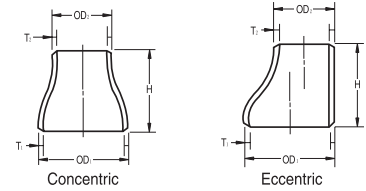


Reducer

STD, Sch40, X-S, Sch80, Sch160, XX-S



(Unit : mm)

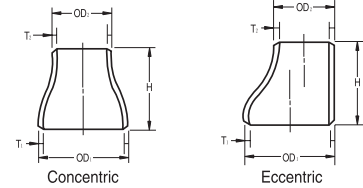
ASME B16.9

Nominal Pipe Size	Outside Diameter		End to End	STD		Sch40	
	OD1	OD2	H	T1	T2	T1	T2
3/4 X 1/2	26.7	21.3	38	2.87	2.77	2.87	2.77
1 X 3/4	33.4	26.7	51	3.38	2.87	3.38	2.87
1 X 1/2	33.4	21.3	51	3.38	2.77	3.38	2.77
1-1/4 X 1	42.2	33.4	51	3.56	3.38	3.56	3.38
1-1/4 X 3/4	42.2	26.7	51	3.56	2.87	3.56	2.87
1-1/4 X 1/2	42.2	21.3	51	3.56	2.77	3.56	2.77
1-1/2 X 1-1/4	48.3	42.2	64	3.68	3.56	3.68	3.56
1-1/2 X 1	48.3	33.4	64	3.68	3.38	3.68	3.38
1-1/2 X 3/4	48.3	26.7	64	3.68	2.87	3.68	2.87
2 X 1-1/2	60.3	48.3	76	3.91	3.68	3.91	3.68
2 X 1-1/4	60.3	42.2	76	3.91	3.56	3.91	3.56
2 X 1	60.3	33.4	76	3.91	3.38	3.91	3.38
2 X 3/4	60.3	26.7	76	3.91	2.87	3.91	2.87
2-1/2 X 2	73.0	60.3	89	5.16	3.91	5.16	3.91
2-1/2 X 1-1/2	73.0	48.3	89	5.16	3.68	5.16	3.68
2-1/2 X 1-1/4	73.0	42.2	89	5.16	3.56	5.16	3.56
2-1/2 X 1	73.0	33.4	89	5.16	3.38	5.16	3.38
3 X 2-1/2	88.9	73.0	89	5.49	5.16	5.49	5.16
3 X 2	88.9	60.3	89	5.49	3.91	5.49	3.91
3 X 1-1/2	88.9	48.3	89	5.49	3.68	5.49	3.68
3 X 1-1/4	88.9	42.2	89	5.49	3.56	5.49	3.56
3-1/2 X 3	101.6	88.9	102	5.74	5.49	5.74	5.49
3-1/2 X 2-1/2	101.6	73.0	102	5.74	5.16	5.74	5.16
3-1/2 X 2	101.6	60.3	102	5.74	3.91	5.74	3.91
3-1/2 X 1-1/2	101.6	48.3	102	5.74	3.68	5.74	3.68
4 X 3-1/2	114.3	101.6	102	6.02	5.74	6.02	5.74

