

## Longitudinal & Lateral Seismic Clamp – Stainless Steel Fig. AF730SS

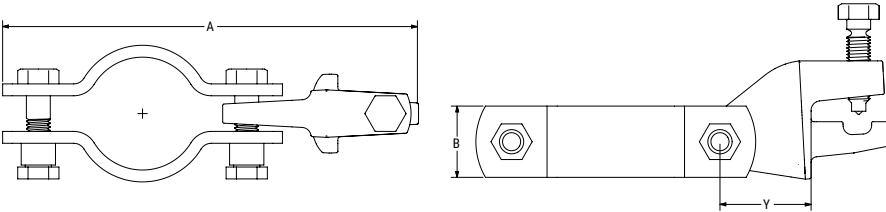


FIG. AF730SS Dimensions and Weight

Size	A		B	Y	Weight	
	In./mm	In./mm			lbs/kgs	lbs/kgs
1"	7.6	193			2.80	1.27
1¼"	8.0	203			2.90	1.32
1½"	8.2	208			2.97	1.35
2"	8.7	221			3.12	1.42
2½"	9.2	234	1.50 38.1	1.91 48.5	3.28	1.49
3"	9.8	249			3.50	1.59
4"	10.8	274			3.83	1.73
6"	13.2	335			4.59	2.08
8"	15.2	386			5.26	2.38

**Notes:**  
ASC Engineered Solutions™ brand bracing components are designed to be compatible ONLY with other ASC Engineered Solutions brand bracing components, resulting in a Listed seismic bracing assembly. Updated UL listing information may be viewed at [www.ul.com](http://www.ul.com) and updated FM approval information may be viewed at [www.approvalguide.com](http://www.approvalguide.com).

### Material Specifications

#### Size Range

Service Pipe Size: 1" – 8"

#### Material

Carbon 316 Stainless Steel Brace Member Attachment Fitting, Clamp, and Hardware.

#### Service

A seismic longitudinal and lateral brace clamp designed to connect a piping system to a brace member. The AF730SS rigidly braces piping systems subjected to horizontal and vertical seismic loads.

#### Approvals

cULus Listed (ANSI/UL 203a) and FM Approved (FM 1950-13). FM Tested (ANSI/FM 1950-16). Complies with NFPA 13, ASCE 7, IBC, & MSS SP-127 bracing requirements.

SEE SIZES AND LOADS BELOW

#### Features

- Torque off set screw and nuts provide a visual indication that the desired installation torque values have been achieved.

#### Ordering

Specify figure number, service pipe size and description.

#### Disclaimer:

ASC Engineered Solutions does not provide any warranties and specifically disclaims any liability whatsoever with respect to ASC bracing products and components that are used in combination with products, parts or systems not manufactured or sold by ASC. In no event shall ASC be liable for any incidental, direct, consequential, special or indirect damages or lost profits where non-ASC bracing components have been, or are used.

**Seis Brace® Seismic Fire Protection Design Tool may be accessed at [www.seisbrace.com](http://www.seisbrace.com).**



PROJECT INFORMATION	APPROVAL STAMP
Project:	Approved
Address:	Approved as noted
Contractor:	Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	

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FIG. AF730SS cULus Listing per ANSI/UL 203a (ASD)

