

# Spring Hangers

**1-inch Deflection Type**

**Mini Compact**

• SH-MA, SHDD-MA

**Precompressed**

• PCSH, PCSHDD

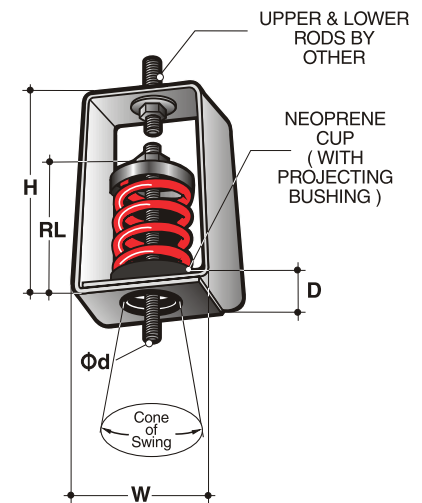
## Introducing.....

**SH-MA** is created for its compact size yet rugged in design particularly suitable for light & small HVAC equipment as various kinds of fans, VAV units, silencers, plenum boxes, duct-works and small diameter pipelines. Not only does the appearance and size match that of the small HVAC equipment SH-MA is also more than

meeting the lateral stability requirement of spring outside diameter / operating height ratio of 0.80 and a minimum reserve load capacity of 50% of the rated load. Another feature added to SH-MA is its wider than 30 degrees "cone-of-swing" capability to allow for rod misalignment.

Model / (Size)	Rated Load (lbs.)	Rated Defl. (ins.)	Color Code	Spring Rated (lbs. / ins.)	Dimension (mm)					"Cone-of-Swing Degree"
					H	W	D	RL*	Φd	
SH-MA2	2	1.10	white	1.82	90	60	40	76	Φ10	40°
SH-MA3	3	1.08	gold	2.78						39°
SH-MA5	5	1.04	pink	4.81						38°
SH-MA8	8	1.02	red	7.84						37°
SH-MA10	10	1.00	green	10.00						
SH-MA12	12	1.00	dark green	12.00						
SH-MA15	15	1.00	tan	15.00	90	60	40	80	Φ10	35°
SH-MA18	18	1.00	brown	18.00						
SH-MA20	20	1.00	yellow	20.00						
SH-MA26	26	1.00	grey	26.00						86
SH-MA30	30	1.00	black	30.00						
SH-MA40	40	1.00	red	40.00						
SH-MA50	50	1.00	orange	50.00	90	60	40	86	Φ10	35°
SH-MA60	60	1.00	blue	60.00						

\*RL : Rod length of lower rod. \*Φd : Recommended rod dia. maximum (diameter) one size higher possible.



**SHDD-MA** is a combination of Tomahawk's SH-MA series spring hanger and Duo-Deflection neoprene element. The Duo-Deflection neoprene element is 0.25 inch average rated and helps isolate most of simple noise and vibration

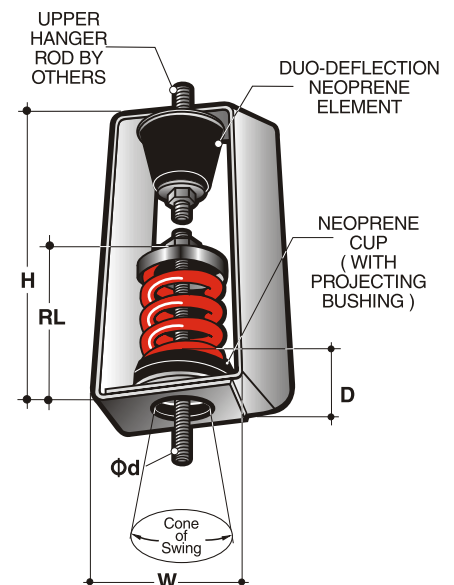
above 900 RPM (15Hz) range while the spring is isolating main range of disturbing frequencies of vibration. SHDD is recommended to be used in more critical applications where quieter operation of equipment is required.

