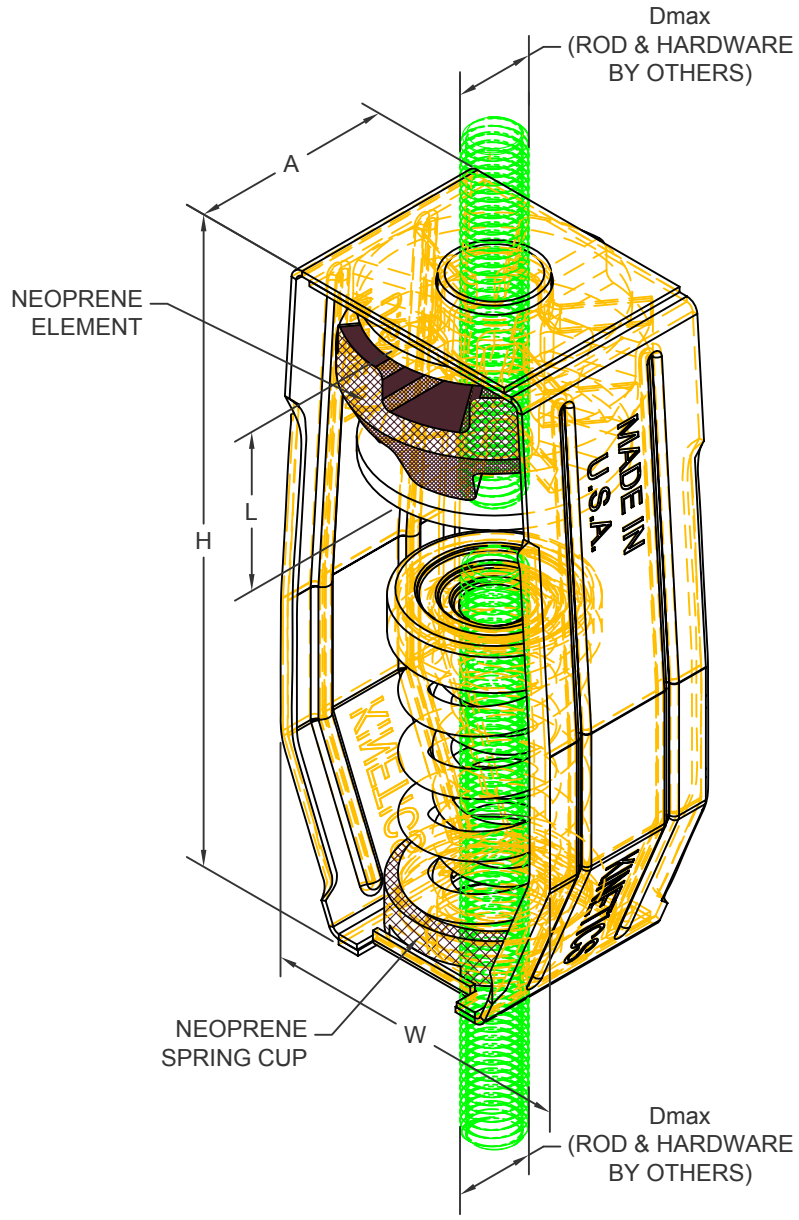
SRH 25 mm DEFLECTION ISOLATION HANGERS

S-I UNITS (mm AND kg)

TYPE	L	H	W	A	DMAX
1-35/370	44	187	94	57	16
1-500/805	48	187	94	57	16

STANDARD RATINGS				SPRING COIL COLOR		FREE HT.	O.D.	INSERT COLOR
TYPE	SIZE	LOAD	DEFL.	OUTER	INNER			
SRH	1-35	16	41	BLUE		81	44	BLACK
SRH	1-70	32	39	GREEN		81	44	BLACK
SRH	1-125	57	40	GRAY		81	44	BLACK
SRH	1-245	111	39	BROWN		81	44	GREEN
SRH	1-370	168	33	ORANGE		81	44	WHITE
SRH	1-500	227	37	BEIGE		81	44	WHITE
SRH	1-600	272	34	CHROME		81	44	PURPLE
*SRH	1-700	318	36	BEIGE	WHITE	81	44	PURPLE
*SRH	1-805	365	32	CHROME	WHITE	81	44	YELLOW



STORM ENGINEERING
VIBRATION ISOLATION • NOISE CONTROL • ENGINEERING

sales@stormengineeringnz.com

https://www.stormengineeringnz.com/

SPECIFICATIONS:

