

Fig. 770

Q Brace Clamp

Size Range: Service Pipe: 1" through 6" Sch. 10 and Sch. 40 IPS UL and FM Approved
 Service Pipe: 1" through 6" Flow Pipe FM Approved
 Brace Pipe: 1" or 1 1/4" Sch. 40 IPS

Material: Carbon steel

Finish: Brace Rod Plain or Galvanized, Channel bracket EG

Service: Used to rigidly brace piping systems subjected to sway and seismic disturbances. Pipe clamp component of Anvil's 700 series sway brace assembly. Primarily a lateral brace clamp and applicable as a riser/four way brace.

Approvals: UL and ULC Listed (UL 203A:2009), and FM Approved (FM 1950:2010). Complies with seismic bracing requirements of NFPA-13. Office of Statewide Health Planning and Development (OSHPD) State of California approved.

Features:

- Used to brace schedules 10 IPS, 40 IPS (UL and FM), and Sch. 7 IPS flow pipe (FM).
- Field adjustable design requires no threading of bracing pipe
- Can be used as a component of a four-way brace support
- Functions as a lateral brace application

Installation Instructions:

1. Minimum brace pipe extension 2" beyond channel bracket or brace clamp rod end. Note: 6" sizes are supplied with retaining plate that assembles between sprinkler system pipe and brace pipe. Not required for FM applications.
2. The brace clamp channel bracket can be installed inside or outside the service pipe at the end of the brace pipe.
3. The Q brace clamp must be a minimum of 6" away from a pipe joint in order to not weaken the pipe joint.
4. Riser/4-way brace - The Q brace clamps must be installed within 6" of each other.
5. Adjust brace angle as necessary.
6. Tighten hex nuts until spring indicating clip is completely flattened and the required torque of 14 Ft-Lbs is achieved. For sizes 2" - 3", 4" x 1", 5" x 1", and 6" continue tightening to a torque of 16 Ft-Lbs.

Ordering: Specify service pipe diameter, brace pipe diameter, figure number, name and finish.

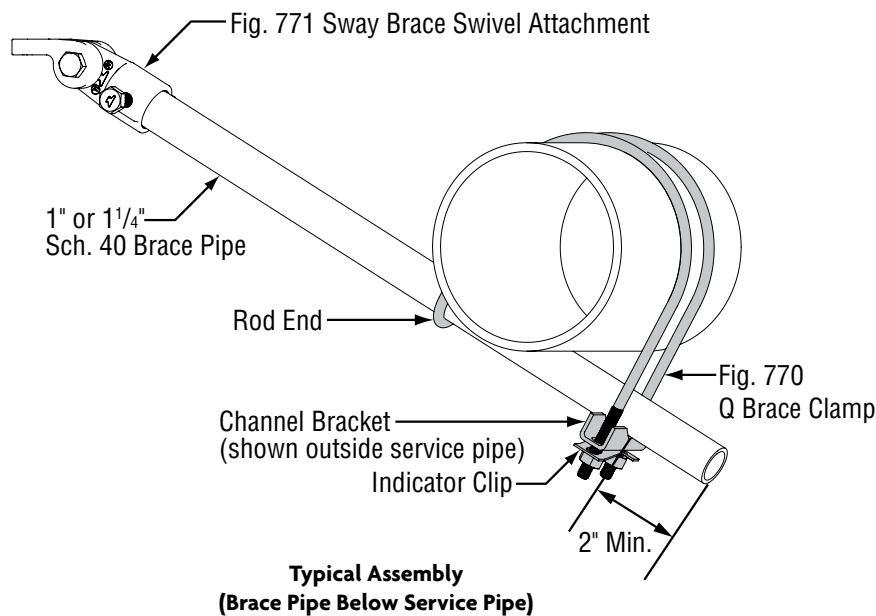


Fig. 770

Q Brace Clamp (cont.)