X-S		Sch80		Sch160		XX-S		Nominal Pipe Size
T1	T2	T1	T2	T1	T2	T1	T2	
3.91	3.73	3.91	3.73	5.56	4.78	7.82	7.47	3/4 X 1/2
4.55	3.91	4.55	3.91	6.35	5.56	9.09	7.82	1 X 3/4
4.55	3.73	4.55	3.73	6.35	4.78	9.09	7.47	1 X 1/2
4.85	4.55	4.85	4.55	6.35	6.35	9.70	9.09	1-1/4 X 1
4.85	3.91	4.85	3.91	6.35	5.56	9.70	7.82	1-1/4 X 3/4
4.85	3.73	4.85	3.73	6.35	4.78	9.70	7.47	1-1/4 X 1/2
5.08	4.85	5.08	4.85	7.14	6.35	10.15	9.70	1-1/2 X 1-1/4
5.08	4.55	5.08	4.55	7.14	6.35	10.15	9.09	1-1/2 X 1
5.08	3.91	5.08	3.91	7.14	5.56	10.15	7.82	1-1/2 X 3/4
5.54	5.08	5.54	5.08	8.74	7.14	11.07	10.15	2 X 1-1/2
5.54	4.85	5.54	4.85	8.74	6.35	11.07	9.70	2 X 1-1/4
5.54	4.55	5.54	4.55	8.74	6.35	11.07	9.09	2 X 1
5.54	3.91	5.54	3.91	8.74	5.56	11.07	7.82	2 X 3/4
7.01	5.54	7.01	5.54	9.53	8.74	14.02	11.07	2-1/2 X 2
7.01	5.08	7.01	5.08	9.53	7.14	14.02	10.15	2-1/2 X 1-1/2
7.01	4.85	7.01	4.85	9.53	6.35	14.02	9.70	2-1/2 X 1-1/4
7.01	4.55	7.01	4.55	9.53	6.35	14.02	9.09	2-1/2 X 1
7.62	7.01	7.62	7.01	11.13	9.53	15.24	14.02	3 X 2-1/2
7.62	5.54	7.62	5.54	11.13	8.74	15.24	11.07	3 X 2
7.62	5.08	7.62	5.08	11.13	7.14	15.24	10.15	3 X 1-1/2
7.62	4.85	7.62	4.85	11.13	6.35	15.24	9.70	3 X 1-1/4
8.08	7.62	8.08	7.62		11.13		15.24	3-1/2 X 3
8.08	7.01	8.08	7.01		9.53		14.02	3-1/2 X 2-1/2
8.08	5.54	8.08	5.54		8.74		11.07	3-1/2 X 2
8.08	5.08	8.08	5.08		7.14		10.15	3-1/2 X 1-1/2
8.56	8.08	8.56	8.08	13.49		17.12		4 X 3-1/2

Reducer

STD, Sch40, X-S, Sch80, Sch160, XX-S



(Unit : mm)

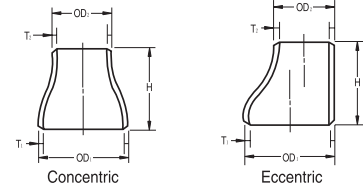
ASME B16.9

Nominal Pipe Size	Outside Diameter		End to End H	STD		Sch40	
	OD1	OD2		T1	T2	T1	T2
4 X 3	114.3	88.9	102	6.02	5.49	6.02	5.49
4 X 2-1/2	114.3	73.0	102	6.02	5.16	6.02	5.16
4 X 2	114.3	60.3	102	6.02	3.91	6.02	3.91
5 X 4	141.3	114.3	127	6.55	6.02	6.55	6.02
5 X 3-1/2	141.3	101.6	127	6.55	5.74	6.55	5.74
5 X 3	141.3	88.9	127	6.55	5.49	6.55	5.49
5 X 2-1/2	141.3	73.0	127	6.55	5.16	6.55	5.16
6 X 5	168.3	141.3	140	7.11	6.55	7.11	6.55
6 X 4	168.3	114.3	140	7.11	6.02	7.11	6.02
6 X 3-1/2	168.3	101.6	140	7.11	5.74	7.11	5.74
6 X 3	168.3	88.9	140	7.11	5.49	7.11	5.49
6 X 2-1/2	168.3	73.0	140	7.11	5.16	7.11	5.16
8 X 6	219.1	168.3	152	8.18	7.11	8.18	7.11
8 X 5	219.1	141.3	152	8.18	6.55	8.18	6.55
8 X 4	219.1	114.3	152	8.18	6.02	8.18	6.02
8 X 3-1/2	219.1	101.6	152	8.18	5.74	8.18	5.74
10 X 8	273.0	219.1	178	9.27	8.18	9.27	8.18
10 X 6	273.0	168.3	178	9.27	7.11	9.27	7.11
10 X 5	273.0	141.3	178	9.27	6.55	9.27	6.55
10 X 4	273.0	114.3	178	9.27	6.02	9.27	6.02
12 X 10	323.8	273.0	203	9.53	9.27	10.31	9.27
12 X 8	323.8	219.1	203	9.53	8.18	10.31	8.18
12 X 6	323.8	168.3	203	9.53	7.11	10.31	7.11
12 X 5	323.8	141.3	203	9.53	6.55	10.31	6.55
14 X 12	355.6	323.8	330	9.53	9.53	11.13	10.31
14 X 10	355.6	273.0	330	9.53	9.27	11.13	9.27