Service Pipe Size	Standard Service Pipe	Horizontal Load Rating at Brace Angle							
		Longitudinal Load Rating				Lateral Load Rating			
		30° - 44°	45° - 59°	60° - 90°	Listed	30° - 44°	45° - 59°	60° - 90°	Listed
lbf/kN	lbf/kN	lbf/kN	lbf/kN	lbf/kN	lbf/kN	lbf/kN	lbf/kN	lbf/kN	
1"	SCH. 10 SCH. 40	N/A	N/A	N/A	N/A	942 4.19	1333 5.93	1632 7.26	1885 8.38
1¼"	SCH. 10 SCH. 40	N/A	N/A	N/A	N/A	942 4.19	1333 5.93	1632 7.26	1885 8.38
1½"	SCH. 10 SCH. 40	N/A	N/A	N/A	N/A	942 4.19	1333 5.93	1632 7.26	1885 8.38
2"	SCH. 10 SCH. 40	340 1.51	480 2.14	588 2.62	680 3.02	942 4.19	1333 5.93	1632 7.26	1885 8.38
2½"	SCH. 10 SCH. 40	340 1.51	480 2.14	588 2.62	680 3.02	942 4.19	1333 5.93	1632 7.26	1885 8.38
3"	SCH. 10 SCH. 40	340 1.51	480 2.14	588 2.62	680 3.02	942 4.19	1333 5.93	1632 7.26	1885 8.38
5"	SCH. 10 SCH. 40	N/A	N/A	N/A	N/A	942 4.19	1333 5.93	1632 7.26	1885 8.38
4"	SCH. 10 SCH. 40	340 1.51	480 2.14	588 2.62	680 3.02	942 4.19	1333 5.93	1632 7.26	1885 8.38
6"	SCH. 10 SCH. 40	545 2.42	770 3.43	943 4.19	1090 4.85	942 4.19	1333 5.93	1632 7.26	1885 8.38
8"	SCH. 10 SCH. 40	685 3.05	969 4.31	1186 5.28	1370 6.09	942 4.19	1333 5.93	1632 7.26	1885 8.38

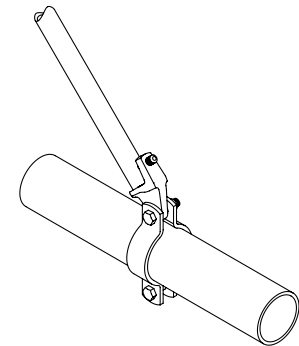
Brace Angles are determined from Vertical.

Sch. 10 & 0.188" Wall Load Ratings may be used for any thicker wall pipe of the same diameter.

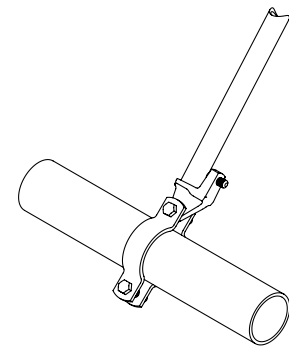
Listed load ratings reduced for angle ranges in accordance with NFPA 13-2019 Table 18.5.2.3.

Load ratings include a minimum safety factor of 2.2 in accordance with NFPA 13-2019 Section A.18.5.2.3.

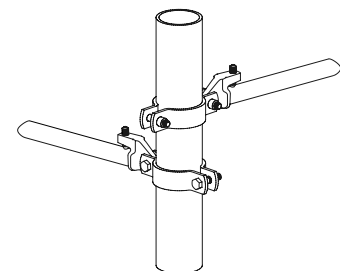
All load ratings may be used for NFPA 13-2016 designs.



Longitudinal Application



Lateral Application



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FIG. AF730SS FM Approved (Listing) per FM 1950-13 (ASD)