- SPRING ELEMENTS AND BRACKETS ARE POWDER COATED.
- LOAD PLATES ARE BRIGHT ZINC PLATED.
- ISOLATION HANGERS HAVE A TYPICAL OVERLOAD OF 50%.
- ISOLATION HANGERS HAVE A MINIMUM Kx/Ky RATIO OF 1.0.
- SPRING ELEMENTS ARE SAFE AT SOLID LOADING.
- HANGER BRACKETS WILL CARRY AT LEAST (5) TIMES OVERLOAD WITHOUT FAILURE.
- HANGER BRACKETS WILL ALLOW 30° ROD MISALIGNMENT WITHOUT SHORT CIRCUITING, EXCEPT AS NOTED. (*)
- "NO SHORT" STEP CAP.

KINETICS Noise Control

Member VISCMA Vibration Isolation and Seismic Control Manufacturers Association

KINETICS NOISE CONTROL, INC
6300 IRELAN PL,
DUBLIN, OH 43017 USA
Ph: 614 889-0480, Fax: 614 889-0540
www.kineticsnoise.com

Model: SRH-1 35/805

By: JMJ
Date: 02/25/03
Revised: 09/05/14 / BB

Drawing No: S-03.37-11 METRIC

SH 25 mm DEFLECTION ISOLATION HANGERS

S-I UNITS (mm AND kg)

TYPE	H	W	A	D_{MAX}
1-12/370	133	94	57	16
1-500/600	133	94	57	16
1-700/805	133	94	57	16

STANDARD RATINGS				SPRING COIL COLOR		FREE	
TYPE	SIZE	LOAD	DEFL.	OUTER	INNER	HT.	O.D.
SH	1-12	5	25	SILVER		81	44
SH	1-18	8	25	YELLOW		81	44
SH	1-30	14	25	PINK		81	44
SH	1-35	16	39	BLUE		81	44
SH	1-37	17	25	WHITE		81	44
SH	1-70	32	35	GREEN		81	44
SH	1-75	34	26	BLACK		81	44
SH	1-125	57	31	GRAY		81	44
SH	1-150	68	25	RED		81	44
SH	1-245	111	30	BROWN		81	44
SH	1-300	136	25	PURPLE		81	44
SH	1-370	168	24	ORANGE		81	44
SH	1-500	227	25	BEIGE		81	44
SH	1-600	272	26	CHROME		81	44
*SH	1-700	318	25	BEIGE	WHITE	81	44
*SH	1-805	365	26	CHROME	WHITE	81	44

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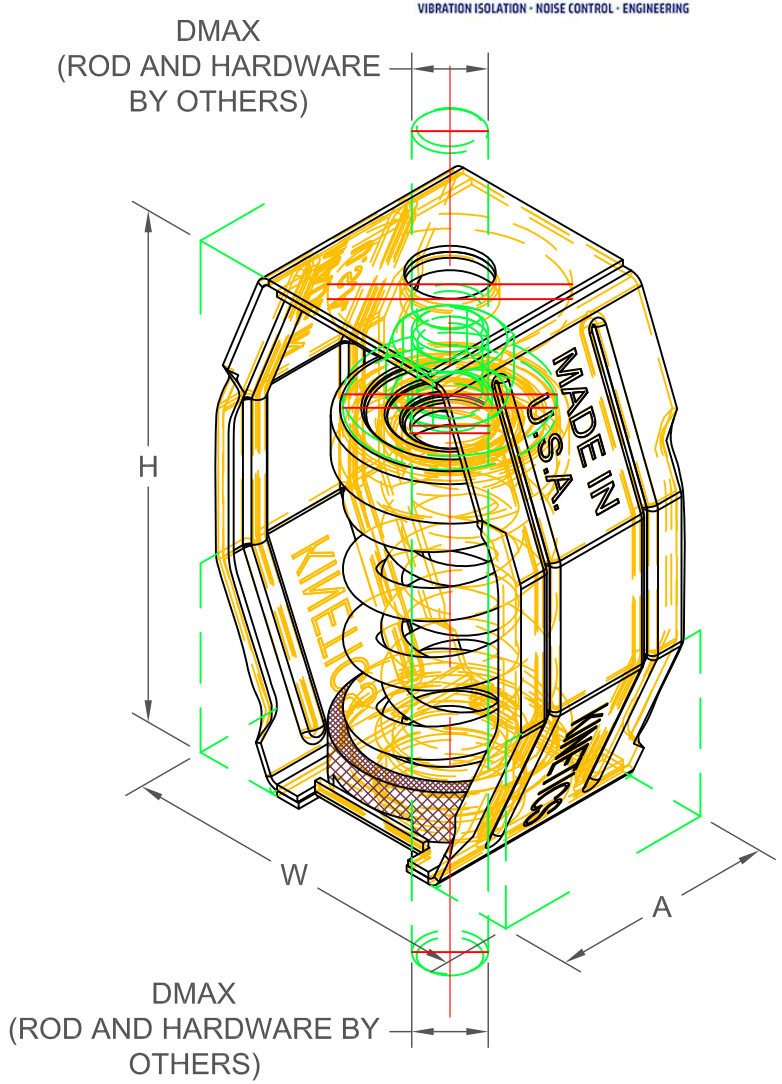