X-S		Sch80		Sch160		XX-S		Nominal Pipe Size
T1	T2	T1	T2	T1	T2	T1	T2	
8.56	7.62	8.56	7.62	13.49	11.13	17.12	15.24	4 X 3
8.56	7.01	8.56	7.01	13.49	9.53	17.12	14.02	4 X 2-1/2
8.56	5.54	8.56	5.54	13.49	8.74	17.12	11.07	4 X 2
9.53	8.56	9.53	8.56	15.88	13.49	19.05	17.12	5 X 4
9.53	8.08	9.53	8.08	15.88		19.05		5 X 3-1/2
9.53	7.62	9.53	7.62	15.88	11.13	19.05	15.24	5 X 3
9.53	7.01	9.53	7.01	15.88	9.53	19.05	14.02	5 X 2-1/2
10.97	9.53	10.97	9.53	18.26	15.88	21.95	19.05	6 X 5
10.97	8.56	10.97	8.56	18.26	13.49	21.95	17.12	6 X 4
10.97	8.08	10.97	8.08	18.26		21.95		6 X 3-1/2
10.97	7.62	10.97	7.62	18.26	11.13	21.95	15.24	6 X 3
10.97	7.01	10.97	7.01	18.26	9.53	21.95	14.02	6 X 2-1/2
12.70	10.97	12.70	10.97	23.01	18.26	22.23	21.95	8 X 6
12.70	9.53	12.70	9.53	23.01	15.88	22.23	19.05	8 X 5
12.70	8.56	12.70	8.56	23.01	13.49	22.23	17.12	8 X 4
12.70	8.08	12.70	8.08	23.01		22.23		8 X 3-1/2
12.70	12.70	15.09	12.70	28.58	23.01	25.40	22.23	10 X 8
12.70	10.97	15.09	10.97	28.58	18.26	25.40	21.95	10 X 6
12.70	9.53	15.09	9.53	28.58	15.88	25.40	19.05	10 X 5
12.70	8.56	15.09	8.56	28.58	13.49	25.40	17.12	10 X 4
12.70	12.70	17.48	15.09	33.32	28.58	25.40	25.40	12 X 10
12.70	12.70	17.48	12.70	33.32	23.01	25.40	22.23	12 X 8
12.70	10.97	17.48	10.97	33.32	18.26	25.40	21.95	12 X 6
12.70	9.53	17.48	9.53	33.32	15.88	25.40	19.05	12 X 5
12.70	12.70	19.05	17.48	35.71	33.32		25.40	14 X 12
12.70	12.70	19.05	15.09	35.71	28.58		25.40	14 X 10

Reducer

STD, Sch40, X-S, Sch80, Sch160, XX-S



(Unit : mm)

