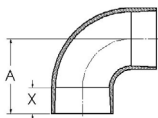


Epoxy HP 16 Large Diameter Fittings (232 psi unless noted)

Standard 90° Elbows

Bell x Bell

Nominal Size		A		X ⁽¹⁾		Nom. Weight	
in	mm	in	mm	in	mm	lbs	kg
18	450	21.75	552	8.0	203	140	64
20	500	25.25	641	9.1	231	200	91
24	600	29.0	737	10.0	254	250	114
30	750	36.5	927	13.9	353	450	204
36	900	43.5	1,105	16.8	427	800	364



Long Radius 90° Elbows

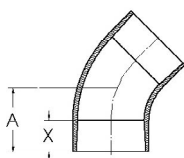
Bell x Bell, Long Radius 1.5D

Nominal Size		A		X ⁽¹⁾		Nom. Weight	
in	mm	in	mm	in	mm	lbs	kg
18	450	36.75	933	8.0	203	167	76
20	500	42.25	1,073	9.1	231	225	102
24	600	50.0	1,270	10.0	254	258	117

Standard 45° Elbows

Bell x Bell

Nominal Size		A		X ⁽¹⁾		Nom. Weight	
in	mm	in	mm	in	mm	lbs	kg
18	450	14.75	375	8.0	203	100	45
20	500	17.6	447	9.1	231	140	64
24	600	20.2	513	10.0	254	200	91
30	750	24.8	630	13.9	353	375	170
36	900	29.4	747	16.8	427	700	318
42	1050	35.3	897	18.7	475	1,100	500



Long Radius 45° Elbows

Bell x Bell, Long Radius 1.5D

Nominal Pipe Size		A		X ⁽¹⁾		Nominal Weight	
in	mm	in	mm	in	mm	lbs	kg
18	450	20.9	531	8.0	203	100	45
20	500	24.7	627	9.1	231	135	61
24	600	28.9	734	10.0	254	155	70

30° Elbows

Bell x Bell

Nominal Size		A		X ⁽¹⁾		Nom. Weight	
in	mm	in	mm	in	mm	lbs	kg
30	750	21.9	556	13.9	353	300	136
36	900	25.9	658	16.8	427	600	272
42	1050	30.6	777	18.7	475	950	431

22.5° Elbows

Bell x Bell

Nominal Size		A		X ⁽¹⁾		Nom. Weight	
in	mm	in	mm	in	mm	lbs	kg
30	750	20.5	521	13.9	353	250	113
36	900	24.3	617	16.8	427	525	238
42	1050	31.9	810	18.7	475	800	363

11.25° Elbows

Bell x Bell

Nominal Size		A		X ⁽¹⁾		Nom. Weight	
in	mm	in	mm	in	mm	lbs	kg
30	750	19.1	485	13.9	353	225	102
36	900	22.3	566	16.8	427	450	204
42	1050	28.2	716	18.7	475	675	306

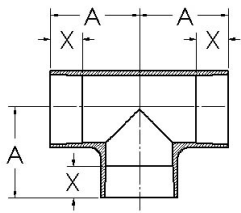
⁽¹⁾This is a nominal make-up dimension for drawing layout work only. Do not use for assembly dimensions.

NOTE: The pressure rating for 30" and 36" diameter fittings is 14.7 bar in accordance to ISO 14692.

The pressure rating for 42" diameter fittings is 12.7 bar in accordance to ISO 14692.

Tees

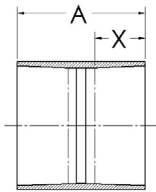
Bell x Bell x Bell



Nom. Size		A		X ⁽¹⁾		Nom. Weight	
in	mm	in	mm	in	mm	lbs	kg
18	450	22.38	568	8.0	203	320	145
20	500	26.25	667	9.1	231	360	163
24	600	28.0	711	10.0	254	450	204
30	750	36.5	927	13.9	353	750	340
36	900	40.5	1,029	16.8	427	1,200	545

