
Size	ASTM D-1784	BS-3505	DIN-8061	JIS K-6741
1/2"	21.34	21.34	20	21.34
3/4"	26.67	26.67	25	26.67
1"	33.4	33.4	32	33.4
1-1/4"	42.16	42.16	40	38
1-1/2"	48.26	48.26	50	48.26
2"	60.33	60.33	63	60.33
2-1/2"	73.03	75	75	76
3"	88.9	88.9	90	88.9
4"	114.3	114.3	110	114.3
5"	141.3	140	140	140
6"	166.28	166.28	160	165
8"	219.08	219.08	200	216

Wall Thicknesses:

Size	ASTM D-1784	BS-3505	DIN-8061	JIS K-6741
1/2"	3.73	1.7	1.5	2.7
3/4"	3.91	1.9	1.9	2.7
1"	4.54	2.2	2.4	3.1
1-1/4"	4.85	2.7	3	3.1
1-1/2"	5.08	3.1	3.7	3.6
2"	5.54	3.9	4.7	4.1
2-1/2"	7.01	4.8	5.6	4.1
3"	7.62	5.7	6.7	5.5
4"	8.56	7.3	8.2	6.6
5"	9.53	9	10.4	8.9
6"	10.97	10.8	11.9	8.9
8"	12.7	12.6	14.9	10.3

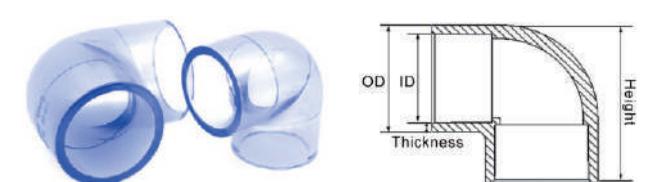
UPVC Transparent Fittings (DIN/ANSI) »

PVC Clear Coupling (DIN/ANSI)



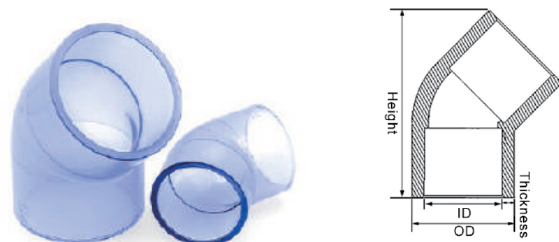
Size	DIN ID /mm	ANSI ID /mm	OD /mm	Height /mm	Thickness /mm
DN15/1/2"	16	18	27.1	34.4	3.57
	20	21.2			
DN20/3/4"	25	26.7	32.4	39.1	3.73
DN25/1"	32	33.4	41.4	46.6	4.72
DN32/1-1/4"	40	42.3	50.1	54.7	5.01
DN40/1-1/2"	50	48.3	61.4	64.5	5.73
DN50/2"	63	60.3	75.4	77.3	6.21
DN65/2-1/2"	75	73	88.7	90.4	6.88
DN80/3"	90	88.9	104.8	107.2	7.40
DN100/4"	110	114.3	127	128.5	8.50

PVC Clear 90° Elbow (DIN/ANSI)



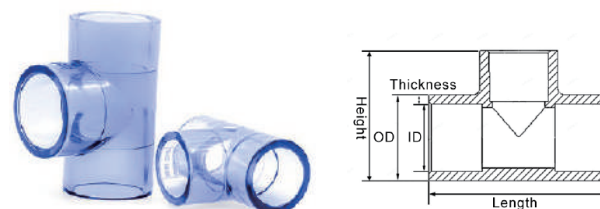
Size	DIN ID /mm	ANSI ID /mm	OD /mm	Height /mm	Thickness /mm
DN15/1/2"	16	18	25.9	41.1	2.98
	20	21.2			
DN20/3/4"	25	26.7	31.6	48.8	3.30
DN25/1"	32	33.4	39.4	60.1	3.70
DN32/1-1/4"	40	42.3	48.9	72.7	4.46
DN40/1-1/2"	50	48.3	59.4	87.9	4.72
DN50/2"	63	60.3	75.4	108.5	6.22
DN65/2-1/2"	75	73	87.8	126.8	6.43
DN80/3"	90	88.9	104.6	150.1	7.32
DN100/4"	110	114.3	126.5	177	8.25

PVC Clear 45° Elbow (DIN/ANSI)



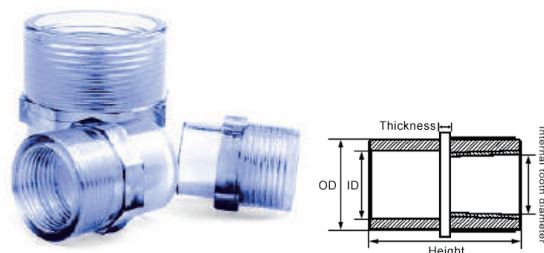
Size	DIN ID /mm	ANSI ID /mm	OD /mm	Height /mm	Thickness /mm
DN15/1/2"	20	21.2	24.5	47.1	2.29
DN20/3/4"	25	26.7	30.1	54.8	2.54
DN25/1"	32	33.4	37.2	65.7	2.63
DN32/1-1/4"	40	42.3	45.9	79.4	2.96
DN40/1-1/2"	50	48.3	56.5	94.1	3.28
DN50/2"	63	60.3	70.4	117.6	3.73
DN65/2-1/2"	75	73	83.1	140.7	4.02
DN80/3"	90	88.9	99.5	160.5	4.79
DN100/4"	110	141.3	153.6	235	6.82

PVC Clear Equal Tee (DIN/ANSI)



Size	DIN ID /mm	ANSI ID /mm	OD /mm	Height /mm	Length /mm	Thickness /mm
DN15/1/2"	16	18	25.8	41.2	56.2	2.92
	20	21.2				
DN20/3/4"	25	26.7	31.6	48.9	66.1	3.31
DN25/1"	32	33.4	39.6	60.3	80.2	3.8
DN32/1-1/4"	40	42.3	49.5	73.2	96.1	4.76
DN40/1-1/2"	50	48.3	59.8	88.1	116.1	4.9
DN50/2"	63	60.3	75.6	109.1	142.1	6.32
DN65/2-1/2"	75	73	88.6	127.4	168.8	6.83
DN80/3"	90	88.9	104.9	150.8	196.1	7.49
DN100/4"	110	114.3	127.1	181	234	8.59

PVC Clear Female Adaptor (DIN/ANSI)



Size	DIN ID /mm	ANSI ID /mm	OD /mm	Thickness /mm	Height /mm	Socket Thickness /mm
DN15/1/2"	20	21.2	26.5	7.74	32.9	3.08
DN20/3/4"	25	26.7	32.1	7.98	36.6	3.37
DN25/1"	32	33.4	41.2	9.76	41.9	4.29
DN32/1-1/4"	40	42.3	49.9	10.9	48.8	4.64
DN40/1-1/2"	50	48.3	62.2	11.8	53.9	5.83
DN50/2"	63	60.3	65.9	13.1	64.9	6.2
DN65/2-1/2"	75	73	89.1	13.9	75.6	6.76
DN80/3"	90	88.9	105.4	15.1	85.9	7.36
DN100/4"	110	141.3	127.1	15.8	102.1	8.05

PVC Clear Male Adaptor (DIN/ANSI)



Size	DIN ID /mm	ANSI ID /mm	OD /mm	Width /mm	Height /mm	Socket Depth
DN15/1/2"	20	21.2	26.4	28.3	34.6	12.1
DN20/3/4"	25	26.7	32.3	34.7	36.7	14.5
DN25/1"	32	33.4	41.3	42.1	45.6	17.1
DN32/1-1/4"	40	42.3	49.6	51.8	50.4	19.3
DN40/1-1/2"	50	48.3	62.4	62.7	57.1	25.1
DN50/2"	63	60.3	75.7	77.7	69.9	32.1
DN65/2-1/2"	75	73	89.2	90.7	80.4	37.5
DN80/3"	90	88.9	105.6	105.6	91.2	44.1
DN100/4"	110	114.3	127.2	130.3	108.9	54.3

PVC Clear One Piece Flange (DIN/ANSI)



Size	DIN ID /mm	ANSI ID /mm	OD /mm	Thickness /mm	Height /mm	Hole Diameter /mm
DN15/1/2"	20	21.2	31.36	13.6	33.87	14
DN20/3/4"	25	26.7	35.93	14.52	40.97	15
DN25/1"	32	33.4	42.47	14.13	43.47	14
DN32/1-1/4"	40	42.3	52.57	15.23	45.85	19
DN40/1-1/2"	50	48.3	62.26	15.57	60.17	19
DN50/2"	63	60.3	75.56	17.91	67.38	19
DN65/2-1/2"	75	73	90.54	18.75	67.43	18
DN80/3"	90	88.9	105.85	18.25	76.43	18
DN100/4"	110	141.3	124.18	16.4	75.14	20

PVC Clear Y Tee (DIN/ANSI)



Size	DIN ID /mm	ANSI ID /mm	OD /mm	Height /mm	Socket Depth /mm
DN15	20	21.2	26.12	86.61	28.05
DN20	25	26.7	32.4	103.69	34.38
DN25	32	33.4	40.24	121.81	36.99
DN32	40	42.3	48.93	147.38	44.69
DN40	50	48.3	59.79	172.05	49.76
DN50	63	60.3	75.56	181.36	45.89
DN65	75	73	88.56	207	51.6
DN80	90	88.9	105.53	235	56.76
DN100	110	141.3	133.26	288	66.26

PVC Clear Y Strainer »



Size: 1/2" - 4"
 Joint: Flange (ANSI/DIN)
 Working Pressure: 50PSI
 Application: Water & Wastewater Treatment, Chemical Processing, Food & Beverage, Swimming Pools & Water Parks and so on

PVC Clear Union (DIN/ANSI)



Size	DIN ID /mm	ANSI ID /mm	Width /mm	Height /mm	Socket OD /mm	Socket Thickness /mm
DN15/1/2"	20	21.2	52.6	48.8	28.6	4.32
DN20/3/4"	25	26.7	59.6	62.4	33.7	4.38
DN25/1"	32	33.4	71.7	68.8	42.1	5.02
DN32/1-1/4"	40	42.3	82.4	77.4	50.8	5.44
DN40/1-1/2"	50	48.3	95.9	91.8	61.1	5.50
DN50/2"	63	60.3	116.6	94.3	75.1	6.07
DN65/2-1/2"	75	73	145.9	120.5	89.3	7.16
DN80/3"	90	88.9	167.5	152.5	108.6	8.34
DN100/4"	110	114.3	192.7	174.8	129.7	9.85

PVC Clear End Cap (DIN/ANSI)

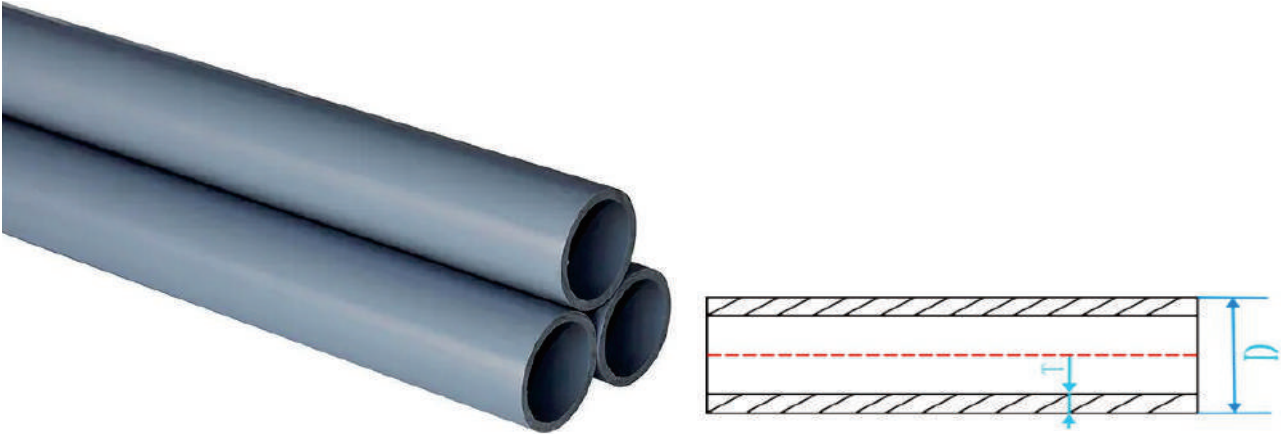


Size	DIN ID /mm	ANSI ID /mm	OD /mm	Height /mm	Thickness /mm
DN15/1/2"	20	21.2	26.7	22.1	3.36
DN20/3/4"	25	26.7	32.1	26.2	3.57
DN25/1"	32	33.4	40.9	30.8	4.45
DN32/1-1/4"	40	42.3	49.9	37.4	4.98
DN40/1-1/2"	50	48.3	62.1	46.1	6.04
DN50/2"	63	60.3	75.4	54.1	6.23
DN65/2-1/2"	75	73	88.2	64.2	6.61
DN80/3"	90	88.9	104.7	73.3	7.36
DN100/4"	110	114.3	126.9	83.8	8.46



CPVC PIPE (DIN PN16) »

Confirm to: GB/T4219.1-2008 ISO 15493-2003

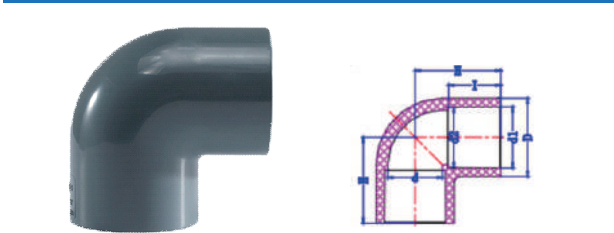


Pipe for Industrial

Nominal SIZE	D	Tolerance	T(mm)	Tolerance	Mpa
20	20	+0.2	2.3	+0.5	1.6
25	25	+0.2	2.8	+0.5	1.6
32	32	+0.2	3.6	+0.6	1.6
40	40	+0.2	3	+0.5	1
50	50	+0.2	3.7	+0.6	1
63	63	+0.3	4.7	+0.7	1
75	75	+0.3	5.5	+0.8	1
90	90	+0.3	6.6	+0.9	1
110	110	+0.4	8.1	+1.1	1
140	140	+0.5	10.3	+1.3	1
160	160	+0.5	11.8	+1.4	1
200	200	+0.7	14.7	+1.7	1
250	250	+0.8	18.4	+1.9	1
315	315	+1.0	23.2	+2.6	1

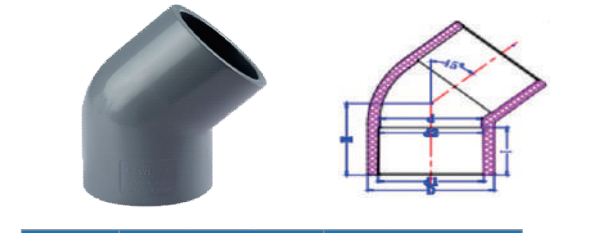
CPVC Fittings (DIN PN16) » Confirm to: ISO 15493-2003

90° Elbow (DIN)



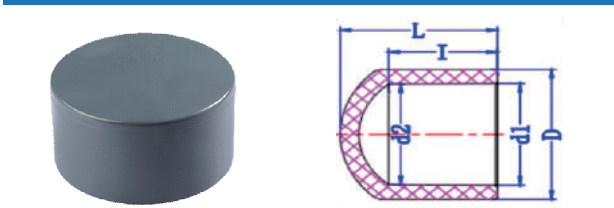
Nominal	Socket Type			Structural Diameter		
SIZE	d1	d2	l	D	d	H
20	20.3	20.1	16	27	17	28.5
25	25.3	25.1	19	33	23	34
32	32.3	32.1	22	41	29	40.5
40	40.3	40.1	26	50	37	48.5
50	50.3	50.1	32	61	47	57
63	63.3	63.1	38	75	60	71
75	75.3	75.1	44	92	72	83
90	90.3	90.1	51	110.6	87.1	98
110	110.4	110.1	61	127	106.1	118
140	140.5	140.2	77	162	133	147
160	160.5	160.2	86	186	154	166
225	225.8	225	117.5	261	218	240
280	281	280	145	323	271	285
315	316	315	162.5	363	306	320.5

45° Elbow (DIN)



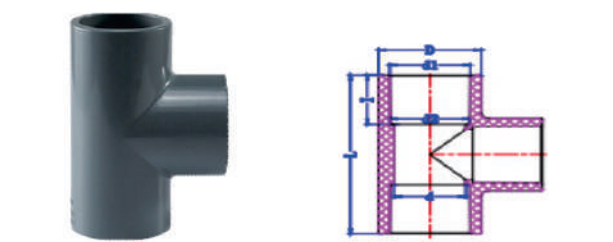
Nominal	Socket Type			Structural Diameter		
SIZE	d1	d2	l	D	d	H
20	20.3	20.1	16	27	17	24
25	25.3	25.1	19	33	23	28.5
32	32.3	32.1	22	41	29	33
40	40.3	40.1	26	50	37	39
50	50.3	50.1	32	61	47	48
63	63.3	63.1	38	75	60	57
75	75.3	75.1	44	92	72	66
90	90.3	90.1	51	110.6	87.1	71.5
110	110.4	110.1	61	127	106.1	82.5
140	140.5	140.2	77	162	133	108
160	160.5	160.2	86	186	154	120.5
225	225.8	225	117.5	261	218	165
280	281	280	145	323	271	203
315	316	315	162.5	363	306	228

Cap (DIN)



Nominal	Socket Type			Structural	
SIZE	d1	d2	l	d	L
20	20.3	20.1	16	27	28.5
25	25.3	25.1	20	33	29.5
32	32.3	32.1	24	40.5	35.5
40	40.3	40.1	28	49.1	40
50	50.3	50.1	32	61	46.5
63	63.3	63.1	38	75	54.5
75	75.3	75.1	47	87	66.5
90	90.3	90.1	52.5	104	74.5
110	110.4	110.1	63	125.4	85.5
160	160.5	160.2	86	186	105
225	225.8	225	117.5	261	155

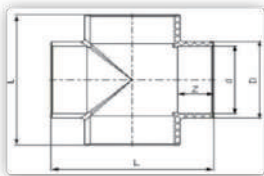
Tee (DIN)



Nominal	Socket Type			Structural Diameter		
SIZE	d1	d2	l	D	d	L
20	20.3	20.1	16	27	17	57.8
25	25.3	25.1	19	33	23	68
32	32.3	32.1	22	40.5	29	83
40	40.3	40.1	26	49.1	37	97.5
50	50.3	50.1	32	61	47	115
63	63.3	63.1	38	75	60	142.6
75	75.3	75.1	44	87	72	166.7
90	90.3	90.1	51	104	87.1	196.5
110	110.4	110.1	61	125.4	106.1	236.5
140	140.5	140.2	77	162	133	298.5
160	160.5	160.2	86	186	154	338
225	225.8	225	117.5	261	218	465
280	281	280	145	323	271	592
315	316	315	162.5	363	306	665

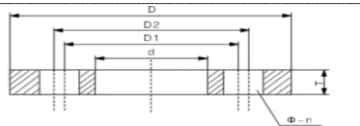


CPVC CROSS 4 WAY PIPE FITTINGS



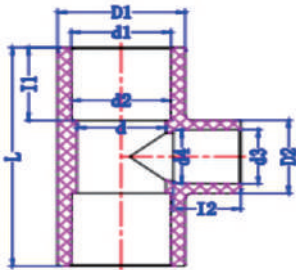
DN(mm) Noninal diameter	DN (mm) Nominal outer diameter	Figure size (mm)			
		d	D	L	Z
15	20	20	26	56	16
20	25	25	32	66	20
25	32	32	40	80	22
32	40	40	50	98	27
40	50	50	61	120	31
50	63	63	76	147	36
65	75	75	89	167	42
80	90	90	107	198	50
100	110	110	129	238	60
125	140	140	162	297	76
150	160	160	184	338	86
200	225	160	254	338	86

One Piece Flange (/CPVC) (DIN)



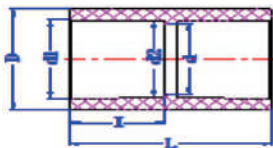
DN	D	d	D1	D2	T	n- ϕ e
25	130	41	80	90	16	4-16
32	144	49	89	100	18	4-19
40	154	62	99	110	18	4-19
50	168	76	120	124	19	4-19
65	190	89	140	144	19	4-19
80	205	106	152	159	21	4-19
100	236	127	181	190	21	8-19
125	265	140	214	216	26	8-22
150	290	178	240	240	26	8-23
200	346	246	295	297	31	8-23

Reducing Tee (DIN)



Nominal SIZE	Socket Type						Structural Diameter			
	d1	d2	l	d3	d4	l2	D	D2	d	L
25*20	25.3	25.1	19	20.3	20.1	16	33	27	23	76.2
32*20	32.3	32.1	22	20.3	20.1	16	40.5	27	29	74.5
32*25	32.3	32.1	22	25.3	25.1	19	40.5	33	29	74.5
40*20	40.3	40.1	26	20.3	20.1	16	49.1	27	37	89.5
40*25	40.3	40.1	26	25.3	25.1	19	49.1	33	37	89.5
40*32	40.3	40.1	26	32.3	32.1	22	49.1	40.5	37	89.5
50*20	50.3	50.1	32	20.3	20.1	16	61	27	47	105.2
50*25	50.3	50.1	32	25.3	25.1	19	61	33	47	105.2
50*32	50.3	50.1	32	32.3	32.1	22	61	40.5	47	105.2
50*40	50.3	50.1	32	40.3	40.1	26	61	49.1	47	105.2
63*20	63.3	63.1	38	20.3	20.1	16	75	27	6	112.6
63*25	63.3	63.1	38	25.3	25.1	19	75	33	60	112.6
63*32	63.3	63.1	38	32.3	32.1	22	75	40.5	60	112.6
63*40	63.3	63.1	38	40.3	40.1	26	75	49.1	60	128
63*50	63.3	63.1	38	50.3	50.1	50.3	75	61	60	128
75*32	75.3	75.1	44	32.3	32.1	22	8	40.5	72.1	154.5
75*40	75.3	75.1	44	40.3	40.1	26	87	49.1	72.1	154.5
75*50	75.3	75.1	44	50.3	50.1	32	87	61	72.1	154.5
75*63	75.3	75.1	44	63.3	63.1	38	87	75	72.1	154.5
90*50	90.3	90.1	51	50.3	50.1	32	104	61	87.1	184
90*63	90.3	90.1	51	63.3	63.1	38	104	75	87.1	184
90*75	90.3	90.1	51	75.3	75.1	44	104	87	87.1	184
110*50	110.4	110.2	61	50.3	50.3	32	125.4	61	106.1	190
110*63	110.4	110.2	61	63.3	63.1	38	125.4	75	106.1	190
110*75	110.4	110.2	61	75.3	75.1	44	125.4	87	106.1	218
110*90	110.4	110.2	61	90.3	90.1	51	125.4	104	106.1	218
140*90	140.5	140.2	77	90.3	90.1	51	162	104	133	307
140*110	140.5	140.2	77	110.4	110.2	61	162	125.4	133	307
160*90	160.5	160.2	86	90.3	90.1	51	186	104	185	338
160*110	160.5	160.2	86	110.4	110.2	61	186	125.4	185	338
160*140	200.6	160.2	86	140.5	140.2	77	186	162	185	338
225*110	225.8	225	117.5	110.4	110.2	61	240	125.4	218	465
225*160	225.8	225	117.5	160.5	160.2	86	240	186	218	465

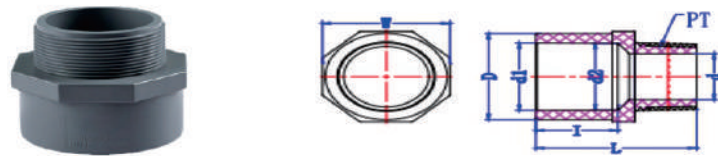
Coupling/Socket (DIN)



Nominal SIZE	Socket Type			Structural Diameter		
	d1	d2	l	D	d	L
20	20.3	20.1	16	27	17	37
25	25.3	25.1	19	33	23	42
32	32.3	32.1	22	40.5	29	49
40	40.3	40.1	26	49.1	37	57
50	50.3	50.1	32	61	47	68
63	63.3	63.1	38	75	60	82
75	75.3	75.1	44	87	72	95
90	90.3	90.1	51	104	87.1	108
110	110.4	110.1	61	125.4	106.1	130
140	140.5	140.2	77	162	133	162
160	160.5	160.2	86	186	154	180
200	200.6	200.2	130	240	185	268
225	225.7	225.3	130	261	218	268
280	281	280	145	323	271	300
315	316	315	162.5	363	306	335

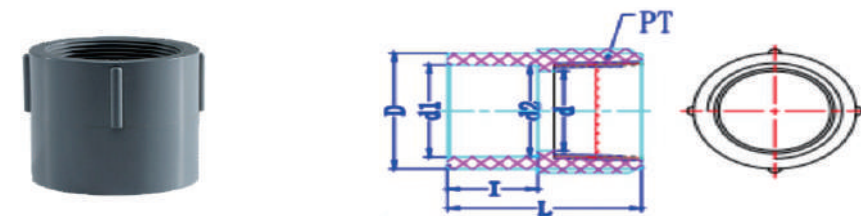


Male Adapter (DIN)



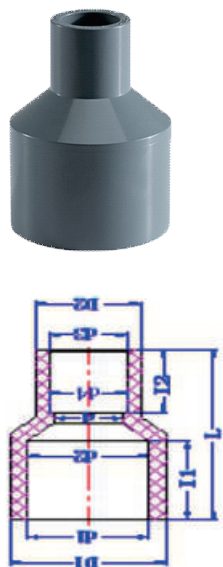
Nominal	Outside Dia	Socket Type			Structural Diameter			
SIZE	D	d1	d2	l	w	d	L	PT
20*1/2"	27	20.3	20.1	16	30	13	38.5	14
25*3/4"	33	25.3	25.1	19	35	18	45	14
32*1"	40.5	32.3	32.1	22	45	23	56.8	11
40*1-1/4"	49.1	40.3	40.1	26	51	31	57.5	11
50*1-1/2"	61	50.3	50.1	32	64	37	67.5	11
63*2"	75	63.3	63.1	38	78	48	78	11

Female Adapter (DIN)



Nominal	Outside Dia	Socket Type			Structural Diameter		
SIZE	D	d1	d2	l	d	L	PT
20*1/2"	27	20.3	20.1	16	13.2	37.6	14
25*3/4"	33	25.3	25.1	19	19	42.5	14
32*1"	40.5	32.3	32.1	22	24	48.3	11
40*1-1/4"	49.1	40.3	40.1	26	32	54.6	11
50*1-1/2"	61	50.3	50.1	32	38	60.6	11
63*2"	75	63.3	63.1	38	50	72.3	11

Reducing Coupling/Socket (DIN)



Nominal	Socket Type						Structural Diameter			
SIZE	d1	d2	l	d3	d4	l2	D	D2	d	L
25*20	25.3	25.1	19	20.3	20.1	16	33	27	23	42.5
32*20	32.3	32.1	22	20.3	20.1	16	40.5	27	29	48
32*25	32.3	32.1	22	25.3	25.1	19	40.5	33	29	48
40*20	40.3	40.1	26	20.3	20.1	16	49.1	27	37	55
40*25	40.3	40.1	26	25.3	25.1	19	49.1	33	37	55
40*32	40.3	40.1	26	32.3	32.1	22	49.1	40.5	37	55
50*20	50.3	50.1	32	20.3	20.1	16	61	27	47	64
50*25	50.3	50.1	32	25.3	25.1	19	61	33	47	64
50*32	50.3	50.1	32	32.3	32.1	22	61	40.5	47	64
50*40	50.3	50.1	32	40.3	40.1	26	61	49.1	47	64
63*20	63.3	63.1	38	20.3	20.1	16	75	27	60	68
63*25	63.3	63.1	38	25.3	25.1	19	75	33	60	68
63*32	63.3	63.1	38	32.3	32.1	22	75	40.5	60	68
63*40	63.3	63.1	38	40.3	40.1	26	75	49.1	60	77
63*50	63.3	63.1	38	50.3	50.1	50.3	75	61	60	77
75*50	75.3	75.1	44	50.3	50.1	32	87	61	72.1	83
75*63	75.3	75.1	44	63.3	63.1	38	87	75	72.1	92
90*50	90.3	90.1	51	50.3	50.1	32	104	61	87.1	100
90*63	90.3	90.1	51	63.3	63.1	38	104	75	87.1	100
90*75	90.3	90.1	51	75.3	75.1	44	104	87	87.1	106
110*50	110.4	110.2	61	50.3	50.3	32	125.4	61	106.1	110
110*63	110.4	110.2	61	63.3	63.1	38	125.4	75	106.1	110
110*75	110.4	110.2	61	75.3	75.1	44	125.4	87	106.1	125
110*90	110.4	110.2	61	90.3	90.1	51	125.4	104	106.1	124.5
140*90	140.5	140.2	77	90.3	90.1	51	162	104	87	140
140*10	140.5	140.2	77	110.4	110.2	61	162	125.4	106.1	150
160*90	160.5	160.2	86	90.3	90.1	51	186	104	185	165
160*110	160.5	160.2	86	110.4	110.2	61	186	125.4	185	175
160*140	160.5	160.2	86	140.5	140.2	77	186	162	154	180
225*110	200.6	200.2	130	110.4	110.2	61	240	125.4	106.1	230
225*160	200.6	200.2	130	160.5	160.2	86	240	186	154	255

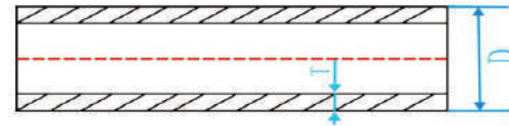
One Piece Flange (/CPVC) (DIN)



SIZE	D	D1	C	d	d1	d2	H	T	l	n-φe
20	95	32	65	15	20.3	20.1	35	14	16	4-15
25	105	35	75	20	25.3	25.1	40	15	20	4-14
32	125	43	85	25	32.3	32.1	45	16	24	4-18
40	140	52	100	32	40.3	40.1	49	16	28	4-18
50	150	59	110	43	50.3	50.1	59	18	32	4-18
63	165	72	125	55	63.3	63.1	66	20	38	4-18
75	185	89	145	65	75.3	75.1	70	22	47	4-18
90	200	106	160	80	90.3	90.1	73	22	52.5	8-18
110	220	132	180	100	110.4	110.1	93	22	63	8-18
160	285	187	240	150	160.5	160.2	142	26	86	8-18
200	343	228	298	180	200.6	200.2	160	30	130	8-22
250	395	278	350	225	250.5	250.2	175	32	145	8-22



CPVC PIPE(ASTM D2846) »

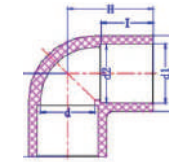


Nominal SIZE	D	Tolerance	SCH80		SCH40	
			T(mm)	Tolerance	T(mm)	Tolerance
1/2"	1/2"	±0.10	3.73	+0.51	2.77	+0.51
3/4"	3/4"	±0.10	3.91	+0.51	2.87	+0.51
1"	1"	±0.13	4.55	+0.53	3.38	+0.51
1-1/4"	1-1/4"	±0.13	4.85	+0.58	3.56	+0.51
1-1/2"	1-1/2"	±0.15	5.08	+0.61	3.68	+0.51
2"	2"	±0.15	5.54	+0.66	3.91	+0.51
2-1/2"	2-1/2"	±0.18	7.01	+0.84	5.16	+0.61
3"	3"	±0.20	7.62	+0.91	5.49	+0.66
4"	4"	±0.23	8.56	+1.02	6.02	+0.71
5"	5"	±0.25	9.52	+1.14	6.55	+0.79
6"	6"	±0.28	10.97	+1.32	7.11	+0.86
8"	8"	±0.38	12.7	+1.52	8.18	+0.99
10"	10"	±0.38	15.06	+1.80	9.27	+1.12

CPVC Fittings (ANSI SCH80)

