



Size	Pipe O.D.	90° Elbow		45° Elbow	22.5° Elbow	11.25° Elbow
		Standard	Short		Standard	
		L	L	L	L	
DN	mm	mm	mm	mm	mm	mm
in	in	in	in	in	in	in
25	33.7	57	57	38	41	35
1	1.315	2.24	2.244	1.496	1.61	1.377
32	42.4	70	60	44	44	35
1¼	1.660	2.755	2.362	1.732	1.732	1.377
40	48.3	70	60	44	44	35
1½	1.900	2.755	2.362	1.732	1.732	1.377
50	57.0	83	70	51	51	35
	2.244	3.267	2.755	2.007	2	1.377
50	60.3	83	70	51	51	35
2	2.375	3.267	2.755	2.007	2	1.377
65	73.0	95	76	57	51	38
2½	2.875	3.74	2.992	2.007	2	1.496
65	76.1	95	76	57	51	38
	3.000	3.74	2.992	2.007	2	1.496
80	88.9	108	86	64	57	38
3	3.500	4.251	3.386	2.519	2.244	1.496
100	108.0	127	101.5	76	73	44
	4.252	5	3.996	2.992	2.874	1.732
100	114.3	127	101.5	76	73	48
4	4.500	5	3.996	2.992	2.874	1.889
125	133.0	140	122	83	73	51
	5.250	5.511	4.803	3.267	2.874	2.007
125	139.7	140	122	83	73	51
	5.500	5.511	4.803	3.267	2.874	2.007
150	159.0	165	140	89	79	51
	6.260	6.496	5.511	3.503	3.11	2.007
150	165.1	165	140	89	79	51
	6.500	6.496	5.511	3.503	3.11	2.007
150	168.3	165	140	89	79	51
6	6.625	6.496	5.511	3.503	3.11	2.007
200	219.1	197	175	108	98	51
8	8.625	7.755	6.889	4.251	3.858	2.007
250	273.0	229	215	121	111	54
10	10.750	9.015	8.464	4.763	4.37	2.125
300	323.9	254	245	133	124	57
12	12.750	10	9.645	5.236	4.88	2.244
350	377.0	280	280	146	127	89
	14.843	11.024	11.024	5.748	5	3.503