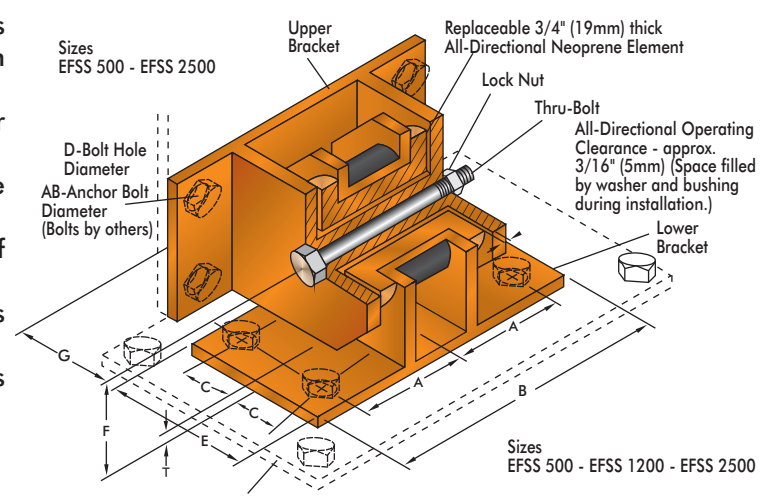
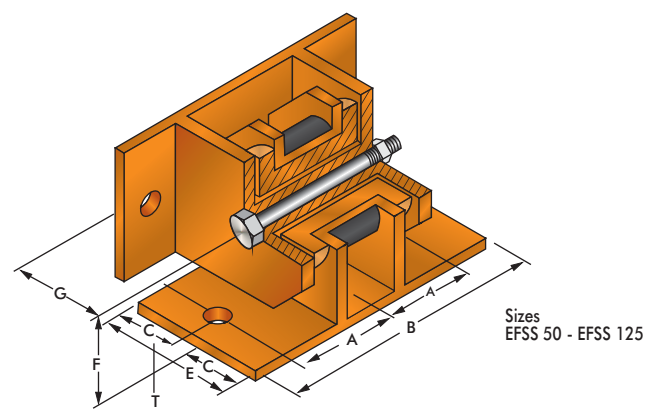


Features

Fabricated of welded steel components incorporating thick neoprene elastomer pads molded to Bridge Bearing quality specifications, the design of these restraints allows for the removal and replacement of the neoprene elements. These restraints are designed for a minimum of 1.0g accelerated force in all directions. Series EFSS is suitable for loads from 250 kg to 11500 kg.

Installation instructions

1. Snubbers are inactive during normal operation and clearance must be maintained.
2. To maintain clearances around isolation bushing, unit is furnished with spacer washers and a spacer bushing, these to remain in unit during installation only.
3. If snubbers are installed on equipment such as blowers or pumps with flexible connections that move and remain in a different position during operation, final positioning and adjustment of snubbers must be made with equipment in operation.
4. Use shims at brackets as required so that units are installed without applying pressure on spacer washers or bushing.
5. After units are installed, remove spacer washers and bushing as follows:
 - a. Remove lock nut from thru-bolt and remove thru-bolt.
 - b. Remove anchor bolts from one bracket. If bracket was shimmed, note shim position.
 - c. Remove bracket and remove spacer washers and spacer bushing.
 - d. Reinstall bracket and thru-bolt. Shim as before if shims were used.
 - e. Lock thru-bolt in place with jam nut.



Note : All Dimensions are in mm unless otherwise specified.

When Steel Sole Plates are used, level and anchor Sole Plates properly to concrete. Snubber Baseplate may be bolted or welded to Sole Plate.

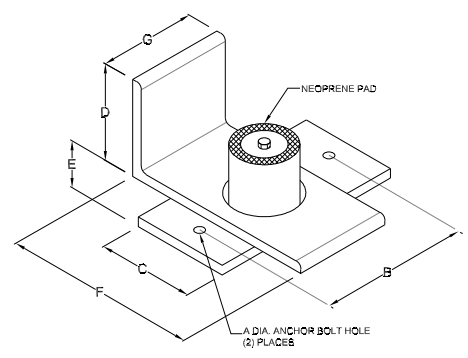
ALL DIRECTIONAL SNUBBER LOAD RATINGS AND DIMENSIONS

Type	Size	1G All Directional Load Ratings.	A	AB	B	C	D	E	F	G	T
	EFSS 50	250 kgs.	79	10	190	32.5	13	75	76	64	6
	EFSS 125	850 kgs.	86	12	210	50	16	100	111	111	10
EFSS	EFSS 500	2500 kgs.	125	16	300	50	19	150	127	127	12
	EFSS 1200	6000 kgs.	150	25	375	70	29	200	146	146	20
	EFSS 2500	11500 kgs.	170	32	420	100	35	250	203	203	25



Alternate 180° Position

- Due to policy of continual improvement, the specifications are subject to change without prior notice.
- Measurements are subject to 5% tolerance.
- To achieve good results do not over load fitting.



Description

Model EFSRS-2 Seismic Snubbers are designed for use in locations subject to earthquakes or other external forces which could displace resiliently supported equipment.

Snubbers, when anchored to the building structure and placed around vibration-isolated equipment, are intended to limit lateral motion by containing the supported equipment.

EFSRS-2 Snubbers are designed to be used in pairs and will keep supported equipment contained when subject to lateral forces from any direction. EFSRS-2 Snubbers are not designed for use with high center-of-gravity supported equipment or where vertical forces must be considered.

Model EFSRS-2 Snubbers are heavy structural steel weldments designed to minimize equipment motion without failing. Resilient neoprene pads on the contact surface reduce shock loads by cushioning the impacts. Large diameter anchor bolt holes allow loads to be safely transferred to the building structure.

Application

Building codes in many areas require building components to be capable of resisting forces created during a seismic event.

Equipment on resilient supports such as spring neoprene or fiber glass vibration isolators can undergo large motions relative to the building during such an event.

By using properly spaced and designed resilient snubbers around the equipment, motion can be limited and equipment can remain in place.

Model EFSRS-2 Snubbers are rugged, heavy duty products which have been designed to resist imposed forces from external sources, yet remain out of contact during normal operation so that vibration will not be transmitted to the building.

Model	Bolts Capacity		Anchors Capacity		Dimensions													
	Lbs	Kg	Lbs	Kg	A		B		C		D		E		F		G	
					In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm
EFSRS10	1624	738	945	430	0.44	11	6.00	150	5.00	125	3.00	75	1.25	32	4.00	100	4.50	114
EFSRS20	2887	1312	1308	595	0.56	14	6.00	150	5.00	125	3.00	75	1.25	32	4.00	100	4.50	114
EFSRS30	4300	1954	1677	762	2.69	18	7.50	190	6.00	150	4.00	100	2.00	50	5.00	125	6.00	150
EFSRS40	6966	3166	3354	1524	1.00	24	10.50	267	6.00	150	4.00	100	2.00	50	5.00	125	8.00	200