




### GROOVED PIPE FITTINGS QUOTATION


Item Description	Dimension		Unit Price FOB US\$	Unit Weight Kgs	Carton QTY Units
	INCH	MM			
Rigid Coupling 	1	33.7	0,99	0.480	50
	1 1/4	42.4	1,03	0.565	45
	1 1/2	48.3	1,05	0.568	40
	2	60.3	1,30	0.721	30
	2 1/2	73.0	1,33	0.853	25
	3OD	76.1	1,33	0.830	25
	3	88.9	1,65	1.048	18
	108mm	108	2,13	1.352	18
	4	114.3	2,13	1.352	25
	133mm	133	3,07	1.640	18
	5.5OD	139.7	3,07	1.800	18
	5	141.3	3,07	1.812	18
	159mm	159.0	3,41	1.929	12
	6.5OD	165.1	3,41	1.954	12
	6	168.3	3,56	2.081	12
	8	216.3	6,63	3.753	6
	8	219.1	6,63	3.753	6
10	273.0	12,95	5.998	4	
12	323.9	16,71	8.371	3	


Flexible Coupling 	1	33.7	0,99	0.480	50
	1 1/4	42.4	1,03	0.565	45
	1 1/2	48.3	1,05	0.568	40
	2	60.3	1,30	0.721	30
	2 1/2	73.0	1,33	0.853	25
	3OD	76.1	1,33	0.830	25
	3	88.9	1,65	1.048	18
	108mm	108	2,13	1.352	18
	4	114.3	2,13	1.352	25
	133mm	133	3,07	1.640	18
	5.5OD	139.7	3,07	1.800	18
	5	141.3	3,07	1.812	18
	159mm	159.0	3,41	1.929	12
	6.5OD	165.1	3,41	1.954	12
	6	168.3	3,56	2.081	12
	8	216.3	6,63	3.753	6
	8	219.1	6,63	3.753	6
	10	273.0	12,95	5.998	4
	12	323.9	16,71	8.371	3
	2*1	60.3*33.7	1,89	0.948	30
	2*1 1/4	60.3*42.4	1,76	0.828	30
	2*1 1/2	60.3*48.3	1,64	0.788	30
	2 1/2*1 1/2	73.0x48.3	1,91	1.013	25
2 1/2*2	73.0x60.3	1,77	0.943	25	

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<p>Reducing coupling</p> 	3OD*1 1/2	76.1x48.3	2,05	1.143	25
	3OD*2	76.1x60.3	1,95	1.073	25
	3OD*2 1/2	76.1x73.0	1,77	0.943	25
	3*1 1/2	88.9x48.3	2,91	1.421	18
	3*2	88.9x60.3	2,56	1.246	18
	3*2 1/2	88.9x73.0	2,15	1.186	18
	3*3OD	88.9x76.1	2,13	1.136	18
	4*1 1/2	114.3x48.3	3,42	2.120	12
	4*2	114.3x60.3	3,41	1.860	12
	4*2 1/2	114.3x73.0	3,25	1.830	12
	4*3OD	114.3x76.1	3,33	1.930	12
	4*3	114.3x88.9	3,12	1.890	12
	5*3	141.3x88.9	5,73	2.594	13
	5*4	141.3x114.3	5,33	2.424	13
	6.5OD*3	165.1x88.9	5,73	3.274	13
	6.5OD*4	165.1x114.3	5,33	2.914	13
	6*3	168.3x88.9	5,73	3.274	13
	6*4	168.3x114.3	5,33	2.974	13
	6*6.5OD	168.3x165.1	5,89	2.464	13
	8*6.5OD	219.1x165.1	9,89	6.560	5
8*6	219.1x168.3	9,89	6.460	5	

<p>U-Bolt Mech Tee</p> 	1*1/2	33.7x21.3	0,74	0.315	80
	1*3/4	33.7x26.9	0,79	0.365	80
	1 1/4*1/2	42.4x21.3	0,91	0.385	50
	1 1/4*3/4	42.4x26.9	0,90	0.405	50
	1 1/4*1	42.4x33.7	0,90	0.455	50
	1 1/2*1/2	48.3x21.3	0,92	0.365	50
	1 1/2*3/4	48.3x26.9	0,92	0.395	50
	1 1/2*1	48.3x33.7	0,92	0.445	50
	2*1/2	60.3x21.3	1,01	0.395	45
	2*3/4	60.3x26.9	1,01	0.425	45
	2*1	60.3x33.7	1,01	0.465	45
	2 1/2*1/2	73.0x21.3	1,04	0.465	45
	2 1/2*3/4	73.0x26.9	1,08	0.485	45
	2 1/2*1	73.0x33.7	1,11	0.555	40
	3OD*1/2	76.1x21.3	1,04	0.455	45


<p>Mechanical Tee (threaded)</p> 	3*3/4	88.9x26.9	1,82	1.030	18
	3*1	88.9x33.7	1,82	1.031	18
	3*1 1/4	88.9x42.4	1,99	1.105	18
	3*1 1/2	88.9x48.3	2,00	1.115	18
	3OD*3/4	76.1x26.9	1,08	0.495	40
	3OD*1	76.1x33.7	1,11	0.555	40
	2*3/4	60.3x26.9	1,33	0.690	30
	2*1	60.3x33.7	1,34	0.698	30
	2*1 1/4	60.3x42.4	1,37	0.718	25
	2*1 1/2	60.3x48.3	1,48	0.798	25
	2 1/2*1	73.0x33.7	1,65	0.907	23
	2 1/2*1 1/4	73.0x42.4	1,86	1.001	23
	2 1/2*1 1/2	73.0x48.3	1,87	1.011	20

