

SWAY BRACE LOAD CAPACITY

(Ref. NFPA 13, Sec. Table 9.3.5.8.9 (a))

CAPACITY Dyna-Flow (A-795-E) Pipe (Ref. NFPA 13, Section 9.3.5.8.9 (a))												
Pipe Diameter NPS In.	Maximum Horizontal Loads (Lb.) For Sway Brace with $kl/r = 100$, $F_y = 30$ ksi				Maximum Horizontal Loads (Lb.) For Sway Brace with $kl/r = 200$, $F_y = 30$ ksi				Maximum Horizontal Loads (Lb.) For Sway Brace with $kl/r = 300$, $F_y = 30$ ksi			
	Maximum Length for $kl/r = 100$ Ft-In.	Angle From Vertical 30° - 44°	Angle From Vertical 45° - 59°	Angle From Vertical 60° - 90°	Maximum Length for $kl/r = 100$ Ft-In.	Angle From Vertical 30° - 44°	Angle From Vertical 45° - 59°	Angle From Vertical 60° - 90°	Maximum Length for $kl/r = 100$ Ft-In.	Angle From Vertical 30° - 44°	Angle From Vertical 45° - 59°	Angle From Vertical 60° - 90°
1"	3'-9"	1362	1926	2359	7'-5"	434	614	752	11'-1"	193	273	334
1 ¼"	4'-9"	1736	2454	3006	9'-5"	553	782	958	14'-2"	246	348	426
1 ½"	5'-4"	2771	3919	4800	10'-8"	883	1249	1529	16'-1"	392	555	680
2"	6'-9"	3496	4943	6055	13'-6"	1114	1575	1929	20'-3"	495	700	857

Dyna-Thread (A-135-E) Pipe (Ref. NFPA 13, Section 9.3.5.8.9 (a))												
Pipe Diameter NPS In.	Maximum Horizontal Loads (Lb.) For Sway Brace with $kl/r = 100$, $F_y = 30$ ksi				Maximum Horizontal Loads (Lb.) For Sway Brace with $kl/r = 200$, $F_y = 30$ ksi				Maximum Horizontal Loads (Lb.) For Sway Brace with $kl/r = 300$, $F_y = 30$ ksi			
	Maximum Length for $kl/r = 100$ Ft-In.	Angle From Vertical 30° - 44°	Angle From Vertical 45° - 59°	Angle From Vertical 60° - 90°	Maximum Length for $kl/r = 100$ Ft-In.	Angle From Vertical 30° - 44°	Angle From Vertical 45° - 59°	Angle From Vertical 60° - 90°	Maximum Length for $kl/r = 100$ Ft-In.	Angle From Vertical 30° - 44°	Angle From Vertical 45° - 59°	Angle From Vertical 60° - 90°
1"	3'-6"	2167	3064	3753	7'-0"	690	976	1196	10'-6"	307	434	531
1 ¼"	4'-6"	3036	4294	5259	9'-0"	968	1368	1676	13'-6"	430	608	745
1 ½"	5'-3"	3736	5283	6471	10'-5"	1191	1683	2062	15'-8"	529	748	916
2"	6'-8"	4940	6985	8555	13'-3"	1574	2226	2726	19'-8"	700	989	1212

XL-BLT (A-135-E) Pipe (Ref. NFPA 13, Section 9.3.5.8.9 (a))												
Pipe Diameter NPS In.	Maximum Horizontal Loads (Lb.) For Sway Brace with $kl/r = 100$, $F_y = 30$ ksi				Maximum Horizontal Loads (Lb.) For Sway Brace with $kl/r = 200$, $F_y = 30$ ksi				Maximum Horizontal Loads (Lb.) For Sway Brace with $kl/r = 300$, $F_y = 30$ ksi			
	Maximum Length for $kl/r = 100$ Ft-In.	Angle From Vertical 30° - 44°	Angle From Vertical 45° - 59°	Angle From Vertical 60° - 90°	Maximum Length for $kl/r = 100$ Ft-In.	Angle From Vertical 30° - 44°	Angle From Vertical 45° - 59°	Angle From Vertical 60° - 90°	Maximum Length for $kl/r = 100$ Ft-In.	Angle From Vertical 30° - 44°	Angle From Vertical 45° - 59°	Angle From Vertical 60° - 90°
1"	3'-6"	1882	2661	3260	7'-0"	600	848	1039	10'-8"	267	377	462
1 ¼"	4'-6"	2429	3434	4207	9'-0"	774	1094	1340	13'-9"	344	486	596
1 ½"	5'-3"	2960	4186	5127	10'-6"	943	1334	1634	15'-10"	419	593	726
2"	6'-8"	3954	5591	6849	13'-4"	1260	1782	2182	20'-0"	560	792	970



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