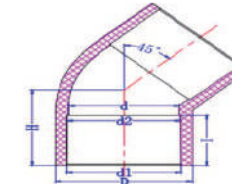
» Confirm to: ASTM D2467

90° Elbow SCH80



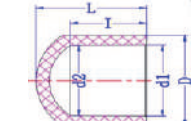
Nominal SIZE	Socket Type			Structural Diameter		
	d1	d2	I	D	d	H
1/2"	21.54	21.23	24	29.2	16	34.8
3/4"	26.87	26.57	27	34.9	22	40.9
1"	33.55	33.27	30	43	30	47
1-1/4"	42.42	42.04	34	52.3	38	54.25
1-1/2"	48.56	48.11	37	58.9	43	60.9
2"	60.63	60.17	40	71.9	54	70.1
2-1/2"	73.38	72.85	46.5	87.6	67	82.95
3"	89.31	88.7	50	104.75	82	93.6
4"	114.76	114.1	60	132	106	115.65
5"	141.81	141.1	76	162.3	133	150
6"	168.83	168	76.5	190.8	158	165.5
8"	219.84	218.7	102	245.3	200	225

45° Elbow SCH80



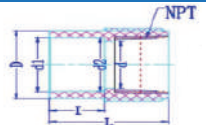
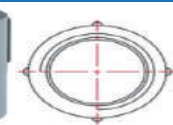
Nominal SIZE	Socket Type			Structural Diameter		
	d1	d2	I	D	d	H
1/2"	21.54	21.23	24	29.2	16	30.2
3/4"	26.87	26.57	27	34.9	22	36.2
1"	33.55	33.27	30	43	30	41
1-1/4"	42.42	42.04	34	52.3	38	46.4
1-1/2"	48.56	48.11	37	58.9	43	52.3
2"	60.63	60.17	40	71.9	54	59.8
2-1/2"	73.38	72.85	46.5	87.6	67	70
3"	89.31	88.7	50	104.75	82	78.3
4"	114.76	114.1	60	132	106	96.3
5"	141.81	141.1	76	162.3	133	108
6"	168.83	168	76.5	190.8	158	132.3
8"	219.84	218.7	102	245.3	200	163.2

Cap SCH80



Nominal SIZE	Socket Type			Structural Diameter	
	d1	d2	I	d	L
1/2"	21.54	21.23	24	30	35
3/4"	26.75	26.57	27	35	36.5
1"	33.65	33.27	30	44	42
1-1/4"	42.28	42.04	34	54	46
1-1/2"	48.56	48.11	37	60	50.5
2"	60.63	60.17	40	73	55
2-1/2"	73.38	72.85	46.5	88	67.5
3"	89.31	88.7	50	105	71
4"	114.76	114.1	60	132	82

Female Adapter SCH80



Nominal	Outside Dia	Socket Type			Structural Diameter		
SIZE	D	d1	d2	I	d	L	PT
1/2"	30	21.54	21.23	24	13.2	44	14
3/4"	35	26.87	26.57	27	19	50	14
1"	44	33.65	33.27	30	24	55	11.5
1-1/4"	54	42.42	42.04	34	32	62	11.5
1-1/2"	60	48.56	48.11	37	38	67	11.5
2"	73	60.63	60.11	40	50	73	11.5

Reducing Bush SCH80

Nominal SIZE	Outside Dia D	Socket Type			Structural Diameter		
		d1	d2	I	d1	I	L
3/4"×1/2"	26.67	21.54	21.23	17	24	33	
1"×3/4"	33.4	26.87	26.57	22.5	27	36	
1-1/4"×1"	42.16	33.65	33.27	28	30	40	
1-1/2"×1-1/4"	48.26	42.42	42.04	38	34	45	
2"×1-1/2"	60.33	48.56	48.11	42	37	49	
2-1/2"×2"	73.03	60.63	60.17	54	41	55	
3"×2"	88.9	60.63	60.17	54	47	60	
3"×2-1/2"	88.9	73.38	72.85	66	47	60	
4"×2-1/2"	114.3	73.38	72.85	65	50	68	
4"×3"	114.3	89.31	88.7	80	50	68	
5"×4"	141.3	114.76	114.1	97.1	60	85	
6"×4"	168.28	114.76	114.1	97.1	60	92.5	
6"×5"	168.28	141.81	141	121	69	92.5	
8"×4"	219.08	114.76	114.1	97.1	60	120	
8"×6"	219.08	168.83	168	146	79	120	

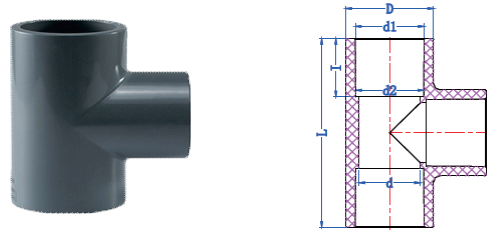
- 23 -

- 24 -

CPVC PIPE(ASTM D2846)

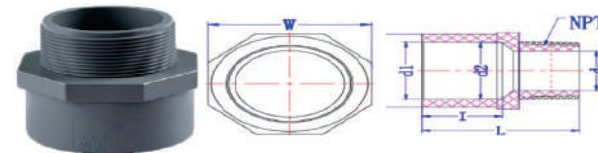
CPVC PIPE(ASTM D2846)

Tee SCH80



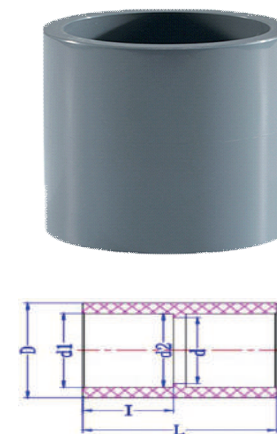
Nominal SIZE	Socket Type			Structural Diameter		
	d1	d2	I	D	d	L
1/2"	21.54	21.23	24	29.2	16	69.6
3/4"	26.87	26.57	27	34.9	22	82
1"	33.55	33.27	30	43	30	94.3
1-1/4"	42.42	42.04	34	52.3	38	108.5
1-1/2"	48.56	48.11	37	58.9	43	120.5
2"	60.63	60.17	40	71.9	54	140.7
2-1/2"	73.38	72.85	46.5	87.6	67	166.5
3"	89.31	88.7	50	104.75	82	188
4"	114.76	114.1	60	132	106	232
5"	141.81	141.1	76	162.3	133	298.5
6"	168.83	168	76.5	190.8	158	331
8"	219.84	218.7	102	245.3	200	432

90° Elbow (F/F)



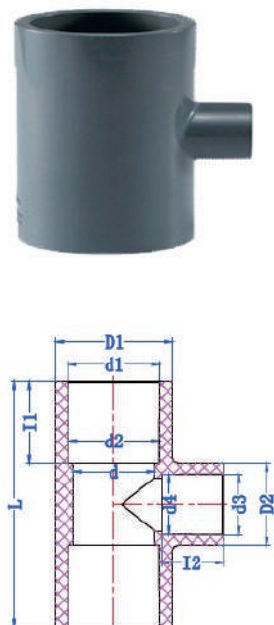
Nominal SIZE	Outside Dia D	Socket Type			Structural Diameter		
		d1	d2	I	d	L	PT
1/2"	29.2	21.54	21.23	22.8	13.2	46.5	14
3/4"	34.9	26.87	26.57	25.9	19	49.4	14
1"	43	33.65	33.27	29.2	24	56.8	11.5
1-1/4"	52.3	42.42	42.04	32.25	32	58.5	11.5
1-1/2"	61	48.56	48.11	35.4	38	65.6	11.5
2"	75	60.63	60.11	38.6	50	70.3	11.5

Coupling/Socket SCH80



Nominal SIZE	Socket Type			Structural Diameter		
	d1	d2	I	D	d	L
1/2"	21.54	21.23	24	29.2	16	50
3/4"	26.87	26.57	27	34.9	22	55.8
1"	33.65	33.27	30	43	30	62.5
1-1/4"	42.42	42.04	34	52.3	38	68.8
1-1/2"	48.56	48.11	37	58.9	43	76
2"	60.63	60.17	40	71.9	54	83.4
2-1/2"	73.38	72.85	46.5	87.6	67	97
3"	89.31	88.7	50	104.75	82	104.2
4"	114.76	114.1	60	132	106	125.6
5"	141.81	141.1	69	162.3	133	158.3
6"	168.83	168	79	190.8	158	159.5
8"	219.84	218.7	105	245.3	200	210.5

Reducing Tee SCH80



Nominal SIZE	Socket Type						Structural Diameter			
	d1	d2	I1	d3	d4	I2	D1	D2	d	L
3/4"*1/2"	26.87	26.57	27	21.54	21.23	24	35	30	22	76.5
1"*1/2"	33.65	33.27	30	21.54	21.23	24	44	30	30	87.7
1"*3/4"	33.65	33.27	30	26.87	26.57	27	44	35	30	87.7
1-1/4"*1/2"	42.42	42.04	34	21.54	21.23	24	54	30	38	100.5
1-1/4"*3/4"	42.42	42.04	34	26.87	26.57	27	54	35	38	100.5
1-1/4"*1"	42.42	42.04	34	33.65	33.27	30	54	44	38	100.5
1-1/2"*1/2"	48.56	48.11	37	21.54	21.23	24	60	30	44	113.5
1-1/2"*3/4"	48.56	48.11	37	26.87	26.57	27	60	35	44	113.5
1-1/2"*1"	48.56	48.11	37	33.65	33.27	30	60	44	44	113.5
1-1/2"*1-1/4"	48.56	48.11	37	42.42	42.04	34	60	54	44	113.5
2"*1/2"	60.63	60.17	41	21.54	21.23	24	73	30	54	113
2"*3/4"	60.63	60.17	41	26.87	26.57	27	73	35	54	113
2"*1"	60.63	60.17	41	33.65	33.27	30	73	44	54	113
2"*1-1/4"	60.63	60.17	41	42.42	42.04	34	73	54	54	129
2"*1-1/2"	60.63	60.17	41	48.56	48.11	37	73	60	54	129
2-1/2"*1"	73.38	72.85	46.5	33.65	33.27	30	88	44	67	154
2-1/2"*1-1/4"	73.38	72.85	46.5	42.42	42.04	34	88	54	67	154
2-1/2"*1-1/2"	73.38	72.85	46.5	48.56	48.11	37	88	60	67	154
2-1/2"*2"	73.38	72.85	46.5	60.63	60.17	41	88	73	67	154
3"*1-1/2"	89.31	88.7	50	48.56	48.11	37	105	60	82	172
3"*2"	89.31	88.7	50	60.63	60.17	41	105	73	82	172
3"*2-1/2"	89.31	88.7	50	73.38	72.85	46.5	105	88	82	172
4"*1-1/2"	114.76	141.1	60	48.56	48.11	37	132	60	106	208
4"*2"	114.76	141.1	60	60.63	60.17	41	132	73	106	208
4"*2-1/2"	114.76	141.1	60	73.38	72.85	46.5	132	88	106	208
4"*3"	114.76	141.1	60	89.31	88.7	50	132	105	106	208

Reducer SCH80

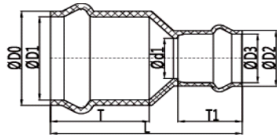


Nominal SIZE	Socket Type						Structural Diameter			
	d1	d2	I	d3	d4	I2	D1	D2	d	L
3/4"*1/2"	26.87	26.57	27	21.54	21.23	24	35	30	22	56.5
1"*1/2"	33.65	33.27	30	21.54	21.23	24	44	30	30	62.2
1"*3/4"	33.65	33.27	30	26.87	26.57	27	44	35	30	62.4
1-1/4"*1/2"	42.42	42.04	34	21.54	21.23	24	54	30	38	68
1-1/4"*3/4"	42.42	42.04	34	26.87	26.57	27	54	35	38	68
1-1/4"*1"	48.56	42.04	34	33.65	33.27	30	54	44	38	68
1-1/2"*1/2"	48.56	48.11	37	21.54	21.23	24	60	30	44	74
1-1/2"*3/4"	48.56	48.11	37	26.87	26.57	27	60	35	44	74
1-1/2"*1"	48.56	48.11	37	33.65	33.27	30	60	44	44	75
1-1/2"*1-1/4"	60.63	48.11	37	42.42	42.04	34	60	54	44	74.3
2"*1/2"	60.63	60.17	41	21.54	21.23	24	73	30	54	76.8
2"*3/4"	60.63	60.17	41	26.87	26.57	27	73	35	54	76.5
2"*1"	60.63	60.17	41	33.65	33.27	30	73	44	54	76
2"*1-1/4"	60.63	60.17	41	42.42	42.04	34	73	54	54	82
2"*1-1/2"	60.63	60.17	41	48.56	48.11	37	73	60	54	82
2-1/2"*1-1/4"	73.38	72.85	46.5	42.42	42.04	41	88	54	67	92
2-1/2"*1-1/2"	73.38	72.85	46.5	48.56	48.11	37	88	60	67	92
2-1/2"*2"	73.38	72.85	46.5	60.63	60.17	41	88	73	67	92
3"*1-1/2"	89.31	88.7	50	45.86	48.11	37	105	60	82	102.4
3"*2"	89.31	88.7	50	60.63	60.17	41	105	73	82	102
4"*1-1/2"	114.76	141.1	60	48.56	48.11	37	132	60	106	106
4"*2"	114.76	141.1	60	60.63	60.17	41	132	73	106	105.5
4"*2-1/2"	114.76	141.1	60	73.38	72.85	46.5	132	88	106	115
4"*3"	114.76	141.1	60	89.31	88.7	50	132	105	106	115.4



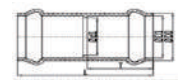
PVC Rubber Joint Fittings PN10 »

Reducing Coupling (F/F)



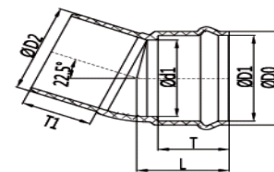
Size (De)	D0	D1	D2	D3	d1	T1	T	L
75x63	88.5	77.5	74.5	65.3	62	76	84.5	168
90x63	105.5	92.5	74.5	65.3	62	76	95	194
90x75	105.5	92.5	88.5	77.5	73.5	84.5	95	200
110x63	125.7	111.5	74.5	65.3	62	76	122	232
110x75	125.7	111.5	88.5	77.5	73.5	84.5	122	236
110x90	125.7	111.5	105.5	92.5	88.5	95	122	238
160x110	181.5	162.3	125.7	111.5	108	122	141	312
200x110	225	202.5	125.7	111.5	108	122	141	312
200x160	225	202.5	181.5	162.3	158	141	152	335.5
225x110	251.5	227.5	125.7	111.5	108	122	139	358
225x160	251.5	227.5	181.5	162.3	158	141	139	346
225x200	251.5	227.5	225	202.5	197	152	139	389.25
250x110	276.5	252.3	125.7	111.5	108	122	152	387
250x160	276.5	252.3	181.5	162.3	158	141	152	371.75
250x200	276.5	252.3	225	202.5	197	152	152	389
250x225	276.5	252.3	251.5	227.5	221	139	152	371.75
315x110	347.8	318.3	125.7	111.5	108	122	198	444.6
315x160	347.8	318.3	181.5	162.3	158	141	198	436
315x200	347.8	318.3	225	202.5	197	152	198	454
315x225	347.8	318.3	251.5	227.5	221	139	198	458
315x250	347.8	318.3	276.5	252.3	247	152	198	458
355x200	388.5	356.63	225	202.5	197	152	235	455
355x315	388.5	356.63	347.8	318.3	312	198	235	476

Coupling (F/F)



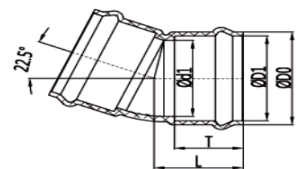
Size (De)	D0	D1	d1	T	L
63	74.5	65.3	62	76	158
75	88.5	77.5	73.5	84.5	178
90	105.5	92.5	88.5	95	200
110	126	111.5	108	122	188.5
160	182	162.3	158	141	304
200	226	202.5	197	152	310
225	251.5	227.5	221	139	362
250	277.3	252.3	247	152	312
315	348.3	318.3	312	198	486
355	388.5	356.63	326	235	384.3

22.5° Elbow (F/S)



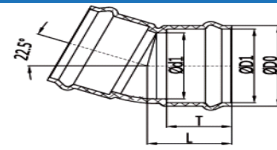
Spec De	D0	D1	D2	d1	T1	T	L
225	251.5	227.5	225.3	221	212	139	196
250	276.5	252.3	250.3	247	228	152	212
315	347.8	318.3	315.2	312	257	198	257

22.5° Elbow (F/F)



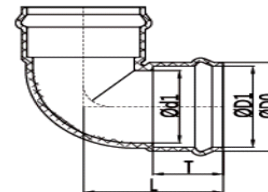
Size (De)	D0	D1	d1	T	L
63	74.5	65.3	62	76	94.5
75	88.5	77.5	73.5	84.5	106
90	105.5	92.5	88.5	95	110
110	125.7	111.5	108	122	152
160	181.5	162.3	158	141	168
200	225	202.5	197	152	178.5
225	251.5	227.5	221	139	196
250	276.5	252.3	247	152	212
315	347.8	318.3	312	198	257

45° Elbow (F/F)



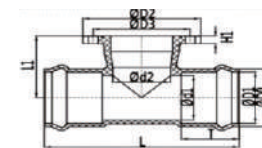
Size (De)	D0	D1	d1	T	L
63	74.5	65.3	62	76	96
75	88.5	77.5	73.5	84.5	110
90	105.5	92.5	88.5	95	122.5
110	125.7	111.5	108	122	152
160	181.5	162.3	158	141	183.5
200	225	202.5	197	152	203
225	251.5	227.5	221	139	217
250	276.5	252.3	247	152	236
315	347.8	318.3	312	198	291
355	388.5	356.63	326	235	315

90° Elbow (F/F)



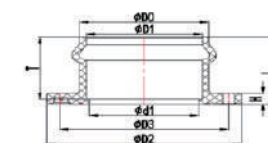
Size (De)	D0	D1	d1	T	L
63	74.5	65.3	62	76	110
75	88.5	77.5	73.5	84.5	125.75
90	105.5	92.5	88.5	95	142.5
110	125.7	111.5	108	122	188.5
160	181.5	162.3	158	141	236.5
200	225	202.5	197	152	270
225	251.5	227.5	221	139	288
250	276.5	252.3	247	152	312
315	347.8	318.3	312	198	393
355	388.5	356.63	326	235	410

Tee With Flange Branch (F/S)



Size (De)	D0	D1	D2	D3	d1	d2	T	H1	L1	L	Number of screws
110	125.7	111.5	224	185	108	108	122	19	160	405	8
160	181.5	162.3	284	235	158	158	141	23	195	473	8
200	225	202.5	338	300	197	197	152	26	230	540	8
225	251.5	227.5	344	293	221	221	139	29.5	255	576	8
250	276.5	252.3	394	250	247	247	152	31.5	280	624	12
315	347.8	318.3	443	398	312	198	198	36	330	788	12
160x110	181.5	162.3	224	185	158	108	141	19	192	446	8
200x110	225	202.5	224	185	197	108	152	19	215	488	8
200x160	225	202.5	284	235	197	158	152	23	220	500	8
225x110	251.5	227.5	224	185	221	108	139	19	233.5	466	8
225x160	251.5	227.5	284	235	221	158	139	23	245	504	8
250x110	276.5	252.3	224	185	247	108	152	19	245.5	500	8
250x160	276.5	252.3	284	235	247	158	152	23	257	538	8
250x200	276.5	252.3	338	300	247	197	152	26	268.5	578	8
315x110	347.8	318.3	224	185	312	108	198	19	277.5	592	8
315x160	347.8	318.3	284	235	312	158	198	23	288.5	626	8
315x200	347.8	318.3	388	300	312	197	198	26	299	667	8

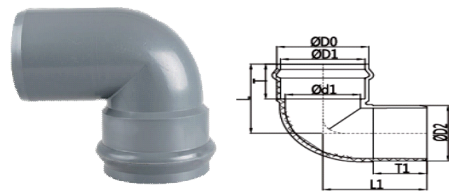
Faucet Flange



D0	D1	D2	D3	d1	T	H	L	n
63	74.50	65.30	165.00	125.00	62.00	76.00	17.30	84.00
75	88.50	77.50	185.00	145.00	73.50	84.50	18.00	92.30
90	105.30	92.50	200.00	160.00	88.50	95.00	18.80	103.00
110	125.70	111.50	225.00	180.00	108.00	122.00	19.50	134.00
125	142.10	127.00	250.00	210.00	123.00	135.00	21.60	135.00
160	181.50	162.30	285.00	240.00	158.00	141.00	22.80	150.00
200	225.50	202.50	345.00	295.00	197.00	152.00	26.50	163.00
225	250.50	227.50	345.00	295.00	221.00	139.00	30.00	153.50
250	276.50	252.30	395.00	350.00	247.00	152.00	32.00	167.50
315	347.50	318.30	445.00	400.00	312.00	198.00	35.00	210.00
355	388.50	359.00	510.00	460.00	326.00	235.00	38.00	210.00
400	435.00	404.00	570.00	510.00	568.20	228.00	42.50	247.00

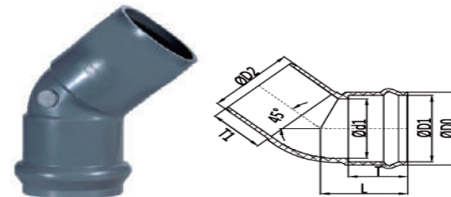


90° Elbow (F/S)



Spec De	D0	D1	D2	d1	T1	T	L1	L
200	225	202.5	200.2	197	223	152	285	270
225	251.5	227.5	225.3	221	212	139	304	288
250	276.5	252.3	250.3	247	252	152	328	312
315	347.8	318.3	315.2	312	291.3	198	393	393

45° Elbow (F/S)



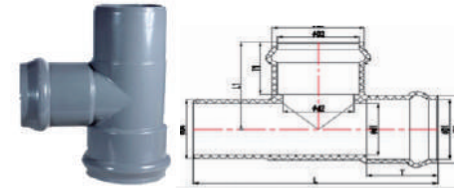
Spec De	D0	D1	D2	d1	T1	T	L1	L
200	225	202.5	202	197	223	152	202	
225	251.5	227.5	225.3	221	212	139	196	
250	276.5	252.3	250.3	247	252	152	236	
315	347.8	318.3	315.2	312	291.3	198	291.3	

Tee Three Socket (F/F/F)



Spec De	D0	D1	D2	D3	d1	d2	T1	T	L1	L
63	74.5	65.3	74.5	65.3	62	62	76	76	110	220
75	88.5	77.5	88.5	77.5	73.5	73.5	84.5	84.5	125.75	255
90	105.5	92.5	105.5	92.5	88.5	88.5	95	95	142.5	285
110	125.7	111.5	125.7	111.5	108	108	122	122	188.5	404
160	181.5	162.3	181.5	162.3	158	158	141	141	236.5	470
200	225	202.5	225	202.5	197	197	152	152	270	555
225	251.5	227.5	251.5	227.5	221	221	139	139	288	592
250	276.5	252.3	276.5	252.3	247	247	152	152	312	640
315	347.8	318.3	347.8	318.3	312	312	198	198	393	786
355	389	356.63	389	356.63	326	326	235	235	410	820
75x63	88.5	77.5	74.5	65.3	73.5	62	76	84.5	115	243
90x63	103.5	92.5	74.5	65.3	88.5	62	76	95	121.4	262.2
90x75	105.5	92.5	88.5	77.5	88.5	73.5	84.5	95	132.9	272.2
110x63	125.7	111.5	74.5	65.3	108	62	76	122	150	405
110x75	125.7	111.5	88.5	77.5	108	73.5	84.5	122	159.5	405
110x90	125.7	111.5	105.5	92.5	108	88.5	95	122	170	405
160x63	181.5	162.3	74.5	65.3	158	62	76	141	175	446
160x75	181.5	162.3	88.5	77.5	158	73.5	84.5	141	185	446
160x90	181.5	162.3	105.5	92.5	158	88.5	95	141	195	446
160x110	181.5	162.3	125.7	110.5	158	108	122	141	220	446
200x63	225	202.5	74.5	65.3	197	62	76	152	195	490
200x75	225	202.5	88.5	77.5	197	73.5	84.5	152	205	490
200x90	225	202.5	105.5	92.5	197	88.5	95	152	215	490
200x110	225	202.5	125.7	110.5	197	108	122	152	240	490
200x160	225	227.5	182	162.3	197	158	141	152	250	500
225x110	251.5	227.5	125.7	110.5	221	108	122	139	263	466
225x160	251.5	252.3	182	162.3	221	158	141	139	290	504
250x110	276.5	252.3	125.7	110.5	247	108	122	152	275	500
250x160	276.5	252.3	182	162.3	247	158	141	152	302	638
250x200	276.5	252.3	225	202.5	247	197	152	152	310	578
250x225	276.5	252.3	251.5	227.5	226	216	150	152	315	626
315x110	347.8	318.3	125.7	110.5	312	108	122	198	317	592
315x160	347.8	318.3	182	162.3	312	158	141	198	336.5	626
315x200	347.8	318.3	225	202.5	312	197	152	198	347	660
315x225	347.8	318.3	251.5	227.5	312	221	139	198	340	735
315x250	347.8	318.3	276.5	252.3	312	247	152	198	347	735
355x160	389	318.3	182	162.3	326	158	141	198	347.5	635
355x200	389	318.3	225	202.5	326	197	152	198	360	730
355x225	389	318.3	251.5	227.5	326	221	139	198	354	730
355x250	389	318.3	276.5	252.3	326	247	152	198	369	730
355x315	389	318.3	347.8	318.3	326	312	198	198	418	820

PVC Y Tee (F/F/S)



Spec De	D0	D1	D2	D3	D4	d1	d2	T1	T	L1	L
110	125.7	111.5	125.7	111.5	110.2	108	108	122	122	202.5	405
160	181.5	162.3	181.5	162.3	160.3	158	158	141	141	236.5	485
200	225	202.5	225	202.5	202.2	197	197	152	152	270	555
225	251.5	227.5	251.5	227.5	225.3	221	221	139	139	288	595
250	276.5	252.3	276.5	252.3	250.3	247	247	152	152	312	640
315	347.8	318.3	318.3	318.3	315.2	312	198	198	198	393	785
160x110	181.5	162.3	125.7	111.5	160.3	158	108	122	141	220	450
200x110	225	202.5	125.7	111.5	202.2	197	108	122	152	240	495
200x160	225	202.5	181.5	162.3	202.2	197	158	141	152	250	515
225x110	251.5	227.5	125.7	111.5	225.3	221	108	122	139	263	485
225x160	251.5	227.5	181.5	162.3	225.3	221	158	141	139	290	520
250x110	276.5	252.3	125.7	111.5	250.3	247	108	122	152	275	515
250x160	276.5	252.3	181.5	162.3	250.3	247	158	141	152	302	538
250x200	276.5	252.3	225	202.5	250.3	247	197	152	152	228	555
315x110	347.8	318.3	125.7	111.5	315.2	312	108	122	198	317	595
315x160	347.8	318.3	181.5	162.3	315.2	312	158	141	198	336.5	625
315x200	347.8	318.3	225	202.5	315.2	312	197	152	198	393	660

PVC Lateral Cross (F/F/S/S)



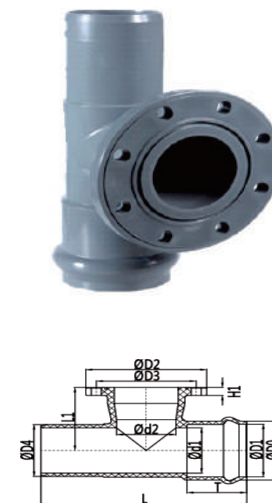
Size (De)	D0	D1	D2	D3	d1	T1	T	L1	L2	L
110	125.7	111.5	110.2	96	108	125	122	160.8	282	455
160	181.5	162.3	160.3	140	158	145	141	194	371.2	575
200	225	202.5	200.2	178	197	160	152	215.8	426.5	660
250	276.5	252.3	250.3	227	247	180	152	232.5	508.7	739
315	347.8	318.3	315.2	288	312	202	198	284	636.8	917

PVC Y Tee



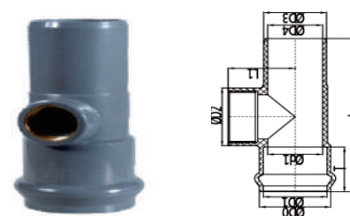
Size (De)	D0	D1	D2	D3	d1	T1	T	L1	L2	L
110	125.7	111.5	110.2	96	108	125	122	160.8	282	455
160	181.5	162.3	160.3	140	158	145	141	194	371.2	575
200	225	202.5	200.2	178	197	160	152	215.8	426.5	660
250	276.5	252.3	250.3	227	247	180	152	232.5	508.7	739
315	347.8	318.3	315.2	288	312	202	198	284	636.8	917

PVC Tee with Flange Branch (F/S)



Size (De)	D0	D1	D2	D3	D4	d1	d2	T	H1	L1	L	Number of screws
110	125.7	111.5	224	185	110.2	108	108	122	19	160	405	8
160	181.5	162.3	284	235	160.3	158	158	141	23	195	485	8
200	225	202.5	338	300	220.2	197	197	152	26	230	555	8
225	251.5	227.5	344	293	225.3	221	221	139	29.5	255	595	8
250	276.5	252.3	394	250	250.3	247	247	152	31.5	280	640	12
315	347.8	318.3	443	398	315.2	312	198	198	36	330	785	12
160x110	181.5	162.3	224	185	160.3	158	108	141	19	192	450	8
200x110	225	202.5	224	185	200.2	197	108	152	19	215	495	8
200x160	225	202.5	284	235	200.2	197	158	152	23	220	515	8
225x110	251.5	227.5	224	185	225.3	221	108	139	19	233.5	485	8
225x160	251.5	227.5	284	235	225.3	221	158	139	23	245	520	8
250x110	276.5	252.3	224	185	250.3	247	108	152	19	245.5	515	8
250x160	276.5	252.3	284	235	250.3	247	158	152	23	257	538	8
250x200	276.5	252.3	338	300	250.3	247	197	152	26	268.5	555	8
315x110	347.8	318.3	224	185	315.2	312	108	198	19	277.5	595	8
315x160	347.8	318.3	284	235	315.2	312	158	198	23	288.5	625	8
315x200	347.8	318.3	388	300	315.2	312	197	198	26	299	660	8

Tee with cooper threaded (F/S)



Size (De)	D0	D1	D2	D3	D4	d1	T	L1	L
110*2"	125.70	111.50	80.00	110.20	79.00	108.00	122.00	79.00	335.00
160*2"	181.50	162.30	80.00	160.30	140.00	158.00	141.00	102.00	375.00
200*2"	225.00	202.50	80.00	202.20	178.00	197.00	152.00	123.00	410.00



PVC Pipe for water supply PN10 »

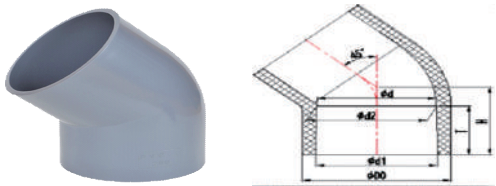


Nominal Diameter	Average outside diameter error	Length	Wall thickness and tolerances	Wall thickness and tolerance
Φ		mm	0.63MPa	1.0MPa
20	0.3	4000		2.0+0.4
25	0.3	4000		2.0+0.4
32	0.3	4000		2.0+0.4
40	0.3	4000		2.0+0.4
50	0.3	4000		2.4+0.5
63	0.3	4000	2.0+0.4	3.0+0.5
75	0.3	4000	2.3+0.5	3.6+0.6
90	0.3	4000	2.8+0.5	4.3+0.7
110	0.4	4000	2.7+0.5	4.2+0.7
140	0.5	4000	3.5+0.6	5.4+0.9
160	0.5	4000	4.0+0.6	6.2+1.0
225	0.7	4000	5.5+0.9	8.6+1.3
280	0.9	4000	6.9+1.1	10.7+1.7
315	1.5	4000	7.7+1.2	12.1+1.9
355	1.5	4000	8.7+1.4	13.6+2.1
400	1.5	4000	9.8+1.5	15.3+2.3
450	1.5	4000	11+1.7	17.2+2.6
500	1.5	4000	12.3+1.9	19.1+2.9
560	1.5	4000	13.7+2.1	21.4+3.3
630	1.9	4000	15.4+2.4	24.1+3.7