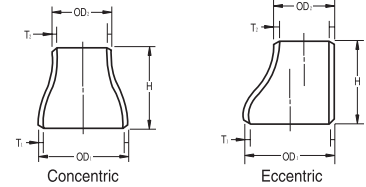
ASME B16.9

Nominal Pipe Size	Outside Diameter		End to End H	STD		Sch40	
	OD1	OD2		T1	T2	T1	T2
14 X 8	355.6	219.1	330	9.53	8.18	11.13	8.18
16 X 14	406.4	355.6	356	9.53	9.53	12.70	11.13
16 X 12	406.4	323.8	356	9.53	9.53	12.70	10.31
16 X 10	406.4	273.0	356	9.53	9.27	12.70	9.27
18 X 16	457.0	406.4	381	9.53	9.53	14.27	12.70
18 X 14	457.0	355.6	381	9.53	9.53	14.27	11.13
18 X 12	457.0	323.8	381	9.53	9.53	14.27	10.31
20 X 18	508.0	457.0	508	9.53	9.53	15.09	14.27
20 X 16	508.0	406.4	508	9.53	9.53	15.09	12.70
20 X 14	508.0	355.6	508	9.53	9.53	15.09	11.13
22 X 20	559.0	508.0	508	9.53	9.53		15.09
22 X 18	559.0	457.0	508	9.53	9.53		14.27
22 X 16	559.0	406.4	508	9.53	9.53		12.70
24 X 22	610.0	559.0	508	9.53	9.53	17.48	
24 X 20	610.0	508.0	508	9.53	9.53	17.48	15.09
24 X 18	610.0	457.0	508	9.53	9.53	17.48	14.27
26 X 22	660.0	559.0	610	9.53	9.53		
26 X 18	660.0	457.0	610	9.53	9.53		14.27
26 X 16	660.0	406.4		9.53	9.53		12.70
28 X 24	711.0	610.0	610	9.53	9.53		17.48
28 X 20	711.0	508.0	610	9.53	9.53		15.09
28 X 18	711.0	457.0	610	9.53	9.53		14.27
30 X 26	762.0	660.0	610	9.53	9.53		
30 X 22	762.0	559.0		9.53	9.53		
30 X 20	762.0	508.0	610	9.53	9.53		15.09
32 X 28	813.0	711.0	610	9.53	9.53	17.48	

X-S		Sch80		Sch160		XX-S		Nominal Pipe Size
T1	T2	T1	T2	T1	T2	T1	T2	
12.70	12.70	19.05	12.70	35.71	23.01		22.23	14 X 8
12.70	12.70	21.44	19.05	40.49	35.71			16 X 14
12.70	12.70	21.44	17.48	40.49	33.32		25.40	16 X 12
12.70	12.70	21.44	15.09	40.49	28.58		25.40	16 X 10
12.70	12.70	23.83	21.44	45.24	40.49			18 X 16
12.70	12.70	23.83	19.05	45.24	35.71			18 X 14
12.70	12.70	23.83	17.48	45.24	33.32		25.40	18 X 12
12.70	12.70	26.19	23.83	50.01	45.24			20 X 18
12.70	12.70	26.19	21.44	50.01	40.49			20 X 16
12.70	12.70	26.19	19.05	50.01	35.71			20 X 14
12.70	12.70	28.58	26.19	53.98	50.01			22 X 20
12.70	12.70	28.58	23.83	53.98	45.24			22 X 18
12.70	12.70	28.58	21.44	53.98	40.49			22 X 16
12.70	12.70	30.96	28.58	59.54	53.98			24 X 22
12.70	12.70	30.96	26.19	59.54	50.01			24 X 20
12.70	12.70	30.96	23.83	59.54	45.24			24 X 18
12.70	12.70		28.58		53.98			26 X 22
12.70	12.70		23.83		45.24			26 X 18
12.70	12.70		21.44		40.49			26 X 16
12.70	12.70		30.96		59.54			28 X 24
12.70	12.70		26.19		50.01			28 X 20
12.70	12.70		23.83		45.24			28 X 18
12.70	12.70							30 X 26
12.70	12.70		28.58		53.98			30 X 22
12.70	12.70		26.19		50.01			30 X 20
12.70	12.70							32 X 28

Reducer

STD, Sch40, X-S, Sch80, Sch160, XX-S



(Unit : mm)