Sleeve Couplings

Bell x Bell

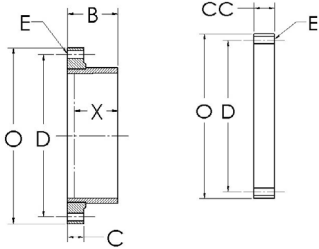


Nom. Size		A		X ⁽¹⁾		Nom. Weight	
in	mm	in	mm	in	mm	lbs	kg
18	450	21.0	533	8.0	203	51	23
20	500	26.0	660	9.1	231	76	35
24	600	29.5	749	10.0	254	122	55
30	750	35.0	889	13.9	353	200	91
36	900	41.0	1,041	16.8	427	320	145
42	1050	46.0	1,168	18.7	475	500	227

Flanges

Filament Wound (FW)
ANSI B16.5
Class 150

Blind Flange
ANSI B16.5
Class 150



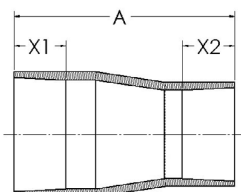
Nom. Size	B	C	CC	D	E Bolt Hole Size Number of Bolts	O	FW Flange X ⁽¹⁾	Bolt Torque	FW Flange Wt.	Blind Flange Wt.
in	in	in	in	in	in	in	in	ft-lbs	lbs	Blind
18	9.0	2.75	2.50	22.75	1.25 - 16	25.0	6.8	200	76	125
20	11.0	2.75	2.75	25.00	1.25 - 20	27.5	7.8	200	92	140
24	13.0	3.00	3.31	29.50	1.38 - 20	32.0	9.5	200	124	155

mm	mm	mm	mm	mm	mm	mm	mm ⁽¹⁾	N-m	kg	kg
450	229	70	64	578	32 - 16	635	173	271	35	57
500	279	70	70	635	32 - 20	699	198	271	42	64
600	330	76	84	749	35 - 20	813	241	271	56	70

⁽¹⁾This is a nominal make-up dimension for drawing layout work only. Do not use for assembly dimensions.

Concentric Reducers

Bell x Bell

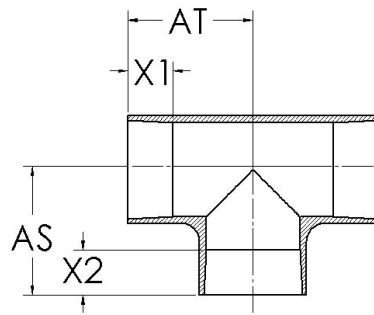


Nom. Size		A		X ₁ ⁽¹⁾		X ₂ ⁽¹⁾		Nom. Weight	
in	mm	in	mm	in	mm	in	mm	lbs	kg
18 x 16	450 x 400	28.75	730	8.0	203	6.8	173	110	50
20 x 18	500 x 450	32.0	813	9.1	231	8.0	203	140	64
24 x 20	600 x 500	46.25	1,175	10.0	254	9.1	231	190	86
30 x 24	750 x 600	50.5	1283	13.9	353	10.0	254	300	136
36 x 30	900 x 750	56.0	1422	16.8	427	13.9	352	450	205
42 x 36	1050 x 900	61.5	1562	18.7	475	16.8	428	750	340

⁽¹⁾This is a nominal make-up dimension for drawing layout work only. Do not use for assembly dimensions.

NOTE: The pressure rating for 30" and 36" diameter fittings is 14.7 bar in accordance to ISO 14692.
The pressure rating for 42" diameter fittings is 12.7 bar in accordance to ISO 14692.

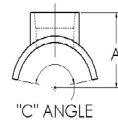
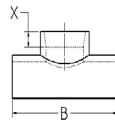
Reducing Tees



Nom. Size	AT	AS	X ₁ ⁽¹⁾	X ₂ ⁽¹⁾	Nom. Wgt.
in	in	in	in	in	lbs
18 x 14	22.38	20.50	8.0	6.4	280
18 x 16	22.38	21.00	8.0	6.6	300
20 x 16	26.25	22.50	9.1	6.6	320
20 x 18	26.25	22.75	9.1	8.0	340
24 x 18	28.0	25.25	10.0	8.0	400
24 x 20	28.0	27.75	10.0	9.1	420