2 1/2*2	73.0x60.3	1,90	1.020	20
3OD*1/2	76.1x21.3	1,68	0.900	15
3OD*3/4	76.1x26.9	1,68	0.900	23
3OD*1	76.1x33.7	1,68	0.900	23
3OD*1 1/4	76.1x42.4	1,86	1.010	20
3OD*1 1/2	76.1x48.3	1,89	1.030	20
3OD*2	76.1x60.3	1,90	1.030	15
3*1/2	88.9x21.3	1,82	1.030	18
3*2	88.9x60.3	2,24	1.244	15
3*2 1/2	88.9x73.0	2,28	1.300	15
3*3OD	88.9x76.1	2,28	1.300	
108mm*1 1/4	108x42.4	2,41	1.402	
108mm*1 1/2	108x48.3	2,43	1.422	
108mm*2	108x60.3	2,73	1.561	
4*3/4	114.3x26.9	2,28		15
4*1	114.3x33.7	2,28	1.309	15
4*1 1/4	114.3x42.4	2,41	1.402	13
4*1 1/2	114.3x48.3	2,43	1.422	13
4*2	114.3x60.3	2,73	1.561	8
4*2 1/2	114.3x73.0	3,26	1.868	8
4*3OD	114.3x76.1	3,20	1.828	8
4*3	114.3x88.9	3,22	1.828	8
5.5OD*1	139.7x33.7	3,16	1.775	8
5.5OD*1 1/4	139.7x42.4	3,16	1.828	8
5.5OD*1 1/2	139.7x48.3	3,16	1.838	8
5.5OD*2	139.7x60.3	3,51	2.037	6
5.5OD*3OD	139.7x76.1	3,74	2.244	6
5.5OD*3	139.7x88.9	4,10	2.383	5
5*2	141.3x60.3	4,10	2.350	
159mm*2	159.0x60.3	4,12	2.400	
6.5OD*1	165.1x33.7	3,61	2.125	8
6.5OD*1 1/4	165.1x42.4	3,74	2.218	8
6.5OD*1 1/2	165.1x48.3	3,74	2.218	7
6.5OD*2	165.1x60.3	4,12	2.407	6
6.5OD*3OD	165.1x76.1	4,54	2.644	
6.5OD*3	165.1x88.9	4,91	2.863	5
6.5OD*4	165.1x114.3	5,37	2.900	8
6*1	168.3x33.7	3,61	2.125	8
6*1 1/4	168.3x42.4	3,72	2.198	8
6*1 1/2	168.3x48.3	3,74	2.218	7
6*2	168.3x60.3	4,12	2.407	6
6*2 1/2	168.3x73.0	4,54	2.644	5
6*3	168.3x88.9	4,95	2.893	8
6*4	168.3x114.3	5,37	2.900	8
8*1	219.1x33.7	5,54	3.065	8
8*1 1/4	219.1x42.4	5,60	3.118	8
8*1 1/2	219.1x48.3	5,69	3.168	8
8*2	219.1x60.3	6,06	3.327	8
8*2 1/2	219.1x73.0	6,55	3.580	8
8*3OD	219.1x76.1	6,55	3.584	8
8*3	219.1*88.9	6,55	3,743	
8*4	219.1*114.3	7,51	4,150	
10*1	273.0*33.7	13,30		

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	10*1 1/4	273.0*42.4	13,30		
	10*1 1/2	273.0*48.3	13,30		
	10*2	273.0*60.3	13,30		
	10*3OD	273.0*76.1	13,30		
	10*3	273.0*88.9	13,30		