DIN	15 (20)	20 (25)	25 (32)	32 (40)	40 (50)	50 (63)	65 (75)	80 (90)	100 (110)	125 (140)	150 (160)	200 (225)	250 (280)	300 (315)	400 (400)
JIS	16 (22)	20 (26)	25 (32)	30 (38)	40 (48)	50 (60)	65 (75)	75 (89)	100 (114)	124 (140)	150 (165)	200 (216)	250 (265)	300 (318)	400 (420)
ANSI	1/2" (21)	3/4" (26)	1" (33)	1 1/4" (42)	1 1/2" (48)	2" (60)	2 1/2" (73)	3" (89)	4" (114)	5" (142)	6" (168)	8" (219)	10" (273)	12" (323)	16" (406)

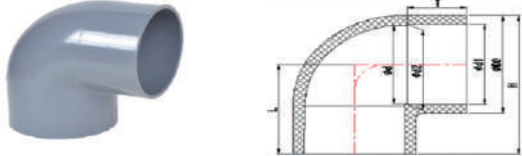
PVC Fitting For Water Supply PN10 »

PVC 45° Elbow



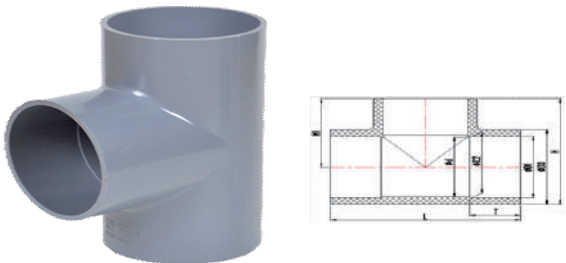
Size (De)	D0	d1	d2	d	T	H
20	24.60	20.24	19.96	19	17	22.14
25	29.84	25.24	24.95	24	19.5	25.67
32	37.16	32.25	31.95	31	23	30.62
40	46.48	40.28	39.95	39	27	36.28
50	57.00	50.33	49.94	49	32	43.35
63	70.38	63.34	62.93	62	38.5	52.54
75	83.05	75.35	74.93	73.5	44.5	61.72
90	99.28	90.38	89.93	88.5	52	72.33
110	120.4	110.42	109.92	108	62	87.5
125	135	125.52	124.93	123	69.5	98
140	153.1	140.58	139.88	138	77	108.6
160	174.52	160.62	159.87	158	87	122.7
180	202.6	180.81	179.91	178.5	97	137.87
200	217.4	200.90	199.85	197	107	108.4
225	243.58	226.02	224.83	221	119.5	168.7
250	270.9	251.15	249.41	247	132	120.75
280	314.8	281.46	280.16	278	147	209.6
315	344.5	316.55	315.05	312	165	233.5
355	386.2	356.63	355.03	326	183.5	272.8
400	433.8	401.60	400.00	398.5	208	298.5

PVC 90° Elbow



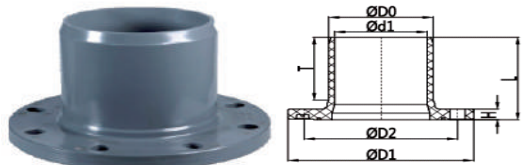
Size (De)	D0	d1	d2	d	T	L	H
20	24.48	20.24	19.96	19	17	28.50	40.74
25	30.18	25.24	24.95	24	19.5	33.50	48.59
32	37.14	32.25	31.95	31	23	40.50	59.07
40	46.56	40.28	39.95	39	27	48.50	71.78
50	57.10	50.33	49.94	49	32	58.50	87.05
63	71.18	63.34	62.93	62	38.5	71.50	107.09
75	84.34	75.35	74.93	73.5	44.5	83.25	125.42
90	99.10	90.38	89.93	88.5	52	98.25	147.80
110	120.4	110.42	109.92	108	62	118.00	178.20
125	135.5	125.52	124.93	123	69.5	118.50	186.25
140	153.1	140.58	139.88	138	77	149.00	225.55
160	175.0	160.62	159.87	158	87	169.00	256.50
180	202.5	180.81	179.91	178.5	97	190.00	291.25
200	219.3	200.90	199.85	197	107	211.00	320.65
225	243.3	226.02	224.83	221	119.5	235.50	357.15
250	271.4	251.15	249.41	247	132	261.00	396.70
280	314.8	281.46	280.16	278	147	276.00	433.40
315	344.5	316.55	315.05	312	165	326.50	498.75
355	385	356.63	355.03	326	183.5	368.25	560.75
400	432.7	401.60	400.00	398.5	208	413.00	629.35

PVC Equal Tee



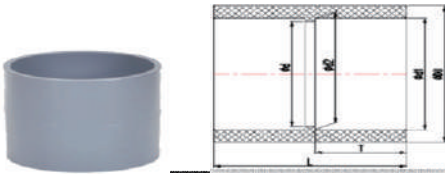
Size (De)	D0	D1	D2	d	T	H1	H	L
20	24.8	20.24	19.96	19	17	28.5	40.90	57
25	30.1	25.24	24.95	24	19.5	33.5	48.55	67
32	37.5	32.25	31.95	31	23	40.5	59.25	81
40	46.48	40.28	39.95	39	27	48.5	71.74	95.6
50	57.3	50.33	49.94	49	32	58.5	87.15	117.5
63	70.5	63.34	62.93	62	38.5	71.5	106.75	142.7
75	84	75.35	74.93	73.5	44.5	83.25	125.25	166.5
90	100.6	90.38	89.93	88.5	52	98.25	148.55	203
110	120.8	110.42	109.92	108	62	118	178.40	237
125	136.8	125.52	124.93	123	69.5	118.5	186.90	267
140	153.5	140.58	139.88	138	77	149	225.75	298
160	175	160.62	159.87	158	87	169	256.50	338.5
180	202.6	180.81	179.91	178.5	97	190	291.30	379
200	219	200.90	199.85	197	107	211	320.50	420
225	246	226.02	224.83	221	119.5	235.5	358.50	474
250	272	251.15	249.41	247	132	261	397.00	522
280	314.8	281.46	280.16	278	147	276	433.40	552
315	344.5	316.55	315.05	312	165	326.5	498.75	653
355	385.8	356.63	355.03	326	183.5	368.25	561.15	736.5
400	433.7	401.6	400.00	398.5	208	413.00	629.85	826

Spigot Flange



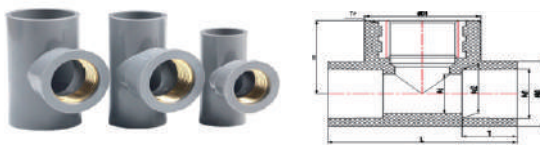
Size (De)	D0	D1	D2	d1	T	H	L	Number of screws
63	63.2	164	125	62	102	17.3	127	4
75	75.3	184	145	73.5	110	17	137.5	4
90	90.3	198.5	160	88.5	115	19	144	8
110	110.3	223.5	180	108	128	20	154	8
160	160.4	283.5	240	123	145	23	190	8
200	200.5	338	295	158	160	27	203.5	8
225	225.5	345	295	197	167	29.5	216	8
250	150.5	393	350	221	180	31	232	12
315	315.6	443.5	400	312	207	35.5	268	12
355	355.6	510	460	326	235	42.5	300	16
400	400.6	568.2	510	568.2	245	41	314	16

PVC Coupling



Size (De)	D0	d1	d2	d	T	L
0	24.80	20.24	19.96	19.00	17.00	36.00
25	29.90	25.24	24.95	24.00	19.50	41.30
32	37.40	32.25	31.95	31.00	23.00	48.10
40	47.00	40.28	39.95	39.00	27.00	56.60
50	56.50	50.33	49.94	49.00	32.00	67.00
63	70.50	63.34	62.93	62.00	38.50	81.00
75	83.30	75.35	74.93	73.50	44.50	93.00
90	100.00	90.38	89.93	88.50	52.00	107.60
110	119.84	110.42	109.92	108.00	62.00	128.30
125	136.30	125.52	124.93	123.00	69.50	147.20
140	153.50	140.58	139.88	138.00	77.00	163.60
160	174.70	160.62	159.87	158.00	87.00	183.30
180	202.50	180.81	179.91	178.50	97.00	203.50
200	218.90	200.90	199.85	197.00	107.00	217.00
225	245.80	226.02	224.83	221.00	119.50	245.00
250	269.80	251.15	249.41	247.00	132.00	279.00
280	314.80	281.46	280.16	278.00	147.00	299.50
315	343.70	316.55	315.05	312.00	165.00	343.00
355	384.60	356.63	355.03	326.00	183.50	373.00
400	430.70	401.60	400.00	398.50	208.00	423.00

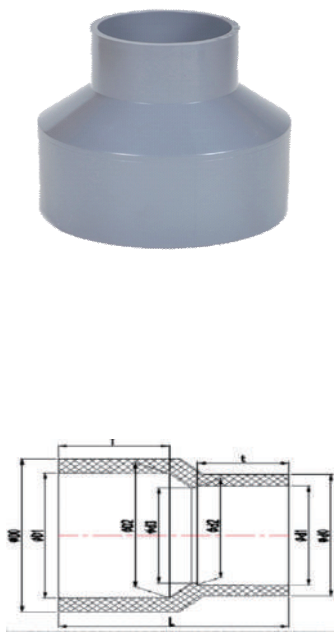
PVC Tee With Copper Threaded



Size (De)	D0	D1	d1	d2	d	T	L1	L	Tr
20*1/2"	24.5	32	20.24	19.96	19	17	32	58	1/2"
25*1/2"	29.5	32	25.24	24.95	24	19.5	35	60.3	1/2"
25*3/4"	30	38.1	25.24	24.95	24	19.5	38	60.7	3/4"
32*1/2"	37	32	32.25	31.95	31	23	38	67.6	1/2"
32*3/4"	38	38	32.25	31.95	31	23	38	74.1	3/4"
32*1"	37.7	44	32.25	31.95	31	23	40	81	1"
63*3/4"	70	38	63.34	62.93	62	38.5	53	105.7	3/4"
63*1"	70	44	63.34	62.93	62	38.5	56	112	1"

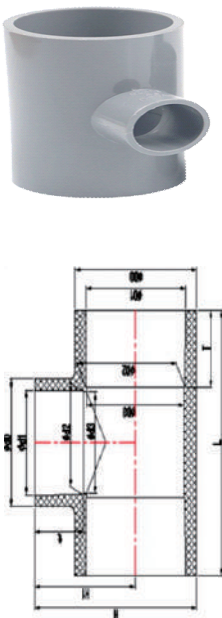


PVC Reducing Coupling



Size (De)	D0	D1	D2	d0	d1	d2	d3	t	T	L
25*20	30.05	25.24	24.95	24.85	20.24	19.96	19.00	17	19.5	41.8
32*20	37.40	32.25	31.95	24.85	20.24	19.96	19.00	17	23	48.5
32*25	37.40	32.25	31.95	30.00	25.24	24.95	24.00	19.5	23	48.5
40*20	46.70	40.28	39.95	26.10	20.24	19.96	19.00	17	27	55.1
40*25	46.70	40.28	39.95	31.30	25.24	24.95	24.00	19.5	27	55.5
40*32	46.80	40.28	39.95	38.70	32.25	31.95	31.00	23	27	55.2
50*20	56.60	50.33	49.94	24.85	20.24	19.96	19.00	17	32	66.5
50*25	56.80	50.33	49.94	30.00	32.25	31.95	24.00	23	32	66.5
50*32	56.60	50.33	49.94	37.50	40.28	39.95	31.00	27	32	66.5
50*40	57.20	50.33	49.94	47.10	40.28	39.95	39.00	27	32	66.2
63*25	71.70	63.34	62.93	31.20	25.24	24.95	24.00	19.5	38.5	79.5
63*32	72.10	63.34	62.93	38.30	32.25	31.95	31.00	23	38.5	79.5
63*40	71.50	63.34	62.93	47.00	40.28	39.95	39.00	27	38.5	78.8
63*50	83.30	63.34	62.93	57.40	50.33	49.94	49.00	32	38.5	80
75*32	83.30	75.35	74.93	38.00	32.25	31.95	31.00	23	44.5	92.5
75*40	83.30	75.35	74.93	46.20	40.28	39.95	39.00	27	44.5	92.5
75*50	83.30	75.35	74.93	56.50	50.33	49.94	49.00	32	44.5	92.3
75*63	83.30	75.35	74.93	70.30	63.34	62.93	62.00	38.5	44.5	91.8
90*40	99.20	90.38	89.93	46.00	40.28	39.95	39.00	27	52	106.5
90*50	99.20	90.38	89.93	56.30	50.33	49.94	49.00	32	52	107.5
90*63	99.20	90.38	89.93	71.00	63.34	62.93	62.00	38.5	52	109
90*75	99.20	90.38	89.93	84.00	75.35	74.93	73.50	44.5	52	107.5
110*50	120.80	110.42	109.92	56.70	50.33	49.94	49.00	32	62	125.75
110*63	120.80	110.42	109.92	70.55	63.34	62.93	62.00	38.5	62	125
110*75	120.80	110.42	109.92	84.20	75.35	74.93	73.50	44.5	62	128.6
110*90	120.80	110.42	109.92	100.30	90.38	89.93	88.50	52	62	125.78
125*63	135.20	125.52	124.93	69.50	63.34	62.93	62.00	38.5	69.5	142.5
125*75	135.20	125.52	124.93	82.70	75.35	74.93	73.50	44.5	69.5	142.5
125*90	137.30	125.52	124.93	99.50	90.38	89.93	88.50	52	69.5	142.5
125*110	137.00	125.52	124.93	121.60	110.42	109.92	108.00	62	69.5	142.5
140*90	151.50	140.58	139.88	99.30	90.38	89.93	88.50	52	77	151.5
140*110	152.60	140.58	139.88	119.60	110.42	109.92	108.00	62	77	157
160*90	175.30	160.62	159.87	99.50	90.38	89.93	88.50	52	87	175.3
160*110	175.10	160.62	159.87	121.60	110.42	109.92	108.00	62	87	178
160*125	175.60	160.62	159.87	137.20	125.52	124.93	123.00	69.5	87	179
160*140	175.10	160.62	159.87	152.80	140.58	139.88	138.00	77	87	178
180*160	202.80	180.81	179.91	180.00	160.62	159.87	158.00	87	97	202.5
200*110	217.90	200.90	199.85	122.60	110.42	109.92	108.00	62	107	218.5
200*125	217.40	200.90	199.85	136.70	125.52	124.93	123.00	69.5	107	219
200*140	218.50	200.90	199.85	153.10	140.58	139.88	138.00	77	107	221
200*160	218.50	200.90	199.85	175.00	160.62	159.87	158.00	87	107	221
225*110	245.80	226.02	224.83	121.80	110.42	109.92	108.00	62	119.5	245
225*125	245.50	226.02	224.83	136.60	125.52	124.93	123.00	69.5	119.5	245
225*160	245.80	226.02	224.83	174.86	160.62	159.87	158.00	87	119.5	245
225*200	245.80	226.02	224.83	218.50	200.90	199.85	197.00	107	119.5	245
250*110	272.20	251.15	249.41	121.80	110.42	109.92	108.00	62	132	265
250*160	269.30	251.15	249.41	174.90	160.62	159.87	158.00	87	132	272
250*200	270.00	251.15	249.41	217.20	200.90	199.85	197.00	107	132	272
280*250	315.50	281.46	280.16	280.40	251.15	249.41	247.00	132	147	304
315*110	343.30	316.55	315.05	125.75	110.42	109.92	108.00	62	165	380.6
315*125	343.50	316.55	315.05	142.40	125.52	124.93	123.00	69.5	165	377.8
315*160	343.00	316.55	315.05	178.60	160.62	159.87	158.00	87	165	371
315*200	343.00	316.55	315.05	220.90	200.90	199.85	197.00	107	165	358
315*225	342.80	316.55	315.05	246.70	226.02	224.83	221.00	119	165	354.5
315*250	342.80	316.55	315.05	273.70	251.15	249.41	247.00	132	165	351
355*200	386.10	356.63	355.03	220.90	200.90	199.85	197.00	107	183.5	400
355*250	386.10	356.63	355.03	273.70	251.15	249.41	247.00	132	183.5	392.6
355*315	386.10	356.63	355.03	344.00	316.55	315.05	312.00	165	183.5	384
400*200	432.70	401.60	400.00	220.90	200.90	199.85	197.00	107	208	453.5
400*250	431.30	401.60	400.00	273.70	251.15	249.41	247.00	132	208	447
400*315	432.70	401.60	400.00	344.30	316.55	315.05	312.00	165	208	438.5
400*355	432.30	401.60	400.00	386.40	356.63	355.03	326.00	183.5	208	430.8

PVC Reducing Tee



Size (De)	D0	D1	D2	D3	d0	d1	d2	d3	t	T	H1	H	L
25*20	30.02	25.24	24.95	24	24.18	20.24	19.96	19	17	19.5	31	46.01	62.10
32*20	37.44	32.25	31.95	31	24.74	20.24	19.96	19	17	23	34.5	53.22	69.20
32*25	37.44	32.25	31.95	31	30.10	25.24	24.95	24	19.5	23	37	55.72	73.80
40*20	46.3	40.28	39.95	39	25.40	20.24	19.96	19	17	27	38.5	61.65	77.30
40*25	46.3	40.28	39.95	39	30.05	25.24	24.95	24	19.5	27	41	64.15	80.40
40*32	46.3	40.28	39.95	39	37.44	32.25	31.95	29	23	27	44.5	67.65	89.00
50*20	57.2	50.33	49.94	49	25.00	20.24	19.96	19	17	32	43	72.10	86.00
50*25	57.72	50.33	49.94	49	30.05	25.24	24.95	24	19.5	32	46	74.86	92.00
50*32	57.8	50.33	49.94	49	37.50	32.25	31.95	31	23	32	49	78.40	98.70
50*40	57.1	50.33	49.94	49	47.02	40.28	39.95	39	27	32	53	82.05	108.40
63*20	70	63.34	62.93	62	24.90	20.24	19.96	19	17	38.5	50	85.00	100.00
63*25	70.1	63.34	62.93	62	30.20	25.24	24.95	24	19.5	38.5	52	87.55	105.00
63*32	70.8	63.34	62.93	62	37.50	32.25	31.95	31	23	38.5	56	91.40	112.00
63*40	70.3	63.34	62.93	62	45.80	40.28	39.95	39	27	38.5	60	95.15	119.85
63*50	70.8	63.34	62.93	62	56.50	50.33	49.94	49	32	38.5	65	100.40	130.60
75*32	84.3	75.35	74.93	73.5	38.20	32.25	31.95	31	23	44.5	61.75	103.90	125.75
75*40	84.1	75.35	74.93	73.5	46.60	40.28	39.95	39	27	44.5	65.75	107.80	135.70
75*50	84	75.35	74.93	73.5	57.00	50.33	49.94	49	32	44.5	70.75	112.75	153.50
75*63	83.8	75.35	74.93	73.5	70.70	63.34	62.93	62	38.5	44.5	77.25	119.15	156.60
90*50	100.7	90.38	89.93	88.5	56.70	50.33	49.94	49	32	52	78.25	128.60	158.00
90*63	100.7	90.38	89.93	88.5	69.70	63.34	62.93	62	38.5	52	84.75	135.10	170.30
90*75	100.7	90.38	89.93	88.5	84.10	75.35	74.93	73.5	44.5	52	90.75	141.10	183.00
110*50	123	110.42	109.92	108	56.30	50.33	49.94	49	32	62	88	149.50	177.00
110*63	122.7	110.42	109.92	108	74.00	63.34	62.93	62	38.5	62	94.5	155.85	190.10
110*75	121.32	110.42	109.92	108	84.30	75.35	74.95	73.5	44.5	62	101.5	162.16	201.50
110*90	121.5	110.42	109.92	108	100.60	90.38	89.93	88.5	52	62	109	169.75	220.40
125*75	136.5	125.52	124.93	123	84.30	75.35	74.95	73.5	44.5	69.5	109	177.25	219.50
125*90	137.8	125.52	124.93	123	99.20	90.38	89.93	88.5	52	69.5	116.5	185.40	232.30
125*110	136	125.52	124.93	123	120.60	110.42	109.92	108	62	69.5	125.75	193.75	250.70
140*110	151.5	140.58	139.88	138	108.70	110.42	109.92	108	62	77	134	209.75	268.00
160*90	175.3	160.62	159.87	158	101.60	90.38	89.93	88.5	52	87	134	221.65	268.00
160*110	175.4	160.62	159.87	158	122.30	110.42	109.92	108	62	87	144	231.70	288.00
160*125	175.3	160.62	159.87	158	137.00	125.30	124.93	123	69.5	87	151.5	239.15	300.00
160*140	175.1	160.62	159.87	158	153.00	140.30	139.88	138	77	87	159	246.55	318.50
180*160	202.6	180.81	179.91	178.5	180.00	160.35	159.87	158	87	97	180	281.30	379.00
200*75	220.9	180.81	199.85	197	82.75	75.35	74.93	73.5	44.5	107	148.5	258.95	291.50
200*90	220.9	200.90	199.85	197	99.20	90.38	89.93	88.5	52	107	156	266.45	307.00
200*110	219.2	200.90	199.85	197	122.80	110.42	109.92	108	62	107	166	275.60	328.00
200*160	219.8	200.90	199.85	197	175.40	160.62	159.87	158	87	107	191	300.90	377.00
225*160	246	226.02	224.83	221	175.00	160.62	159.87	158	87	119.5	203	326.00	407.00
250*110	272	251.15	249.41	247	120.50	110.42	109.92	108	62	132	191	327.00	377.00
250*160	270	251.15	249.41	247	173	160.62	159.87	158	87	132	216	351.00	427.00
250*200	274.1	251.15	249.41	247	220	200.90	199.85	197	107	132	236	373.05	474.00
280*250	314.8	281.46	280.16	278	280	251.15	199.85	247	132	147	276	433.40	580.00
315*110	344.5	316.55	315.05	312	125.75	110.42	109.92	108	62	165	223.5	395.75	448.00
315*160	344.5	316.55	315.05	312	178.6	160.62	159.87	158	87	165	248.5	420.75	498.00
315*200	344.5	316.55	315.05	312	220.9	200.90	199.85	197	107	165	268.5	440.75	538.00
315*250	344.5	316.55	315.05	312	273.4	251.15	225.83	247	132	165	293.5	465.75	588.00
355*200	386.5	356.63	355.03	326	219.9	200.90	199.85	197	107	183.5	285.5	478.75	590.50
355*225	386.5	356.80	355.00	326	259.4	226.20	224.90	216.9	184	118.7	298.5	491.60	615.00
355*250	386.5	356.63	355.03	326	273.4	251.15	249.41	247	132	183.5	311.5	504.75	638.50
355*315	386.5	356.63	355.03	326	344.5	316.55	315.05	312	165	183.5	350.6	543.85	694.50
400*200	432.7	401.60	400.00	398.5	220.9	200.90	199.85	197	107	208	318.6	534.95	623.00
400*250	432.4	401.60	400.00	398.5	273.5	251.15	249.41	247	132	208	342.8	559.00	672.00
400*315	432.7	401.60	400.00	398.5	344.5	316.55	315.05	312	165	208	370	586.35	752.00

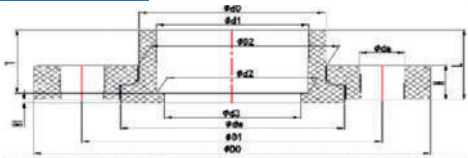


PVC One Piece Flange



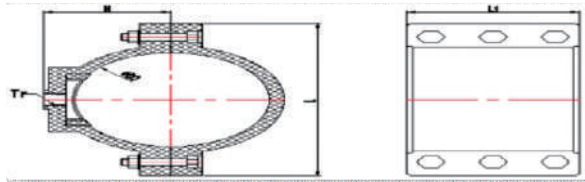
Size(De)	D0	D1	d0	d1	d2	d3	da	T	H	L	n
20	94.00	65.00	28.30	20.24	19.96	19.00	14.00	17.00	14.50	24.50	4
25	104.00	75.00	33.20	25.24	24.95	24.00	14.00	19.50	14.50	24.80	4
32	114.10	85.00	41.60	32.25	31.95	31.00	14.00	23.00	13.50	23.30	4
40	133.50	100.00	49.60	40.28	39.95	39.00	18.00	27.00	17.20	36.00	4
50	148.00	110.00	57.40	50.33	49.94	49.00	18.00	32.00	15.70	46.50	4
63	164.00	125.00	71.40	63.34	62.93	62.00	18.00	38.50	17.00	48.50	4
75	183.40	145.00	86.80	75.35	74.93	73.00	18.00	44.50	19.30	61.50	4
90	198.50	160.00	101.30	90.38	89.93	88.50	18.00	52.00	19.50	70.00	8
110	218.20	180.00	123.20	110.42	109.92	108.00	18.00	62.00	19.10	80.00	8
140	249.00	210.00	152.80	140.58	139.88	138.00	18.00	77.00	20.00	87.00	8
160	283.50	240.00	176.20	160.62	159.87	158.00	22.00	87.00	22.00	105.00	8
180	284.00	240.00	202.60	180.81	179.91	178.50	22.00	97.00	25.30	114.00	8
200	340.50	295.00	219.40	200.90	199.85	197.00	22.00	107.00	25.50	128.50	8
250	394.00	350.00	272.50	251.15	249.41	247.00	22.00	132.00	31.00	156.00	12
280	403.00	355.00	303.90	281.46	280.16	278.00	22.00	147.00	29.70	167.00	12

Spigot Flange



Size (De)	D0	D1	D2	d0	d1	d2	d3	dw	da	T	H1	H	L	n
50	148.00	110.00	60.10	56.60	50.33	49.94	49.00	82.00	18.00	32.00	7.60	14.50	35.00	4
63	165.60	125.00	75.20	69.60	63.34	62.93	62.00	93.70	18.00	38.50	8.00	15.60	42.30	4
75	185.00	145.00	87.00	82.60	75.35	74.93	73.00	103.80	18.00	44.50	8.30	16.10	47.80	4
90	194.90	160.00	105.00	99.30	90.38	89.93	88.50	128.40	18.00	52.00	10.50	18.20	54.50	8
110	219.00	180.00	132.00	120.30	110.42	109.92	108.00	150.00	18.00	62.00	14.50	20.00	66.10	8
125	248.00	210.00	145.00	136.60	125.52	124.93	123.00	163.80	18.00	69.50	15.50	19.30	74.10	8
140	248.50	210.00	152.50	151.60	140.58	139.88	138.00	167.80	18.00	77.00	12.50	21.00	83.00	8
160	284.00	240.00	186.50	177.60	160.62	159.87	158.00	260.50	22.00	87.00	19.50	26.00	91.20	8
200	340.00	295.00	230.50	220.50	200.90	199.85	197.00	258.50	22.00	107.00	20.00	29.80	113.00	8
225	340.00	295.00	253.00	245.50	226.02	224.83	221.00	266.70	22.00	119.50	21.50	32.00	123.00	8
250	393.00	350.00	277.00	277.00	251.15	249.41	247.00	303.00	22.00	132.00	22.50	34.00	138.00	12
280	397.00	350.00	308.00	305.40	281.46	280.16	278.00	324.50	22.00	147.00	22.00	35.00	162.00	12
315	445.00	400.00	353.50	346.30	316.55	315.05	312.00	378.50	22.00	165.00	30.00	40.00	157.70	12
355	510.00	460.00	384.00	386.60	356.63	355.03	326.00	413.50	24.00	183.50	32.00	40.00	193.50	16
400	570.00	515.00	438.00	432.00	401.60	400.00	398.50	460.00	24.00	208.00	40.00	43.80	200.00	16
450	620.00	565.00	488.50	486.00	451.94	450.05	447.00	518.00	27.00	233.00	38.00	45.00	245.00	20
500	670.00	620.00	541.00	536.50	502.80	500.60	596.00	573.00	27.00	256.00	38.00	50.00	268.00	20

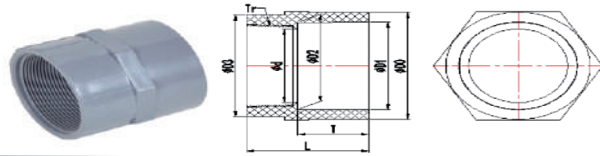
PVC saddle clamp



Size (De)	D0	H	L	L1	Tr	Size of Screw
63*1"	63.00	65.30	138.50	89.30	1"	M12*40
75*1"	75.00	63.50	143.50	89.30	1"	M12*40
75*1-1/2"	75.00	63.50	143.50	89.30	1-1/2"	M12*40
90*1/2"	90.00	74.00	159.70	68.00	1/2"	M12*40
90*3/4"	90.00	74.00	159.70	68.00	3/4"	M12*40
90*1"	90.00	74.00	159.70	68.00	1"	M12*40
90*1-1/2"	90.00	74.00	159.70	89.50	1-1/2"	M12*40
110*1/2"	110.00	78.00	198.00	109.50	1/2"	M16*50
110*3/4"	110.00	78.00	200.00	109.50	3/4"	M16*50
110*1"	110.00	81.00	198.00	109.50	1"	M16*50
110*1-1/2"	110.00	91.00	199.00	108.00	1-1/2"	M16*50
110*2"	110.00	91.00	198.00	109.50	2"	M16*50
110*2-1/2"	110.00	91.00	198.00	109.50	2-1/2"	M16*50
125*1-1/2"	125.00	99.00	225.00	110.00	1-1/2"	M16*55
125*2"	125.00	99.00	225.00	110.00	2"	M16*55
125*2-1/2"	125.00	99.00	225.00	110.00	2-1/2"	M16*55
160*1/2"	160.00	104.50	253.00	120.00	1/2"	M16*55
160*3/4"	160.00	104.50	253.00	120.00	3/4"	M16*55
160*1"	160.00	104.50	253.00	120.00	1"	M16*55
160*1-1/2"	160.00	118.50	253.00	120.00	1-1/2"	M16*55
160*2"	160.00	114.00	253.00	120.00	2"	M16*55
160*2-1/2"	160.00	118.50	253.00	120.00	2-1/2"	M16*55
200*1-1/2"	200.00	135.00	317.00	130.00	1-1/2"	M20*70
200*2"	200.00	138.00	317.00	130.00	2"	M20*70
200*2-1/2"	200.00	140.00	317.00	130.00	2-1/2"	M20*70
225*1-1/2"	225.00	150.00	335.00	140.00	1-1/2"	M20*70
225*2"	225.00	152.00	335.00	140.00	2"	M20*70
225*2-1/2"	225.00	168.00	335.00	140.00	2-1/2"	M20*70
250*2"	250.00	170.00	351.00	141.00	2"	M20*80
250*2-1/2"	250.00	170.00	351.00	141.00	2-1/2"	M20*80
250*3"	250.00	170.00	351.00	141.00	3"	M20*80
315*110	315.00	240.00	467.00	160.00		M20*90
315*160	315.00	247.00	467.00	238.00		M20*90
315*2"	315.00	200.00	472.00	158.00	2"	M20*90
315*3"	315.00	205.00	472.00	158.00	3"	M20*90
315*4"	315.00	205.00	472.00	158.00	4"	M20*90
400*200	400.00	320.00	545.00	275.00		M20*90

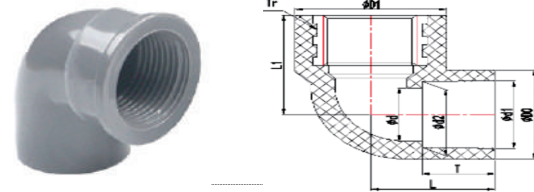


PVC Female Threaded Adaptor



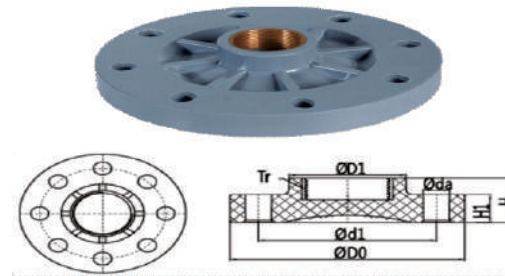
Size (De)	D0	D1	D2	D3	d	T	L	Tr
20*1/2"	26.5	20.24	19.96	28	19	17	36.5	1/2"
25*3/4"	30.5	25.24	24.95	32	24	19.5	37	3/4"
32*1"	37.4	32.25	31.95	38	31	23	43	1"
40*1-1/4"	46.2	40.28	39.95	47.6	39	27	50	1-1/4"
50*1-1/2"	56.6	50.33	49.94	54	49	32	54	1-1/2"
63*2"	70.5	63.34	62.93	57	62	38.5	64.3	2"
75*2-1/2"	84	75.35	74.93	84	73.5	44.5	76.6	2-1/2"
90*3"	100.6	90.38	89.93	100	88.5	52	93.4	3"
110*4"	121.4	110.42	109.92	125.3	108	62	105.5	4"