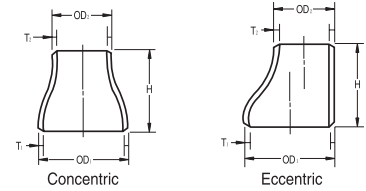
ASME B16.9

Nominal Pipe Size	Outside Diameter		End to End H	STD		Sch40	
	OD1	OD2		T1	T2	T1	T2
32 X 24	813.0	610.0	610	9.53	9.53	17.48	17.48
32 X 22	813.0	559.0		9.53	9.53	17.48	
34 X 30	864.0	762.0	610	9.53	9.53	17.48	
34 X 26	864.0	660.0	610	9.53	9.53	17.48	
34 X 22	864.0	559.0		9.53	9.53	17.48	
36 X 32	914.0	813.0	610	9.53	9.53	19.05	17.48
36 X 28	914.0	711.0		9.53	9.53	19.05	
36 X 24	914.0	610.0	610	9.53	9.53	19.05	17.48
38 X 34	965.0	864.0	610	9.53	9.53		17.48
38 X 30	965.0	762.0	610	9.53	9.53		
38 X 26	965.0	660.0	610	9.53	9.53		
40 X 36	1016.0	914.0	610	9.53	9.53		19.05
40 X 32	1016.0	813.0	610	9.53	9.53		17.48
40 X 28	1016.0	711.0		9.53	9.53		
42 X 38	1067.0	965.0	610	9.53	9.53		
42 X 34	1067.0	864.0	610	9.53	9.53		17.48
42 X 30	1067.0	762.0	610	9.53	9.53		
44 X 40	1118.0	1016.0	610	9.53	9.53		
44 X 36	1118.0	914.0	610	9.53	9.53		19.05
44 X 32	1118.0	813.0		9.53	9.53		17.48
46 X 42	1168.0	1067.0	711	9.53	9.53		
46 X 38	1168.0	965.0	711	9.53	9.53		
46 X 34	1168.0	864.0		9.53	9.53		17.48
48 X 44	1219.0	1118.0	711	9.53	9.53		
48 X 40	1219.0	1016.0	711	9.53	9.53		
48 X 36	1219.0	914.0		9.53	9.53		19.05

X-S		Sch80		Sch160		XX-S		Nominal Pipe Size
T1	T2	T1	T2	T1	T2	T1	T2	
12.70	12.70		30.96		59.54			32 X 24
12.70	12.70		28.58		53.98			32 X 22
12.70	12.70							34 X 30
12.70	12.70							34 X 26
12.70	12.70		28.58		53.98			34 X 22
12.70	12.70							36 X 32
12.70	12.70							36 X 28
12.70	12.70		30.96		59.54			36 X 24
12.70	12.70							38 X 34
12.70	12.70							38 X 30
12.70	12.70							38 X 26
12.70	12.70							40 X 36
12.70	12.70							40 X 32
12.70	12.70							40 X 28
12.70	12.70							42 X 38
12.70	12.70							42 X 34
12.70	12.70							42 X 30
12.70	12.70							44 X 40
12.70	12.70							44 X 36
12.70	12.70							44 X 32
12.70	12.70							46 X 42
12.70	12.70							46 X 38
12.70	12.70							46 X 34
12.70	12.70							48 X 44
12.70	12.70							48 X 40
12.70	12.70							48 X 36

Reducer

Sch20, Sch60, Sch100, Sch120, Sch140



(Unit : mm)