<p>Mechanical Tee Grooved</p> 	2*1	60.3x33.7	1,37		25
	2*1 1/4	60.3x42.4	1,50	0.748	25
	2*1 1/2	60.3x48.3	1,48	0.798	25
	2 1/2*1	73.0x33.7	1,82		23
	2 1/2*1 1/4	73.0x42.4	1,89	1.021	20
	2 1/2*1 1/2	73.0x48.3	1,94	1.061	20
	2 1/2*2	73.0x60.3	1,95		20
	3OD*1	76.1x33.7	0,00		23
	3OD*1 1/4	76.1x42.4	1,91	1.041	20
	3OD*1 1/2	76.1x48.3	1,94	1.051	20
	3OD*2	76.1x60.3	1,95		20
	3*1	88.9x33.7	2,00		20
	3*1 1/4	88.9x42.4	2,00	1.115	18
	3*1 1/2	88.9x48.3	2,02	1.125	18
	3*2	88.9x60.3	2,26	1.264	15
	3*2 1/2	88.9x73.0	2,38		13
	3*3OD	88.9x76.1	2,38		
	108mm*1 1/4	108x42.4	0,00		
	108mm*1 1/2	108x48.3	0,00		
	108mm*2	108x60.3	0,00		
	4*1	114.3*33.7	2,47	1.309	15
	4*1 1/4	114.3x42.4	2,47	1.452	13
	4*1 1/2	114.3x48.3	2,51	1.472	13
	4*2	114.3x60.3	2,80	1.601	8
	4*2 1/2	114.3x73.0	3,04	1.718	8
	4*3OD	114.3x76.1	3,09	1.758	8
	4*3	114.3x88.9	3,52	1.974	8
	5.5OD*1	139.7x33.7	3,16	1.775	8
	5.5OD*1 1/4	139.7x42.4	3,16	1.828	8
	5.5OD*1 1/2	139.7x48.3	3,16	1.838	8
	5.5OD*2	139.7x60.3	3,51	2.037	8
	5.5OD*3OD	139.7x76.1	3,74	2.244	6
	5.5OD*3	139.7x88.9	4,10	2.383	6
	5*2 1/2	141.3x73.0	3,74	2.250	
	5*3	141.3x88.9	4,10	2.400	
	6.5OD*1	165.1x33.7	3,76	2.200	8
	6.5OD*1 1/4	165.1x42.4	3,76	2.220	8
	6.5OD*1 1/2	165.1x48.3	3,81	2.250	7
	6.5OD*2	165.1x60.3	4,10	2.400	6
	6.5OD*3OD	165.1x76.1	4,42	2.582	5
	6.5OD*3	165.1x88.9	4,63	2.673	5
	6.5OD*4	165.1x114.3	5,58	3.300	8
	6*1 1/4	168.3x42.4	3,76	2.228	8
	6*1 1/2	168.3x48.3	3,82	2.268	7
	6*2	168.3x60.3	4,12	2.407	6


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	6*2 1/2	168.3x73.0	4,36	2.532	5
	6*3	168.3x88.9	4,75	2.753	5
	6*4	168.3x114.3	5,63	3.350	8
	8*2	219.1x60.3	5,77	3.277	8
	8*2 1/2	219.1x73.0	5,77	3.300	8
	8*3OD	219.1x76.1	5,79	3.482	8
	8*3	219.1x88.9	6,08	3.643	8
	8*4	219.1x114.3	6,84	4.150	8
	10*2	273.0*60.3	13,30		
	10*2 1/2(10*3OD)	273.0*73.0/76.1	13,30		
	10*3	273.0*88.9	13,30		
	10*4	273.0*114.3	13,30		
	10*5.5OD	273.0*139.7	13,30		
	10*6.5OD(10*6)	273.0*165.1/168.3	13,30		

<p>Grooved Split Flange PN16</p> 	2	60.3	3,00	1.590	15
	2 1/2	73.0	3,26	1.710	12
	3OD	76.1	3,26	1.730	12
	3	88.9	3,63	2.060	10
	108mm	108	4,60	2.400	
	4	114.3	4,60	2.420	6
	5.5OD	139.7	5,45	3.300	6
	159mm	159.0	6,41	3.400	
	6.5OD	165.1	6,41	3.480	5
	6	168.3	6,38	3.530	5
8	219.1	10,23	6.800	4	


<p>Grooved Split Flange Class 150</p> 	2	60.3-class150	3,30	1.540	15
	2 1/2	73.0-class150	3,56	1.740	12
	3OD	76.1-class150	0,00		15
	3	88.9-class150	3,78	1.870	10
	108mm	108-class150	0,00		
	4	114.3-class150	4,60	2.630	6
	5.5OD	139.7-class150	5,75	3.600	6
	5	141.3-class150	0,00		5
	159mm	159.0-class150	0,00		
	6.5OD	165.1-class150	0,00		5
6	168.3-class150	6,38	3.490	5	
8	219.1-class150	10,53	6.000	4	

<p>Flange adaptor PN16</p> 	2	60.3-1.6	2,31	1.430	10
	2 1/2	73.0-1.6	2,98	1.780	8
	3OD	76.1-1.6	2,99	1.800	8
	3	88.9-1.6	3,30	2.100	8
	10	273.0-class150	24,19	11.650	2
	12	323.9-class50	28,99	16.200	2
	3	88.9	2,93	1.630	8
	133mm	133-1.6	5,20	3.150	4
	5.5OD	139.7-1.6	5,19	3.340	4
	159mm	159.0-1.6	6,55	4.300	5
	6.5OD	165.1-1.6	6,58	4.300	5
	6	168.3-1.6	6,64	4.300	5

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	8	219.1-1.6	10,70	6.220	3
	10	273.0-1.6	22,74	11.000	2
	12	323.9-1.6	27,27	16.000	2

Flange Adaptor Class 150 	2	60.3	2,68	1.410	10
	2 1/2	73.0	3,43	1.890	8
	3OD	76.1	3,45	1.790	8
	3	88.9	3,74	2.180	8
	4	114.3	4,95	3.130	10
	5.5OD	139.7	5,42	3.860	4
	5	141.3	5,42	3.870	6
	6.5OD	165.1	6,93	4.220	5
	6	168.3	6,93	4.440	5
	8	219.1	11,44	7.000	3