PVC Threaded Elbow



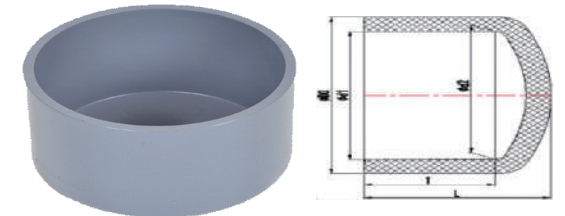
D0	D1	d1	d2	d	T	L1	L	Tr	M
20*1/2"	24.7	32	20.24	19.96	18	17	30.8	28.5	1/2"
25*1/2"	29.7	32	25.24	24.95	24	19.5	33.15	33	1/2"
25*3/4"	29.7	37.1	25.24	24.95	24	19.5	33.15	34.84	3/4"
32*1/2"	37.3	32	32.25	31.95	18.8	23	39.35	42	1/2"
32*3/4"	37.3	37	32.25	31.95	24	23	45.35	42.5	3/4"
32*1"	37.3	44.3	32.25	31.95	31	23	41.35	39.85	1"

Special PVC Copper Threaded Blind Flange Adaptor



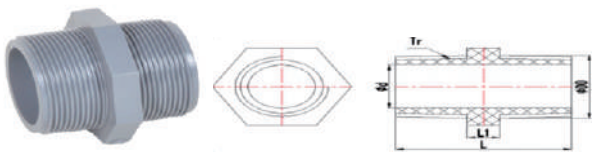
Size (De)	D0	D1	d1	da	H1	H	n	Tr
110*2"	219	82	178	18	21.5	39.5	8	2"
160*2"	283	82	238	22	25	38	8	2"
200*2"	340	84	293	22	30	48	8	2"

PVC Threaded Elbow



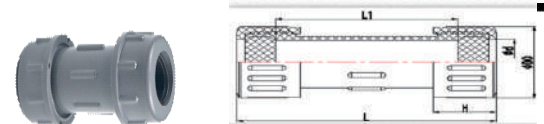
Size (De)	D0	d1	d2	T	L
20	24.5	20.24	19.96	17	21.20
25	29.8	25.24	24.95	19.5	24.80
32	37.1	32.25	31.95	23	30.00
40	45.8	40.28	39.95	27	35.00
50	56.7	50.33	49.94	32	42.00
63	70.3	63.34	62.93	38.5	50.40
75	83.3	75.35	74.93	44.5	58.50
90	100.1	90.38	89.93	52	68.30
110	119.8	110.42	109.92	62	80.00
125	136.38	125.52	124.93	69.5	91.00
140	151	140.58	139.88	77	101.00
160	173.5	160.62	159.87	87	116.00
180	202.6	180.81	179.91	97	143.00
200	220	200.90	199.85	107	150.00
225	243.3	226.02	224.83	119.5	156.00
250	273.7	251.15	249.41	132	185.00
280	315	281.46	280.16	147	213.00
315	343.5	316.55	315.05	165	216.00
355	384.6	356.63	355.03	183.5	255.50
400	430.7	401.60	400.00	208	295.00

PVC Male Adaptor With Two Threaded Ends



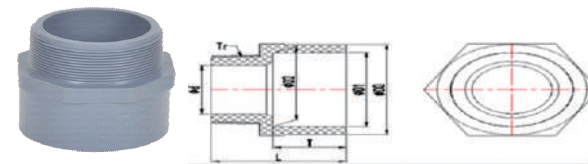
Size (De)	D0	d	L1	L	Tr
20*1/2"	20.80	14.50	7.00	40.50	1/2"
25*3/4"	25.70	17.50	8.00	45.00	3/4"
32*1"	33.10	24.00	11.00	50.00	1"
40*1-1/4"	41.40	32.00	11.00	52.50	1-1/4"
50*1-1/2"	47.30	37.50	12.50	55.00	1-1/2"
63*2"	58.60	48.50	12.50	67.00	2"

PVC Repaired Compression Coupling



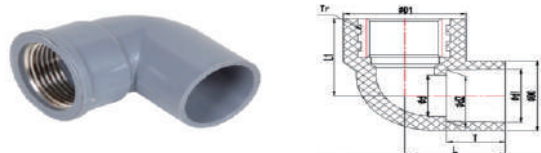
Size (De)	D0	d	H	L1	L
20	44.50	20.60	30.00	100.00	123.00
25	49.00	25.50	31.00	111.50	131.00
32	57.50	33.00	34.50	115.00	140.00
40	72.30	40.60	37.00	120.00	148.00
50	77.00	51.00	40.00	132.00	165.00
63	91.60	69.00	47.00	153.00	190.00
75	105.50	76.00	47.00	183.00	210.00
90	132.00	92.00	55.00	210.00	258.00
110	158.00	112.50	62.00	230.00	290.00
125	183.00	125.75	52.00	184.50	290.00
160	219.00	161.00	59.00	248.50	283.00

PVC Male Threaded Adaptor



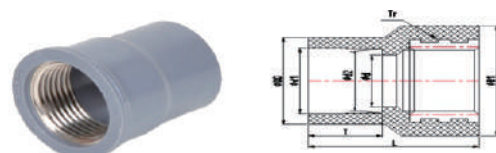
Size (De)	D0	D1	D2	d	T	L	Tr
20*1/2"	26	20.24	19.96	17	17	38.5	1/2"
25*3/4"	30.4	25.24	24.95	17.8	19.5	40.5	3/4"
32*1"	37.5	32.25	31.95	23	23	47.5	1"
40*1-1/4"	46.2	40.28	39.95	30.3	27	54.5	1-1/4"
50*1-1/2"	56.8	50.33	49.94	37.6	32	63.1	1-1/2"
63*2"	70.6	63.34	62.93	47.5	38.5	76.5	2"
75*2-1/2"	83.6	75.35	74.93	60	44.5	87.5	2-1/2"
90*3"	100.7	90.38	89.93	72	52	94	3"
110*4"	121.4	110.42	109.92	95	62	119.5	4"

PVC Copper Threaded Elbow 90°



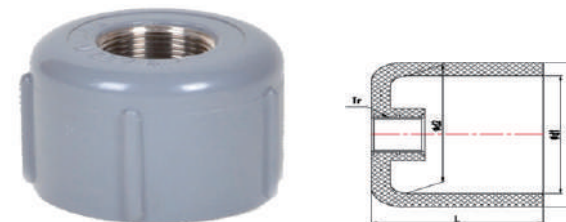
Size (De)	D0	D1	d1	d2	d	T	L1	L	Tr
20*1/2"	24.7	32	20.24	19.96	18	17	30.80	28.50	1/2"
25*1/2"	29.7	32	25.24	24.95	24	19.5	33.15	33.00	1/2"
25*3/4"	29.7	37	25.24	24.95	24	19.5	33.15	34.84	3/4"
32*1/2"	37.3	32	32.25	31.95	18.8	23	39.35	42.00	1/2"
32*3/4"	37.3	37	32.25	31.95	24	23	45.35	42.50	3/4"
32*1"	37.3	44.3	32.25	31.95	31	23	41.35	39.85	1"

PVC Copper Threaded Female Adaptor



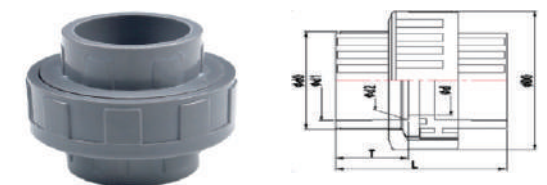
Size (De)	D0	D1	d1	d2	d	T	L	Tr
20*1/2"	24.3	32.0	20.24	19.96	18.0	17.0	36.7	1/2"
25*1/2"	31	33.0	25.24	24.95	18.8	19.5	39.2	1/2"
25*3/4"	29.8	38.1	25.24	24.95	18.8	19.5	39.5	3/4"
32*1/2"	37.3	32.0	32.25	31.95	18.8	23.0	48.5	1/2"
32*3/4"	37.5	37.5	32.25	31.95	24.0	23.0	48.5	3/4"
32*1"	38	46.4	32.25	31.95	31.0	23.0	42.4	1"

PVC Copper With Threaded Cap



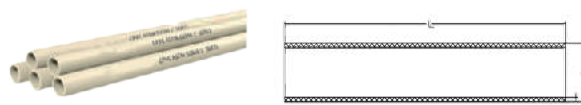
Size (De)	D	d1	d2	L	Tr
63*3/4"	70.50	63.34	62.93	56.00	3/4"
63*1"	70.50	63.34	62.93	56.00	1"

PVC Union



Size (De)	D0	d0	d1	d2	d	T	L
20	45.5	26	20.24	19.96	19	17	53
25	54.5	32	25.24	24.95	24	19.5	59.8
32	65	39.5	32.25	31.95	31	23	68.5
40	75.5	48.5	40.28	39.95	39	27	80.5
50	88.5	59	50.33	49.94	49	32	94
63	102	74.5	63.34	62.93	62	38.5	110
75	122.6	86	75.35	74.93	73.5	44.5	104.7
90	140.7	101.2	90.38	89.93	88.5	52	121.1
110	163.6	122.2	110.42	109.92	108	62	147

CPVC CTS Pipe



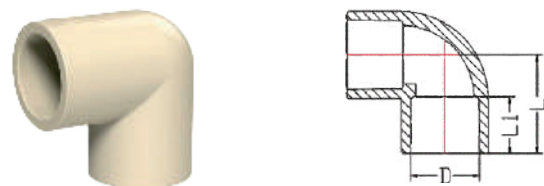
Size	D	Z		L
		SDR-11	SDR-13.5	
1/2"	15.9	1.73	1.51	3-5
3/4"	22.2	2.03	1.73	3-5
1"	28.6	2.6	2.03	3-5
1-1/4"	34.9	3.18	2.59	3-5
1-1/2"	41.3	3.76	3.06	3-5
2"	54	4.9	4	3-5

Coupling



Size	D	L	L1
1/2"	15.9	12.8	28.6
3/4"	22.2	17.9	39.0
1"	28.6	23.0	49.0
1-1/4"	34.9	28.1	59.2
1-1/2"	41.3	33.2	69.4
2"	60.32	43.4	90.0

90 Deg Elbow



Size	D	L1	L
1/2"	15.9	12.8	22.8
3/4"	22.2	17.9	33.1
1"	28.6	23.0	39.3
1-1/4"	34.9	28.1	47.5
1-1/2"	41.3	33.2	55.7
2"	54.0	43.3	72.4
3/4"x1/2"	22.2	17.9	27.0
1"x1/2"	28.6	12.8	32.8
1"x3/4"	28.6	17.9	36.0

Tee



Size	D	L1	L
1/2"	15.9	12.8	22.8
3/4"	22.2	17.9	31.1
1"	28.6	23.0	39.3
1-1/4"	34.9	28.1	47.5
1-1/2"	41.3	33.2	55.7
2"	54.0	43.3	72.4

45 Deg Elbow



Size	D	L	L1
1/2"	15.9	12.8	17.8
3/4"	22.2	17.9	24.2
1"	28.6	23.0	30.5
1-1/4"	34.9	28.1	37.0
1-1/2"	41.3	33.2	43.2
2"	54.0	43.3	56.3

Male Adapter



Size	D	L1	L	M
1/2"	15.9	12.8	36.0	1/2"
3/4"	22.2	17.9	41.5	3/4"
1"	28.6	23.0	50.2	1"
1-1/4"	34.9	28.1	56.0	1-1/4"
1-1/2"	41.3	33.2	61.0	1-1/2"
2"	54.0	43.3	73.5	2"
3/4"x1/2"	22.2	17.9	41.5	3/4"
1"x3/4"	28.6	23.0	46.2	3/4"

Male Adapter (Brass) A



Size	D	D1	L1	L	M
1/2"x1/2"	15.9	15.9	17.9	31.0	1/2"
3/4"x3/4"	22.2	22.2	23.0	38.5	3/4"
1"x1"	28.6	15.9	23.0	46.5	1"
3/4"x1/2"	22.2	15.9	23.0	36.5	3/4"

Female Adapter (Brass) A



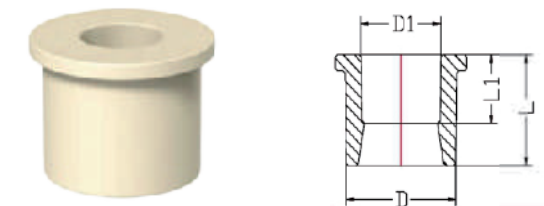
Size	D	L1	L	M
1/2"	15.9	12.8	34	1/2"
3/4"	22.2	17.9	40	3/4"
1"	28.6	23.0	49	1"
3/4"x1/2"	22.2	28.1	54	3/4"x1/2"

R Coupling



Size	D	D1	L1	L
3/4"x1/2"	22.2	15.9	17.9	33.8
1"x1/2"	28.6	22.2	23.0	44.0
1"x3/4"	28.6	15.9	23.0	36.0
1-1/4"x1/2"	34.9	15.9	28.2	43.8
1-1/4"x3/4"	34.9	22.2	28.2	49
1-1/4"x1"	34.9	28.6	28.2	54.2
1-1/2"x1/2"	41.3	15.9	33.2	48.8
1-1/2"x3/4"	41.3	22.2	33.2	54
1-1/2"x1"	41.3	34.9	33.2	64.5
1-1/2"x1-1/4"	41.3	28.6	33.2	59.5
2"x1/2"	54	15.9	43.5	59.1
2"x3/4"	54	22.2	43.5	64.3
2"x1"	54	28.6	43.5	70.5
2"x1-1/4"	54	34.9	43.5	74.5
2"x1-1/2"	54	41.3	43.5	79.5

Reducer Bushing



Size	D	D1	L1	L
3/4"x1/2"	15.9	22.2	17.9	21.0
1"x1/2"	15.9	28.6	23.0	26.2
1"x3/4"	22.2	28.6	23.0	26.2
1-1/4"x1/2"	15.9	34.9	17.9	32.2
1-1/4"x3/4"	22.2	34.9	23.0	32.2
1-1/4"x1"	28.6	41.3	28.1	32.2
1-1/2"x1/2"	15.9	41.3	17.9	37.7
1-1/2"x3/4"	22.2	41.3	23.0	37.7
1-1/2"x1"	28.6	41.3	28.1	37.7
1-1/2"x1-1/4"	34.9	41.3	33.2	37.7
2"x1/2"	15.9	54	17.9	48.0
2"x3/4"	22.2	54	23.0	48.0
2"x1"	28.6	54	28.1	48.0
2"x1-1/4"	34.9	54	33.2	48.0
2"x1-1/2"	41.3	54	43.3	48.0

Female Adapter



Size	D	D1	L1	L	M
1/2"	15.9	27	12.8	34	1/2"
3/4"	22.2	32.5	17.9	40	3/4"
1"	28.6	39.1	23.0	49	1"
1-1/4"	34.9	49	28.1	54	1-1/4"
1-1/2"	41.3	55	33.2	61	1-1/2"
2"	54.0	70	43.3	73.5	2"

Male Plug



Size	D	L1	L2	L	M
1/2"	30	15.5	37	60.5	1/2"
3/4"	37.8	19	47.62	75.83	3/4"

CAP



Size	D	L	L1
1/2"	15.9	12.8	18
3/4"	22.2	17.9	24
1"	28.6	23.0	29
1-1/4"	34.9	28.1	35
1-1/2"	41.3	33.2	40
2"	54.0	43.3	53

Reducing Tee



Size	D	D1	L1	L
3/4"X1/2"	22.2	15.9	17.9	55.8
1"X1/2"	28.6	15.9	23.0	65.8
1"X3/4"	28.6	22.2	23.0	69
1-1/4"X1/2"	34.9	15.9	28.1	77.4
1-1/4"X3/4"	34.9	22.2	28.1	75.8
1-1/4"X1"	34.9	29.6	28.1	85
1-1/2"X1/2"	41.3	15.9	33.2	95
1-1/2"X3/4"	41.3	22.2	33.2	95
1-1/2"X1"	41.3	28.6	33.2	101
1-1/2"X1-1/4"	41.3	34.9	33.2	99
2"X1/2"	54	15.9	43.5	121
2"X3/4"	54	22.2	43.5	121
2"X1"	54	28.6	43.5	121
2"X1-1/4"	54	34.9	43.3	123.6
2"X1-1/2"	54	41.3	43.3	113.4

Male Tee (Brass)



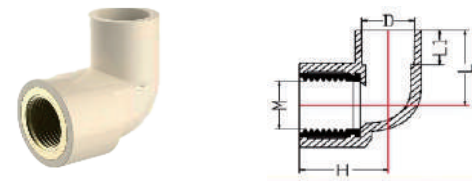
Size	D	L1	L	H	M
3/4"X1/2"	15.9	12.8	50	29.5	1/2"
1"X1/2"	22.2	17.9	68	32.7	1/2"
1"X3/4"	28.6	23.0	72	36.5	1/2"

MALE-FEMALE TANK ADAPTER



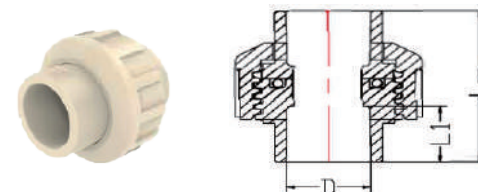
Size	D	L	H	M	M1
3/4"	45	26	66	3/4"	3/4"
1"	55	29	71	1"	1"

Female Elbow (Brass) A



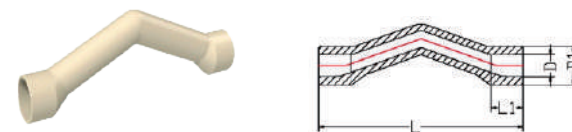
Size	D	L1	L	H	M
1/2"X1/2"	15.9	12.8	25	29.5	1/2"
3/4"X1/2"	22.2	17.9	34	32.7	1/2"
3/4"X3/4"	22.2	17.9	34	32.7	3/4"
1"X1/2"	28.6	23.0	36	36.5	1/2"
1"X3/4"	28.6	23.0	36	639.3	3/4"
1"X1"	28.6	23.0	44.3	41.0	1"
1-1/4"X1/2"	34.9	28.2	42.9	40.9	1/2"
1-1/4"X3/4"	34.9	28.2	42.9	40.9	3/4"
1-1/4"X1"	34.9	28.2	42.9	44.	1"

Union



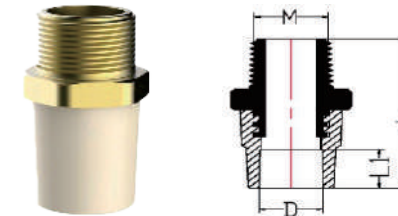
Size	D	L1	L
1/2"	15.9	12.8	35.5
3/4"	22.2	17.9	46.5
1"	28.6	23.0	59
1-1/4"	34.9	28.1	72
1-1/2"	41.3	33.2	80
2"	54.0	43.3	102

Over Bend



Size	D	D1	L	L1
1/2"	15.9	28.5	152	12.8
3/4"	22.2	32.5	193	17.9
1"	28.6	42.5	271	23.0
1-1/4"	34.9	42.5	260	28.2
1-1/2"	41.3	50	300	33.2
2"	54	64.6	320	43.5

Male Adapter (Brass) B



Size	D	L1	L	M
1/2"	15.9	12.8	50.5	1/2"
3/4"	22.2	17.9	55.0	3/4"
3/4"X1/2"	22.2	17.9	53.0	1/2"
1"	28.6	23.2	68.0	1"
1"X1/2"	28.6	23.2	58.7	1/2"
1"X3/4"	28.6	23.0	59.0	3/4"
1-1/4"	34.9	28.1	79.0	1-1/4"
1-1/4"X1"	34.9	28.1	72.0	1"
1-1/2"	41.3	33.2	85.0	1-1/2"
2"	54.0	43.3	100	2"

Female Adapter (Brass) B



Size	D	L1	L	M
1/2"	15.9	12.8	45	1/2"
3/4"	22.2	17.9	50	3/4"
3/4"X1/2"	22.2	17.9	40	1/2"
1"	28.6	23.2	66	1"
1"X1/2"	28.6	23.2	53	1/2"
1"X3/4"	28.6	23.0	54	3/4"
1-1/4"	34.9	28.1	78	1-1/4"
1-1/4"X1"	34.9	28.1	70	1"
1-1/2"	41.3	33.2	83	1-1/2"

Clip



Size	D	L	Z	H
1/2"	15.9	37.9	11.9	21.5
3/4"	22.2	45.7	11.9	28.5
1"	28.6	54.2	12.1	35.2
1-1/4"	34.9	70.2	14.3	42.2
1-1/2"	41.3	84.0	15.5	50.3
2"	54	94.0	15.7	64.7

Clip



Size	D	L	D1
1/2"	15.9	29	21.2
3/4"	22.2	39	28.0
1"	28.6	46.5	34.7

Cross



Size	D	L	Z
1/2"	15.9	12.8	28.8
3/4"	22.2	17.9	31.1
1"	28.6	23.0	39.3
1-1/4"	34.9	28.1	42.2
1-1/2"	41.3	33.2	50.2
2"	54.0	43.3	72.4

Tank Adapter



Size	D	L	Z
1/2"	41.0	69	1/2"
3/4"	46.0	76	3/4"
1"	56.5	88	1"
1-1/4"	65.5	94	1-1/4"
1-1/2"	71.0	102.5	1-1/2"
2"	83.0	103.5	2"

Female Tee (Brass) A



Size	D	D1	L1	L	M
1/2"X1/2"	15.9	12.8	50	29.5	1/2"
3/4"X1/2"	22.2	17.9	68	32.7	1/2"
1"X1/2"	28.6	23.0	72	36.5	1/2"
3/4"X3/4"	22.2	18.2	65	34.1	3/4"
1"X3/4"	28.6	17.9	76.1	37.75	3/4"
1-1/4"X1/2"	34.9	28.2	81.4	40.35	1/2"



Ball Valve



Size	Part	Material	QTY
1	Handle	ABS	1
2	Stem	CPVC	1
3	O-Ring	NBR/EPDM	2
4	Body	CPVC	1
5	Cap	CPVC	1
6	Seat Seal	TPR/TPE	2
7	Ball	CPVC	1

Size	ASTM-2846 d	L	H	D
1/2"	15.9	68	41	24.1
3/4"	22.2	80	45	30.5
1"	28.6	93.5	55.5	38.0
1-1/4"	34.9	104	61	45.0
1-1/2"	41.3	115	66	61.8
2"	54.0	150	81	75.2

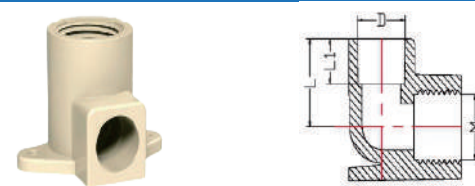
Single Union Valve



Size	Part	Material	QTY
1	Handle	ABS	1
2	Stem	CPVC	1
3	O-Ring	NBR/EPDM	2
4	Body	CPVC	1
5	Cap	CPVC	1
6	Seat Seal	TPR/TPE	2
7	Ball	CPVC	1

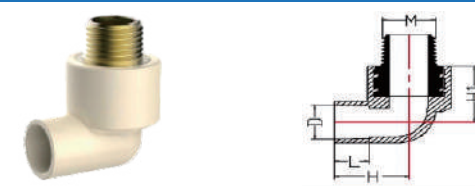
Size	Ds1	Ds2	L	Z
1/2"	15.72	16.08	61.5	50.5
3/4"	22.10	22.45	74.5	77.5
1"	28.47	28.83	93.0	98.5
1-1/4"	34.85	35.20	109.5	99.5
1-1/2"	41.2	41.66	129	115.0
2"	53.92	54.38	162	145.5

Drop Ear Elbow



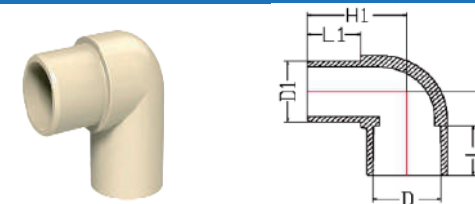
Size	D	L1	L	M
1/2"	15.9	12.8	25.5	1/2"

Male Elbow (Brass) A



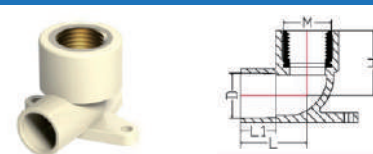
Size	D	L	H	L1	M
1/2"X1/2"	15.9	12.8	25	29.5	1/2"
3/4"X1/2"	22.2	17.9	34	32.7	1/2"
3/4"X3/4"	22.2	17.9	34	34.0	3/4"
1"X1/2"	28.6	23.0	36	36.0	1/2"
1"X1"	28.6	23.0	43.5	43.5	1"

Street Elbow



Size	D	D1	L	L1	H	H1
1/2"	15.9	15.9	13	13	23	25
3/4"	22.2	22.2	18	18	31	34
1"	28.6	28.6	23	23	39	42

Ear Bras Elbow



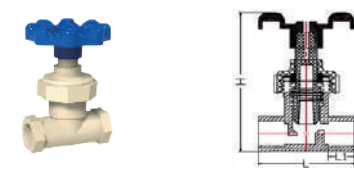
Size	D	L1	L	H	M
1/2"X1/2"	15.9	13.0	28.5	28	1/2"
3/4"X1/2"	22.2	18.2	34.0	32.63	3/4"

Angle Valve A



Size	D	H	L	M
1/2"	15.9	27.7	87	1/2"
3/4"	22.2	34.5	97	3/4"

Stop Valve



Size	D	L	H	L1
1/2"	15.9	54.6	87	14.8
3/4"	22.2	67.0	87	20.0

Angle Valve C



Size	D	L1	L	M
1/2"	22.2	25.7	62.9	1/2"

Reducing Tee



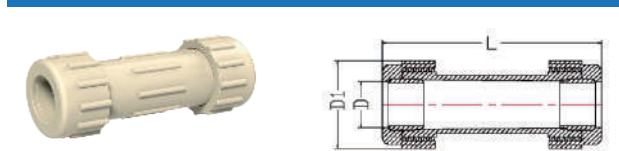
Size	D	D1	H	L1	L
3/4"X3/4"X1/2"	22.2	15.9	31.1	17.9	58.0
3/4"X1/2"X1/2"	22.2	15.9	26.0	17.9	38.9

Tank Connector



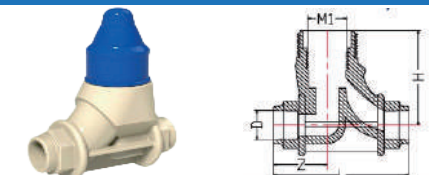
Size	M1	D1	L	H	M
3/4"	22.2	45.0	18.0	57.0	3/4"
1"	28.6	55.0	23.0	63.0	1"
1-1/4"	34.9	65.0	28.0	69.5	1-1/4"

Compression Coupling



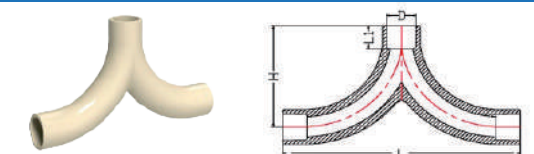
Size	D	D1	L
1/2"	16.5	53.1	95
3/4"	22.8	43.3	105
1"	29.0	52.0	115

Check Valve



Size	D	L	L1	H	M
1/2"	15.9	53.1	28.2	71.2	1/2"

Tee Mixer



Size	D	L1	H	L
1/2"	15.9	12.8	60.5	130

Female Adapter (Brass) C



Size	D	D1	L1	L	M
1/2"X1/2"	15.9	32	17.9	31.0	1/2"
3/4"X3/4"	22.2	38	23	38.5	3/4"
1"X1"	28.6	47	23	46.5	1"
1-1/4"X1-1/4"	34.9	62	28	57.5	1-1/4"
1-1/2"X1-1/2"	41.3	70	33.2	64.5	1-1/2"
2"X2"	54.0	87.4	43.5	77	2"
3/4"X1/2"	22.2	32	23	36.5	1/2"
1"X1/2"	28.6	34	23	41.5	1/2"
1"X3/4"	28.6	38	23	46.5	3/4"

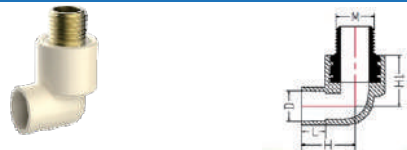


Male Adapter (BRASS) C



Size	D	D1	L1	L	M
1/2"X1/2"	15.9	36.3	13	31	1/2"
3/4"X1/2"	22.2	36.3	18	36	1/2"
3/4"X3/4"	22.2	43	18	38.5	3/4"
1"X1"	28.6	52	23	46.5	1"
1-1/4"X1-1/4"	34.9	62	28.2	54	1-1/4"
1-1/2"X1-1/2"	63.1	70	33.2	61	1-1/2"
2"X2"	78.1	87.4	43.5	72	2"
1"X1/2"	28.6	38	23	41.5	1/2"
1"X3/4"	28.6	43	23	46.5	3/4"

Male Elbow (BRASS) C



Size	D	L	H	H1	M
1/2"X1/2"	15.9	12.8	25	29.5	1/2"
3/4"X3/4"	22.2	17.9	34	32.7	3/4"
1"X1"	22.2	17.9	43.5	41	1"
3/4"X1/2"	28.6	23	34	36.5	1/2"
1"X1/2"	28.6	23	36	36.5	1/2"
1"X3/4"	28.6	23	36.6	37.3	3/4"

Male Tee (BRASS) C



Size	D	L1	L	H	M
1/2"X1/2"	15.9	12.8	50	29.5	1/2"
3/4"X3/4"	22.2	18.2	68	32.7	3/4"
1"X1"	28.6	23	85.5	39.8	1"
3/4"X1/2"	22.2	18.2	68	36.5	1/2"
1"X1/2"	28.6	23	72	36.5	1/2"
1"X3/4"	28.6	23	75	37.5	3/4"

Compression Coupling



Size	D	D1	L
1/2"	20.33	59.1	35.5
3/4"	26.3	59.7	42.4

Female Elbow (BRASS) C



Size	D	L	H	H1	M
1/2"X1/2"	15.9	12.8	25	29.5	1/2"
3/4"X3/4"	22.2	17.9	34	32.7	3/4"
1"X1"	22.2	17.9	34	32.7	1"
3/4"X1/2"	28.6	23	36	36.5	1/2"
1"X1/2"	28.6	23	36	36.5	1/2"
1"X3/4"	28.6	23	36	39.3	3/4"

Female Tee



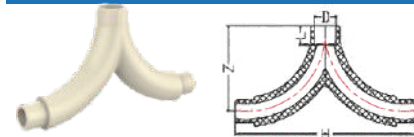
Size	D	L1	L	H	M
1/2"X1/2"	15.9	12.8	50	29.5	1/2"
3/4"X3/4"	22.2	18.2	68	32.7	3/4"
1"X1"	22.2	23	85.5	39.8	1"
3/4"X1/2"	22.2	18.2	68	36.5	1/2"
1"X1/2"	28.6	23	72	36.5	1/2"
1"X3/4"	28.6	23	75	37.5	3/4"

Male-Female Tank Adapter



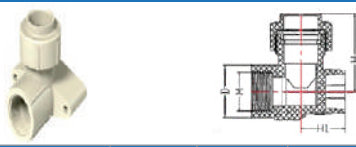
Size	D1	L	H	L1	H	M	M1
3/4"	45	26	13.7	14	66	20	3/4"
1"	55	29	18.8	18.5	71	25.5	1"

Tee Mixer



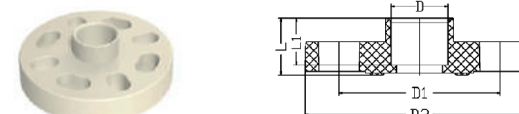
Size	D	L	Z	H
1/2"	15.9	13.5	60.5	130

Ear Coupling Elbow



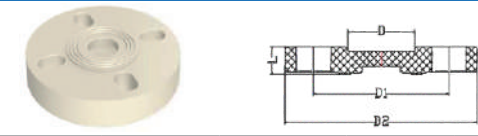
Size	D	H1	H	M
1/2"	34.57	29	37.3	1/2"
3/4"	28	21	31.3	3/4"