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- "NO SHORT" STEP CAP.

KINETICS Noise Control®

VISCMA VIBRATION ISOLATION & SEISMIC CONTROL MANUFACTURERS ASSOCIATION

KINETICS NOISE CONTROL, INC
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DUBLIN, OH 43017 USA
Ph: 614 889-0480, Fax: 614 889-0540
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Model: SH-1-12/805

By: B. LIVELY
Date: 12/07/05
Revised: 11/07/22 / BB

Drawing No: S-03-36.11 METRIC

INSTALLATION INSTRUCTIONS FOR SRH HANGER

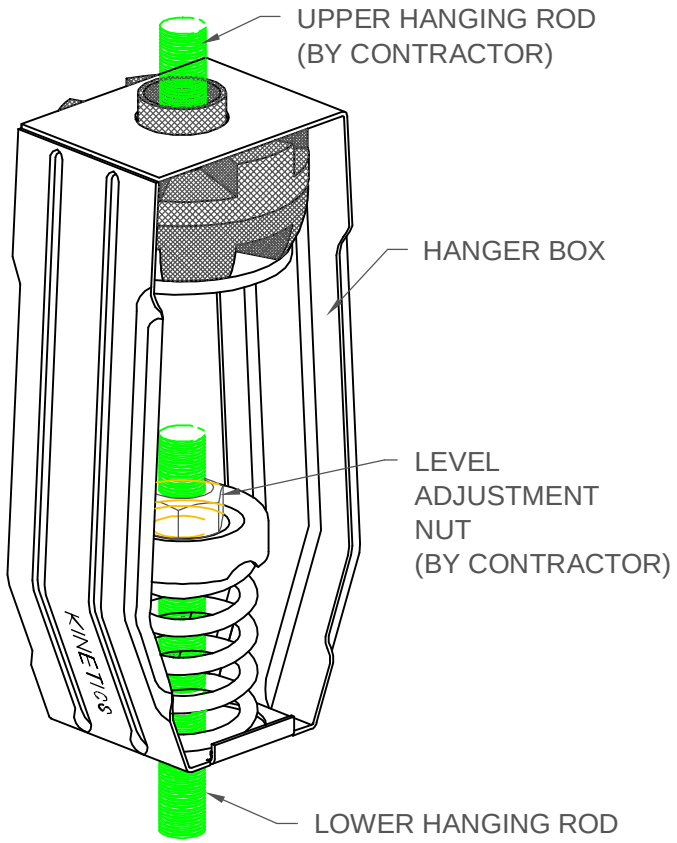
1) LOCATE EACH HANGER INTO POSITION BASED ON SUBMITTAL DRAWING, USING COLOR CODED SPRINGS AS IDENTIFICATION.

2) ATTACH HANGER BOX TO UPPER HANGING ROD AS SHOWN IN SKETCH.

3) ATTACH EQUIPMENT TO LOWER HANGING ROD AS SHOWN IN SKETCH.

4) IF NECESSARY, ADJUST EQUIPMENT LEVEL BY THE LEVEL ADJUSTMENT NUT ON THE TOP OF THE COIL SPRING AS SHOWN IN THE SKETCH.

5) CHECK TO ENSURE ADEQUATE ALIGNMENT BETWEEN THE LARGE HOLE IN THE HANGER BOX (AT THE BASE OF THE SPRING) AND THE LOWER HANGING ROD.



