

	Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
	20	10, 16
	25	10, 16
	32	10, 16
	40	6, 10
	50	3, 6, 10, 16
	63	1, 6, 10, 16
	75	1, 6, 10, 16
	90	1, 6, 10, 16
	110	1, 6, 10, 16
	140	3, 6
	160	6, 10
	200	6
	250	6


**Coupler**

Application/Special note: These are used for joining of two uPVC pipes. Fabricated couplers are also available in 20 to 400mm sizes in different pressure class.


	Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
	20	3, 10, 16
	25	3, 10, 12.5, 16
	32	3, 10, 16
	40	3, 6, 10, 16
	50	3, 4, 6, 10, 16
	63	1, 2, 3, 4, 6, 10, 16
	75	1, 2, 3, 4, 6, 10, 16
	90	1, 2, 3, 4, 6, 10, 16
	110	1, 2, 3, 4, 6, 10, 16
	140	4, 6
	160	*3, 4, 6, 10
	180	6
	200	4, 6
	250	6
	315	4

**Elbow 90°**


Application/Special note: These are used for short turns of 90°. These are not advisable on large pipeline involving high pressure.

	Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
	20	16
	25	16
	32	16
	40	6, 16
	50	6, 16
	63	6, 16
	75	6, 16
	90	6, 16
	110	4, 6, 16
	140	4
	160	4, 6
200	4, 6	
250	6	

**Elbow 45°**

	Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
	32 x 25	10
	75 x 63	6
	90 x 50	6
	90 x 63	6
	90 x 75	6
	110 x 63	6
	110 x 75	6
110 x 90	6	

**Reducing Elbow**


	Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
	20 x 15 (1/2")	10
	25 x 15 (1/2")	10
	25 x 20 (3/4")	10
	*32 x 15 (1/2")	10
	50 x 40 (1 1/2")	16
	63 x 50 (2")	6, 16
	75 x 50 (2")	6
	75 x 65 (2 1/2")	6
	90 x 80 (3")	6
	110 x 100 (4")	6

**Elbow 90°**  
One side threaded


Application/Special note: These are used for short turns of 90°. These are not advisable on large pipe lines.

	Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
	75 (2 1/2")	10
	90 (3")	10

**Elbow 90°**  
Both side Threaded


	Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
	20 x 15 (1/2")	10
	25 x 15 (1/2")	10
	25 x 20 (3/4")	10
	*32 x 15 (1/2")	10
	63 x 50 (2")	6
	75 x 65 (2 1/2")	6
	90 x 80 (3")	6
	110 x 50 (2")	6
	110 x 65 (2 1/2")	6
	110 x 80 (3")	6
110 x 100 (4")	6	

**One Side Threaded Tee**

	Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
	20	3, 10, 16
	25	3, 10, 16
	32	3, 10, 16
	40	3, 6, 10, 16
	50	3, 4, 6, 10, 16
	63	1, 2, 3, 4, 6, 10, 16
	75	1, 2, 3, 4, 6, 10, 16
	90	1, 2, 3, 4, 6, 10, 16
	110	1, 2, 3, 4, 6, 10, 16
	140	4, 6
	160	*3, 4, 6, 10
	180	6
	200	4, 6
	250	6
	315	4

**Equal Tee**

Application/Special note: These are used for bypass and taking equal size service line out of main line at 90°.


	Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
	25 x 20	10
	32 x 20	10
	32 x 25	10
	40 x 20	6
	40 x 25	10
	50 x 25	10
	50 x 32	6
	63 x 25	10
	63 x 32	10
	63 x 40	6
	63 x 50	6, 10
	75 x 40	6
	75 x 50	6
	75 x 63	4, 6
	90 x 63	4, 6
	90 x 75	4, 6
	110 x 50	6
	110 x 63	6
	110 x 75	4, 6
	110 x 90	4, 6
140 x 110	6	
160 x 75	4	
160 x 110	4, 6	
200 x 110	6	
200 x 160	6	


**Reducing Tee**



Application/Special note: These are used for by pass and taking lower diameter service line out of main line.


**Note :** 1) Fittings are offered in Light Grey (LG) and Dark Grey (DG) colours. All the fittings shown in dark grey colour are in 16kgf/cm<sup>2</sup> (PN) pressure class. 2) Prefix "PN" indicates nominal Pressure, i.e., working pressure. 3) \* Marked fittings will be shortly introduced.



	Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
	63 x 75	6
<b>Enlarging Tee</b>	Application/Special note: These are used for by pass and taking higher diameter service line out of main line.	

	Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
	63	6
	75	6
	90	6
	110	6
<b>Cross Tee</b>	Application/Special note: These are used for by pass and taking equal size service line on both side of main line.	

	Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
	40x20	6
	63x20	4
	63x25	4
	63x32	4
	*63x40	6
	75x25	4
<b>Reducing Cross Tee</b>		

	Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
	20	10, 16
	25	10, 16
	32	10, 16
	40	6, 16
	50	6, 16
	63	6, 10, 16
	75	6, 10, 16
	90	6, 10, 16
	110	6, 10, 16
	140	6
	160	6
<b>Male Threaded Adaptor (M.T.A.)</b>	Application/Special note: These are used to connect a uPVC pipeline directly to a female threaded metal pipe and all types of valves, taps, pumps etc. through a male portion.	

	Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
	75 x 50 (2")	6
	90 x 50 (2")	6
	90 x 65 (2½")	6
<b>Reducing Male Threaded Adaptor (R.M.T.A.)</b>	Application/Special note: These are used to connect a uPVC pipeline directly to a female threaded metal pipe.	

	Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
	20	3, 10, 16
	25	10, 16
	32	10, 16
	40	6, 16
	50	6, 16
	63	6, 10, 16
	75	6, 10, 16
	90	6, 10, 16
	110	6, 10, 16
	160	6
<b>Female Threaded Adaptor (F.T.A.)</b>	Application/Special note: These are used to connect a uPVC pipeline directly to a male threaded metal pipe.	

Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
25 x 15 (½")	10, 16
32 x 15 (½")	10, 16
32 x 20 (¾")	10
40 x 25 (1")	6
50 x 32 (1¼")	6
63 x 40 (1½")	6
75 x 50 (2")	6
90 x 50 (2")	6
90 x 65 (2½")	6
110 x 50 (2")	6
110 x 80 (3")	6
Application/Special note: These are used to connect a uPVC pipeline directly to a metal pipe of over diameter or vice-versa.	



**Reducing Female Threaded Adaptor (R.F.T.A.)**

Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
25 x 20	10
32 x 20	10
32 x 25	10, 16
40 x 25	6
40 x 32	6, 16
50 x 25	6
50 x 32	6
50 x 40	6, 16
63 x 32	6
63 x 40	6
63 x 50	6, 16
75 x 40	6
75 x 50	6
75 x 63	6
90 x 50	6
90 x 63	6
90 x 75	6
110 x 50	6
110 x 63	6
110 x 75	6
110 x 90	6
140 x 75	4
140 x 90	4
140 x 110	4, 6
160 x 90	4
160 x 110	4, 6
160 x 140	4
180 x 110	6
200 x 110	4, 6
200 x 160	4, 6
200 x 180	6
250 x 200	6
Application/Special note: These are used to convert the service line into small or extra small lines.	



**Reducer**

Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
25 x 20	10
32 x 20	10, 16
32 x 25	10, 16
40 x 25	16
40 x 32	6, 16
50 x 25	16
50 x 32	6
50 x 40	6, 16
63 x 32	16
63 x 40	6
63 x 50	6, 16
75 x 40	6
75 x 50	6, 16
75 x 63	6, 16
90 x 50	6
90 x 63	6
90 x 75	6, 16
110 x 63	6





**Reducing Bush**

**Note :** 1) Fittings are offered in Light Grey (LG) and Dark Grey (DG) colours. All the fittings shown in dark grey colour are in 16kgf/cm<sup>2</sup> (PN) pressure class. 2) Prefix "PN" indicates nominal Pressure, i.e., working pressure. 3) \*Marked fittings will be shortly introduced.


	Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
	<b>Reducing Bush</b>	110 x 75
	110 x 90	6, 16
	140 x 75	6
	140 x 90	6
	140 x 110	6
	160 x 90	6
	160 x 110	6
	200 x 160	6
	250 x 160	6
	250 x 200	6

Application/Special note: These are used along with Coupler, Elbow, Tee, MTA, FTA to convert service line or fitting to smaller line.


	Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
	<b>Threaded Reducing Bush</b>	75 x 50 (2")
	90 x 65 (2½")	6

	Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
	<b>Tail Piece</b>	63
	75	6, 16
	90	6, 16
	110	6, 16
	140	6
	160	6, 16
	200	6, 16


Application/Special note: These are used for connecting an air release valve/water fill way valve (CI/MS etc.) and any other flanged fitting (like strainer) Non-return valve, pump setc with the pipe.

	Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
	<b>Flange</b>	63
	75	6
	90	6
	110	6


Application/Special note: These are used along with Tail piece for connecting an air release valve, Non-return valve, pumps and metal pipes etc with the pipe.

	Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
	<b>Flange Adapter</b>	63
	75	6
	90	6
	110	10
	160	10

Application/Special note: These are used for connecting an air release valve, Non-return valve, pumps and metal pipes etc with the pipe.

	Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
	<b>Blind Flange</b>	63
	75	10
	90	10
	110	10

Application/Special note: These are used for to close the end of pipeline for various application.

	Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
	<b>Service Saddle</b>	40 x 15 (½")
	50 x 15 (½")	6
	50 x 20 (¾")	6
	50 x 25 (1")	6
	63 x 15 (½")	6, 10
	63 x 20 (¾")	6, 10
	63 x 25 (1")	6, 10
	75 x 15 (½")	6, 10
	75 x 20 (¾")	6, 10

Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
75 x 25 (1")	6, 10
90 x 15 (½")	6, 10
90 x 20 (¾")	6, 10
90 x 25 (1")	6, 10
110 x 15 (½")	6, 10
110 x 20 (¾")	6, 10
110 x 25 (1")	6, 10
140 x 15 (½")	6
140 x 20 (¾")	6
140 x 25 (1")	6
160 x 15 (½")	6
160 x 20 (¾")	6
160 x 25 (1")	6
200 x 25 (1")	6
200 x 32 (1¼")	6
200 x 40 (1½")	6
200 x 50 (2")	6

Application/Special note: These are used for taping the large service main line into small feeder line for house hold purpose and for connecting air release valves.

Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
20	10
25	10
32	10
40	6
50	6
63	4, 6
75	4, 6
90	4, 6
110	4, 6
140	4
160	6
180	4, 6
200	6
250	6
315	6

Application/Special note: These are used to close the end of pipe line.

Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
20 x 15 (½")	10
25 x 20 (¾")	10
32 x 25 (1")	10
40 x 32 (1¼")	6
50 x 40 (1½")	6
63 x 50 (2")	6
75 x 65 (2½")	6
90 x 80 (3")	6
110 x 100 (4")	6
140 x 125 (5")	6

Application/Special note: Threaded end cap with inside threads (BSP threads) are used to close the end of pipe line. Note: In case of threaded fittings avoid overtightening the joint with wrench as it may damage the uPVC threads.

Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
63	6
75	6
90	6
110	6
140	6
160	6
200	6
250	4

Application/Special note: These are used for by pass and taking equal size service line out of main line at 45°.



**Service Saddle**



**End Cap (Plain)**










**End Cap (Threaded)**



**Single Y**

**Note:** 1) Fittings are offered in Light Grey (LG) and Dark Grey (DG) colours. All the fittings shown in dark grey colour are in 16kgf/cm<sup>2</sup> (PN) pressure class. 2) Prefix "PN" indicates nominal Pressure, i.e., working pressure. 3) \* Marked fittings will be shortly introduced.

	Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)
 <b>Reducing Y</b>	110 x 63 160 x 110 200 x 110 200 x 160	6 6 4 4
 <b>Female Threaded Tee</b>	25 x 15 (1/2") 32 x 15 (1/2")	10, 16 10
 <b>Female Threaded Elbow</b>	25 x 15 (1/2") 32 x 15 (1/2")	10, 16 10
 <b>Female Threaded Joint</b>	25 x 15 (1/2") 32 x 15 (1/2")	16 10
 <b>Male Threaded Joint</b>	25 x 15 (1/2") 25 x 20 (3/4")	10 16
 <b>Ball Valve</b>	25 32 40 50 63	16 16 16 16 16
 <b>Ball Valve</b>	75 90 110	10 10 10
 <b>Threaded Ball Valve (Union Type)</b>	25 (3/4")	16
 <b>Non Return Valve (NRV)</b>	63 75 90 110	16 10 10 10

Size in mm	Available Pressure Rating in kgf/cm <sup>2</sup> (PN)	
3/4" 1" 1 1/4" 1 1/2" 2"	10 10 10 10 10	 <b>Air Release Valve</b>
75 90 110 *160	10 10 10 10	 <b>Butterfly Valve</b>
25 32 40 50 63	10 10 10 10 10	 <b>Union</b>
*25 32 *40 50 63 *75 *90	10 10 6 6 6 6 6	 <b>Bend</b>
63 75 90 110 140 160 180 200	6 6 6 6 6 6 6 6	 <b>Leakage Coupler (F)</b>
63 75 90 110 140 160 180 200 225 250 280 315	6, 10 4, 6, 10 4, 6, 10 4, 6, 10 4, 6, 10 4, 6, 10 4, 6, 10 4, 6, 10 4, 6, 10 4, 6, 10 4, 6, 10 4, 6, 10	 <b>Repair Coupler Long (with elastomeric rubber seal)</b>
63 75 90 110 140 160 180 200 225 250 280	10 10 10 10 10 10 10 10 10 10 10	 <b>Repair Coupler (F)</b>

Special note: All the leakage couplers are available in 6", 9" and 12" standard length.

Note: 63 to 160mm Repair Coupler Short (with elastomeric rubber seal) is also made available in 4 & 6 kgf/cm<sup>2</sup>.

**Note:** 1) Fittings are offered in Light Grey (LG) and Dark Grey (DG) colours. All the fittings shown in dark grey colour are in 16kgf/cm<sup>2</sup> (PN) pressure class. 2) Prefix "PN" indicates nominal Pressure, i.e., working pressure. 3) \* Marked fittings will be shortly introduced. • All the dimensions unless otherwise specified are in mm