Flange



Size	D	D1	D2	L1	L
1"	28.6	81	115	23.38	26.7
1-1/4"	34.9	90.62	125	28.9	32.0
1-1/2"	41.3	98.20	135	35.0	38.55
2"	54.0	119.14	160	43.6	48.1

Blind Flange



Size	D	D1	D2	L1
1"	40.22	81	115	26.7
1-1/4"	49	90.62	125	32.0
1-1/2"	56	98.20	135	38.55
2"	74	119.14	160	48.1

Running Trap

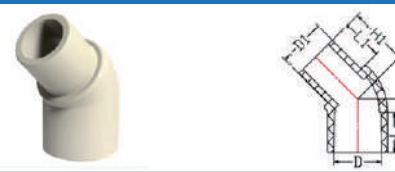
Size	D	D1	L
1/2"	21.34	28.8	240
3/4"	26.67	34.5	250
1"	33.40	42.5	260

Female Tee (Brass) C



Size	D	D1	L1	L2	L
1/2"	15.9	21.30	13.7	22.72	38.72
3/4"	22.2	26.59	18.8	25.90	46.7
1"	28.6	33.36	23.85	29.0	55.0
1-1/4"	35.2	42.20	28.85	24.3	56.0
1-1/2"	41.68	48.20	36.4	36.4	72.8
2"	54.38	60.35	44.2	39.7	85.9

45 Deg Street Elbow



Size	D	D1	L	L1	H	H1
1/2"	15.9	15.9	13.7	14	18	20
3/4"	22.2	22.2	18.8	18.5	25.5	25.5

Female Elbow (Brass)



Size	D	L	L1	M
3/4"X3/4"	38	17	37	3/4"

Three-Way Female Brass Elbow (Unidirection)



Size	D	L1	L	z	H	H1	M
3/4"X1/2"	22.2	35	18	29.5	220	194	1/2"

Three-Way Female-Brass Elbow (Two Directions)



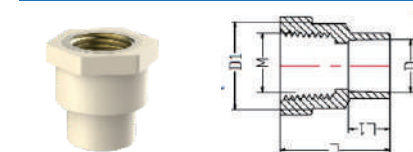
Size	D	L1	L	z	H	H1	M
3/4"X1/2"	22.2	35	18	29.5	182	197	1/2"

Three-Way Female Brass Elbow (Three Directions)



Size	D	L1	L	z	H	H1	M
3/4"X1/2"	22.2	35	18	29.5	182	215.5	1/2"

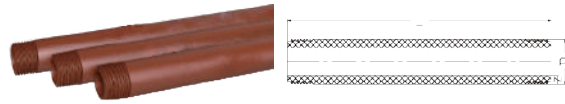
Female Adapter (Brass) C



Size	D	D1	L1	L	M
1/2"	15.9	27	12.8	34	1/2"
3/4"	22.2	32.5	17.9	40	3/4"
1"	28.6	39.1	23.0	49	1"
1-1/4"	34.9	49	28.1	54	1-1/4"
1-1/2"	41.3	55	33.2	61	1-1/2"
2"	54.0	70	43.3	73.5	2"

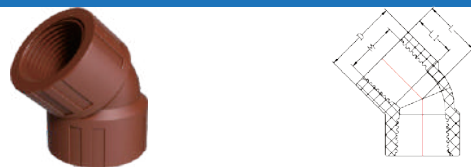


PP Threaded Pipe



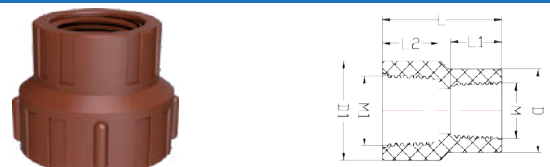
Size	D	Z	L
1/2"	21.34	3.9	4
3/4"	26.67	4.1	4
1"	33.40	4.9	4
1-1/4"	42.16	5.0	4
1-1/2"	48.26	6.3	4
2"	60.32	7.5	4

45 Deg Elbow I



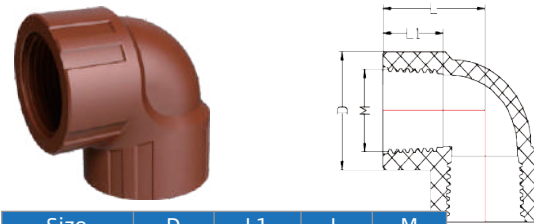
Size	D	L1	L	M
1/2"	28.5	16	22.0	1/2"
3/4"	35.5	18	24.8	3/4"
1"	44.5	21	29.0	1"
1-1/4"	54.0	23.8	35.8	1-1/4"
1-1/2"	60.8	25.0	37.5	1-1/2"
2"	74.5	27.7	45.0	2"

Female Reducer I



Size	D	D1	L1	L2	L	M	M1
1/2"X3/8"	24	28.5	14.5	16	34	3/8"	1/2"
3/4"X1/2"	28.5	35.5	16.0	18	38	1/2"	3/4"
1"X1/2"	28.5	44.5	16.0	21	42	1/2"	1"
1"X3/4"	35.5	44.5	17.8	21.7	44	3/4"	1"
1-1/4"X1/2"	28.5	54.0	16.0	23.8	44.8	1/2"	1-1/4"
1-1/4"X3/4"	35.5	54.0	18.0	23.8	46.8	3/4"	1-1/4"
1-1/4"X1"	44.5	54.0	21.0	23.8	49.8	1"	1-1/4"
1-1/2"X1/2"	28.5	60.8	16.0	25.0	46.0	1/2"	1-1/2"
1-1/2"X3/4"	35.5	60.8	18.0	25.0	48.0	3/4"	1-1/2"
1-1/2"X1"	44.5	60.8	21.0	25.0	51.0	1"	1-1/2"
1-1/2"X1-1/4"	54.0	60.8	23.8	25.0	53.8	1-1/4"	1-1/2"
2"X1/2"	28.5	74.5	16.0	27.7	50.7	1/2"	2"
2"X3/4"	35.5	74.5	18.0	27.7	50.7	3/4"	2"
2"X1"	44.5	74.5	21.0	27.7	53.7	1"	2"
2"X1-1/4"	54.0	74.5	23.8	27.7	56.6	1-1/4"	2"
2"X1-1/2"	60.8	74.5	25	27.7	57.6	1-1/2"	2"

90 Deg Elbow I



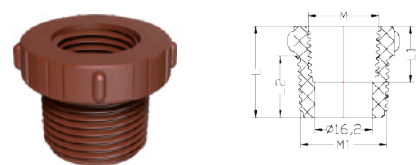
Size	D	L1	L	M
1/2"	28.5	16	27	1/2"
3/4"	35.5	18	31	3/4"
1"	44.5	21	36.6	1"
1-1/4"	54.0	23.8	43.4	1-1/4"
1-1/2"	60.8	25.0	49.8	1-1/2"
2"	74.5	27.7	60.7	2"

Female Tee I



Size	D	L1	L	M
1/2"	28.5	16	27	1/2"
3/4"	35.5	18	31	3/4"
1"	44.5	21	36.6	1"
1-1/4"	54.0	23.8	43.4	1-1/4"
1-1/2"	60.8	25.0	49.8	1-1/2"
2"	74.5	27.7	60.7	2"

F/M Adaptor I



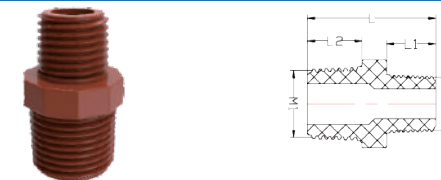
Size	L1	L2	L	M	M1
3/4"X1/2"	16.0	17.5	26.0	1/2"	3/4"
1"X1/2"	16.0	20.5	29.5	1/2"	1"
1"X3/4"	17.5	20.5	29.5	3/4"	1"
1-1/4"X1/2"	16.0	23.8	33.8	1/2"	1-1/4"
1-1/4"X3/4"	17.5	23.8	33.8	3/4"	1-1/4"
1-1/4"X1"	20.5	23.8	33.8	1"	1-1/4"
1-1/2"X1/2"	16.0	25.0	36.0	1/2"	1-1/2"
1-1/2"X3/4"	17.5	25.0	36.0	3/4"	1-1/2"
1-1/2"X1"	20.5	25.0	36.0	1"	1-1/2"
2"X1/2"	16.0	27.7	38.7	1/2"	2"
2"X3/4"	17.5	27.7	38.7	3/4"	2"
2"X1"	20.5	27.7	38.7	1"	2"
2"X1-1/4"	23.8	27.7	38.7	1-1/4"	2"
2"X1-1/2"	25.0	27.7	38.7	1-1/2"	2"

Female Coupling I



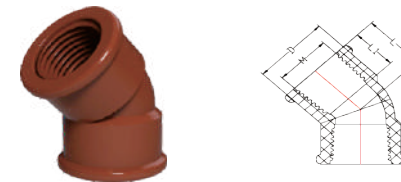
Size	D	L1	L	M
1/2"	28.5	16	34.4	1/2"
3/4"	35.5	18	38.5	3/4"
1"	44.5	21	44.5	1"
1-1/4"	54.0	23.8	52.2	1-1/4"
1-1/2"	60.8	25.0	53.7	1-1/2"
2"	74.5	27.7	61.6	2"

Reducing Nipple I



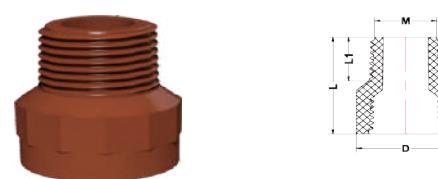
Size	L1	L2	L	M	M1
3/8"X1/2"	14	15.5	36.5	3/8"	1/2"
1/2"X3/4"	15.5	17.5	40	1/2"	3/4"
1/2"X1"	15.5	20.5	44	1/2"	1"
3/4"X1"	17.5	20.5	46	3/4"	1"

45 Deg Elbow II



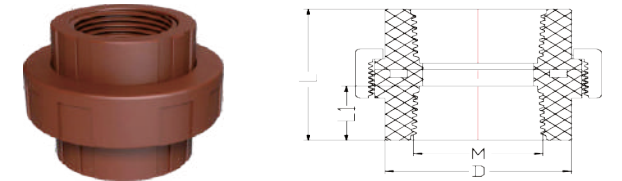
Size	D	L1	L	M
1/2"	27.2	16	27	1/2"
3/4"	33	18	31	3/4"
1"	41.5	21	36.6	1"

F/M Nipple



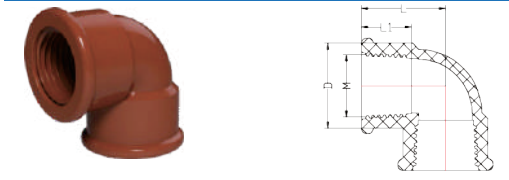
Size	D	L1	L	M
1/2"X1/2"	28.2	15	33	1/2"

Female Union I



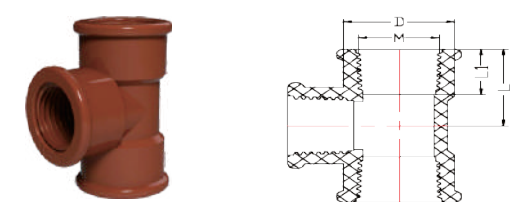
Size	D	L	H	H1
25X20	24.9	18	27	29
32X20	31.9	22.5	32	34
32X25	31.9	22.5	40	36
40X25	39.9	26	47	39.5
40X32	39.9	26	57.5	43.4

90 Deg Elbow II



Size	L1	L2	L	M
1/2"	27.2	16	27	1/2"
3/4"	33	18	31	3/4"
1"	41.5	21	36.6	1"

Female Tee II



Size	D	L1	L	M
1/2"	27.2	16	27	1/2"
3/4"	33	18	31	3/4"
1"	41.5	21	36.6	1"

Female Reducer II



Size	L1	L2	L	M	M1
3/4"X1/2"	15.5	17.5	38	1/2"	3/4"



Female Coupling II



Size	D	L1	L	M
1/2"	27.2	16	27	1/2"
3/4"	16	18	38.5	3/4"
1"	82	21	44.5	1"

Female Cap II



Size	D	L1	L	M
1/2"	28.5	16	21.5	1/2"
3/4"	35.5	18	23.8	3/4"
1"	44.5	21	28	1"
1-1/4"	54.0	23.8	32.4	1-1/4"
1-1/2"	60.8	25	35	1-1/2"
2"	74.5	27.7	39	2"

Reducing Tee II



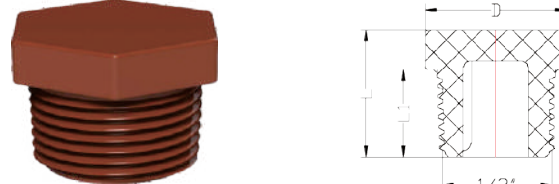
Size	D	D1	L	L1	M	M1
1/2"X3/4"	33	27.2	29	30.1	3/4"	1/2"
3/4"X1/2"	27.2	33	29	31	1/2"	3/4"
1"X1/2"	27.2	41.5	31.6	35.6	1/2"	1"
1"X3/4"	33	41.5	33.6	33.6	3/4"	1"

Reducing Elbow II



Size	D	D1	L1	L2	L3	L4	M	M1
3/4"X1/2"	33	27.2	16	18	26.1	31	1/2"	3/4"
1"X1/2"	41.5	27.2	16	21	30.9	35.3	1/2"	1"

Male Plug II



Size	D	L1	L	M
1/2"	25	15.5	22.5	1/2"
3/4"	30.7	17.5	24.5	3/4"
1"	38	20.5	28.5	1"

Male Elbow 11



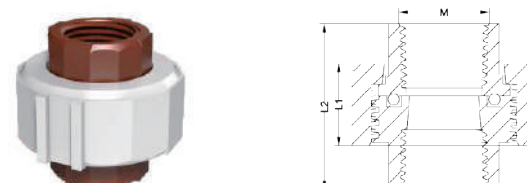
Size	L1	L2	L	M
1/2"	16	27	30.7	1/2"
3/4"	18	31	36.5	3/4"
1"	21	36.5	43.6	1"

Nipple



Size	D	L1	L	M
1/2"	13.8	38.3	15.0	1/2"
3/4"	18.7	42.3	17.5	3/4"
1"	21.5	49	20.5	1"
1-1/4"	28.5	56.7	24	1-1/4"
1-1/2"	33.8	60	25	1-1/2"
2"	44.5	66.5	27.7	2"

Female Union II



Size	L1	L2	M
1/2"	19.2	39±2	1/2"
3/4"	19.4	40.1±2	3/4"
1"	23.8	47±2	1"

Tank Nut



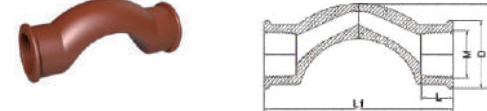
Size	D	L	L1	M
1/2"	65.5	89.1	18.9	1/2"
3/4"	64.2	91	21	3/4"
1"	73	95.6	25.1	1"
1-1/4"	86	100	29.5	1-1/4"
1-1/2"	92.4	101.1	30.6	1-1/2"
2"	106.6	104.2	33.6	2"

Female Tee (Brass) 11



Size	D	L	L1	L2	M	M1
1/2"X1/2"	27.2	65	16	34	1/2"	1/2"
3/4"X3/4"	33.0	76	18	37	3/4"	3/4"
1"X1/2"	41.5	75	21	39.5	1"	1/2"
1"X3/4"	41.5	81	21	39.5	1	3/4"

Step Over Bend



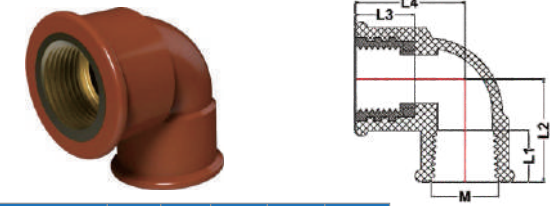
Size	D	L	L1	H	M
3/4"	37.5	18	106	47	3/4"

Long Elbow



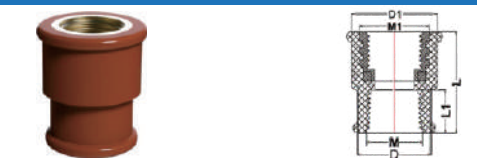
Size	D	L	H	M
3/4"	37.5	18	47	3/4"

90 Deg Elbow (Brass) II



Size	L1	L2	L3	L4	M
1/2"X1/2"	16	32	18.5	34	1/2"
3/4"X3/4"	18	37	19.5	37	3/4"

Female Coupling (Brass) II



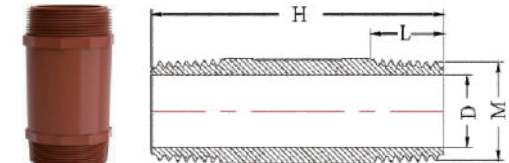
Size	D	D1	L	L1	M	M1
1/2"X1/2"	27.2	32.2	37.5	16	1/2"	1/2"
3/4"X3/4"	33.0	38.2	40.5	18	3/4"	3/4"

Female Elbow



Size	D	L	H	M
3/4"	35.5	18	55	3/4"

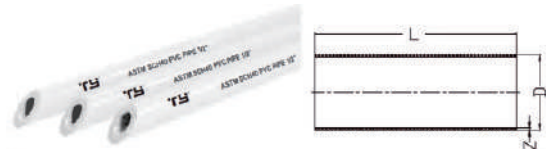
Nipple



Size	D	L	H	M
1/2"	14.8	15	60	1/2"
1/2"	14.8	15	100	1/2"
3/4"	19.7	17	60	3/4"
3/4"	19.7	17	100	3/4"
1"	24.5	20	60	1"
1"	24.5	20	100	1"



PVC-U SCH40 Pipe



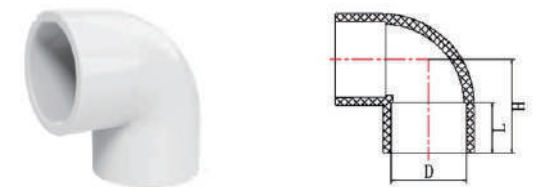
Size	D	Z	L
1/2"	21.34	1.7 /1.9 /2.77	4
3/4"	26.67	1.9 /2.0 /2.87	4
1"	33.40	2.2 /2.4 /3.38	4
1-1/4"	42.16	2.7 /3.56	4
1-1/2"	48.26	3.2 /3.68	4
2"	60.32	3.91 /4.2	4
2-1/2"	73.02	5.16	4
3"	88.90	5.49 /5.7	4
4"	114.3	6.02 /7.3	4

Coupling



Size	D	L	H
1/2"	21.34	17.5	2.5
3/4"	26.67	18.5	3
1"	33.40	22.5	3.5
1-1/4"	42.16	24.0	3.5
1-1/2"	48.26	28.0	3.5
2"	60.32	29.5	5
2-1/2"	73.02	44.5	5
3"	88.90	48	5.5
4"	114.3	51	6

90 Deg Elbow



Size	D	L	H
1/2"	21.34	17.5	30
3/4"	26.67	18.5	33.5
1"	33.40	22.5	41.5
1-1/4"	42.16	24.0	47.5
1-1/2"	48.26	28.0	54.5
2"	60.32	29.5	63.5
2-1/2"	73.02	44.5	85
3"	88.90	48	96.5
4"	114.3	51	113

45 Deg Elbow



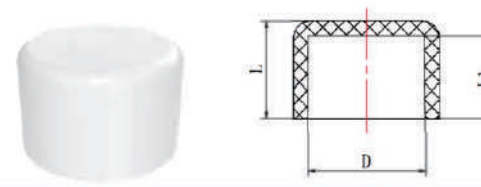
Size	D	L	H
1/2"	21.34	17.5	30
3/4"	26.67	18.5	33.5
1"	33.40	22.5	41.5
1-1/4"	42.16	24.0	47.5
1-1/2"	48.26	28.0	54.5
2"	60.32	29.5	63.5
2-1/2"	73.02	44.5	85
3"	88.90	48	96.5
4"	114.3	51	113

Tee



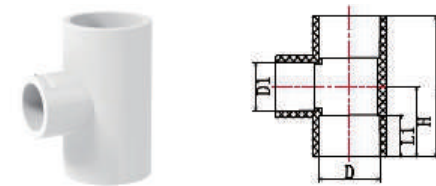
Size	D	L1	H	L
1/2"	21.34	17.5	30	60
3/4"	26.67	18.5	33.5	67
1"	33.40	22.5	41.5	83
1-1/4"	42.16	24.0	47.5	95
1-1/2"	48.26	28.0	54.5	109
2"	60.32	29.5	63.5	127
2-1/2"	73.02	44.5	85	170
3"	88.90	48	96.5	193
4"	114.3	51	113	226

Cap



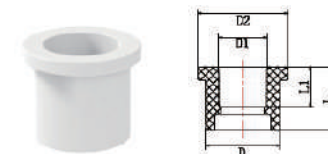
Size	D	L	H
1/2"	21.34	17.5	20.0
3/4"	26.67	18.5	21.5
1"	33.40	22.5	26.0
1-1/4"	42.16	24.0	27.5
1-1/2"	48.26	28.0	31.5
2"	60.32	29.5	34.5
2-1/2"	73.02	44.5	49.5
3"	88.90	48	53.5
4"	114.3	51	57.0

Reducing Tee



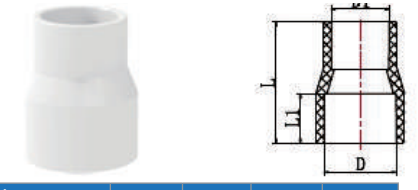
Size	D	D1	L1	H	L
3/4"X1/2"	26.67	21.34	17.5	30.8	61.6
1"X1/2"	33.4	21.34	18.5	35.3	70.6
1"X3/4"	33.4	26.67	18.5	38	76
1-1/4"X1/2"	42.16	21.34	24.82	39.44	78.87
1-1/4"X3/4"	42.16	26.67	24	39.8	79.6
1-1/4"X1"	42.16	33.40	24	43.2	86.4
1-1/2"X1/2"	48.26	21.34	28.82	43.42	86.83
1-1/2"X3/4"	48.26	26.67	28.82	46.09	92.17
1-1/2"X1"	48.26	33.40	28	47.2	94.4
1-1/2"X1-1/4"	48.26	42.16	28	51.5	103.0
2"X3/4"	60.32	26.67	30.4	48.69	97.37
2"X1"	60.32	33.40	30.4	51.04	102.07
2"X1-1/4"	60.32	42.16	29.5	54.6	109.2
2"X1-1/2"	60.32	48.26	29.5	57.6	115.2
2-1/2"X1-1/2"	73.02	48.26	44.5	72.6	145.2
2-1/2"X2"	73.02	60.32	44.5	78.6	157.2
3"X2"	88.9	60.32	48	82.5	165
3"X2-1/2"	88.9	73.02	48	88.5	177
4"X2-1/2"	114.3	73.02	51	92	184
4"X3"	114.3	88.90	51	100	200

Reducer Bushing



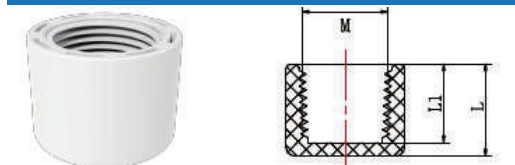
Size	D	D1	D2	L1	L
3/4"X1/2"	26.67	21.34	33	17.5	27.5
1"X1/2"	33.4	21.34	40	17.5	28.5
1"X3/4"	33.4	26.67	40	18.5	28.5
1-1/4"X1/2"	42.16	21.34	46.42	18.5	29.82
1-1/4"X3/4"	42.16	26.67	46.42	19.3	29.82
1-1/4"X1"	42.16	33.40	47.8	22.5	31.5
1-1/2"X1/2"	48.26	21.34	52.56	18.5	33.8
1-1/2"X3/4"	48.26	26.67	52.56	19.3	24.3
1-1/2"X1"	48.26	33.40	54	22.5	34
1-1/2"X1-1/4"	48.26	42.16	54	24	36
2"X1/2"	60.32	21.34	65.63	18.5	36.4
2"X3/4"	60.32	26.67	65.63	19.3	36.4
2"X1"	60.32	33.4	66.5	22.5	36.5
2"X1-1/4"	60.32	42.16	65.63	24.82	36.4
2"X1-1/2"	60.32	48.26	66.5	28	39
2-1/2"X2"	73.02	60.32	82	29.5	53.5
3"X2-1/2"	88.9	73.02	97.5	44.5	57
3"X2"	88.9	60.32	95	29.5	50.5
4"X2"	114.3	60.32	122.5	29.5	51.5
4"X3"	114.3	88.90	124	48	61

Reducing Coupling



Size	D	D1	L1	L
1/2"X3/8"	21.34	6.3	19	61.5
3/4"X1/2"	26.67	21.34	17.5	45
1"X1/2"	33.4	21.34	18.5	50
1"X3/4"	33.4	26.67	18.5	50
1-1/4"X1/2"	42.16	21.34	24.82	54.32
1-1/4"X3/4"	42.16	26.67	24	55
1-1/4"X1"	42.16	33.40	24	60
1-1/2"X1/2"	48.26	21.34	28.84	59.3
1-1/2"X3/4"	48.26	26.67	28.8	60.1
1-1/2"X1"	48.26	33.40	28	65
1-1/2"X1-1/4"	48.26	42.16	28	67
2"X1/2"	60.32	26.67	30.4	65.7
2"X3/4"	60.32	33.4	30.4	69.62
2"X1"	60.32	42.16	29.5	70
2"X1-1/4"	60.32	48.26	29.5	72
2"X1-1/2"	73.02	48.26	44.5	90
2-1/2"X2"	73.02	60.32	44.5	92
3"X2-1/2"	88.9	60.32	48	97
3"X2"	88.9	73.02	48	110
4"X2"	114.3	73.02	51	125
4"X3"	114.3	88.90	51	130

Female Cap



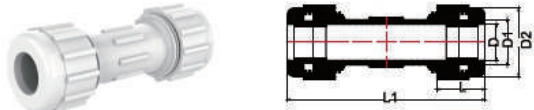
Size	L	L1	M
1/2"	28	21	1/2"
3/4"	21	26	3/4"
1"	21	26	1"

Running Trap



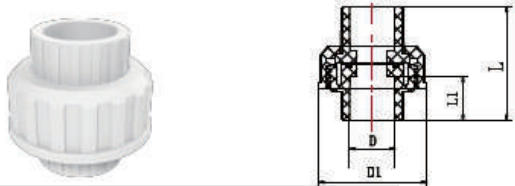
Size	D	D1	L
1/2"	21.34	28.8	240
3/4"	26.67	34.5	250
1"	33.40	42.5	260

Compression Coupling



Size	D	D1	D2	L	L1
1/2"	21.34	29	44	30	124
3/4"	26.67	34.7	49	31	128
1"	33.40	42	56.1	35	145
1-1/4"	42.16	51	67.8	37	165
1-1/2"	48.26	57.2	74.2	39.5	185
2"	60.32	70.1	87.7	46	212
2-1/2"	73.02	86.3	105.1	53	246
3"	88.90	102.6	122	56	277
4"	114.3	102.5	151	62.5	315

Union



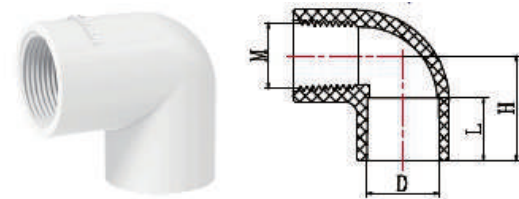
Size	D	D1	L1	L
1/2"	21.34	51.6	17.5	54.5
3/4"	26.67	65.8	18.5	58.2
1"	33.40	74	22.5	68.8
1-1/4"	42.16	87	24	75.3
1-1/2"	48.26	102.5	28	83
2"	60.32	120	29.5	103.2

Female Adapter



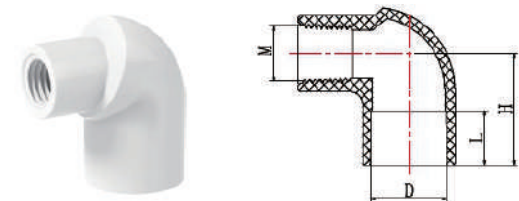
Size	D	L1	L	M
1/2"	21.34	17.5	41.5	1/2"
3/4"x1/2"	26.67	18.5	39	1/2"
3/4"	26.67	18.5	43	3/4"
1"	33.40	22.5	55	1"
1-1/4"	42.16	24	55	1-1/4"
1-1/2"	48.26	28	61.5	1-1/2"
2"	60.32	29.5	62	2"
2-1/2"	73.02	44.5	91	2-1/2"
3"	88.90	48	95	3"
4"	114.3	51	100	4"

Female Elbow



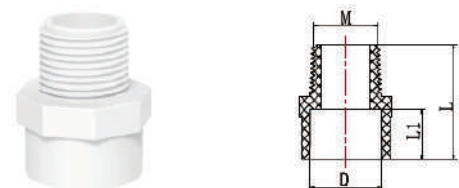
Size	D	L	H	M
1/2"	21.34	17.5	31.2	1/2"
3/4"	26.67	18.5	33.5	3/4"
1"	33.40	22.5	42.5	1"
1-1/4"	42.16	24	48.5	1-1/4"
1-1/2"	48.26	28	54.2	1-1/2"
2"	60.32	29.5	63.5	2"

Female Reducing Elbow



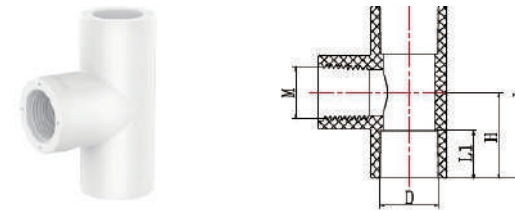
Size	D	L	Z	M
1/2"x3/4"	21.34	17.5	37.5	3/4"
3/4"x1/2"	26.67	18.5	44.5	1/2"
1"x1/2"	33.40	22.5	51.5	1/2"
1"x3/4"	33.40	22.5	51.5	3/4"

Male Adapter



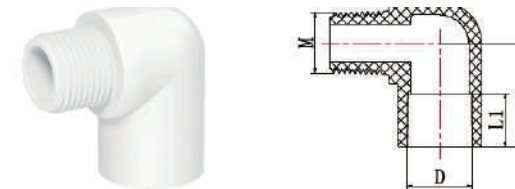
Size	D	L1	L	M
1/2"	21.34	17.5	41.5	1/2"
1/2" X 3/4"	21.34	17.5	41.5	3/4"
3/4"x1/2"	26.67	18.5	39	3/4"
3/4"	26.67	18.5	43	1/2"
1"	33.40	22.5	55	1"
1-1/4"	42.16	24	55	1-1/4"
1-1/2"	48.26	28	61.5	1-1/2"
2"	60.32	29.5	62	2"
2-1/2"	73.02	44.5	91	2-1/2"
3"	88.90	48	95	3"
4"	114.3	51	100	4"

Female Tee



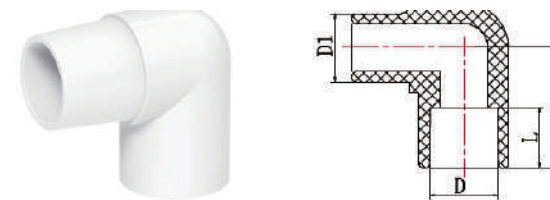
Size	D	L1	H	L	M
1/2"	21.34	17.5	32.5	65	1/2"
3/4"	26.67	18.5	42.0	84	3/4"
1"	33.40	22.5	48.3	96.6	1"

Male Elbow



Size	D	L1	H	M
1/2"	21.34	17.5	35	1/2"
3/4"	26.67	18.5	38.5	3/4"
1"	33.40	22.5	46	1"

Street Elbow



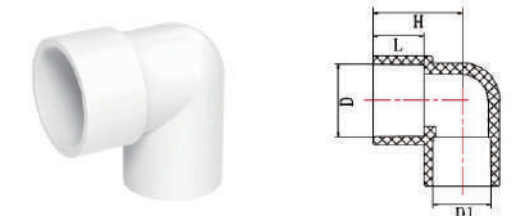
Size	D1	D	H	L
1/2"	21.34	21.34	35	17.5
3/4"	26.67	26.67	42.0	18.5
1"	33.40	33.40	46	22.5