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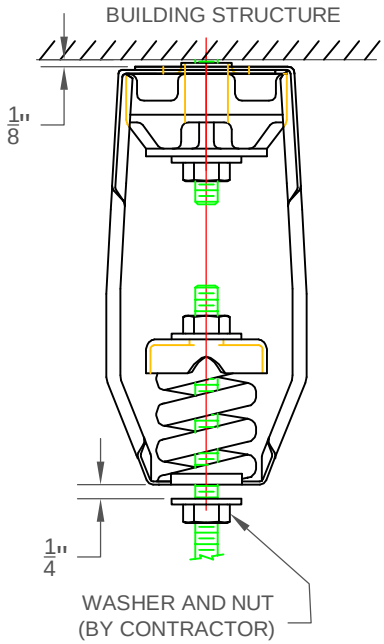
FOR SEISMIC APPLICATIONS



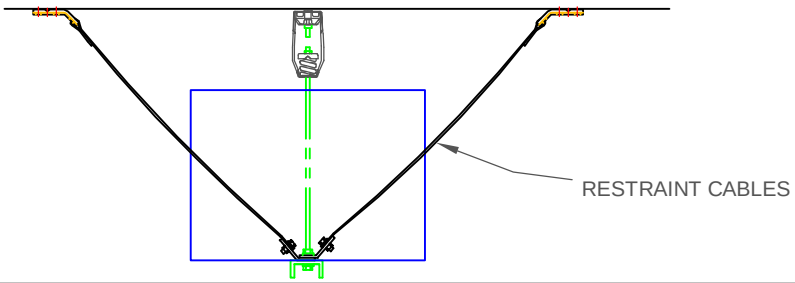
A) HANGER BOX MUST BE ATTACHED WITH APPROX. $\frac{1}{8}$" CLEARANCE BETWEEN HANGER BOX AND BUILDING STRUCTURE.

B) INCLUDE AN ADDITIONAL WASHER AND NUT ON THE LOWER HANGER ROD BELOW THE HANGER BOX.

C) THE WASHER O.D. MUST BE LARGER THAN THE ROD HOLE IN THE BOTTOM OF THE HANGER BOX.

D) WHEN THE SYSTEM IS AT OPERATING WEIGHT, ADJUST THE LOWER NUT UNTIL THE WASHER IS $\frac{1}{4}$" OFF THE BOTTOM OF THE HANGER BOX.

NOTE: FOR SEISMIC APPLICATIONS, RESTRAINT CABLES ARE REQUIRED, AND ARE AVAILABLE SEPARATELY.



KINETICS Noise Control	LAST DATE REVISED	DRAWN BY	DRAWING NO.	INS-03
	02/15/11	DCB	INS-03.37-1A	

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KINETICS®

1" and 2" Deflection Isolation Hangers
Model SRH

- **Polyester Powder Coated Bracket and Spring Coil**
- **Self-Centering Cap Patent No. 5,653,426**

Application

Kinetics Model SRH hangers are used to isolate suspended sources of both noise and vibration. Suspended mechanical equipment such as in-line fans, cabinet fans, and piping and ductwork in close proximity to mechanical equipment are typical uses of Model SRH hangers featuring the patented ***No-Short self-centering cap***.

Kinetics' minimum recommendation for the placement of spring hangers is that they be installed on all piping in the equipment room and on the first 50' (15 m) for piping that extends outside of the equipment room. For typical installations, the three spring hangers closest to the equipment should have equal deflection to the equipment isolators. The remaining spring hangers should have a minimum deflection of 1" (25 mm). In noise sensitive areas, the pipe hangers selected should have the same deflection as that specified for the equipment isolation and all piping in the building should be isolated.

High sound transmission loss ceiling systems can be isolated by the use of SRH hangers in the ceiling suspension system.

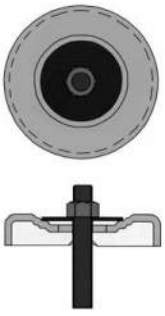
Standard SRH hangers are shipped fully assembled and ready for installation in threaded metal rod suspension systems.

Model SRH hangers are available in a wide range of load and static deflection selections and can be provided with labor-saving accessories for adaption to wire or strap suspension systems, and spring may be preloaded for ease in erecting piping at a fixed elevation.

Description

Kinetics SRH vibration isolation hangers consist of free-standing, large diameter, laterally stable steel springs in series with an elastomer-inshear insert, assembled into a stamped or welded hanger bracket. To assure stability, the spring element has a minimum lateral spring stiffness of 1.0 times the rated vertical stiffness. Hangers with properly deflected coils will allow a support rod misalignment through a 30° arc without short circuiting. Isolation brackets will carry a 500% overload without failure. Hangers are available in deflections from 1.20" to 2.40" (30 to 61 mm), and in capacities from 35 to 3500 lbs. (16 to 1588 kg). Model SRH hangers are superior to hangers which incorporate only springs, which can transmit noise through the all metal construction, and hangers which incorporate only pads, which can transmit low frequency vibration. Kinetics Model SRH hangers are recommended for the isolation of vibration produced by suspended mechanical equipment, low-speed suspended fans, transformers, ductwork, piping, etc.