Flange adaptor Table E	4	114.3	3,39	2.160	10
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Flange adaptor KS	2	60.3	2,68	1.370	10
	3OD	76.1	2,87	1.690	8
	3	88.9	3,86	2.310	8
	4	114.3	4,42	2.880	10
	5.5OD	139.7	5,27	3.620	6
	6.5OD	165.1	6,97	4.280	6

90° Elbow (s) 	1	33.7	0,87	0.270	100
	1 1/4	42.4	0,95	0.390	50
	1 1/2	48.3	1,08	0.450	45
	2	60.3	1,33	0.660	25
	2 1/2	73.0	1,66	0.890	32
	3OD	76.1	1,66	1.010	32
	3	88.9	2,20	1.220	20
	108mm	108	3,02	1.840	12
	4	114.3	3,02	1.840	12
	5.5OD	139.7	5,34	3.300	5
	5	141.3	6,49	3.300	5
	159mm	159.0	6,49	3.500	3
	6.5OD	165.1	6,49	3.950	3
	6	168.3	6,57	4.290	3
	8	219.1	13,18	8.150	1
	10	273.0	24,60	13.500	1
12	323.9	37,86	20.000	1	

Elbow (L) 	1	33.7	0,90	0.270	100
	1 1/4	42.4	1,04	0.450	50
	1 1/2	48.3	1,20	0.530	42
	2	60.3	1,64	0.800	20
	2 1/2	73.0	1,99	1.090	26
	3OD	76.1	2,09	1.230	26
	3	88.9	2,78	1.510	18
	4	114.3	4,15	2.580	9

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	5.5OD	139.7	5,80	4.000	5
	5	141.3	5,80	3.900	5
	6.5OD	165.1	8,31		3
	6	168.3	8,93	5.270	3
	8	219.1	16,87	9.600	1

<p>45° Elbow</p>	1	33.7	0,90	0.200	150
	1 1/4	42.4	0,90	0.330	75
	1 1/2	48.3	0,96	0.390	66
	2	60.3	1,27	0.590	30
	2 1/2	73.0	1,60	0.770	20
	3OD	76.1	1,64	0.860	20
	3	88.9	2,17	1.190	24
	108mm	108	3,17	1.880	14
	4	114.3	3,17	1.880	14
	5.5OD	139.7	4,69	2.570	8
	5	141.3	4,69	2.900	8
	6.5OD	165.1	6,06	3.140	4
	6	168.3	6,06	3.260	4
	8	219.1	13,57	6.290	1
10	273.0	25,21		1	
12	323.9	38,87		1	

<p>22,5° Elbow</p>	1 1/2	48.3	0,96	0.390	80
	2	60.3	1,12	0.550	30
	2 1/2	73.0	1,52	0.890	35
	3OD	76.1	1,57	0.730	35
	3	88.9	2,17	1.160	24
	108mm	108	3,17	1.670	15
	4	114.3	3,17	1.670	16
	5.5OD	139.7	5,01	1.610	6
	6.5OD	165.1	5,60	2.900	6
	6	168.3	5,75	2.850	4
	8	219.1	10,10		2
	10	273.0	21,07		1
	12	323.9	0,00		1


<p>11,25° Elbow</p>	1	33.7	0,82		
	1 1/4	42.4	0,82		
	1 1/2	48.3	0,82	0.360	90
	2	60.3	0,96	0.460	60
	2 1/2	73.0	1,27	0.610	50
	3OD	76.1	1,42	0.610	50
	3	88.9	1,72	0.910	48
	4	114.3	2,26	1.560	18
	5.5OD	139.7	3,34	1.390	16
	6.5OD	165.1	4,10	2.080	10
	6	168.3	4,17	2.670	8
	8	219.1	6,63		4
	10	273.0	21,07		3


<p>Reducing Elbow (Grooved*Grooved)</p> 	2*1 1/2	60.3*48.3	1,50		
	2 1/2*2	73.0*60.3	1,91		
	3OD*2	76.1*60.3	1,91		
	3*2 1/2	88.9*73.0	2,67		
	3*3OD	88.9*76.1	2,67		
	4*3	114.3*88.9	3,80	2.020	
	6.5OD*4	165.1*114.3	8,15		
	6*4	168.3*114.3	8,15		


<p>Reducing Elbow (Grooved*Threaded)</p> 	1*1/2	33.7*21.3	1,13	0.260	
	1*3/4	33.7*26.9	1,13		
	1 1/4*1/2	42.4*21.3	1,13	0.350	
	1 1/4*3/4	42.4*26.9	1,13		
	1 1/4*1	42.4*33.7	1,13		
	1 1/2*1/2	48.3*21.3	1,13		
	1 1/2*3/4	48.3*26.9	1,13	0.390	
	1 1/2*1	48.3*33.7	1,13	0.430	
	2*1/2	60.3*21.3	1,50	0.480	
	2*3/4	60.3*26.9	1,50	0.500	
	2*1	60.3*33.7	1,50	0.560	
	2 1/2*1/2	73.0*21.3	1,91		
	2 1/2*3/4	73.0*26.9	1,91		
	2 1/2*1	73.0*33.7	1,91		
	3OD*1/2	76.1*21.3	1,91		
	3OD*3/4	76.1*26.9	1,91		
	3OD*1	76.1*33.7	1,91		