Street Elbow(Thread)



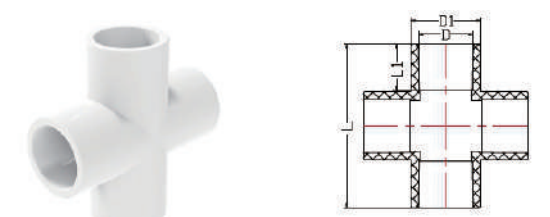
Size	M1	L1	H	M
3/4"	3/4"	18.5	38.5	3/4"

Reducing Elbow



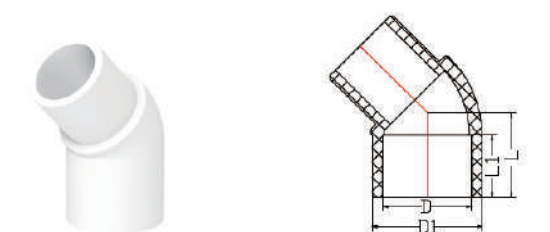
Size	D	D1	L	H
3/4"x1/2"	26.67	21.34	18.5	33
1"x1/2"	33.40	21.34	22.5	38
1"x3/4"	33.40	26.67	22.5	40

Cross



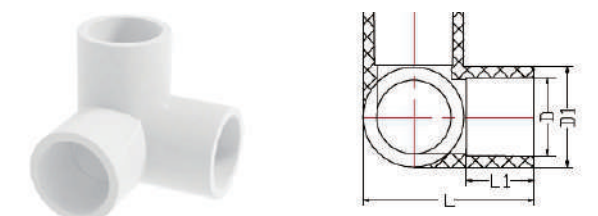
Size	D	D1	L1	L
1/2"	21.34	27.34	18.5	65.23
3/4"	26.67	32.87	19.26	74.09

45 Deg Street Elbow



Size	D	D1	L1	L
1/2"	21.34	27.34	19.02	24.68

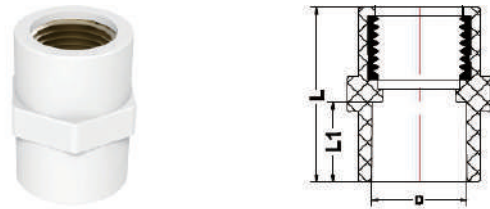
Side Outlet Elbow



Size	D	D1	L1	L
1/2"	21.34	27.34	18.5	46.29
3/4"	26.67	32.87	19.26	53.48

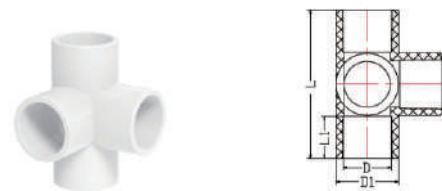


Female Adapter (Brass)



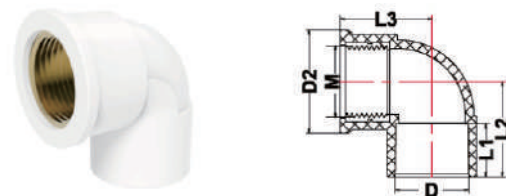
Size	D1	L1	L	M
1/2"	21.34	18.0	39.4	1/2"
3/4"	26.67	19.5	42.4	3/4"
1"	33.40	23.3	48.66	1"

Side Outlet Tee



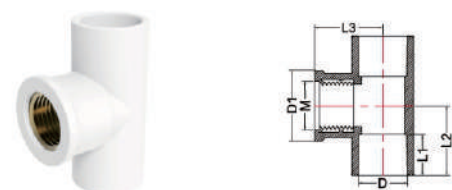
Size	D	D1	L1	L
1/2"	21.34	27.34	18.5	65.23
3/4"	26.67	32.87	19.26	74.09

Female Elbow (Brass)



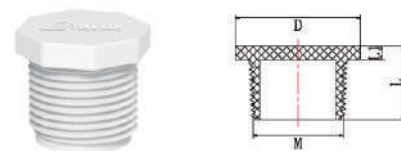
Size	D	D1	L1	L
1/2"	21.34	27.34	18.5	65.23
3/4"	26.67	32.87	19.26	74.09

Female Tee (Brass)



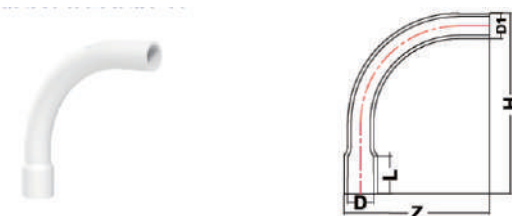
Size	D	D1	L1	L2	L3	M
1/2"	21.34	31.6	18	31	30	1/2"
3/4"	26.67	38.1	19.5	35	33.6	3/4"

Male Plug



Size	D	L1	L	M
1/2"	27	6	23.8	1/2"
3/4"	32.5	6	25.4	3/4"
1"	39	6	31.8	1"
1-1/4"	54	6	32	1-1/4"
1-1/2"	60	6	32	1-1/2"
2"	76	6	34	2"

90 Deg Ell(Long Sweep)



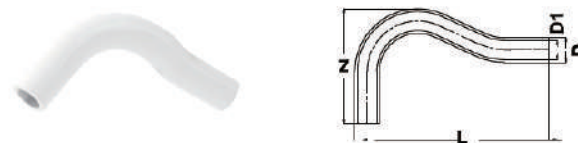
Size	D1	D	L1	L	Z	H
1/2"	21.4	21.4	30	17.5	120	150
3/4"	26.7	26.7	30	18.5	156	165

45 Deg Ell (Long Sweep)



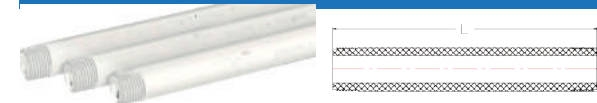
Size	D1	D	L1	L	Z	H
1/2"	21.4	21.4	30	17.5	79	150
3/4"	26.7	26.7	30	18.5	96	180

P Trap



Size	D1	D	L	Z
3/4"	26.7	20.9	210	125

PVC-U Thread Pipe



Size	D	Z	L
1/2"	21.34	2.77	4
3/4"	26.67	2.87	4
1"	33.40	3.38	4
1-1/4"	42.16	3.56	4
1-1/2"	48.26	3.68	4
2"	60.32	4.2	4
2-1/2"	73.02	5.16	4
3"	88.90	5.49/ 5.7	4
4"	114.3	6.02 /7.3	4

Reduction Bushing



Size	Z	L	M	M1
3/4"X1/2"	8	26	3/4"	1/2"
1"X1/2"	8	30	1"	1/2"
1"X3/4"	8	30	1"	3/4"
1-1/4"X3/4"	9	36	1-1/4"	3/4"
1-1/4"X1"	9	36	1-1/4"	1"
1-1/2"X1/2"	10	36	1-1/2"	1/2"
1-1/2"X3/4"	10	36	1-1/2"	3/4"
1-1/2"X1"	10	37	1-1/2"	1"
1-1/2"X1-1/4"	10	37	1-1/2"	1-1/4"
2"X1"	11	43	2"	1"
2"X1-1/4"	11	43	2"	1-1/4"
2"X1-1/2"	11	43	2"	1-1/2"
2-1/2"X1-1/4"	12	44	2-1/2"	1-1/4"
2-1/2"X1-1/2"	12	44	2-1/2"	1-1/2"
2-1/2"X2"	12	44	2-1/2"	2"
3"X1-1/2"	13	49	3"	1-1/2"
3"X2"	13	49	3"	2"
3"X2-1/2"	13	49	3"	2-1/2"
4"X2-1/2"	14	54	4"	2-1/2"
4"X3"	14	54	4"	3"

REDUCING TEE



Size	L	H	Z	M	M1
3/4"X1/2"	58	29	19	3/4"	1/2"
1"X1/2"	66	33	22	1"	1/2"
1"X3/4"	72	36	22	1"	3/4"

Nipple



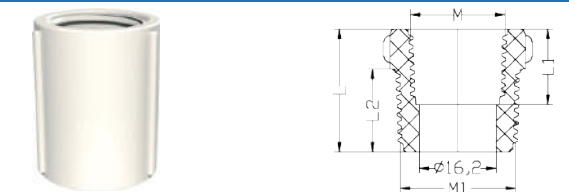
Size	M	L	Z
1/2"	1/2"	42	8
3/4"	3/4"	44	8
1"	1"	50	8
1-1/4"	1-1/4"	56	9
1-1/2"	1-1/2"	58	9
2"	2"	65	9
2-1/2"	2-1/2"	78	10
3"	3"	84	10
4"	4"	90	10

Tee



Size	L	H	Z	M
1/2"	84	42	8	1/2"
3/4"	88	44	8	3/4"
1"	100	50	8	1"
1-1/4"	112	56	9	1-1/4"
1-1/2"	116	58	9	1-1/2"
2"	130	65	9	2"
2-1/2"	158	78	10	2-1/2"
3"	168	84	10	3"
4"	180	90	10	4"

Socket



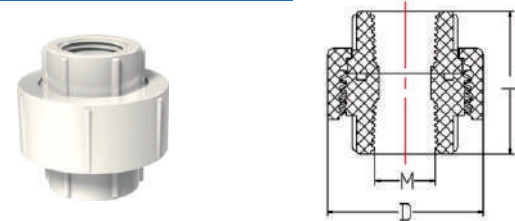
Size	L	Z	M
1/2"	37	3	1/2"
3/4"	40	3	3/4"
1"	47	3	1"
1-1/4"	51.5	3.5	1-1/4"
1-1/2"	53.5	3.5	1-1/2"
2"	59.5	3.5	2"
2-1/2"	72	4	2-1/2"
3"	78	4	3"
4"	84	4	4"

Elbow



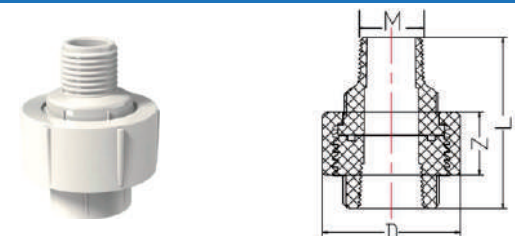
Size	L	Z	M
1/2"	28	17	1/2"
3/4"	32	19	3/4"
1"	38	22	1"
1-1/4"	46	26.5	1-1/4"
1-1/2"	50	26.5	1-1/2"
2"	61	31.5	2"
2-1/2"	74.5	32	2-1/2"
3"	85	36	3"
4"	99.5	40	4"

Unoin



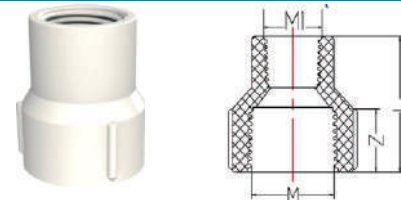
Size	L	Z	M
1/2"	44	48	1/2"
3/4"	50	55	3/4"
1"	61	64	1"
1-1/4"	72	78	1-1/4"
1-1/2"	81	88	1-1/2"
2"	93	102	2"
2-1/2"	101	136	2-1/2"
3"	114	152	3"
4"	144	182	4"

Male Unoin



Size	D	L	Z	M
1/2"	55	63	25	1/2"
3/4"	64	78	26	3/4"
1"	64	78	26	1"
1-1/4"	78	83	26	1-1/4"
1-1/2"	186	88	29	1-1/2"
2"	102	94	31	2"
2-1/2"	136	109	43	2-1/2"

Reducing Socket



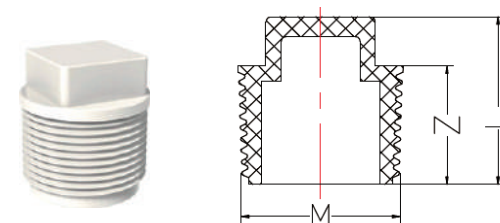
Size	L	Z	M	M1
3/4"X1/2"	40	19	3/4"	1/2"
1"X1/2"	45	22	1"	1/2"
1"X3/4"	45	22	1"	3/4"

Adaptor



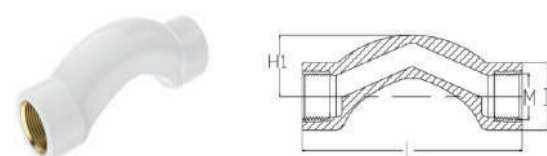
Size	L	Z	M	M1
3/4"X1/2"	39	22.5	3/4"	1/2"
1"X1/2"	42	25.5	1"	1/2"
1"X3/4"	42	25.5	1"	3/4"

Plug



Size	L	Z	M
1/2"	27	17	1/2"
3/4"	30	19	3/4"
1"	35	22	1"
1-1/4"	38.5	26.5	1-1/4"
1-1/2"	39.5	26.5	1-1/2"
2"	46.5	31.5	2"

Over Bend (Brass)



Union With Elbow



Size	L	L1	Z	M
1/2"	32	47	19	1/2"
3/4"	38	55	22	3/4"
1"	38	55	22	1"

Male Union With Elbow



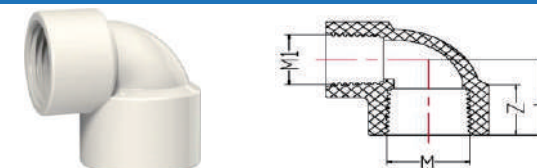
Size	L	L1	Z	M
1/2"	32	38	19	1/2"
3/4"	38	65	22	3/4"
1"	38	55	22	1"

Elbow With Plate



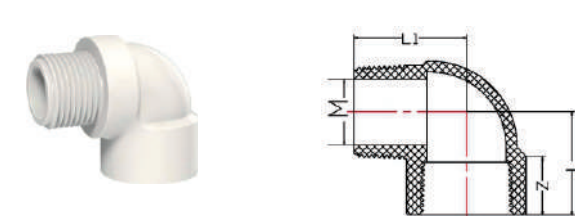
Size	L	Z	M
1/2"	28	19	1/2"

Reducing Elbow



Size	L	Z	M	M1
3/4"X1/2"	31.0	19	3/4"	1/2"
1"X3/4"	35.4	22	1"	3/4"
1-1/4"X1"	41.9	26.4	1-1/4"	1"

Male Elbow



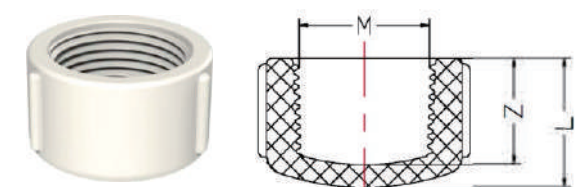
Size	L	Z	L1	M
1/2"	28	17	35	1/2"
3/4"	32	19	37	3/4"
1"	38	22	43	1"
1-1/4"	46	26.5	51	1-1/4"
1-1/2"	50	26.5	56	1-1/2"
2"	61	31.5	66	2"
2-1/2"	74.5	32	80	2-1/2"

Backnut



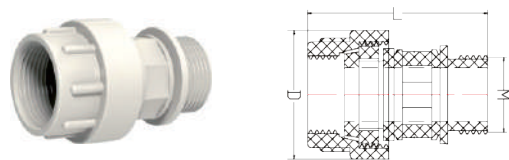
Size	Z	L	D	M
20X1/2"	21	60	64	1/2"
25X3/4"	21	62	70	3/4"
32X1"	21	64	80	1"
40X1-1/4"	26	68	86	1-1/4"
50X1-1/2"	29	73	94	1-1/2"
63X2"	35	79	103	2"

Cap



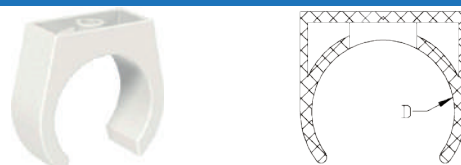
Size	Z	L	M
1/2"	22	17	1/2"
3/4"	24	19	3/4"
1"	27	22	1"
1-1/4"	32	26.5	1-1/4"
1-1/2"	33	26.5	1-1/2"
2"	38	31.5	2"
2-1/2"	40	45	2-1/2"
3"	45	50	3"

Female & Male Adaptor



Size	D	L	M
1"	52.8	74.2	1"

Clamp



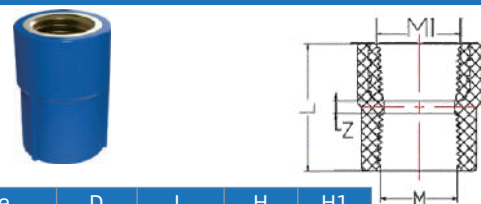
Size	D
1/2"	1/2"
3/4"	3/4"

Reducing Nipple



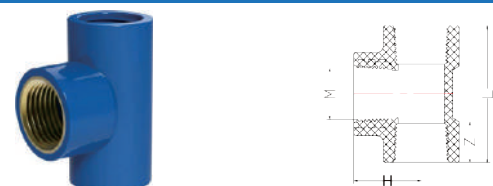
Size	Z	L	M	M1
3/4"X1/2"	8	44	3/4"	1/2"
1"X1/2"	8	47	1"	1/2"
1"X3/4"	8	49	1"	3/4"

Socket (Brass)



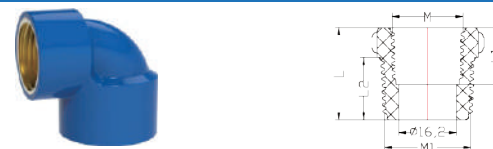
Size	D	L	H	H1
1/2"X1/2"	3	38	1/2"	1/2"
3/4"X1/2"	5	42	3/4"	1/2"

Tee (Brass)



Size	D	L	H	H1
1/2"X1/2"	3	38	1/2"	1/2"
3/4"X1/2"	5	42	3/4"	1/2"

Elbow (Brass)



Size	Z	L	H	H1
1/2"X1/2"	17	28	1/2"	1/2"
3/4"X3/4"	19	32	3/4"	3/4"
3/4"X1/2"	32	38	1/2"	1/2"

Screw Tool



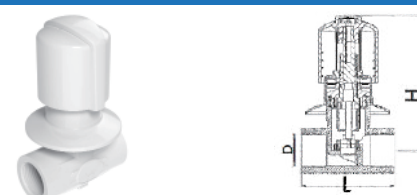
Size	D
1/2"	1/2"
3/4"	3/4"
1"	1"

Screw Tool Kit



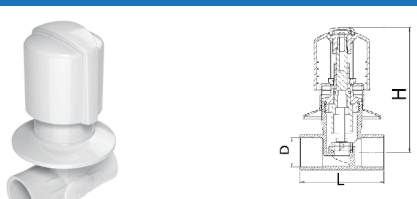
Size	D
20-32	
20-63	

Stop Valve(Thread)



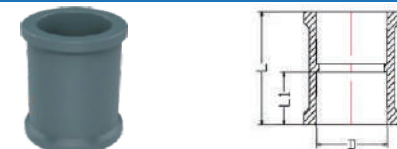
Size	L	H	M
3/4"	73.2	105.5	3/4"

Stop Valve(Socket)



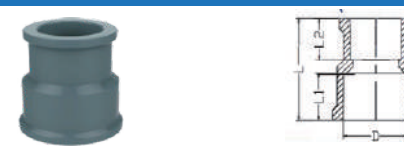
Size	L	H	M
25	71	105.5	25

Socket



Size	D	L	L1
20	19.9	35.5	16
25	24.9	40	18
32	31.9	48	22.5
40	39.9	56.5	26
50	49.9	65.5	31
60	60	79	37.5
63	62.9	79	37.5
75	74.9	93	44
90	89.9	108	51
110	109.9	128	61

Reducing Socket



Size	D	L1	L2	L
25X20	24.9	18	16	40
32x20	31.9	22.5	16	46
32x25	31.9	22.5	18	46
40x25	39.9	26	18.5	55
40x32	39.9	26	22.5	55
50X32	49.9	31	22.5	65
50X40	49.9	31	26	65
60X40	59.9	37	26	79
60X50	59.9	37	31	79
63X40	62.9	37.5	26	79
63X50	62.9	37.5	31	79
75X50	74.9	44	31	93
75X60	74.9	44	37	93
75X63	74.9	44	37.5	93
85X75	89.9	51	44	108
90X60	89.9	51	37	108
90x63	89.9	51	37.5	108
90X75	89.9	51	44	108
110X75	109.9	61	44	128
110X85	109.9	61	51	128
110X90	109.9	61	51	128

Female Elbow (Brass)



Size	D	L	H	H1	M
20X1/2"	19.9	16	27	29	1/2"
25X1/2"	24.9	18.5	32	34	1/2"
25X3/4"	24.9	18.5	32	34	3/4"

90 Deg Elbow



Size	D	H	L
20	19.9	27	16
25	24.9	32	18
32	31.9	40	22.5
40	39.9	47	26
50	49.9	57.5	31
60	60	69.5	37.5
63	62.9	69.5	37.5
75	74.0	83.5	44
90	89.9	99	51
110	109.9	124	61

Reducing Tee



Size	D	L1	H	L
25X20	24.9	18	29	59
32x20	24.9	22.5	34	68
32x25	31.9	22.5	36	73
40x25	39.9	26	39.5	82
40x32	39.9	26	43.5	90
50X25	49.9	31	43.5	90
50X32	49.9	31	48	101
50X40	49.9	31	51.5	106
63X40	62.9	37.5	58.5	117
63X50	62.9	37.5	63	126
75X50	74.9	44	70	142
75X60	74.9	44	77	155
75X63	74.9	44	77	155
90x63	89.9	51	85	171
90X75	89.9	51	92	91.5
110X75	109.9	61	102	103.5
110X90	109.9	61	109	111

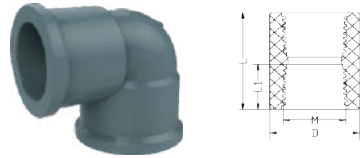
Female Socket (Brass)



Size	D	L1	L	M
20X1/2"	19.9	16	37	1/2"
25X1/2"	24.9	18.5	40	1/2"
25X3/4"	24.9	18.5	40	3/4"



Reducing Elbow



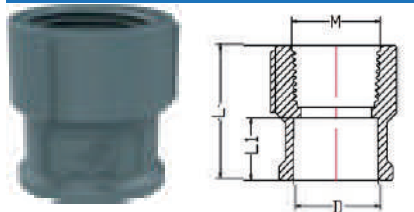
Size	D	L	H	H1
25X20	24.9	18	27	29
32x20	31.9	22.5	32	34
32x25	31.9	22.5	40	36
40X25	39.9	26	47	39.5
40X32	39.9	26	57.5	43.4

Tee



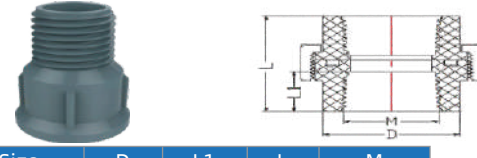
Size	D	H	L	L1
20	19.9	26.7	53.7	16.2
25	24.9	32	64	18.5
32	31.9	40	80	22.5
40	39.9	47	94	26.2
50	49.9	57.5	115	31
60	60	69.5	139	37.5
63	62.9	69.5	139	37.5
75	74.9	83.5	167	44
85	89.9	99	198	51
90	89.9	99	198	51
110	109.9	124	248	61

Female Socket



Size	D	L1	L	M
20X1/2"	19.9	16	37.5	1/2"
25X1/2"	24.9	18	39	1/2"
25X3/4"	24.9	18	40	3/4"
32X1"	31.9	22.5	48	1"
40X1-1/4"	39.9	26	56.5	1-1/4"
50X1-1/2"	49.9	31	60	1-1/2"
60X2"	59.9	37.5	73	2"
63X2"	62.9	37.5	73	2"
75X2-1/2"	74.9	44	85	2-1/2"
90X3"	89.9	51	94	3"
110X4"	109.9	61	110	4"

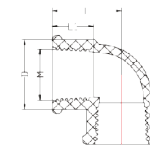
Male Socket



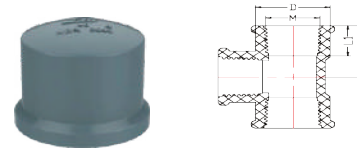
Size	D	L1	L	M
20X1/2"	19.9	16	37.5	1/2"
25X3/4"	24.9	18	42	3/4"
32X1"	31.9	22.5	48	1"
40X1-1/4"	39.9	26	55.5	1-1/4"
50X1-1/2"	49.9	31	66	1-1/2"
60X2"	59.9	37.5	78	2"
63X2"	62.9	37.5	78	2"
75X2-1/2"	74.9	44	88	2-1/2"
90X3"	89.9	51	102	3"
110X4"	109.9	61	117	4"

45 Deg Elbow

Size	D	H	L
20	19.9	21.5	16
25	24.9	25.6	18
32	31.9	31	22.5
40	39.9	36.5	26
50	49.9	44.5	31
60	59.9	51.5	37.5
63	62.9	51.5	37.5
75	74.9	63.5	44
85	89.9	74.5	51
90	89.9	74.5	51
110	109.9	93.5	61



90 Deg Elbow II



Size	D	H	L1	L
20	19.9	21.5	16	22
25	24.9	25.6	18	25
32	31.9	31	22.5	28
40	39.9	36.5	26	33
50	49.9	44.5	31	40
60	59.9	51.5	37.5	50
63	62.9	51.5	37.5	50
75	74.9	63.5	44	56
90	89.9	74.5	51	65
110	109.9	93.5	61	80

Female Elbow



Size	D	L	H	H1	M
20X1/2"	19.9	16	27	29	1/2"
25X1/2"	24.9	18	29	30	1/2"
25X3/4"	24.9	18	32	34	3/4"
32X3/4"	31.9	22.5	37.17	37.17	3/4"
32X1"	31.9	22.5	40	41	1"

Back Nut



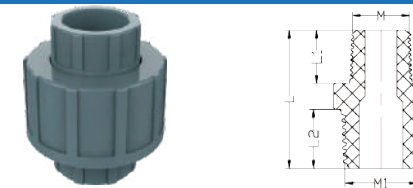
Size	D	Z	L	M
20X1/2"	19.9	16	37.5	1/2"
25X3/4"	24.9	18	42	3/4"
32X1"	31.9	22.5	48	1"
40X1-1/4"	39.9	26	55.5	1-1/4"
50X1-1/2"	49.9	31	66	1-1/2"
60X2"	59.9	37.5	78	2"

Female Tee (Brass)



Size	D	L1	L	H	M
20X1/2"	19.9	16	54	29	1/2"
25X1/2"	24.9	18.5	64	34	1/2"
25X3/4"	24.9	18.5	64	40	3/4"

Union (Light)



Size	D	L1	L
20	19.9	16.5	40.0
25	24.9	19.0	45.0
32	31.9	22.5	54.5

Union



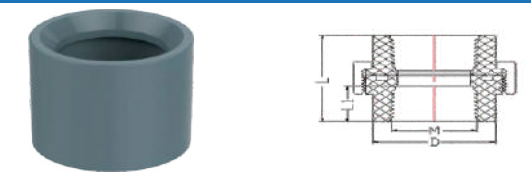
Size	D	D1	Z	L
20	19.9	48	16	44
25	24.9	55	18	50
32	31.9	64	22.5	61
40	39.9	78	25	72
50	49.9	86	31	81
63	62.9	102	37.5	93

Female Tee



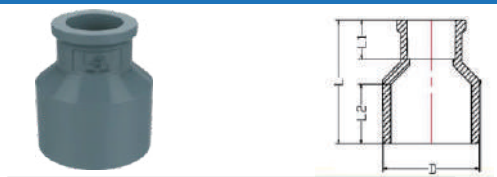
Size	D	L1	L	M
20X1/2"	19.9	16	43	1/2"
25X1/2"	24.9	18	47	1/2"
25X3/4"	24.9	18	51	3/4"
32X3/4"	31.9	22.5	62	3/4"

Short Reducer Bushing



Size	D	D1	H	H1
25X20	19.9	23	18	25
32X25	24.9	28	22.5	32
40X32	31.9	30	22.5	40
50X40	39.9	34	26	50
63X50	49.9	40	31	63

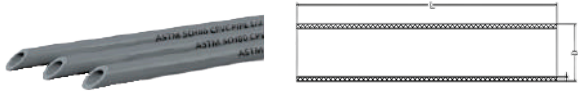
LONG REDUCER BUSHING



Size	D	L2	L1	L
32X20	31.9	22.5	16	42
40X20	39.9	26	16	51
40X25	39.9	26	18.5	51
50X20	49.9	31	16	61
50X25	49.9	31	18.5	61
50X32	49.9	31	22.5	61



CPVC SCH80 Pipe



Size	D	Z		L
		PN1.6	PN2.5	
1/2"	21.3	2.0	2.3	4
3/4"	26.6	2.0	2.8	4
1"	33.4	2.4	3.6	4
1-1/4"	42.2	3.0	4.5	4
1-1/2"	48.3	3.7	5.6	4
2"	60.3	4.7	7.1	4
2-1/2"	73.0	5.6	8.4	4
3"	88.9	6.7	10.1	4
4"	114.3	6.6	10.0	4
5"	141.3	7.4	11.4	4
6"	168.28	8.3	12.7	4
8"	219.08	9.5	14.6	4

90 Deg Elbow



Size	D	L	L 1
1/2"	21.34	50.2	24
3/4"	26.67	56.5	27
1"	33.4	62.5	30
1-1/4"	42.16	68.5	33
1-1/2"	48.26	74.5	36
2"	60.32	80.5	39
2-1/2"	73.02	97.0	46
3"	88.9	103.0	49
4"	114.3	123.0	59
5"	141.0	143.5	67
6"	168.0	163.6	76.8

Union



Size	D	L1	L
1/2"	21.34	24	34
3/4"	26.67	27	37
1"	33.4	30	40
1-1/4"	42.16	33	43
1-1/2"	48.26	36	46
2"	60.32	39	53

Coupling



Size	D	L	L 1
1/2"	21.34	50.2	24
3/4"	26.67	56.5	27
1"	33.4	62.5	30
1-1/4"	42.16	68.5	33
1-1/2"	48.26	74.5	36
2"	60.32	80.5	39
2-1/2"	73.02	97.0	46
3"	88.9	103.0	49
4"	114.3	123.0	59
5"	141.0	139.3	67
6"	168.0	159.6	76.8

45 Deg Elbow



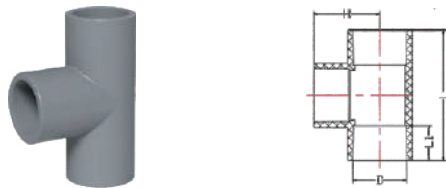
Size	D	L	L 1
1/2"	21.34	30.5	24
3/4"	26.67	34.5	27
1"	33.4	39.5	30
1-1/4"	42.16	45.0	33
1-1/2"	48.26	49.0	36
2"	60.32	54.5	39
2-1/2"	73.02	66	46
3"	88.9	72	49
4"	114.3	88	59
5"	141.0	102	67
6"	168.0	115.7	76.8

Female Elbow



Size	D	L1	L	M
1/2"	21.34	24	36.4	1/2"
3/4"	26.67	27	42.7	3/4"
1"	33.4	30	49.1	1"
1-1/4"	42.16	32	55.62	1-1/4"
1-1/2"	48.26	35	61.81	1-1/2"
2"	60.32	39	72	2"

Tee



Size	D	L	L 1	H
1/2"	21.34	73	24	36.5
3/4"	26.67	85	27	42.5
1"	33.4	99	30	49.5
1-1/4"	42.16	112	33	56
1-1/2"	48.26	126	36	63
2"	60.32	147	39	73.5
2-1/2"	73.02	173	46	86.5
3"	88.9	200	49	100
4"	114.3	248	59	124
5"	141.0	287	67	143.5
6"	168.0	327	76.8	163.6

Cap



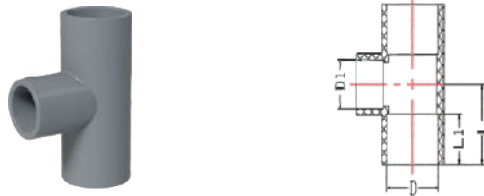
Size	D	L	L 1
1/2"	21.34	34	24
3/4"	26.67	37	27
1"	33.4	40	30
1-1/4"	42.16	43	33
1-1/2"	48.26	46	36
2"	60.32	53	39
2-1/2"	73.02	61	46
3"	88.9	66	49
4"	114.3	67.5	59
6"	168.0	76.8	93.8