How the self centering no short cap works:



Indexed steps in spring cap correspond to standard washer diameters for the appropriate rod diameter. The washer and rod stay centered in the cap.

Specifications

Vibration isolators for suspended equipment with minimum static deflection requirement exceeding 0.4" (10 mm), and where both high and low frequency vibrations are to be isolated, shall be hangers consisting of a laterally stable spring in series with an elastomer-in-shear insert complete with load transfer plates and assembled in a stamped or welded steel bracket.

The bracket shall be finished with an polyester-based powder coating. The manufacturer shall provide independent laboratory testing showing that the bracket with this finish has endured a minimum of 1,000 hours of exposure to salt spray fog testing per ASTM B117 without signs of corrosion.

The elastomer insert shall be molded from oil-resistant compounds and shall be color coded to indicate load capacity and selected to operate within its published load range.

The spring element shall have a minimum lateral stiffness of 1.0 times the rated vertical stiffness.

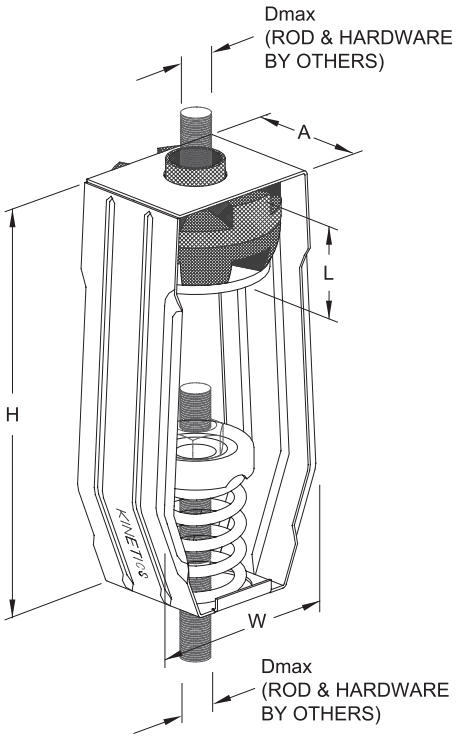
Springs shall be color coded or otherwise identified to indicate load capacity.

The hanger bracket shall be designed to carry a 500% overload without failure and to allow a support rod misalignment through a 30° arc without metal-to-metal contact or other short circuit.

The hanger bracket shall incorporate spring caps with indexed steps which correspond to the washer diameter of the appropriately sized hanger rod to keep the rod centered in the spring cap and reduce rod misalignment.

Isolation hangers shall be selected by the manufacturer for each specific application to comply with deflection requirements as shown on the Vibration Isolation Schedule or as indicated on the project documents.

The combination isolation hanger assembly with neoprene insert shall be Model SRH, as manufactured by Kinetics Noise Control, Inc.