<p>Cap</p> 	1	33.7	0,31	0.100	400
	1 1/4	42.4	0,38	0.140	200
	1 1/2	48.3	0,46	0.180	200
	2	60.3	0,66	0.250	100
	2 1/2	73.0	0,81	0.370	90
	3OD	76.1	0,81	0.370	90
	3	88.9	1,01	0.520	65
	108mm	108	1,29	0.650	45
	4	114.3	1,51	0.860	45
	5.5OD	139.7	2,12	1.310	25
	5	141.3	2,12	1.350	25
	159mm	159.0	2,91	1.300	20
	6.5OD	165.1	2,91	1.690	20
	6	168.3	3,06	1.740	20
	8	219.1	6,24	3.270	5
	10	273.0	13,86	4.320	5
	12	323.9	17,77	5.730	5
	2*1 1/2	60.3*48.3	0,59	0.350	100


<p>Cap with eccentric Hole</p>	2*1 1/2	60.3*48.3	0,59	0.350	100
	3OD*1 1/2	76.1*48.3	1,08	0.700	64
	3OD*2	76.1*60.3	0,95	0.600	64
	3*1 1/2	88.9*48.3	1,22	0.800	56
	3*2	88.9*60.3	1,37	0.900	56

	4*1	114.3x33.7	1,65	1.100	45
	4*2	114.3*60.3	1,86	1.250	45
	5.5OD*2	139.7*60.3	2,48	1.700	30
	6*2	168.3*60.3	3,76	2.600	20
	8*2	219.1*60.3	6,85	4.800	4

<p>Cap with Concentric Hole</p> 	3*1	88.9*33.7	1,24	0.800	
	4*1	114.3*33.7	1,65	1.100	36
	6.5OD*1	165.1*33.7	3,47	2.350	16
	6*1	168.3*33.7	3,47	2.400	16
	8*1	219.1*33.7	6,14	4.300	4

<p>Equal TEE(S)</p> 	1	33.7	0,99	0.450	70
	1 1/4	42.4	1,21	0.600	45
	1 1/2	48.3	1,37	0.660	36
	2	60.3	1,82	0.980	15
	2 1/2	73.0	2,41	1.220	24
	3OD	76.1	2,59	1.230	24
	3	88.9	3,43	1.690	14
	4	114.3	4,50	2.630	7
	5.5OD	139.7	8,02	3.870	4
	6.5OD	165.1	9,58	5.420	2
	6	168.3	9,58	5.920	2
	8	216.3	21,80	10.920	1
	8	219.1	21,80	10.920	1
	10	273.0	36,31	19.000	1
	12	323.9	55,17	28.000	1

<p>Equal TEE(L)</p> 	1	33.7	0,99	0.450	70
	1 1/4	42.4	1,37	0.660	30
	1 1/2	48.3	1,52	0.770	30
	2	60.3	2,20	1.150	14
	2 1/2	73.0	2,94	1.650	20
	3OD	76.1	2,98	1.650	18
	3	88.9	4,26	2.310	12
	4	114.3	6,15	3.460	5
	5.5OD	139.7	8,62	5.500	4
	5	141.3	11,58	6.020	4
	6.5OD	165.1	11,92	6.800	2
	6	168.3	14,12	6.820	2
	8	216.3	30,85	12.990	2
	8	219.1	30,85	12.990	1

<p>Grooved Reducing TEE</p> 	1 1/4*1	42.4x33.7	1,47	0.590	30
	1 1/2*1	48.3x33.7	1,47	0.660	30
	1 1/2*1 1/4	48.3*42.4	1,47	0.620	30
	2*1	60.3*33.7	1,61	0.990	22
	2*1 1/4	60.3*42.4	1,61	0.870	15
	2*1 1/2	60.3*48.3	1,61	1.020	15
	2 1/2*1	73.0*33.7	2,20	1.050	24
	2 1/2*1 1/4	73.0*42.4	2,20	1.060	24