Reducing Female Elbow



Size	D	D1	L 1	L2	L3	L
3/4"X1/2"	21.34	26.67	22.7	25.9	36.6	39.9
1"X1/2"	21.34	33.40	22.7	29.1	41.6	43.1
1"X3/4"	26.67	33.40	25.9	29.1	45.5	46.0

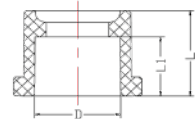
Reducing Tee



Size	D	D1	L 1	L
1/2"X3/4"	21.34	26.67	22.3	37.3
3/4"X1/2"	26.67	21.34	27	39.5
1"X1/2"	33.4	21.34	30	42.5
1"X3/4"	33.4	26.67	30	45.5
1-1/4"X1/2"	42.16	21.34	32	44.9
1-1/4"X3/4"	42.16	26.67	33	48.5
1-1/4"X1"	42.16	33.40	33	51.5
1-1/2"X1/2"	48.26	21.34	36	49.5
1-1/2"X3/4"	48.26	26.67	36	53.5
1-1/2"X1"	48.26	33.4	36	56
1-1/2"X1-1/4"	48.26	42.16	36	61
2"X1/2"	60.3	21.34	39	53.5
2"X3/4"	60.3	26.67	39	46.5
2"X1"	60.3	33.40	39	62.0
2"X1-1/4"	60.3	42.16	39	64
2"X1-1/2"	60.3	48.26	39	64
2-1/2"X1-1/2"	73.02	48.26	46	74
2-1/2"X2"	73.02	60.32	46	80
3"X2"	88.9	60.32	49	83
3"X2-1/2"	88.9	73.02	49	89.5
4"X2"	114.3	60.32	58	90.5
4"X2-1/2"	114.3	73.02	59	99.5
4"X3"	114.3	88.9	59	107.5
6"X3"	168	88.9	76.5	163.6
6"X4"	168	114.3	76.5	163.6

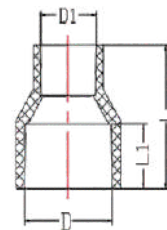


Reducer Bushing



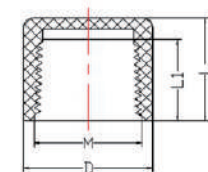
Size	D	L1	L
3/4"X1/2"	21.34	23	34
1"X1/2"	21.34	23	33.5
1"X3/4"	26.67	26	37
1-1/4"X1/2"	21.34	23	40.5
1-1/4"X3/4"	26.67	26	40.5
1-1/4"X1"	33.40	30	40
1-1/2"X1/2"	21.34	23	41
1-1/2"X3/4"	26.67	26	41
1-1/2"X1"	33.40	29	41
1-1/2"X1-1/4"	42.16	33	43
2"X1/2"	21.34	23	45
2"X3/4"	26.67	26	45
2"X1"	33.40	29	45
2"X1-1/2"	48.26	36	46
2-1/2"X2"	60.32	39	53
3"X1-1/2"	48.26	35	55.5
3"X2"	60.32	38	55.5
3"X2-1/2"	73.02	46	61
4"X2"	60.32	38	66
4"X3"	88.9	49	66
5"X4"	141	66.7	75.5
6"X3"	168	76.5	85.3
6"X4"	168	76.5	85.3
6"X5"	168	76.5	85.3

Reducing Coupling



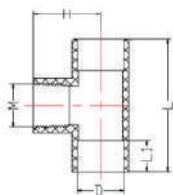
Size	D	D1	L1	L
1/2"X3/4"	21.34	26.67	22.3	37.3
3/4"X1/2"	26.67	21.34	27	39.5
1"X1/2"	33.4	21.34	30	42.5
1"X3/4"	21.34	21.34	30	45.5
1-1/4"X1/2"	42.16	26.67	32	44.9
1-1/4"X3/4"	42.16	33.4	33	48.5
1-1/4"X1"	42.16	33.4	33	51.5
1-1/2"X1/2"	48.26	21.34	36	49.5
1-1/2"X3/4"	48.26	26.67	36	53.5
1-1/2"X1"	48.26	33.4	36	56
1-1/2"X1-1/4"	48.26	42.16	36	61
2"X1/2"	60.3	21.34	39	53.5
2"X3/4"	60.3	26.67	39	46.5
2"X1"	60.3	33.4	39	62
2"X1-1/4"	60.3	42.16	39	64
2X1-1/2"	60.3	48.26	39	64
2-1/2"X1-1/2"	73.02	48.26	46	74
2-1/2"X2"	73.02	60.32	46	80
3"X2"	88.9	60.32	49	83
3"X2-1/2"	88.9	73.02	49	89.5
4"X2"	114.30	60.32	58	90.5
4"X2-1/2"	114.30	114.30	59	99.5
4"X3"	114.30	88.9	59	107.5
6"X3"	168	88.9	76.5	163.6
6"X4"	168	114.30	76.5	163.6

Female Cap



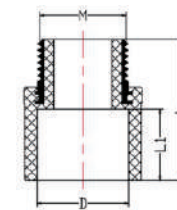
Size	D	L	L1	M
1/2"	29.7	30.5	24	1/2"
3/4"	35.4	33.5	27	3/4"
1"	43.2	37	30	1"

Female Tee S63



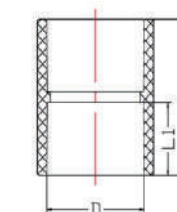
Size	D	L	L1
1/2"	21.34	73	24
3/4"	26.67	84	27
1"	33.4	96	30

Male Adapter



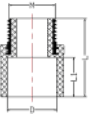
Size	D	L	L1	M
1/2"	21.34	43.5	24	1/2"
3/4"	26.67	53	27	3/4"
1"	33.4	58.5	30	1"
1-1/4"	42.16	64	33	1-1/4"
1-1/2"	48.26	69	36	1-1/2"
2"	60.32	75.5	39	2"
2-1/2"	73.02	93.5	46	2-1/2"
3"	88.9	99.5	49	3"
4"	114.3	113.5	59	4"

Female Adapter



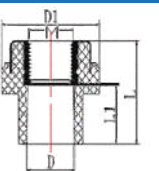
Size	D	L	L1	M
1/2"	21.34	50.5	24	1/2"
3/4"	26.67	56.5	27	3/4"
1"	33.4	62.5	30	1"
1-1/4"	42.16	68.5	33	1-1/4"
1-1/2"	48.26	74.5	36	1-1/2"
2"	60.32	80.5	39	2"
2-1/2"	73.02	97	46	2-1/2"
3"	88.9	103	49	3"
4"	114.3	123	59	4"

Male Adapter (Brass)



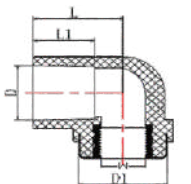
Size	D	L	L1	M
1/2"	21.34	45	24	1/2"
3/4"X1/2"	26.67	46	26	1/2"
3/4"	26.67	51	27	3/4"
1"	33.4	53	30	1"
1"X1/2"	33.4	30	55.5	1/2"
1-1/4"	42.16	62	33	1-1/4"
1-1/2"	48.26	66	36	1-1/2"
2"	60.32	74	39	2"

Female Adapter (Brass)



Size	D	L1	L	D1	M
1/2"X1/2"	21.34	19	24	45	1/2"
1/2"X3/4"	21.34	19	24	45	3/4"
3/4"X3/4"	26.67	21	27	45	3/4"
3/4"X1/2"	26.67	21	27	45	1/2"
1"X1/2"	33.4	29.1	49.2	46	1/2"
1"X1"	33.4	26	30	49.5	1"
1"X3/4"	33.4	26	30	49.5	3/4"
1-1/4"X1-1/4"	42.16	32.8	58.8	64.7	1-1/4"
1-1/2"X1-1/2"	48.26	36	64.4	71.75	1-1/2"
2"	60.32	39.1	70.6	83.8	2"

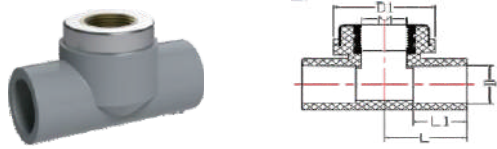
Female Elbow (Brass)



Size	D	L1	L	D1	M
1/2"X1/2"	21.34	24	29	42.5	1/2"
1/2"X3/4"	21.34	24	29	42.5	3/4"
3/4"X3/4"	26.67	27	31	42.5	3/4"
3/4"X1/2"	26.67	27	31	42.5	1/2"
1"X1/2"	33.4	29.1	48.08	43	1/2"
1"X3/4"	33.4	29.1	48.08	43	3/4"
1"X1"	33.4	29.1	48.08	48.05	1"

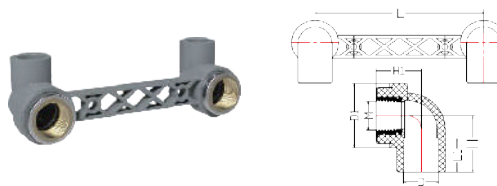


Female Tee (Brass)



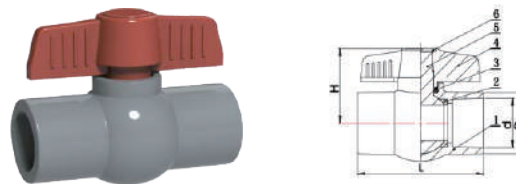
Size	D	D1	L1	L	M
1/2"X1/2"	21.34	42.5	24	34	1/2"
1/2"X3/4"	21.34	42.5	24	34	3/4"
3/4"X3/4"	26.67	42.5	27	37	3/4"
3/4"X1/2"	26.67	42.5	27	37	1/2"
1"X1/2"	33.4	43	28.6	46.1	1/2"
1"X3/4"	33.4	43	28.6	46.1	3/4"

Double Female Elbow (brass)



Size	D	D1	L1	H	H1	L	M
1/2"	21.34	42	22.5	37.5	27.8	149.5	1/2"
3/4"X1/2"	26.67	42	22.5	39.5	29.5	149.5	1/2"

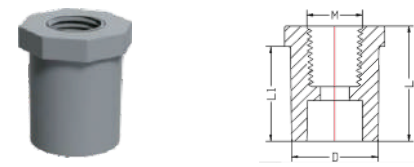
CPVC Ball Valve (Socket)



NO.	Part	Material	QTY
1	Body	CPVC	1
2	Seat Seal	TPE/TPR	2
3	O-Ring	NBR/EPDM	1
4	Handle	ABS	1
5	Ball	CPVC	1
6	Cap	ABS	1

Size	D	L	H	D
15(1/2")	21.34	74	43.0	30.0
20(3/4")	26.67	84	50.6	34.5
25(1")	33.40	98.4	56.8	42.5
32(1-1/4")	42.16	110	63.5	52.0
40(1-1/2")	48.26	127	70.8	61.8
50(2")	60.33	148	81.5	75.2

Female Reducer Bushing



Size	D	L	L1	M
1/2"X1/4"	21.34	28.5	23.5	1/4"
1/2"X3/8"	21.34	28.5	23.5	3/8"
3/4"X1/2"	26.67	33.2	27.2	1/2"

Running Trap



Size	D	D1	L
1/2"	21.34	28.8	240
3/4"	26.67	34.5	250
1"	33.40	42.5	260

Cross



Size	D	L1	L
1/2"	21.34	22.3	35
3/4"	26.67	25.5	39.8
1"	33.40	28.6	46.1

Female Elbow



Size	D	L	M
1/2"	41	69	1/2"
3/4"	46	76	3/4"
1"	56.5	88	1"
1-1/4"	65.5	94	1-1/4"
1-1/2"	71	102.5	1-1/2"
2"	83	103.5	2"

Female Adapter



Size	D	L	L1	M
1/2"	21.34	22.8	42.8	1/2"
3/4"	26.67	25.9	47.9	3/4"
1"	33.40	29.1	55.5	1"
1-1/4"	42.16	32.8	60.3	1-1/4"
1-1/2"	48.26	36.0	65.0	1-1/2"
2"	60.32	39.1	71.7	2"

Male Adapter



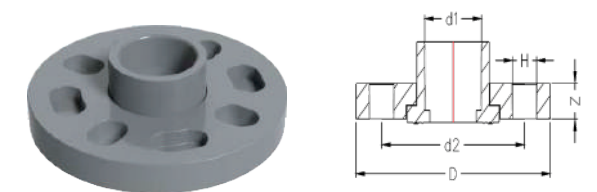
Size	D	L1	L	M
1/2"	21.34	22.8	42.5	1/2"
3/4"X1/2"	26.67	25.9	45.8	1/2"
3/4"	26.67	25.9	47.8	3/4"
1"	33.40	29.1	55.3	1"
1-1/4"	42.16	32.8	60.7	1-1/4"
1-1/2"	48.26	36.0	65.1	1-1/2"
2"	60.32	39.1	71.7	2"

Female Elbow



Size	D	d1	d2	H	Z
1"	115	33.4	79.5	14X4	15
1-1/4"	140	42.16	89	18X4	16
1-1/2"	150	48.26	98.5	18X4	17
2"	165	60.32	120.5	18X4	18

Van STONE FLANGE S79



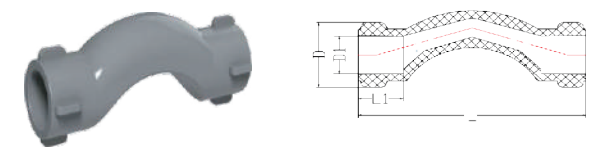
Size	D	d1	d2	H	Z
1"	108	33.40	79.5	15X4	14
1-1/4"	118	42.16	89.0	15X4	16
1-1/2"	127	48.26	98.5	15X4	18
2"	152	60.32	120.5	19X4	19
2-1/2"	178	73.02	139.5	19X4	24
3"	190	88.90	152.5	19X4	24
4"	229	114.30	190.5	19X8	24
6"	279	168.28	241.5	23X8	25

Clip



Size	D	H	H1	L
1/2"	21.3	37.9	52.3	29.6
3/4"	26.7	42.8	57.0	35.8
1"	33.4	51.5	65.2	45.0
1-1/4"	42.16	59.7	74.2	53.6
1-1/2"	48.3	64.9	90.5	66.5
2"	60.3	75.6	100.6	83.8

Over Bend (Short)



Size	D	D1	L1	L
1/2"	36.5	21.34	22.5	114
3/4"	34.89	26.57	25.4	140.8
1"	43.04	33.28	30.02	174.95

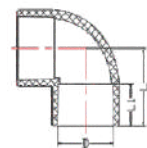


PVC-U SCH80 Pipe S00



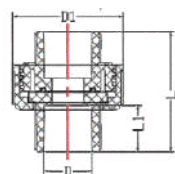
Size	D	Z	L
1/2"	21.3	3.7	4
3/4"	26.7	3.9	4
1"	33.4	4.6	4
1-1/4"	42.2	4.9	4
1-1/2"	48.3	5.1	4
2"	60.3	5.5	4
2-1/2"	73.0	7.1	4
3"	88.9	7.6	4
4"	114.3	8.6	4
5"	141.3	9.52	4
6"	168.28	10.97	4
8"	219.08	12.70	4

90 Deg Elbow S02



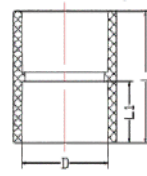
Size	D	L	L 1
1/2"	21.34	24	36.5
3/4"	26.67	27	42.5
1"	33.4	30	49.5
1-1/4"	42.16	33	56.0
1-1/2"	48.26	36	63.0
2"	60.32	39	73.5
2-1/2"	73.02	46	86.5
3"	88.9	49	100.0
4"	114.3	59	124.0
5"	141.0	66.7	143.5
6"	168.0	76.5	163.6

UNION S14



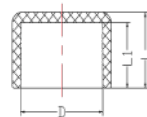
Size	D	L1	L	D1
1/2"	21.34	24	54	48.5
3/4"	26.67	27	60	56.2
1"	33.4	30	68	64.0
1-1/4"	42.16	33	76	75.7
1-1/2"	48.26	36	84	83.4
2"	60.32	39	93	98.3

Coupling S01



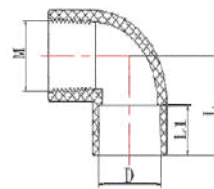
Size	D	L	L 1
1/2"	21.34	24	50.0
3/4"	26.67	27	56.5
1"	33.4	30	62.5
1-1/4"	42.16	33	68.5
1-1/2"	48.26	36	74.5
2"	60.32	39	80.5
2-1/2"	73.02	46	97.0
3"	88.9	49	103.0
4"	114.3	59	123.0
5"	141.0	67	139.3
6"	168.0	76.5	159.6

Cap



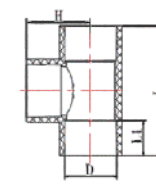
Size	D	L	L 1
1/2"	21.34	34	24
3/4"	26.67	37	27
1"	33.4	40	30
1-1/4"	42.16	43	33
1-1/2"	48.26	46	36
2"	60.32	53	39
2-1/2"	73.02	61	46
3"	88.9	66	49
4"	114.3	67.5	59
6"	168.0	93.8	76.5

Female Elbow S16



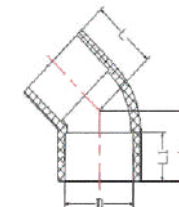
Size	D	L1	L	M
1/2"	21.34	24	36.4	1/2"
3/4"	26.67	27	42.7	3/4"
1"	33.4	30	49.1	1"
1-1/4"	42.16	32	55.62	1-1/4"
1-1/2"	48.26	35	61.81	1-1/2"
2"	60.32	39	72	2"

TEE S04



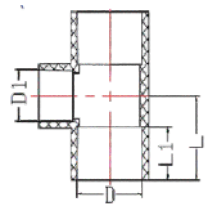
Size	D	L	L 1	H
1/2"	21.34	48	24	36.5
3/4"	26.67	54	27	42.5
1"	33.4	60	30	49.5
1-1/4"	42.16	66	33	56
1-1/2"	48.26	72	36	63
2"	60.32	78	39	73.5
2-1/2"	73.02	92	46	86.5
3"	88.9	98	49	100
4"	114.3	118	59	124
5"	141.0	133.4	66.7	143.5
6"	168.0	153	76.5	163.6

45 Deg Elbow



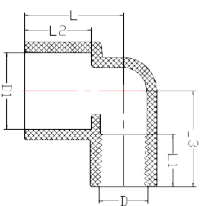
Size	D	L	L 1
1/2"	21.34	30.5	24
3/4"	26.67	34.5	27
1"	33.4	39.5	30
1-1/4"	42.16	45.0	33
1-1/2"	48.26	49.0	36
2"	60.32	54.5	39
2-1/2"	73.02	66	46
3"	88.9	72	49
4"	114.3	88	59
5"	141.0	143.5	66.7

REDUCING TEE



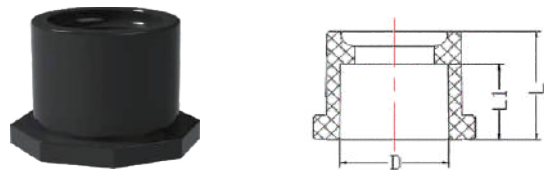
Size	D	D1	L 1	L
1/2"X3/4"	21.34	26.67	22.3	37.3
3/4"X1/2"	26.67	21.34	27	39.5
1"X1/2"	33.4	21.34	30	42.5
1"X3/4"	33.4	26.67	30	45.5
1-1/4"X1/2"	42.16	21.34	32	44.9
1-1/4"X3/4"	42.16	26.67	33	48.5
1-1/4"X1"	42.16	33.40	33	51.5
1-1/2"X1/2"	48.26	21.34	36	49.5
1-1/2"X3/4"	48.26	26.67	36	53.5
1-1/2"X1"	48.26	33.4	36	56
1-1/2"X1-1/4"	48.26	42.16	36	61
2"X1/2"	60.3	21.34	39	53.5
2"X3/4"	60.3	26.67	39	46.5
2"X1"	60.3	33.40	39	62.0
2"X1-1/4"	60.3	42.16	39	64
2"X1-1/2"	60.3	48.26	39	64
2-1/2"X1-1/2"	73.02	48.26	46	74
2-1/2"X2"	73.02	60.32	46	80
3"X2"	88.9	60.32	49	83
3"X2-1/2"	88.9	73.02	49	89.5
4"X2"	114.3	60.32	58	90.5
4"X2-1/2"	114.3	73.02	59	99.5
4"X3"	114.3	88.9	59	107.5
6"X3"	168	88.9	76.5	163.6
6"X4"	168	114.3	76.5	163.6

Reducing Female Elbow



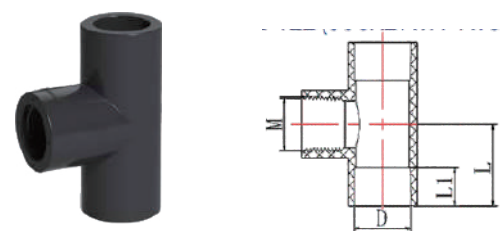
Size	D	D1	L 1	L2	L3	L
3/4"X1/2"	21.34	26.67	22.7	25.9	36.6	39.9
1"X1/2"	21.34	33.40	22.7	29.1	41.6	43.1
1"X3/4"	26.67	33.40	25.9	29.1	45.5	46.0

Reducer Bushing S10



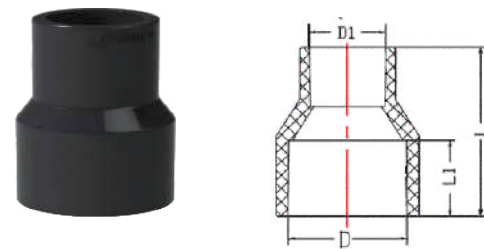
Size	D	L1	L
3/4"X1/2"	21.34	23	34
1"X1/2"	21.34	23	33.5
1"X3/4"	26.67	26	37
1-1/4"X1/2"	21.34	23	40.5
1-1/4"X3/4"	26.67	26	40.5
1-1/4"X1"	33.40	30	40
1-1/2"X1/2"	21.34	23	41
1-1/2"X3/4"	26.67	26	41
1-1/2"X1"	33.40	29	41
1-1/2"X1-1/4"	42.16	33	43
2"X1/2"	21.34	23	45
2"X3/4"	26.67	26	45
2"X1"	33.40	29	45
2"X1-1/4"	42.16	32	46
2"X1-1/2"	48.26	36	46
2-1/2"X2"	60.32	39	53
3"X1-1/2"	48.26	35	55.5
3"X2"	60.32	38	55.5
3"X2-1/2"	73.02	46	61
4"X2"	60.32	38	66
4"X3"	88.9	49	66
5"X4"	141	66.7	75.5
6"X3"	168	76.5	85.3
6"X4"	168	76.5	85.3
6"X5"	168	76.5	85.3

Female Tee S63



Size	D	L	L1	M
1/2"	21.34	36.5	24	1/2"
3/4"	26.67	42	27	3/4"
1"	33.4	48	30	1"

Reducing Coupling S06



Size	D	D1	L1	L
3/4"X1/2"	26.67	21.34	27	60
1"X1/2"	33.4	21.34	30	63
1"X3/4"	33.4	26.67	30	67.3
1-1/4"X1/2"	42.16	21.34	32	64.2
1-1/4"X3/4"	42.16	26.67	33	75
1-1/4"X1"	42.16	33.40	33	69
1-1/2"X1/2"	48.26	21.34	35	68.2
1-1/2"X3/4"	48.26	26.67	35	71.8
1-1/2"X1"	48.26	33.40	36	77
1-1/2"X1-1/4"	48.26	42.16	36	83.5
2"X1/2"	60.3	21.34	39	77.8
2"X3/4"	60.3	26.67	39	81.3
2"X1"	60.3	33.40	39	84.6
2"X1-1/4"	60.3	42.16	39	89
2"X1-1/2"	60.3	48.26	39	94
2-1/2"X1-1/2"	73.02	48.26	46	99
2-1/2"X2"	73.02	60.32	46	102
3"X2"	88.9	60.32	49	106.5
3"X2-1/2"	88.9	73.02	49	115.5
4"X2-1/2"	114.3	73.02	59	124.5
4"X3"	114.3	88.90	59	130
6"X4"	168.28	114.30	76.8	165

Female Cap S64



Size	D	L	L1	M
1/2"	29.7	30.5	24	1/2"
3/4"	35.4	33.5	27	3/4"
1"	43.2	37	30	1"

Male Elbow S65



Size	D	L	L1	M
1/2"	21.34	36.4	24	1/2"
3/4"	26.67	42.7	27	3/4"
1"	33.4	49.1	30	1"

Male Adapter S62



Size	D	L	L1	M
1/2"	21.34	43.5	24	1/2"
3/4"	26.67	53	27	3/4"
1"	33.4	58.5	30	1"
1-1/4"	42.16	64	33	1-1/4"
1-1/2"	48.26	69	36	1-1/2"
2"	60.32	75.5	39	2"
2-1/2"	73.02	93.5	46	2-1/2"
3"	88.9	99.5	49	3"
4"	114.3	113.5	59	4"

Female Adapter S61



Size	D	L	L1	M
1/2"	21.34	50.5	24	1/2"
3/4"	26.67	56.5	27	3/4"
1"	33.4	62.5	30	1"
1-1/4"	42.16	68.5	33	1-1/4"
1-1/2"	48.26	74.5	36	1-1/2"
2"	60.32	80.5	39	2"
2-1/2"	73.02	97	46	2-1/2"
3"	88.9	103	49	3"
4"	114.3	123	59	4"

Male Adapter (Brass)



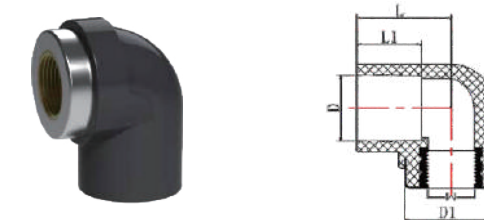
Size	D	L	L1	M
1/2"	21.34	45	24	1/2"
3/4"X1/2"	26.67	46	27	1/2"
3/4"	26.67	51	25.9	3/4"
1"	33.4	53	30	1"
1"X1/2"	33.4	55.5	30	1/2"
1-1/4"	42.16	62	33	1-1/4"
1-1/2"	48.26	66	36	1-1/2"
2"	60.32	74	39	2"

Female Adapter (Brass) S67



Size	D	L1	L	D1	M
1/2"X1/2"	21.34	19	24	45	1/2"
1/2"X3/4"	21.34	19	24	45	3/4"
3/4"X3/4"	26.67	21	27	45	3/4"
3/4"X1/2"	26.67	21	27	45	1/2"
1"X1/2"	33.4	29.1	49.2	46	1/2"
1"X1"	33.4	26	30	49.5	1"
1"X3/4"	33.4	26	30	49.5	3/4"
1-1/4"X1-1/4"	42.16	32.8	58.8	64.7	1-1/4"
1-1/2"X1-1/2"	48.26	36	64.4	71.75	1-1/2"
2"	60.32	39.1	70.6	83.8	2"

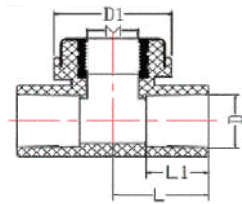
Female Elbow (Brass)



Size	D	L1	L	D1	M
1/2"	21.34	24	29	42.5	1/2"
1/2"X3/4"	21.34	24	29	42.5	3/4"
3/4"X3/4"	26.67	27	31	42.5	3/4"
3/4"X1/2"	26.67	27	31	42.5	1/2"
1"X1/2"	33.4	29.1	48.08	43	1/2"
1"X3/4"	33.4	29.1	48.08	43	3/4"
1"X1"	33.4	29.1	48.08	48.05	1"

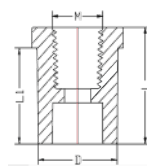


FEMALE TEE (BRASS) S69



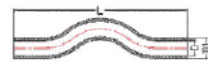
Size	D	D1	L1	L	M
1/2"X1/2"	21.34	42.5	24	34	1/2"
1/2"X3/4"	21.34	42.5	24	34	3/4"
3/4"X3/4"	26.67	42.5	27	37	3/4"
3/4"X1/2"	26.67	42.5	27	37	1/2"
1"X1/2"	33.4	43	28.6	46.1	1/2"
1"X3/4"	33.4	43	28.6	46.1	3/4"

Female Reducer Bushing S72



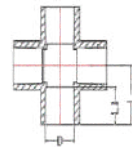
Size	D	L	L1	M
1/2"X1/4"	21.34	28.5	23.5	1/4"
1/2"X3/8"	21.34	28.5	23.5	3/8"
3/4"X1/2"	26.67	33.2	27.2	1/2"
1"X3/4"	33.40	36.1	30.1	3/4"

Running Trap S73



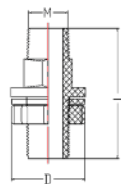
Size	D	D1	L
1/2"	21.34	28.8	240
3/4"	26.67	34.5	250
1"	33.40	42.5	260

Cross S74



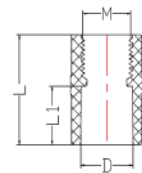
Size	D	L1	L
1/2"	21.34	22.3	35
3/4"	26.67	25.5	39.8
1"	33.40	28.6	46.1

Female Elbow



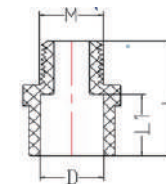
Size	D	L	M
1/2"	41	69	1/2"
3/4"	46	76	3/4"
1"	56.5	88	1"
1-1/4"	65.5	94	1-1/4"
1-1/2"	71	102.5	1-1/2"
2"	83	103.5	2"

Female Adapter S76



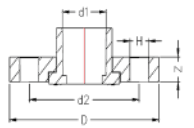
Size	D	L	L1	M
1/2"	21.34	22.8	42.8	1/2"
3/4"	26.67	25.9	47.9	3/4"
1"	33.40	29.1	55.5	1"
1-1/4"	42.16	32.8	60.3	1-1/4"
1-1/2"	48.26	36.0	65.0	1-1/2"
2"	60.32	39.1	71.7	2"

Male Adapter (Hex) S77



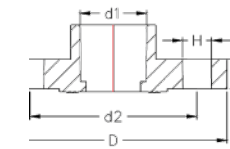
Size	D	L1	L	M
1/2"	21.34	22.8	42.5	1/2"
3/4"X1/2"	26.67	25.9	45.8	1/2"
3/4"	26.67	25.9	47.8	3/4"
1"	33.40	29.1	55.3	1"
1-1/4"	42.16	32.8	60.7	1-1/4"
1-1/2"	48.26	36.0	65.1	1-1/2"
2"	60.32	39.1	71.7	2"

Van Stone Flange S79



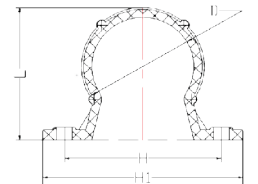
Size	D	d1	d2	H	Z
1"	108	33.40	79.5	15X4	14
1-1/4"	118	42.16	89.0	15X4	16
1-1/2"	127	48.26	98.5	15X4	18
2"	152	60.32	120.5	19X4	19
2-1/2"	178	73.02	139.5	19X4	24
3"	190	88.90	152.5	19X4	24
4"	229	114.30	190.5	19X8	24
6"	279	168.28	241.5	23X8	25

Flange



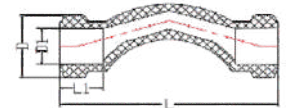
Size	D	d1	d2	H	Z
1"	115	33.4	79.5	14X4	15
1-1/4"	140	42.16	89.0	18X4	16
1-1/2"	150	48.26	98.5	18X4	17
2"	160	60.32	120.5	18X4	18

Clip



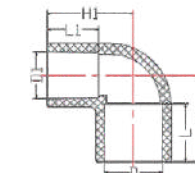
Size	D	H	H1	L
1/2"	21.34	37.9	52.3	29.6
3/4"	26.67	42.8	57.0	35.8
1"	33.4	51.5	65.2	45.0
1-1/4"	42.16	59.7	74.2	53.6
1-1/2"	48.26	64.9	90.5	66.5
2"	60.32	75.6	100.6	83.8

Over Bend (Short) S80



Size	D	D1	L1	L
1/2"	36.34	21.23	22.5	114
3/4"	34.67	26.57	25.4	140.8
1"	43.4	33.28	30.02	174.95