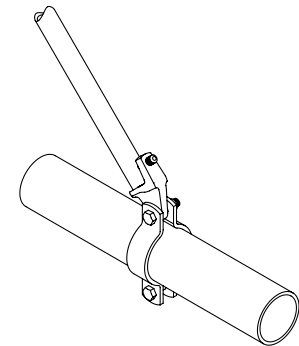
Service Pipe Size	Standard Service Pipe	Horizontal Load Rating at Brace Angle							
		Longitudinal Load Rating				Lateral Load Rating			
		30° - 44°	45° - 59°	60° - 74°	75° - 90°	30° - 44°	45° - 59°	60° - 74°	75° - 90°
lb/f/kN	lb/f/kN	lb/f/kN	lb/f/kN	lb/f/kN	lb/f/kN	lb/f/kN	lb/f/kN	lb/f/kN	
1" (DN25)	Sch. 10 Sch. 40 Metric Pipe	550	640	670	740	1740	2460	3010	3360
		2.24	2.84	2.98	3.29	7.74	10.94	13.39	14.95
1¼" (DN32)	Sch. 10 Sch. 40 Metric Pipe	740	680	820	1620	1430	2020	2480	2770
		3.29	3.02	3.65	7.21	6.36	8.99	11.03	12.32
1½" (DN40)	Sch. 10 Sch. 40 Metric Pipe	800	650	790	1800	1790	2530	3100	3460
		3.56	2.89	3.51	8.01	7.96	11.25	13.79	15.39
2" (DN50)	Sch. 10 Sch. 40 Metric Pipe	830	990	1190	1620	1820	2580	3160	3530
		3.69	4.4	5.29	7.21	8.1	11.48	14.06	15.7
2½"	Sch. 10 Sch. 40	800	700	850	1930	1610	2280	2790	3120
		3.65	3.11	3.78	8.59	7.16	10.14	12.41	13.88
3" (DN80)	Sch. 10 Sch. 40 Metric Pipe	960	1330	1540	1700	1550	2200	2690	3010
		4.27	5.92	6.85	7.56	6.89	9.79	11.97	13.39
4" (DN100)	Sch. 10 Sch. 40 Metric Pipe	760	1040	1270	1400	1260	1790	2190	2440
		3.38	4.63	5.65	6.23	5.6	7.96	9.74	10.85
5"	Sch. 10 Sch. 40	890	1230	1410	1550	1260	1790	2190	2440
		3.96	5.47	6.27	6.89	5.6	7.96	9.74	10.85
6"	Sch. 10 Sch. 40	700	940	1140	1310	950	1340	1640	1830
		3.11	4.18	5.07	5.83	4.23	5.96	7.3	8.14
8"	0.188" Wall Sch. 40	990	1130	1360	1520	1540	2170	2660	2970
		4.4	5.03	6.05	6.76	6.85	9.65	11.82	13.21

Brace Angles are determined from Vertical.

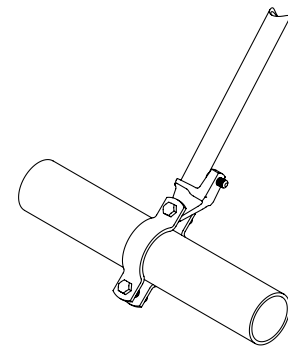
Sch. 10 & 0.188" Wall Load Ratings may be used for any thicker wall pipe of the same diameter.

Load ratings include a minimum safety factor of 1.5 in accordance with NFPA 13-2016 Section A.9.3.5.2.3. To convert the load ratings above to a safety factor of 2.2 per NFPA 13-2019 Section A.18.5.2.3, multiply load ratings by a factor of 0.68.

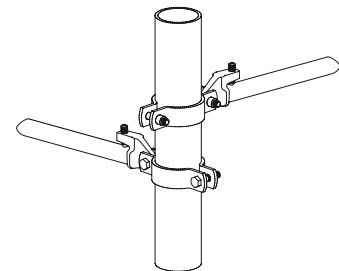
To convert to LRFD Load Ratings, ASD Load Ratings may be multiplied by a factor of 1.5.



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### Method 1 – Connection to Brace Member First

- 1 Slide the brace member over the lower jaw until it contacts the back wall of the brace member attachment fitting.
- 2 Hand tighten the set screw until it contacts the brace member. Continue to torque the set screw until the head breaks off.
- 3 Rotate the brace assembly to the service pipe. Unbolt the back nut & bolt and rotate the clamp halves over the service pipe. Re-assemble the nut and bolt.
- 4 Hand tighten the nuts on both sides of the clamp. Evenly and alternately torque the nut until the head breaks off. It is best practice to tighten the nut at the jaw side first.
- 5 Ensure the brace angle is within the range specified.

### Method 2 – Connection to Service Pipe First

- 1 Unbolt the back nut & bolt and rotate the clamp halves over the service pipe. Re-assemble the nut and bolt.
- 2 Hand tighten the nuts on both sides of the clamp. Evenly and alternately torque the nut until the head breaks off. It is best practice to tighten the nut at the jaw side first.
- 3 Slide the brace member over the lower jaw until it contacts the back wall of the brace member attachment fitting.
- 4 Hand tighten the set screw until it contacts the brace member. Continue to torque the set screw until the head breaks off.

FIG. AF730SS cULus Listed & FM Approved Brace Members

Brace Member	Brace Size	Standard (or Equivalent)	UL	FM
Sch. 40 NPS Stainless Steel Pipe	1", 1½", 1¾", 2"	ASTM A312	✓	✓



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