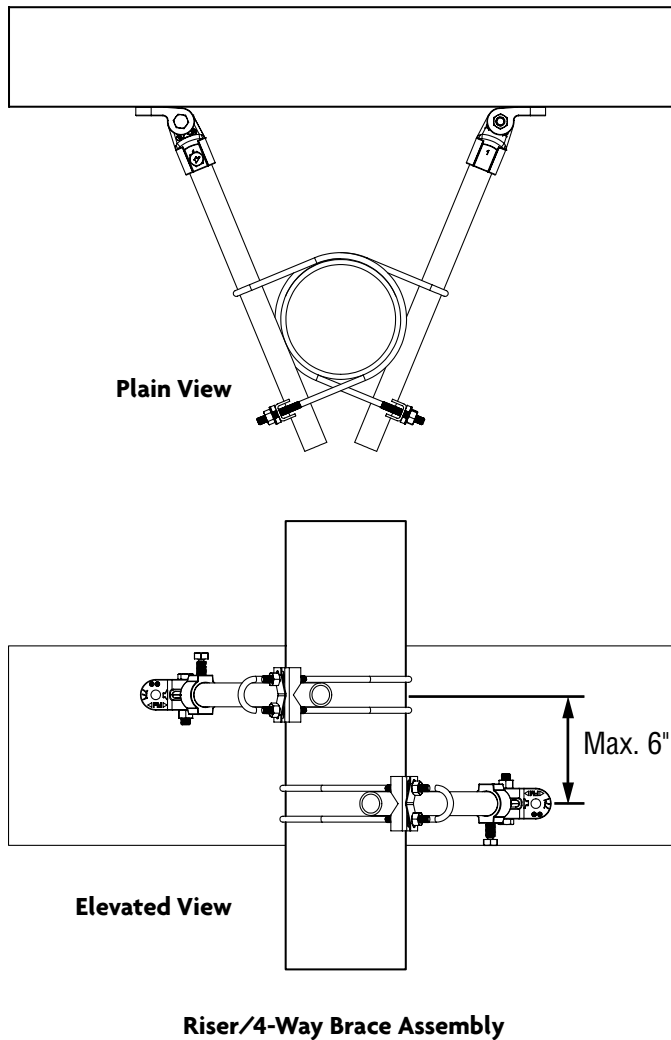


FIG. 770 UL MAX LOAD: LOADS (LBS) • WEIGHT (LBS) • DIMENSIONS (IN)			
Service Pipe Size	UL Max Load	Weight	
	Sch. 10 Sch. 40	1" Brace Pipe	1 1/4" Brace Pipe
1 (A, B)	1000	.82	.87
1 1/4 (B)		.86	.90
1 1/2 (B)		.90	.95
2 (B)		.96	1.00
2 1/2		1.02	1.06
3		1.09	1.13
4		1.23	1.26
5	1600	1.32	Not Listed
6		1.49	1.53

A - Schedule 40 only.

B - UL Listed as a restraint and sway brace.

See page 14 for notes on sway brace-seismic components concerning – installation, performance and warranty.

**FIG. 770 FM MAX LOAD:
LOADS (LBS) • DIMENSIONS (IN) • ANGLES (DEGREES)**

Service Pipe Size (1" or 1 1/4" Brace Pipe)	Brace Angle***	FM Max Load** (Horizontal)	
		Sch. 10 Sch. 40	Flow Pipe
1	30-44	1110	250
	45-59	1500	360
	60-74	1900	440
	75-90	2100	500
1 1/4	30-44	570	250
	45-59	810	360
	60-74	1000	440
	75-90	1100	500
1 1/2	30-44	570	250
	45-59	810	360
	60-74	1000	440
	75-90	1100	500
2	30-44	570	250
	45-59	810	360
	60-74	1000	440
	75-90	1100	500
2 1/2	30-44	570	250
	45-59	810	360
	60-74	1000	440
	75-90	1100	500
3	30-44	570	250
	45-59	810	360
	60-74	1000	440
	75-90	1100	500
4	30-44	760	410
	45-59	1070	590
	60-74	1320	720
	75-90	1470	800
5	30-44	760	410
	45-59	1070	590
	60-74	1320	720
	75-90	1470	800
6	30-44	770	450
	45-59	1090	630
	60-74	1340	780
	75-90	1490	870

* See FM Approval guide for approved flow pipe.

** The allowable FM approved capacity of brace subassemblies have been determined by resolving the load rating to the horizontal direction and dividing by a safety factor of 1.5 to allow the values to be used directly for Allowable Stress Design.

For Load Resistance Factor Design (LRFD) capacities, the above values will need to be multiplied by 1.5.

*** Brace Pipe Angles are determined from vertical.

FIG. 770: TORQUE VALUE (FT-LBS)

Service Pipe Size	Torque Value
1 thru 1 1/2, 4 x 1 1/4, 5 x 1 1/4	14
2 thru 3, 4 x 1, 5 x 1, 6	16