

Lateral Sway Brace Spacing

PER 2010 NFPA 13 SECTION 9.3.5.3.2

Dyna-Flow®					
MAXIMUM LOAD 'F _{pw} ' IN ZONE OF INFLUENCE (Lb) FOR Dyna-Flow Pipe, F _y = 30 ksi					
Lateral Sway Brace Spacing ^(a)					
Pipe Diameter (In)	At 20 ft ^(b)	At 25 ft ^(b)	At 30 ft ^(c)	At 35 ft ^(c)	At 40 ft ^(d)
1"	64	51	42	36	30
1 ¼"	103	83	68	58	49
1 ½"	187	150	123	105	88
2"	298	238	195	167	140
2 ½"	441	353	289	248	208
3"	712	570	467	400	335
4"	1206	965	790	567	567

Dyna-Thread®					
MAXIMUM LOAD 'F _{pw} ' IN ZONE OF INFLUENCE (Lb) FOR Dyna-Thread Pipe, F _y = 30 ksi					
Lateral Sway Brace Spacing ^(a)					
Pipe Diameter (In)	At 20 ft ^(b)	At 25 ft ^(b)	At 30 ft ^(c)	At 35 ft ^(c)	At 40 ft ^(d)
1"	94	75	62	53	44
1 ¼"	171	137	112	96	80
1 ½"	244	195	160	137	115
2"	410	328	269	230	193
2 ½"	–	–	–	–	–
3"	–	–	–	–	–

XL®/BLT®					
MAXIMUM LOAD 'F _{pw} ' IN ZONE OF INFLUENCE (Lb) FOR XL-BLT Pipe, F _y = 30 ksi					
Lateral Sway Brace Spacing ^(a)					
Pipe Diameter (In)	At 20 ft ^(b)	At 25 ft ^(b)	At 30 ft ^(c)	At 35 ft ^(c)	At 40 ft ^(d)
1"	83	67	55	47	39
1 ¼"	140	112	92	79	66
1 ½"	197	157	129	111	93
2"	333	266	218	187	157
2 ½"	661	529	434	372	311
3"	997	798	654	560	469

^s
Notes:

- a The tables for the maximum load F_{pw} in the Zone Of Influence are based on specific configuration of mains, and branch lines.
- b Assumes branch lines at the center of the main pipe span and near each sway support.
- c Assumes branch lines at the third-points of the main pipe span and near each sway support.
- d Assumes branch lines at the quarter-points of the main pipe span and near each sway support.
- e Larger diameter pipe may be used when justified by engineering analysis.
- f ASTM A-795-E and A-135-E has Yield Strength F_y = 30 ksi. Effect on overall stresses in the pipe due to operational stresses is not considered.



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