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2 1/2*1 1/2	73.0*48.3	2,20	1.080	24
2 1/2*2	73.0*60.3	2,20	1.240	24
3OD*1	76.1*33.7	2,34	1.060	24
3OD*1 1/4	76.1*42.4	2,34	1.090	24
3OD*1 1/2	76.1*48.3	2,34	1.110	24
3OD*2	76.1*60.3	2,34	1.130	24
3*1	88.9*33.7	2,81	1.380	17
3*1 1/4	88.9*42.4	2,81	1.430	17
3*1 1/2	88.9*48.3	2,81	1.470	14
3*2	88.9*60.3	2,81	1.720	14
3*2 1/2	88.9*73.0	2,81	1.730	14
3*3OD	88.9*76.1	2,81	1.710	14
108mm*1	108x33.7	4,47	2.140	8
108mm*1 1/2	108x48.3	4,47	2.220	7
108mm*2	108x60.3	4,47	2.240	7
4*1	114.3*33.7	4,47	2.260	8
4*1 1/4	114.3*42.4	4,47	2.310	7
4*1 1/2	114.3*48.3	4,47	2.270	7
4*2	114.3*60.3	4,47	2.350	7
4*2 1/2	114.3*73.0	4,62	2.500	7
4*3OD	114.3x76.1	4,62	2.390	7
4*3	114.3x88.9	4,77	2.570	7
5.5OD*2	139.7x60.3	6,98	3.410	4
5.5OD*3OD	139.7x76.1	6,98	3.540	4
5.5OD*3	139.7x88.9	7,12	3.570	4
5.5OD*4	139.7x114.3	7,28	3.710	4
5*2 1/2	141.3x73.0	9,13	4.600	4
5*3	141.3x88.9	9,13	4.690	4
6.5OD*2	165.1x60.3	9,33	4.920	3
6.5OD*3OD	165.1x76.1	9,48	5.980	3
6.5OD*3	165.1x88.9	9,78	4.880	3
6.5OD*4	165.1x114.3	10,36	5.160	2
6.5OD*5.5OD	165.1x139.7	10,50	5.130	2
6*1 1/2	168.3*48.3	9,26	6.000	3
6*2	168.3x60.3	9,33	6.040	3
6*2 1/2	168.3x73.0	9,48	6.000	3
6*3OD	168.3x76.1	9,48	6.150	3
6*3	168.3x88.9	9,78	5.140	3
6*4	168.3x114.3	10,36	6.640	2
6*5	168.3x141.3	10,50	6.790	2
8*1 1/2	219.1*48.3	17,23	11.900	1
8*2	219.1*60.3	17,23	11.900	1
8*3OD	219.1x76.1	17,37	11.900	1
8*3	219.1x88.9	17,81	11.770	1
8*108mm	219.1x108	17,55	9.370	1
8*4	219.1x114.3	18,40	11.500	1
8*5.5OD	219.1*139.7	18,69	11.700	1
8*6.5OD	219.1x165.1	19,42	11.770	1
8*6	219.1x168.3	19,42	11.700	1
10*4	273.0*114.3	32,94		1
10*6.5OD	273.0*165.1	33,93		1
10*6	273.0*168.3	34,59		1

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	10*8	273.0*219.1	36,31		1
	12*4	323.9*114.3	49,60		1
	12*6.5	323.9*165.1	36,60		1
	12*6	323.9*168.3	49,60		1
	12*8	323.9*219.1	49,60		1
	12*10	323.9*273.0	49,60		1


<p>1Threaded Reducing TEE</p> 	1 1/4*1	42.4*33.7	1,11	0.620	30
	1 1/2*1	48.3*33.7	1,22	0.620	30
	1 1/2*1 1/4	48.3*42.4	1,31	0.620	15
	2*1	60.3*33.7	1,73	0.840	15
	2*1 1/4	60.3*42.4	1,81	0.870	15
	2*1 1/2	60.3*48.3	1,89	0.890	15
	2 1/2*1	73.0*33.7	2,25	1.090	24
	2 1/2*1 1/4	73.0*42.4	2,33	1.120	24
	2 1/2*1 1/2	73.0*48.3	2,39	1.170	24
	2 1/2*2	73.0*60.3	2,54	1.270	24
	3OD*1	76.1*33.7	2,25	1.090	24
	3OD*1 1/4	76.1*42.4	2,33	1.130	24
	3OD*1 1/2	76.1*48.3	2,39	1.130	24
	3OD*2	76.1*60.3	2,54	1.210	24
	3*1	88.9*33.7	2,83	1.390	14
	3*1 1/4	88.9*42.4	2,98	1.440	14
	3*1 1/2	88.9*48.3	3,06	1.460	14
	3*2	88.9*60.3	3,28	1.510	14
	3*3OD	88.9*76.1	3,42	1.570	14
	4*1	114.3*33.7	4,30	2.330	8
	4*1 1/4	114.3*42.4	4,38	3.090	8
	4*1 1/2	114.3*48.3	4,45	2.900	7
	4*2	114.3*60.3	4,60	2.380	7
	4*2 1/2	114.3*73.0	4,67	2.400	7
	4*3OD	114.3*76.1	4,75	2.410	7
	4*3	114.3*88.9	5,03	2.490	7
	5.5OD*1	139.7*33.7	6,86	3.460	4
	5.5OD*1 1/4	139.7*42.4	6,86	3.430	4
	5.5OD*1 1/2	139.7*48.3	6,94	3.410	4
	5.5OD*2	139.7*60.3	7,02	3.520	4
	5.5OD*3OD	139.7*76.1	7,16	3.650	4
	5.5OD*3	139.7*88.9	7,31	3.650	4
	6.5OD*1	165.1*33.7	9,66	4.890	3
	6.5OD*1 1/4	165.1*42.4	9,80	4.890	3
	6.5OD*1 1/2	165.1*48.3	9,80	4.780	3
	6.5OD*2	165.1*60.3	9,96	4.860	3
	6.5OD*3OD	165.1*76.1	9,96	4.950	3
	6.5OD*3	165.1*88.9	9,96	5.070	3
	6.5OD*4	165.1*114.3	10,24	5.070	2
	6*1	168.3*33.7	9,66	4.890	3
6*1 1/4	168.3*42.4	9,80	4.890	3	
6*1 1/2	168.3*48.3	9,80	4.780	3	
6*2	168.3*60.3	9,96	6.000	3	
6*3OD	168.3*76.1	9,96		3	
6*3	168.3*88.9	9,96		3	