ASME B16.9

Nominal Pipe Size	Outside Diameter		End to End	Sch20	
	OD1	OD2	H	T1	T2
5 X 4	141.3	114.3	127		
6 X 5	168.3	141.3	140		
6 X 4	168.3	114.3	140		
8 X 6	219.1	168.3	152	6.35	
8 X 5	219.1	141.3	152	6.35	
8 X 4	219.1	114.3	152	6.35	
10 X 8	273.0	219.1	178	6.35	6.35
10 X 6	273.0	168.3	178	6.35	
10 X 5	273.0	141.3	178	6.35	
10 X 4	273.0	114.3	178	6.35	
12 X 10	323.8	273.0	203	6.35	6.35
12 X 8	323.8	219.1	203	6.35	6.35
12 X 6	323.8	168.3	203	6.35	
14 X 12	355.6	323.8	330	7.92	6.35
14 X 10	355.6	273.0	330	7.92	6.35
14 X 8	355.6	219.1	330	7.92	6.35
16 X 14	406.4	355.6	356	7.92	7.92
16 X 12	406.4	323.8	356	7.92	6.35
16 X 10	406.4	273.0	356	7.92	6.35
18 X 16	457.0	406.4	381	7.92	7.92
18 X 14	457.0	355.6	381	7.92	7.92
18 X 12	457.0	323.8	381	7.92	6.35
20 X 18	508.0	457.0	508	9.53	7.92
20 X 16	508.0	406.4	508	9.53	7.92
20 X 14	508.0	355.6	508	9.53	7.92
22 X 20	559.0	508.0	508	9.53	9.53

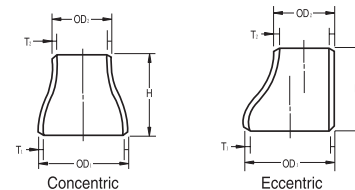
Sch60		Sch100		Sch120		Sch140	
T1	T2	T1	T2	T1	T2	T1	T2
				12.70	11.13		
				14.27	12.70		
				14.27	11.13		
10.31		15.09		18.26	14.27	20.62	
10.31		15.09		18.26	12.70	20.62	
10.31		15.09		18.26	11.13	20.62	
12.70	10.31	18.26	15.09	21.44	18.26	25.40	20.62
12.70		18.26		21.44	14.27	25.40	
12.70		18.26		21.44	12.70	25.40	
12.70		18.26		21.44	11.13	25.40	
14.27	12.70	21.44	18.26	25.40	21.44	28.58	25.40
14.27	10.31	21.44	15.09	25.40	18.26	28.58	20.62
14.27		21.44		25.40	14.27	28.58	
15.09	14.27	23.83	21.44	27.79	25.40	31.75	28.58
15.09	12.70	23.83	18.26	27.79	21.44	31.75	25.40
15.09	10.31	23.83	15.09	27.79	18.26	31.75	20.62
16.66	15.09	26.19	23.83	30.96	27.79	36.53	31.75
16.66	14.27	26.19	21.44	30.96	25.40	36.53	28.58
16.66	12.70	26.19	18.26	30.96	21.44	36.53	25.40
19.05	16.66	29.36	26.19	34.93	30.96	39.67	36.53
19.05	15.09	29.36	23.83	34.93	27.79	39.67	31.75
19.05	14.27	29.36	21.44	34.93	25.40	39.67	28.58
20.62	19.05	32.54	29.36	38.10	34.93	44.45	39.67
20.62	16.66	32.54	26.19	38.10	30.96	44.45	36.53
20.62	15.09	32.54	23.83	38.10	27.79	44.45	31.75
22.23	20.62	34.93	32.54	41.28	38.10	47.63	44.45

Reducer

Sch20, Sch60, Sch100, Sch120, Sch140

ASME B16.9

Nominal Pipe Size	Outside Diameter		End to End	Sch20	
	OD1	OD2	H	T1	T2
22 X 18	559.0	457.0	508	9.53	7.92
22 X 16	559.0	406.4	508	9.53	7.92
24 X 22	610.0	559.0	508	9.53	9.53
24 X 20	610.0	508.0	508	9.53	9.53
24 X 18	610.0	457.0	508	9.53	7.92



(Unit : mm)

Sch60		Sch100		Sch120		Sch140	
T1	T2	T1	T2	T1	T2	T1	T2
22.23	19.05	34.93	29.36	41.28	34.93	47.63	39.67
22.23	16.66	34.93	26.19	41.28	30.96	47.63	36.53
24.61	22.23	38.89	34.93	46.02	41.28	52.37	47.63
24.61	20.62	38.89	32.54	46.02	38.10	52.37	44.45
24.61	19.05	38.89	29.36	46.02	34.93	52.37	39.67