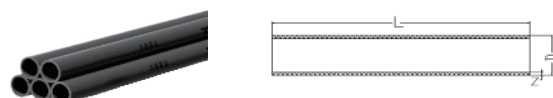
Reducing Elbow S40



Size	D	D1	H1	H
3/4"X1/2"	26.67	21.34	40	40
1"X1/2"	33.4	21.34	42.5	42.5
1"X3/4"	33.4	26.67	45.5	45.5



PVC-U DIN PN16 Pressure Pipe



Size	PN	D	Z	L
20	16	20	2.3	4-6
25	16	25	2.8	4-6
32	16	32	3.6	4-6
40	16	40	3.0	4-6
50	16	50	3.7	4-6
63	16	63	4.7	4-6
75	16	75	5.6	4-6
90	16	90	6.7	4-6
110	16	110	6.6	4-6
140	10	140	8.3	4-6
160	10	160	9.5	4-6
200	10	200	11.9	4-6

90 Deg Elbow



Size	PN	D	L1	L
20	16	20	16.5	44
25	16	25	19.0	52
32	16	32	22.5	62
40	16	40	26.5	74
50	16	50	31.5	89
63	16	63	38.0	109
75	16	75	44.0	127
90	16	90	51.5	149
110	16	110	61.5	179
125	16	125	70	136.8
140	10	140	76.5	225.6
160	10	160	86.5	256
200	10	200	106.5	317

Skew Tee K26



Size	PN	D	L2	L1	L
50	16	50	31.7	97.3	141
63	16	63	37.75	115.62	168.3

Coupling

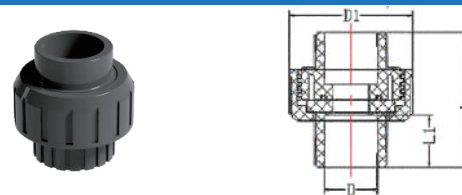


Size	PN	D	L1	L
20	16	20	16.5	36
25	16	25	19	41
32	16	32	22.5	48
40	16	40	26.5	57
50	16	50	31.5	67
63	16	63	38	80
75	16	75	44	92
90	16	90	51.5	108
110	116	110	61.5	128
140	10	140	76.5	161
160	10	160	86.5	181
200	10	200	106.5	221

45 Deg Elbow

Size	D	L	L1	L
20	16	20	16.5	21.5
25	16	25	19.0	25
32	16	32	22.5	30.5
40	16	40	26.5	36.5
50	16	50	26.5	43.5
63	16	63	31.5	53
75	16	75	38.0	61
90	16	90	44.0	71.5
110	16	110	51.5	85.5
125	16	125	70	98
140	10	140	76.5	110.2
160	10	160	86.5	124.3
200	10	200	106.5	147.2

UNION S14



Size	D	D1	L	L1
20	20	38	42.5	16.5
25	25	50	46	19.5
32	32	58	54	22.0
40	40	69	61.5	26.0
50	50	80.5	73	31.0
63	63	98	85	36.5
75	75	129.5	119.2	45
90	90	183	123.4	52
110	110	207	150	57

Tee S04

Size	PN	D	L1	L
20	16	20	16.5	44
25	16	25	19.0	52
32	16	32	22.5	62
40	16	40	26.5	74
50	16	50	31.5	89
63	16	63	38.0	109
75	16	75	44.0	127
90	16	90	51.5	149
110	16	110	61.5	179
125	16	125	70	136.8
140	10	140	76.5	225.6
160	10	160	86.5	256



Cap



Size	PN	D	L
20	16	20	16.5
25	16	25	19.0
32	16	32	22.5
40	16	40	26.5
50	16	50	31.5
63	16	63	38.0
75	16	75	44.0
90	16	90	51.5
110	16	110	61.5

Male Adapter (HEX) S77



Size	PN	D	L1	L	M
20X1/2"	16	20	16.5	46	1/2"
25X1/2"	16	25	19.0	49	1/2"
25X3/4"	16	25	19.0	50	3/4"
32X1/2"	16	32	22.5	52	1/2"
32X1"	16	32	22.5	57	1"
40X1-1/4"	16	40	26.5	66	1-1/4"
50X1-1/2"	16	50	31.5	74.5	1-1/2"
63X2"	16	63	38.0	85	2"
75X2-1/2"	16	75	44.0	98	2-1/2"
90X3"	16	90	51.5	110	3"
110X4"	16	110	61.5	119	4"

Reducing Coupling K08



Size	PN	D	D1	L1	L
25X20	16	20	20	16.5	19.0
32X20	16	32	20	16.5	22.5
32X25	16	32	25	19.0	22.5
40X20	16	40	20	16.5	26.5
40X25	16	40	25	19.0	26.5
40X32	16	40	32	22.5	26.5
50X25	16	50	25	19.0	31.5
50X32	16	50	32	22.5	31.5
50X40	16	50	40	26.5	31.5
63X32	16	63	32	22.5	38
63X40	16	63	40	26.5	38
63X50	16	63	50	31.5	38
75X40	16	75	40	26.5	44
75X50	16	75	50	31.5	44
75X63	16	75	63	38.0	44
90X50	16	90	50	31.5	51.5
90X63	16	90	63	38.0	51.5
90X75	16	90	75	44.0	51.5
110X63	16	110	63	38.0	61.5
110X75	16	110	75	44.0	61.5
110X90	16	110	90	51.5	61.5

Female Adapter



Size	PN	D	L1	L	M
20X1/2"	16	20	16.5	36	1/2"
25X3/4"	16	25	19.0	40	3/4"
32X1"	16	32	22.5	45	1"
40X1-1/4"	16	40	26.5	54	1-1/4"
50X1-1/2"	16	50	31.5	62	1-1/2"
63X2"	16	63	38.0	72	2"
75X2-1/2"	16	75	44.0	82	2-1/2"
90X3"	16	90	51.5	93	3"
110X4"	16	110	61.5	107	4"

Reducer Bushing K09



Size	PN	D1	D	L
25X20	16	25	20	16.5
32X20	16	32	20	16.5
32X25	16	32	25	19.0
40X25	16	40	25	19.0
40X32	16	40	32	22.5
50X25	16	50	25	19.0
50X32	16	50	32	22.5
50X40	16	50	40	26.5
63X32	16	63	32	22.5
63X40	16	63	40	26.5
63X50	16	63	50	31.5
75X50	16	75	50	31.5
75X63	16	75	63	38.0
90X63	16	90	63	38.0
90X75	16	90	75	44.0
110X63	16	63	110	39.0
110X75	16	110	75	44.0
110X90	16	110	90	51.5
140X90	10	140	90	51.5
140X110	10	140	110	61.5
160X140	10	160	140	76.5
200X140	10	200	140	76.5
200X16	10	200	160	86.5

Female Reducer K20



Size	D	D1	L	M
25X1/2"	25	33	20.8	1/2"
32X1/2"	32	40	24.8	1/2"
32X3/4"	32	40	24.8	3/4"

FLANGE K24



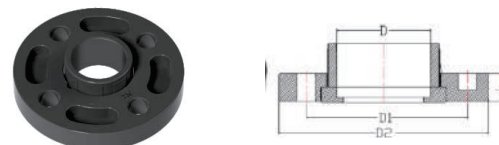
Size	PN	D1	D	D2	L
20	16	65	20	95	16
25	16	75	25	105	18
32	16	85	32	115	18
40	16	100	40	135	20
50	16	110	50	145	22
63	16	125	63	160	24
75	16	145	75	180	24
90	16	160	90	195	26
110	16	180	110	215	28
140	10	210	140	245	30
160	10	240	160	280	30
200	10	295	200	335	32
250	10	355	250	405	34

Coupling II K28



Size	D	L	L1
50	50	30.7	64.6
63	63	38.0	78.5
75	75	43.8	93.1
90	90	51.1	107.3

Van Stone Flange K25



Size	PN	D1	D	D2	L
50	16	110	50	145	22
63	16	125	63	160	24
75	16	145	75	180	24
90	16	160	90	195	26
110	16	180	110	215	28
140	10	210	140	245	30
160	10	240	160	280	30
200	10	295	200	335	32
250	10	355	250	405	34

Tank Connector K27



Size	Z	L	D	M
20	21	60	64	1/2"
25	21	62	70	3/4"
32	21	64	80	1"
40	26	68	86	1-1/4"
50	29	73	94	1-1/2"
63	35	79	103	2"

Reducing Tee K10



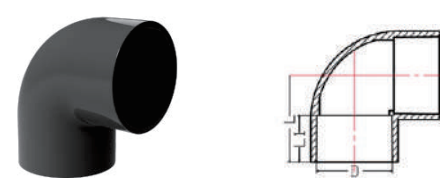
Size	PN	D	D1	L	L1
25X20	16	25	20	19	16.5
32X20	16	32	20	22.5	16.5
32X25	16	32	25	22.5	19.0
40X25	16	40	25	26.5	19.0
40X32	16	40	32	26.5	22.5
50X32	16	50	32	31.5	26.5
50X40	16	50	40	31.5	26.5
63X40	16	63	40	38	26.5
63X50	16	63	50	38	31.5
75X50	16	75	50	44	31.5
75X63	16	75	63	44	38.0
90X63	16	90	63	51.5	44.0
90X75	16	90	75	51.5	44.0
110X75	16	110	75	61.5	51.5
110X90	16	110	90	61.5	51.5
140X110	16	140	110	76.5	76.5
160X140	10	160	140	86.5	76.5
200X160	10	200	160	106.5	86.5

Side Outlet Tee



Size	D	L	L1
32	32	22	39.5

90 Deg Elbow II



Size	D	L	L1
50	50	30.7	56.8
63	63	37.5	70.8
75	75	43.8	86.2
90	90	50.8	97.9
110	110	61.2	116.4

Female Elbow With Plate K31



Size	D	L	L1	L2	M
20X1/2"	20	16.5	28.9	27	1/2"

Female Elbow With Plate



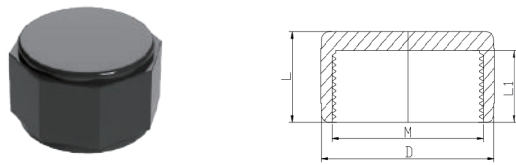
Size	D	L	L1
32	32	22	39.5

Tee II K30



Size	D	L	L1
50	50	31.6	114.3
63	63	38.5	141.5
75	75	44.6	164
90	90	51.3	194.1
110	110	61.0	233.7

Cap (Thread) K51



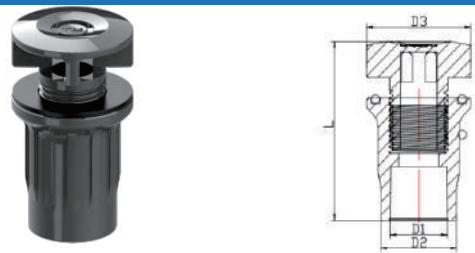
Size	D	L	L1	M
63	69	32.6	25.5	2"

Cross K50



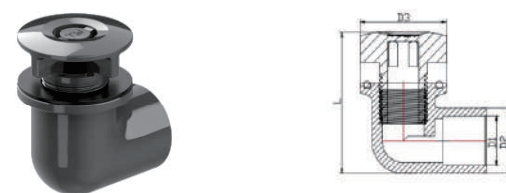
Size	D	L	L1
25	25	39.8	25.5
32	32	46.1	28.6

Fish Tank Connector



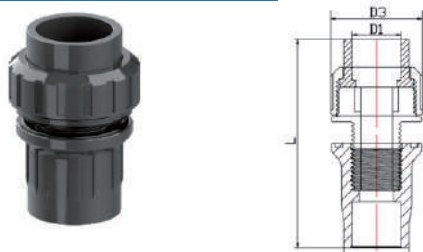
Size	D1	D2	D3	L
20	20	26.9	37	61.95±2
25	25	34	44.8	71.85±2

Fish Tank Connector



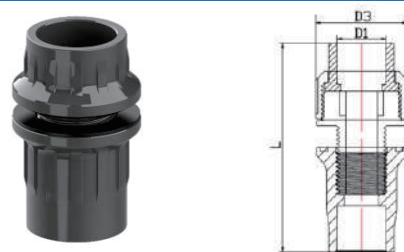
Size	D1	D2	D3	L
20	20	26.9	37	61.95±2
25	25	34	44.8	71.85±2
32	32	40.6	51.5	80±2

Fish Tank Connecto K37



Size	D1	D2	D3	L
20	20	26.9	37	84.4±2
25	25	34	44.8	97±2
32	32	40.6	58	101±2
40	40	49	69	112.7±2
50	50	58.6	80.45	123.8±2

Fish Tank ConnectO K37



Size	D1	D2	D3	L
20	20	26.9	37	73.15±2
25	25	34	44.8	82.2±2
32	32	40.6	52	90.45±2
40	40	49	60.7	90.3±2
50	50	58.6	70.3	96.1±2

Female Elbow K52



Size	D1	D2	L1	L2	L	M
50x1-1/2"	50	58.2	31.2	26.5	55.9	1-1/2"

Chemical Properties »

◎ Excellent ○ Good △ Available × Corrosion Not Recommended

Chemicals	Chemicals Formula	Concentration	Temp °C	U-PVC	C-PVC	PP	PVDF	PTFE	VITON	EPDM	NBR	CR	IIR	CSM
Acetaldehyde	CH ₃ CHO	Pure	20	×	×	◎	×	◎	△	◎	×	△	◎	×
			40			◎		◎	△	◎		×	◎	
			60			○		◎	×	○			◎	
			80					◎						
			100					◎						
			120					◎						
		40	20	○	○	◎	×	◎	○	◎	×	△	◎	×
			40	△	△	◎		◎	○	◎		×	◎	
			60	×		◎		◎	△	◎			◎	
			80			○		◎	△	○				
			100					◎						
			120					◎						
Acetic Acid	CH ₃ COOH	10	20	◎	◎	◎	◎	◎	○	◎	○	○	◎	○
			40	◎	◎	◎	◎	◎	○	◎		○	○	△
			60	◎	◎	◎	◎	◎	△	○		△	○	×
			80		◎	◎	◎	◎	×			×		
			100				◎	◎						
			120				○	◎						
		20	20	◎	◎	◎	◎	◎	○	◎	×	×	×	×
			40	◎	◎	◎	◎	◎	△	◎				
			60	◎	○	◎	◎	◎	△					
			80		△	○	○	◎	×					
			100				○	◎						
			120				○	◎						
		50	20	◎	◎	◎	◎	◎	△	○	×	×	×	×
			40	◎	○	◎	◎	◎	×					
			60	○	△	◎	◎	◎						
			80		×		○	◎						
			100				○	◎						
			120					◎						
		80	20	◎	○	◎	◎	◎	×	△	×	×	×	×
			40	◎	△	◎	◎	◎						
			60	△	×	△	○	◎						
			80				△	◎						
			100					◎						
			120					◎						
Acetone	CH ₃ COCH ₃	Pure	20	×	×	◎	×	◎	×	◎	×	○	○	△
			40			◎		◎				○	○	×
			60			△		◎						
			80					◎						
			100					◎						
			120					◎						

⊙ Excellent ○ Good △ Available × Corrosion Not Recommended

Chemicals	Chemicals Formula	Concentration	Temp °C	U-PVC	C-PVC	PP	PVDF	PTFE	VITON	EPDM	NBR	CR	IIR	CSM
Acetylene	C ₂ HC		20	⊙	×	⊙	⊙	⊙	⊙	△	⊙		△	
			40	⊙		⊙	⊙	⊙	⊙	△	⊙		×	
			60	○		⊙	⊙	⊙	⊙	×	○			
			80			○	⊙	⊙	⊙					
			100						○					
			120					○						
			80				×	⊙						
Aluminum Nitrate	Al(NO ₃) ₃	Satu	100					⊙						
			120					⊙						
Aluminum Sulfate	Al ₂ (SO ₄) ₃	Satu	20	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			40	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			60	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			80		⊙	⊙	⊙	⊙	⊙	⊙	○			⊙
			100				⊙	⊙	⊙					
Ammonium Nitrate	NH ₄ NO ₃		120				⊙	⊙						
			20	⊙	○	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			40	⊙	○	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			60	○	○	⊙	⊙	⊙	⊙	⊙	⊙	⊙		
Arsenic Acid	H ₃ ASO ₄	Satu	80			⊙	⊙	⊙	⊙	⊙	⊙	○		
			100				⊙	⊙						
			120				⊙	⊙						
			20	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			40	○	○	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Beer			60	⊙	⊙	⊙	⊙	⊙	⊙	⊙	○	○	⊙	⊙
			80		⊙	⊙	⊙	⊙	⊙	⊙	○		⊙	⊙
			100				⊙	⊙						
			120				⊙	⊙						
			20	△	△	○	⊙	⊙	⊙	×	×	×	×	×
Benzene	C ₆ H ₆	Pure	40	×	×	△	○	⊙	○					
			60				○	⊙	○					
			80				△	⊙	○					
			100				×	⊙						
			120					⊙						

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Chemicals	Chemicals Formula	Concentration	Temp °C	U-PVC	C-PVC	PP	PVDF	PTFE	VITON	EPDM	NBR	CR	IIR	CSM
Black Liquor		Satu	20	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			40	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			60	○	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			80		○	○	⊙	⊙	⊙	⊙	○	○	⊙	○
			100					⊙	⊙	⊙				
			120					○						
			80					⊙						
Bleaching Agent	Ca(ClO) ₂ CaCl ₂ -2H ₂ O		20	⊙	⊙		⊙	⊙	⊙	⊙	△			
			40	⊙	⊙		⊙	⊙	⊙	⊙				
			60	⊙	⊙		⊙	⊙						
			80				⊙	⊙						
			100				⊙	⊙						
			120				⊙	⊙						
			20	⊙	⊙		⊙	⊙	⊙	○	△			
Borax	Na ₂ B ₄ O ₇ 10H ₂ O		40	⊙	⊙	⊙	⊙	⊙	⊙	⊙	○	⊙	⊙	⊙
			60	⊙	⊙	⊙	⊙	⊙	⊙	⊙	△	⊙	⊙	⊙
			80		⊙	⊙	⊙	⊙	⊙		×			
			100				⊙	⊙						
			120				⊙	⊙						
Boric Acid	H ₃ BO ₃	Satu	20	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			40	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			60	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			80		○	⊙	⊙	⊙	⊙	○	○	△	○	○
			100				⊙	⊙	○					
Bormic Acid	HBrO ₃	Pure	120				⊙	⊙						
			20	⊙	⊙	×	⊙	⊙						
			40	⊙	⊙		⊙	⊙						
			60		⊙		⊙	⊙						
			80		⊙		⊙	⊙						
Butadiene	CH ₂ =CHCH=CH ₂	Gas	100				⊙	⊙						
			120				⊙	⊙						
			20	⊙	⊙		⊙	⊙	⊙	×	○	○	×	○
			40	⊙	⊙		⊙	⊙	⊙		△	○		○
			60	⊙			⊙	⊙	⊙			△		△

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Chemicals	Chemicals Formula	Concentration	Temp °C	U-PVC	C-PVC	PP	PVDF	PTFE	VITON	EPDM	NBR	CR	IIR	CSM
Butane	CH ₃ (CH ₂) ₂ CH ₃	Gas	20	⊙	⊙	⊙	⊙	⊙	⊙	×	⊙	⊙	×	⊙
			40	⊙	⊙	⊙	⊙	⊙	⊙		⊖	△		
			60	⊙	⊙	⊙	⊙	⊙	⊙					
			80		⊙	⊙	⊙	⊙	⊙					
			100					⊙						
			120					⊙						
Butyl Alcohol	C ₄ H ₉ OH	Satu	20	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊖	⊙	⊙	⊙
			40	⊙	⊙	⊙	⊙	⊙	⊖	⊙	⊖	⊙	⊙	⊙
			60	⊖	⊙	⊙	⊙	⊙	△	⊙	⊖	⊙	⊙	⊙
			80		⊖	⊙	⊙	⊙		⊙		⊖	⊙	⊙
			100				⊙	⊙						
			120				⊙	⊙						
Butyl Bromide	C ₄ H ₉ Br	Pure	20				⊙	⊙						
			40				⊙	⊙						
			60				⊙	⊙						
			80				⊙	⊙						
			100				⊙	⊙						
			120				⊙	⊙						
Butylene	CH ₃ CH ₂ CH=CH ₂		20				⊙	⊙	⊙					
			40				⊙	⊙	⊙					
			60				⊙	⊙	⊙					
			80				⊙	⊙	⊖					
			100				⊙	⊙						
			120				⊙	⊙						
Carboic Acid	H ₂ CO ₃	Satu	20	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			40	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			60	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			80		⊖	⊖	⊙	⊙	⊙	⊙	⊖	⊖	⊙	⊙
			100				⊙	⊙	⊖					
			120				⊙	⊙						
Dextrose	C ₆ H ₁₂ O ₆		20	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			40	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			60	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			80		⊙	⊙	⊙	⊙	⊙	⊙				
			100				⊙	⊙	⊙					
			120				⊙	⊙						

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Chemicals	Chemicals Formula	Concentration	Temp °C	U-PVC	C-PVC	PP	PVDF	PTFE	VITON	EPDM	NBR	CR	IIR	CSM
Plating Solutions			20	⊙	⊙	△	⊙	⊙	⊖	⊙	⊖	⊖	×	△
			40	⊙	⊙	×	⊙	⊙	⊖	⊖	⊖	⊖		×
			60	⊙	⊙		⊙	⊙	⊖	⊖	⊖	×		
			80		⊙		⊙	⊙						
			100					⊙						
			120					⊙						
Glycerol (Glycerine)	C ₃ H ₅ (OH) ₃	Pure	20	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			40	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			60	⊙	⊙	⊙	⊙	⊙	⊙	⊙		⊙	⊙	⊙
			80			⊙	⊙	⊙	⊙	⊙				
			100				⊙	⊙						
			120				⊙	⊙						
Hydronromic Acid	HBr	20	20	⊙	⊙	⊙	⊙	⊙	⊙	⊙	△	⊙	⊙	⊙
			40	⊙	⊙	⊙	⊙	⊙	⊙	⊙	△	⊙	⊙	⊙
			60	⊖	⊖	⊙	⊙	⊙	⊙	⊙	×			
			80		⊖	⊙	⊙	⊙	⊖	⊖				
			100				⊙	⊙						
			120				⊖	⊙						
		47	20	⊙	⊙	⊙	⊙	⊙	⊙	⊙	△	⊙	⊙	⊙
			40	⊙	⊙	⊙	⊙	⊙	⊙	⊙	×	⊙	⊙	⊙
			60	⊖	⊖	⊙	⊙	⊙	⊖	⊙		⊙	⊙	⊙
			80		⊖	⊙	⊙	⊙	△			×	×	×
			100				⊙	⊙						
			120				⊖	⊙						
Hydrochloric Acid	HCl	25	20	⊙	⊙	⊙	⊙	⊙	⊙					
			40	⊙	⊙	⊙	⊙	⊙	⊙					
			60	⊙	⊙	⊙	⊙	⊙	⊙					
			80		⊙	⊙	⊙	⊙	⊖					
			100				⊙	⊙	△					
			120				⊖	⊙						
		35	20	⊙	⊙	⊙	⊙	⊙	⊙	⊖	△	×	⊖	⊖
			40	⊙	⊙	⊙	⊙	⊙	⊖	⊖	×		⊖	△
			60	⊙	⊙	⊙	⊙	⊙	×	×			×	×
			80		⊖	⊖	⊙	⊙						
			100				⊙	⊙						
			120				△	⊙						
Iodine	I ₂		20	△		⊙	⊙	⊙	⊖	×		×		
			40	×			⊙	⊙						
			60				⊙	⊙						
			80				⊙	⊙						
			100					⊙						
			120					⊙						

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Chemicals	Chemicals Formula	Concentration	Temp °C	U-PVC	C-PVC	PP	PVDF	PTFE	VITON	EPDM	NBR	CR	IIR	CSM
Nitroselrouse lacguer			20	×		⊙	⊙	⊙	△	×	×	×	×	×
			40					⊙						
			60					⊙						
			80					⊙						
			100					⊙						
			120											
Mercury	Hg		20	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			40	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			60	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			80		⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			100				⊙	⊙						
			120				⊙	⊙						
Metthane	CH ₄		20	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			40	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			60	○	○	○	⊙	⊙	⊙	⊙	⊙			
			80				⊙	⊙	⊙	○				
			100				⊙	⊙	○					
			120				⊙	⊙						
Methyl Formate	HCOOCH ₃		20				⊙	⊙	×	○	×			
			40				○	⊙						
			60				△	⊙						
			80				△	⊙						
			100											
			120											
Natural Gas			20	⊙			⊙	⊙	⊙	⊙	⊙	⊙		⊙
			40	⊙			⊙	⊙						
			60	○			⊙	⊙						
			80				⊙	⊙						
			100					⊙						
			120					⊙						
Nitric	HNO ₃	10		⊙	⊙	⊙	⊙	⊙	⊙	⊙	×	○	⊙	
				⊙	⊙	⊙	⊙	⊙	⊙	⊙		○	○	○
				⊙	⊙	⊙	⊙	⊙	⊙	○		×	△	△
					○	○	⊙	⊙	⊙	×				
							⊙	⊙	⊙					
							⊙	⊙						
		30	20	⊙	⊙	⊙	⊙	⊙	⊙	○	×	×	⊙	⊙
			40	⊙	○	⊙	⊙	⊙	⊙	○			○	○
			60	○	△	⊙	⊙	⊙	○	×			○	×
			80		△	○	⊙	⊙	△					
			100				⊙	⊙	△					
			120				○	⊙						
		50	20	⊙	⊙	⊙	⊙	⊙	⊙	×	×	×	×	△
			40	○	○	○	⊙	⊙	○					
			60	○	△	△	⊙	⊙	△					
			80		△	△	⊙	⊙	△					
			100				△	⊙						
			120					⊙						

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Chemicals	Chemicals Formula	Concentration	Temp °C	U-PVC	C-PVC	PP	PVDF	PTFE	VITON	EPDM	NBR	CR	IIR	CSM
Nitric Acid	HNO ₃	70	20	⊙	○	△	⊙	⊙	△	×	×	×	×	×
			40	○	△	×	⊙	⊙	×					
			60	×	×		○	⊙						
			80				△	⊙						
			100				×	⊙						
			120											
		80	20	×	×	×	⊙	⊙	△	×	×	×	×	×
			40				○	○						
			60				×	○						
			80					△						
			100					△						
			120											
Nitrous Acid	HNO ₂	10	20			△	⊙	⊙	⊙	○	×			
			40			×	⊙	⊙						
			60				⊙	⊙						
			80				⊙	⊙						
			100											
			120											
Sulfuric Acid	H ₂ SO ₄	10	20	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			40	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			60	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			80		⊙	⊙	⊙	⊙	⊙	⊙	○	○	○	○
			100				⊙	⊙	⊙					
			120				⊙	⊙	⊙					
		30	20	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			40	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			60	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	○	⊙	⊙
			80		⊙	⊙	⊙	⊙	⊙	○	○		○	○
			100				⊙	⊙	⊙					
			120				⊙	⊙	⊙					
		50	20	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	○	⊙	⊙
			40	⊙	⊙	⊙	⊙	⊙	⊙	⊙	○	○	⊙	⊙
			60	⊙	⊙	⊙	⊙	⊙	⊙	⊙	○	○	⊙	⊙
			80		⊙	⊙	⊙	⊙	⊙	○	△		○	○
			100				⊙	⊙	⊙					
			120				○	⊙	⊙					
		60	20	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	○	⊙	⊙
			40	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	○	⊙	⊙
			60	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	△	⊙	⊙
			80		○	⊙	⊙	⊙	⊙	△	○		△	△
			100				⊙	⊙	○					
			120				△	⊙	△					
		70	20	⊙	⊙	⊙	⊙	⊙	⊙	⊙	○	○	⊙	⊙
			40	⊙	⊙	⊙	⊙	⊙	⊙	⊙	○	○	○	○
			60	⊙	⊙	⊙	⊙	⊙	⊙	⊙	○	○	○	○
			80		○	○	⊙	⊙	⊙	×	×		×	×
			100				⊙	⊙	○					
			120				△	○	△					

⊙ Excellent ○ Good △ Available × Corrosion Not Recommended

Chemicals	Chemicals Formula	Concentration	Temp °C	U-PVC	C-PVC	PP	PVDF	PTFE	VITON	EPDM	NBR	CR	IIR	CSM
Sulfuric Acid	H ₂ SO ₄	80	20	⊙	⊙	⊙	⊙	⊙	⊙	⊙	○	×	○	○
			40	⊙	⊙	⊙	⊙	⊙	⊙	⊙	○		○	○
			60	○	○	○	⊙	⊙	⊙	○	△		○	△
			80		△	○	⊙	⊙	○	×	×		×	×
			100				○	⊙	△					
			120				×	○						
		90	20	⊙	⊙	⊙	⊙	⊙	⊙	○	△	×	○	○
			40	○	⊙	⊙	⊙	⊙	⊙	○	△		○	○
			60	○	○	○	⊙	⊙	⊙	△	△		○	△
			80		△	○	⊙	⊙	○	×	×		×	×
			100				○	⊙	△					
			120				×	○	×					
		93	20	⊙	⊙	⊙	⊙	⊙	⊙	○	△	×	×	×
			40	○	○	⊙	⊙	⊙	⊙	○	×			
			60	○	○	○	⊙	⊙	⊙	△				
			80		△	○	⊙	⊙	○	×				
			100			△	○	⊙	×					
			120				×	○						
		94	20	⊙	⊙	○	⊙	⊙	⊙	△	×	×	×	×
			40	○	○	○	⊙	⊙	○	×				
			60	○	△	○	⊙	⊙	△					
			80			△	○	⊙	△					
			100				△	⊙						
			120				×	○						
		95	20	⊙	⊙	△	⊙	⊙	⊙	×	×	×	×	×
			40	○	○		⊙	⊙	△					
			60	△	△		⊙	⊙	△					
			80				○	⊙						
			100				△	⊙						
			120				×	○						
		96	20	⊙	○	×	⊙	⊙	○	×	×	×	×	×
			40	△	△		⊙	⊙	△					
			60	×	×		⊙	⊙	×					
			80				⊙	⊙						
			100				△	⊙						
			120				×	○						
		98	20	○	○	×	⊙	⊙	×	×	×	×	×	×
			40	△	△		⊙	⊙						
			60	×	×		○	⊙						
			80				△	⊙						
			100				×	○						
			120					○						
		100	20	×	×	×	×	⊙	×	×	×	×	×	×
			40					⊙						
			60											
			80											
			100											
			120											

⊙ Excellent ○ Good △ Available × Corrosion Not Recommended

Chemicals	Chemicals Formula	Concentration	Temp °C	U-PVC	C-PVC	PP	PVDF	PTFE	VITON	EPDM	NBR	CR	IIR
Sulfurous Acid	H ₂ SO ₃		20	⊙	⊙	⊙	⊙	⊙	⊙	⊙	△	○	⊙
			40	⊙	⊙	⊙	⊙	⊙	⊙	⊙		△	⊙
			60	⊙	⊙	⊙	⊙	⊙	⊙	○			○
			80		○	⊙	⊙	⊙	○	△			△
			100				⊙	⊙	△				
			120					⊙					
Toluene	C ₆ H ₅ CH ₃		20	×	×	⊙	⊙	⊙	⊙	×	×	×	×
			40			△	⊙	⊙					
			60			×	○	⊙					
			80				○	⊙					
			100				△	○					
			120					△					
Vinegar			20	⊙	⊙	⊙	⊙	⊙	⊙	⊙	△	⊙	⊙
			40	⊙	⊙	⊙	⊙	⊙	⊙	⊙		⊙	⊙
			60	⊙	⊙	⊙	⊙	⊙	⊙	⊙		⊙	⊙
			80		○	⊙	⊙	⊙					
			100				○	⊙					
			120				○	⊙					
Potable Water			20	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			40	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			60	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			80		⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
			100				⊙	⊙					
			120				⊙	⊙					
Xylene	C ₆ H ₄ (CH ₃) ₂		20	×	×	×	⊙	⊙	○	×	△	×	×
			40				⊙	⊙					
			60				⊙	⊙					
			80				⊙	⊙					
			100				⊙	⊙					
			120					⊙					

APPLICATIONS