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	6*4	168.3*114.3	10,24		
	8*3	219.1*88.9	19,41		
	8*4	219.1*114.3	19,71		


<p>Equal Cross</p> 	2	60.3	2,26	1.370	20
	2 1/2	73.0	2,87	1.900	16
	3OD	76.1	2,95	1.950	16
	3	88.9	4,20	2.500	12
	4	114.3	6,33	3.940	4
	5.5OD	139.7	8,59	5.900	3
	6.5OD	165.1	12,62	8.900	2
	6	168.3	12,91	9.050	2
	8	219.1	28,05		1
	10	273.0	70,95		


<p>Reducer Threaded</p> 	1*1/2	33.7x21.3	1,43	0.210	
	1*3/4	33.7x26.9	1,43	0.220	200
	1*1	33.7x33.7	1,37	0.280	125
	1 1/4*1/2	42.4x21.3	1,37	0.230	140
	1 1/4*3/4	42.4x26.9	1,37	0.290	125
	1 1/4*1	42.4x33.7	1,34	0.280	125
	1 1/2*1/2	48.3x21.3	1,37	0.260	
	1 1/2*3/4	48.3x26.9	1,37	0.270	
	1 1/2*1	48.3x33.7	1,30	0.340	
	2*3/4	60.3*26.9	0,99		
	2*1	60.3*33.7	0,82	0.450	72
	2*1 1/4	60.3*42.4	0,91	0.460	60
	2*1 1/2	60.3*48.3	0,95	0.500	60
	2 1/2*1	73.0*33.7	1,03	0.570	50
	2 1/2*1 1/4	73.0*42.4	1,03	0.590	50
	2 1/2*1 1/2	73.0*48.3	1,03	0.660	50
	2 1/2*2	73.0*60.3	1,03	0.560	40
	3OD*1	76.1*33.7	1,03	0.590	50
	3OD*1 1/4	76.1*42.4	1,03	0.580	50
	3OD*1 1/2	76.1*48.3	1,03	0.600	50
	3OD*2	76.1*60.3	1,03	0.580	40
	3*1	88.9*33.7	1,03	0.610	42
	3*1 1/4	88.9*42.4	1,09	0.640	42
	3*1 1/2	88.9*48.3	1,09	0.650	42
	3*2	88.9*60.3	1,20	0.710	32
	3*2 1/2	88.9*73.0	1,39	0.800	32
	3*3OD	88.9*76.1	1,47	0.760	32
	4*1	114.3*33.7	1,40	0.910	27
	4*1 1/4	114.3*42.4	1,50	0.930	27
	4*1 1/2	114.3*48.3	1,50	0.930	27
	4*2	114.3*60.3	1,60	0.980	27
	4*2 1/2	114.3*73.0	1,70	1.070	18
	4*3OD	114.3*76.1	1,64	1.010	18
	4*3	114.3*88.9	1,91	1.590	18
	133mm*108mm	133*108	1,87	1.410	
	5.5OD*1	139.7*33.7	2,05	1.160	30
	5.5OD*1 1/4	139.7*42.4	2,12	1.160	30

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	5.5OD*1 1/2	139.7*48.3	2,20	1.160	30
	5.5OD*2	139.7*60.3	2,20	1.310	30
	5.5OD*3OD	139.7*76.1	2,42	1.290	30
	5.5OD*3	139.7*88.9	2,56	1.420	25
	5.5OD*4	139.7*114.3	2,94	1.580	15
	5*2	141.3*60.3	2,57	1.380	30
	6.5OD*1	165.1*33.7	2,42	1.700	24
	6.5OD*1 1/4	165.1*42.4	2,50	1.800	24
	6.5OD*1 1/2	165.1*48.3	2,56	1.830	24
	6.5OD*2	165.1*60.3	2,64	1.850	24
	6.5OD*3OD	165.1*76.1	2,94	1.740	24
	6.5OD*3	165.1*88.9	2,94	1.850	20
	6.5OD*4	165.1*114.3	3,08	1.970	16
	6*1	168.3*33.7	3,38	1.580	24
	6*1 1/4	168.3*42.4	2,50	1.800	24
	6*1 1/2	168.3*48.3	2,56	1.830	24
	6*2	168.3*60.3	2,64	1.850	24
	6*2 1/2	168.3*73.0	2,76		
	6*3OD	168.3*76.1	2,76		
	6*3	168.3*88.9	2,93		
	6*4	168.3*114.3	3,16		16
	8*1	219.3*33.7	5,14		
	8*1 1/4	219.1*42.4	5,14		
	8*1 1/2	219.1*48.3	5,14		
	8*2	219.1*60.3	5,21		
	8*3OD	219.1*76.1	5,28		
	8*3	219.1*88.9	5,43		
	8*4	219.1*114.3	5,58		


