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## SCSR Seismic Restrained Spring Isolator

CONCRETE STRUCTURE

# SCSR

3A

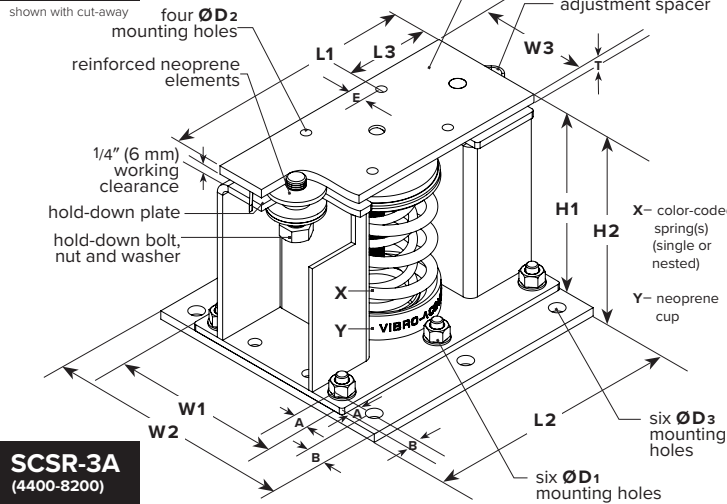
File No.: DS-SCSR3-C-014

Date: 15 Aug 2023

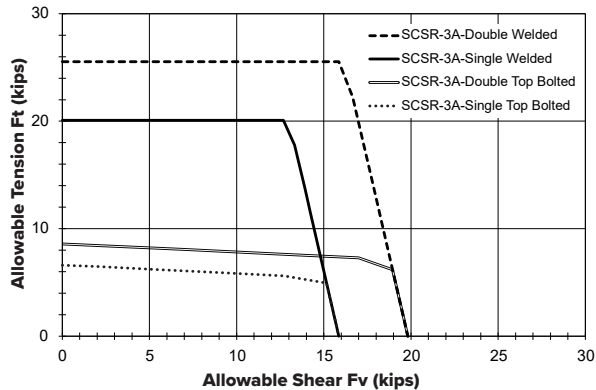
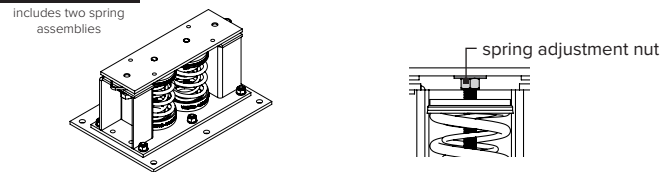
Supersedes: DS-SCSR3-C-013

Date: 3 Aug 2021

### SCSR-3A (100-4100)



### SCSR-3A (4400-8200)



### PERFORMANCE

Model	Spring Color outer-inner	Rated Load		Deflection at rated load		Isolator Weight †	
		lb	kN	in	mm	lb	kg
SCSR-3A-H-100	Black	100	0.44	3.2	81	68.7	31.2
SCSR-3A-H-200	Black-White	200	0.89	3.1	79	71.0	32.3
SCSR-3A-H-300	Grey	300	1.33	3.1	79	69.7	31.7
SCSR-3A-H-400	Grey-White	400	1.78	3.1	79	72.0	32.7
SCSR-3A-H-500	Grey-Yellow	500	2.22	3.0	76	72.1	32.8
SCSR-3A-H-600	Orange	600	2.67	3.3	84	69.1	31.4
SCSR-3A-H-700	Orange-White	700	3.11	3.3	84	71.4	32.5
SCSR-3A-H-800	Green	800	3.56	3.0	76	69.4	31.5
SCSR-3A-H-900	Green-White	900	4.00	3.0	76	72.1	32.8
SCSR-3A-H-1000	Green-Yellow	1000	4.45	3.0	76	72.2	32.8
SCSR-3A-H-1200	Green-Red	1200	5.34	3.0	76	72.6	33.0
SCSR-3A-H-1500	White	1500	6.67	3.0	76	69.8	31.7
SCSR-3A-H-1900	White-Red	1900	8.44	3.0	76	72.7	33.0
SCSR-3A-H-2200	White-Blue	2200	9.97	3.0	76	73.0	33.2
SCSR-3A-H-2500	White-Black	2500	11.12	3.0	76	72.7	33.0
SCSR-3A-H-3000	Red	3000	13.35	3.0	76	73.0	33.2
SCSR-3A-H-3300	Red-Red	3300	14.68	3.0	76	74.6	33.9
SCSR-3A-H-3600	Red-Blue	3600	16.01	3.0	76	75.0	34.1
SCSR-3A-H-4100	Red-Black	4100	18.24	3.0	76	75.7	34.4
SCSR-3A-H-4400	(2)White-Blue	4400	19.57	3.0	76	111.4	50.6
SCSR-3A-H-5000	(2)White-Black	5000	22.24	3.0	76	110.8	50.4
SCSR-3A-H-5600	(2)Red	5600	24.91	3.0	76	109.1	49.6
SCSR-3A-H-6600	(2)Red-Red	6600	29.36	3.0	76	112.3	51.0
SCSR-3A-H-7200	(2)Red-Blue	7200	32.03	3.0	76	114.0	51.8
SCSR-3A-H-8200	(2)Red-Black	8200	36.48	3.0	76	115.0	52.3

† weights are approximate (oversized base plate for 100–4100 is 32 lb., 4400–8200 is 58 lb.)

### DIMENSIONS

Model	L1 in mm	L2 in mm	L3 in mm	W1 in mm	W2 in mm	W3 in mm
100–4100	15 1/4 387	15 1/4 387	5 127	10 5/8 264	14 7/8 378	6 5/8 168
4400–8200	21 1/4 556	24 610	5 127	10 5/8 270	17 432	6 7/8 175

Model	H1 in mm	H2 in mm	A in mm	B in mm	E in mm	$\varnothing D_1$ in mm	$\varnothing D_2$ in mm	$\varnothing D_3$ in mm	T in mm
100–4100	10 3/4 273	11 1/4 286	1 25	1 1/4 32	1 25	1 1/16 17	9/16 14	7/8 22	1/2 13
4400–8200	10 3/4 273	11 1/4 286	1 25	1 1/4 32	1 25	1 1/16 17	1 1/16 17	7/8 22	1/2 13

### NOTES

- The ratings assigned to the SCSR with single spring incorporate an additional safety factor of 1.25 which is considered for the shear and tension capacities.
- "Top bolted" ratings are based on using (4) A307 bolts to secure top plate to equipment or base.
- "Welded" ratings are based on using fillet weld with 1/4" leg size and 3.5" length on both sides of top plate above hold down bolts.
- Laterally and vertically restrained spring type isolators with housing and heavy top plates for equipment support.

- Welded steel construction housings with vertically restraining limit stops.
- Top Plate and restraining bolts are designed to be out of contact with housing during normal operation.
- Reinforcing neoprene elements (snubbers) are incorporated to minimize short-circuiting of restraining bolts. Springs supported with neoprene cups for noise isolation.
- Minimum 50% additional travel to solid. Minimum kx/ky ratio of 0.8.
- Housing is hot-dipped galvanized. All springs are powder-coated. Other components are plated or coated for outdoor applications.

### OVERSIZED BASE PLATE

Project:			Plan view of mount locations: 				1.		6.	
Customer:							2.		7.	
Consultant:							3.		8.	
Dwg No.:							4.		9.	
Rev:			5.		10.		QTY of sets required:			
Drawn by:			EQUIPMENT:							
V-A Project Manager:			DATE:							
TAG:										
COMMENTS:										