Hanger Type	Spring Color	Standard Ratings						Dimensiosn									
		Spring O.D.		Load		Deflection		L		H		W		A		Dmax	
		in	mm	lbs	kg	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
SRH-1-35	Blue	1.75	44	35	16	1.61	41	1.72	44	7.38	187	3.69	94	2.25	57	0.63	16
SRH-1-70	Green	1.75	44	70	32	1.55	39	1.72	44	7.38	187	3.69	94	2.25	57	0.63	16
SRH-1-125	Gray	1.75	44	125	57	1.56	40	1.72	44	7.38	187	3.69	94	2.25	57	0.63	16
SRH-1-245	Brown	1.75	44	245	111	1.52	39	1.72	44	7.38	187	3.69	94	2.25	57	0.63	16
SRH-1-370	Orange	1.75	44	370	168	1.29	33	1.72	44	7.38	187	3.69	94	2.25	57	0.63	16
SRH-1-500	Beige	1.75	44	500	227	1.45	37	1.89	48	7.38	187	3.69	94	2.25	57	0.63	16
SRH-1-600	Chrome	1.75	44	600	272	1.35	34	1.89	48	7.38	187	3.69	94	2.25	57	0.63	16
SRH-1-700	Beige/Wht	1.75	44	700	318	1.40	36	1.89	48	7.38	187	3.69	94	2.25	57	0.63	16
SRH-1-805	Chrm/Wht	1.75	44	805	365	1.25	32	1.89	48	7.38	187	3.69	94	2.25	57	0.63	16
SRH-1-50	Beige	3.00	76	50	23	1.13	29	2.00	51	8.59	218	5.58	142	3.63	92	0.88	22
SRH-1-100	Chrome	3.00	76	100	45	1.19	30	2.00	51	8.59	218	5.58	142	3.63	92	0.88	22
SRH-1-250	Blue	3.00	76	250	113	2.12	54	2.00	51	8.59	218	5.58	142	3.63	92	0.88	22
SRH-1-450	Green	3.00	76	450	204	1.94	49	2.00	51	8.59	218	5.58	142	3.63	92	0.88	22
SRH-1-625	Black	3.00	76	625	283	1.80	46	2.00	51	8.59	218	5.58	142	3.63	92	0.88	22
SRH-1-800	Gray	3.00	76	800	363	1.55	37	2.00	51	8.59	218	5.58	142	3.63	92	0.88	22
SRH-1-1000	Red	3.00	76	1000	454	1.45	37	2.00	51	8.59	218	5.58	142	3.63	92	0.88	22
SRH-1-1250	Brown	3.00	76	1250	567	1.38	35	2.00	51	8.59	218	5.58	142	3.63	92	0.88	22
SRH-1-1700	Orange	3.00	76	1700	771	1.35	34	2.00	51	8.59	218	5.58	142	3.63	92	0.88	22
SRH-1-2200	Org/Gray	3.00	76	2200	998	1.52	39	1.85	47	9.50	241	5.00	127	4.75	121	0.88	22
SRH-1-2465	Blue	3.00	76	2465	1118	1.58	40	1.85	47	9.50	241	5.00	127	4.75	121	0.88	22
SRH-1-2865	Blue/Gry	3.00	76	2865	1300	1.67	43	1.85	47	9.50	241	5.00	127	4.75	121	0.88	22
SRH-1-3500	Blue/Brn	3.00	76	3500	1588	1.82	46	1.85	47	9.50	241	5.00	127	4.75	121	0.88	22
SRH-2-35	Blue	1.75	44	35	16	2.09	53	1.72	44	7.38	187	3.69	94	2.25	57	0.50	13
SRH-2-70	Green	1.75	44	70	32	2.19	56	1.72	44	7.38	187	3.69	94	2.25	57	0.50	13
SRH-2-120	Gray	1.75	44	120	54	2.32	59	1.72	44	7.38	187	3.69	94	2.25	57	0.50	13
SRH-2-220	Brown	1.75	44	220	100	2.29	58	1.72	44	7.38	187	3.69	94	2.25	57	0.50	13
SRH-2-260	Blue	3.00	76	260	118	2.21	56	1.75	44	8.59	218	5.58	142	3.63	92	0.88	22
SRH-2-465	Green	3.00	76	465	211	2.01	51	1.75	44	8.59	218	5.58	142	3.63	92	0.88	22
SRH-2-720	Black	3.00	76	720	327	2.08	53	1.75	44	8.59	218	5.58	142	3.63	92	0.88	22
SRH-2-850	White	3.00	76	850	386	1.97	50	1.75	44	8.59	218	5.58	142	3.63	92	0.88	22
SRH-2-1025	Beige	3.00	76	1025	465	1.99	51	1.75	44	8.59	218	5.58	142	3.63	92	0.88	22
SRH-2-1200	Chrome	3.00	76	1200	544	2.00	51	1.75	44	8.59	218	5.58	142	3.63	92	0.88	22
SRH-2-2000	Orange	5.00	127	2000	909	2.08	53	1.75	44	12.00	305	6.00	152	6.00	152	1.00	25
SRH-2-2500	Blue	5.00	127	2500	1136	2.10	53	1.75	44	12.00	305	6.00	152	6.00	152	1.00	25
SRH-2-2750	Blu/Blu	5.00	127	2750	1250	2.12	54	1.75	44	12.00	305	6.00	152	6.00	152	1.00	25
SRH-2-3025	Blu/Grn	5.00	127	3025	1375	2.14	54	1.75	44	12.00	305	6.00	152	6.00	152	1.00	25
SRH-2-3250	Blu/Blk	5.00	127	3250	1477	2.14	54	1.75	44	12.00	305	6.00	152	6.00	152	1.00	25