	1 1/2	48,3	1,38		
	2	60,3	1,17		
	3	88,9	1,43		

	1*3/4	33.7x26.9	0,00		200
	1*1	33.7x33.7	0,00		125
	1 1/4*1/2	42.4x21.3	0,00		140
	1 1/4*3/4	42.4x26.9	0,00		
	1 1/4*1	42.4*33.7	1,30	0.270	100
	1 1/2*1	48.3*33.7	1,30	0.270	100
	1 1/2*1 1/4	48.3*42.4	1,30	0.300	100
	2*1	60.3*33.7	0,82	0.420	75
	2*1 1/4	60.3*42.4	0,91	0.450	75
	2*1 1/2	60.3*48.3	0,95	0.430	72
	2 1/2*1	73.0*33.7	1,03	0.540	50
	2 1/2*1 1/4	73.0*42.4	1,03	0.580	50
	2 1/2*1 1/2	73.0*48.3	1,03	0.630	50
	2 1/2*2	73.0*60.3	1,09	0.500	40
	3OD*1	76.1*33.7	1,03	0.540	50
	3OD*1 1/4	76.1*42.4	1,03	0.600	50
	3OD*1 1/2	76.1*48.3	1,03	0.640	50

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3OD*2	76.1*60.3	1,09	0.510	40
3*1	88.9*33.7	1,03	0.630	42
3*1 1/4	88.9*42.4	1,04	0.660	42
3*1 1/2	88.9*48.3	1,08	0.640	42
3*2	88.9*60.3	1,12	0.650	32
3*2 1/2	88.9*73.0	1,31	0.720	32
3*3OD	88.9*76.1	1,31	0.730	32
108mm*2	108x60.3	1,59	0.920	
108mm*3OD	108x76.1	1,76	0.960	
108mm*3	108x88.9	1,86	1.150	
4*1 1/4	114.3x42.4	1,53	0.920	
4*1 1/2	114.3*48.3	1,53	0.870	27
4*2	114.3*60.3	1,59	0.960	27
4*2 1/2	114.3*73.0	1,61	0.890	18
4*3OD	114.3*76.1	1,76	0.910	18
4*3	114.3*88.9	1,86	1.050	18
5.5OD*2	139.7*60.3	2,12	1.220	30
5.5OD*3OD	139.7*76.1	2,20	1.300	30
5.5OD*3	139.7*88.9	2,34	1.390	30
5.5OD*4	139.7*114.3	2,78	1.650	20
5*2 1/2	141.3x73.0	2,20	1.410	30
5*3	141.3x88.9	2,34	1.520	30
6.5OD*2	165.1*60.3	2,56	1.660	24
6.5OD*2 1/2	165.1*73.0	2,86		
6.5OD*3OD	165.1*76.1	2,94	1.730	24
6.5OD*3	165.1*88.9	3,22	1.760	24
6.5OD*4	165.1*114.3	3,45	1.930	20
6.5OD*5.5OD	165.1*139.7	3,67	2.240	16
6*2	168.3*60.3	2,54	1.670	24
6*2 1/2	168.3*73.0	2,82	1.860	24
6*3	168.3*88.9	2,93	1.740	24
6*4	168.3*114.3	3,16	1.870	20
6*5.5OD	168.3*139.7	3,67	2.640	16
6*5	168.3*141.3	3,67	2.440	
8*2 1/2	219.1x73.0	5,27	2.990	8
8*3OD	219.1*76.1	5,28	3.150	8
8*3	219.1*88.9	5,43	3.180	8
8*4	219.1*114.3	5,72	3.520	8
8*5.5OD	219.1*139.7	5,72	3.700	5
8*159mm	219.1*159	5,73	3.780	
8*6.5OD	219.1*165.1	5,80	3.790	5
8*6	219.1*168.3	5,86	3.880	5
10*4	273.0*114.3	12,90		6
10*6	273.0*168.3	12,90		6
10*8	273.0*219.1	13,05		5
12*8	323.9*219.1	21,91		4
12*10	323.9*273.0	21,91		4

<p>Eccentric Reducer Grooved</p> 	2*1 1/2	60.3*48.3	1,53	0.350	72
	3OD*2	76.1x60.3	0,00	0.470	
	2 1/2*2	73.0x60.3	0,00	0.470	
	3*2	88.9*60.3	0,00		
	3*2 1/2	88.9*73.0	1,53		
	3*3OD	88.9*76.1	1,61		
	4*2	114.3*60.3	2,12		18
	4*2 1/2	114.3*73.0	2,28	0.950	18
	4*3OD	114.3*76.1	2,34	0.980	18
	4*3	114.3*88.9	2,42		15
	5.5OD*3OD	139.7*76.1	3,38		15
	5.5OD*3	139.7*88.9	3,52		15
	5.5OD*4	139.7*114.3	3,81		15
	159mm*3OD	159.0*76.1	0,00		20
	6.5OD*2	165.1*60.3	3,97		
	6.5OD*3OD	165.1*76.1	3,97		20
	6.5OD*3	165.1*88.9	4,11		20
	6.5OD*4	165.1*114.3	4,71	1.970	20
	6.5OD*5.5OD	165.1*139.7	0,00		16
	6*3	168.3*88.9	0,00		20
	6*4	168.3*114.3	4,71	2.150	20
	6*5.5OD	168.3*139.7	0,00		8
	8*4	219.1*114.3	6,16	3.410	
	8*6.5OD	219.1*165.1	9,23		
	8*6	219.1*168.3	9,23	3.800	5
	10*6.5OD	273.0*165.1	18,75		5
	10*6	273.0*168.3	18,75		5
	10*8	273.0*219.1	19,50		
12*10	323.9*273.0	34,83			