Nom. Size	AT	AS	X ₁ ⁽¹⁾	X ₂ ⁽¹⁾	Nom. Wgt.
mm	mm	mm	mm	mm	kg
450 x 350	568	521	203	163	127
450 x 400	568	533	203	167	136
500 x 400	667	572	231	167	145
500 x 450	667	578	231	203	154
600 x 450	711	641	254	203	182
600 x 500	711	705	254	231	191

Saddles



Nom. Size	A	B	C	X ₁ ⁽¹⁾ W/RT Pipe	X ₁ ⁽¹⁾ W/GT Pipe
in	in	in	Degree	in	in
18 x 2	12.75	13	90	1.6	1.6
18 x 3	13.25	15	90	1.8	1.9
20 x 2	13.75	13	90	1.6	1.6
20 x 3	14.25	15	90	1.8	1.9
24 x 2	16.00	13	70	1.6	1.6
24 x 3	16.25	15	70	1.8	1.9

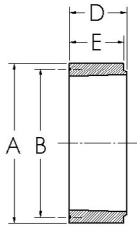
Nom. Size	A	B	C	X ₁ ⁽¹⁾ W/RT Pipe	X ₁ ⁽¹⁾ W/GT Pipe
mm	mm	mm	Degree	mm	mm
450 x 50	324	330	90	41	41
450 x 75	381	337	90	46	48
500 x 50	349	330	90	41	41
500 x 75	362	381	90	46	48
600 x 50	406	330	70	41	41
600 x 75	413	381	70	46	48

⁽¹⁾This is a nominal make-up dimension for drawing layout work only. Do not use for assembly dimensions.

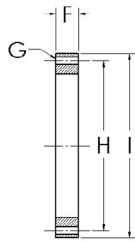
NOTE: The pressure rating for 30" and 36" diameter fittings is 14.7 bar in accordance to ISO 14692.
The pressure rating for 42" diameter fittings is 12.7 bar in accordance to ISO 14692.

Van Stone Flanges

ANSI B16.5
Class 150 (18"-24")
ANSI B16.1
Class 125 (30"-42")



Nom. Size	A	B	X ⁽¹⁾	D	E	F	G	H	I	Max Bolt Torque	Nom. Wt. Hub	Nom. Wt. Bolt Ring
in	in	in	in	in	in	in	in	in	in	ft-lbs	lbs	lbs
18	21.44	19.92	7.5	9.00	8.50	2.25	1.25	22.75	25.00	200	39	98
20	23.69	21.92	8.5	9.88	9.38	2.25	1.25	25.00	27.50	200	53	114
24	28.06	25.90	10.0	11.75	11.25	2.25	1.38	29.50	32.00	200	79	140
30	34.63	N/A	10.0	10.00	9.50	2.25	1.38	36.00	38.75	400	121	192
36	41.05	N/A	13.0	13.00	12.50	2.25	1.63	42.75	46.00	400	208	270
42	47.80	N/A	19.5	19.50	19.00	3.00	1.63	49.50	53.00	400	440	445



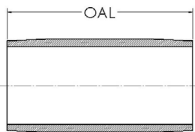
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	N-m	kg	kg
450	545	506	191	229	216	57	32	578	635	271	18	44
500	602	557	216	251	238	57	32	635	699	271	24	52
600	713	658	254	298	286	57	35	749	813	271	36	64
750	880	N/A	254	254	241	57	35	914	984	543	55	87
900	1043	N/A	330	330	318	57	41	1,086	1,168	543	94	122
1050	1214	N/A	495	495	483	76	41	1,257	1,346	543	200	202

⁽¹⁾All 18" - 42" (450-1050 mm) Van Stone Flanges will have to be custom fit to spigot.

Zinc Plated Steel Bolt Ring

Nipples

✓ Available Lengths



Nom. Pipe Size		Overall Length		
in	mm	24" (610 mm)	36" (914 mm)	42" (1067 mm)
18	450	✓	✓	
20	500	✓	✓	
24	600		✓	
30	750		✓	
36	900			✓
42	1050			✓

NOTE: The pressure rating for 30" and 36" diameter fittings is 14.7 bar in accordance to ISO 14692.
The pressure rating for 42" diameter fittings is 12.7 bar in accordance to ISO 14692.

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