Model / (Size)	Rated Load (lbs.)	Total Rated Defl. <sup>*1</sup> (ins.)	Color Code	Spring Rate <sup>*2</sup> (lbs. / ins.)	Dimension (mm)					"Cone-of-Swing Degree"
					H	W	D	RL*	Φd	
SHDD-MA2	2	1.35	white	1.82	135	60	60	75	Φ10	40°
SHDD-MA3	3	1.33	gold	2.78						39°
SHDD-MA5	5	1.29	pink	4.81						38°
SHDD-MA8	8	1.27	red	7.84						37°
SHDD-MA10	10	1.25	green	10.00						
SHDD-MA12	12	1.25	dark green	12.00						
SHDD-MA15	15	1.25	tan	15.00	135	60	60	75	Φ10	35°
SHDD-MA18	18	1.25	brown	18.00						
SHDD-MA20	20	1.25	yellow	20.00						
SHDD-MA26	26	1.25	grey	26.00						86
SHDD-MA30	30	1.25	black	30.00						
SHDD-MA40	40	1.25	red	40.00						
SHDD-MA50	50	1.25	orange	50.00	90	60	40	86	Φ10	35°
SHDD-MA60	60	1.25	blue	60.00						

\*RL : Rod length of lower rod. \*Φd : Recommended rod diameter.

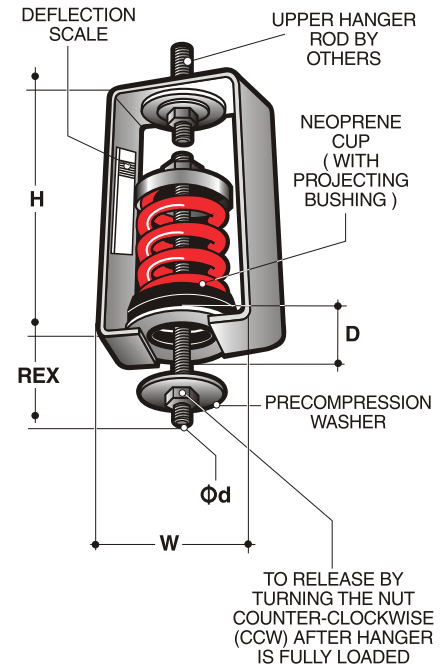
\*Notes : \*1. Total rated deflection includes deflection of DUO-DEFLECTION hanger element.

\*2. Spring rate is rated load divided by rated deflection of SPRING only.

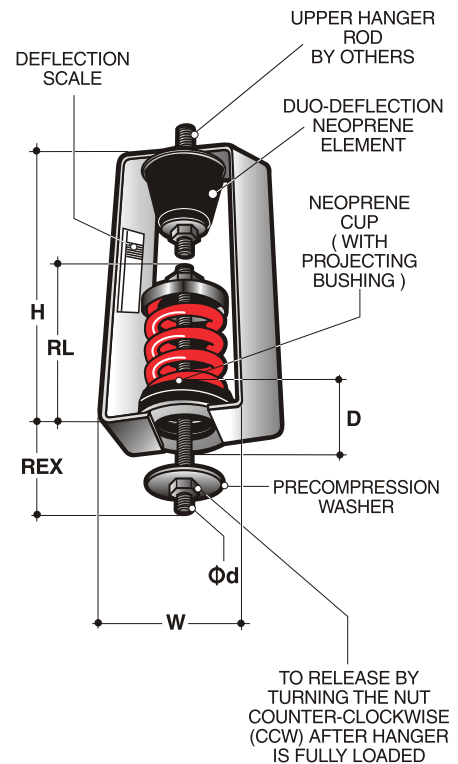


## Precompressed Spring Hangers

Model / (Size)	Rated Load (lbs.)	Rated Defl. (ins.)	Color Code	Spring Rated (lbs./ins.)	Dimension (mm)				
					H	W	D	RL*	Φd
PCSH-A50e	50	1.45	white	34.48	150	90	76	110	Φ12
PCSH-A75e	75	1.38	yellow	54.35					
PCSH-A100e	100	1.32	white	75.76					
PCSH-A125e	125	1.25	grey	100.00					
PCSH-A160e	160	1.18	tan	135.59					
PCSH-A190e	190	1.12	dark green	169.64					
PCSH-A210e	210	1.10	red	190.91					
PCSH-A270e	270	1.08	dark blue	250.00					
PCSH-A300e	300	1.06	brown	283.02	150	90	76	125	Φ16
PCSH-A325e	325	1.04	grey	312.50					
PCSH-A350e	350	1.00	blue	350.00					
PCSH-A425e	425	1.00	orange	425.00					
PCSH-A450e	450	1.00	green	450.00					
PCSH-B550	550	1.20	orange	458.33	180	100	90	135	Φ16
PCSH-B630	630	1.12	grey	562.50					
PCSH-B815	815	1.05	black	776.15					
PCSH-B910	910	1.00	yellow	910.00					
PCSH-C650	650	1.38	yellow	471.01	210	115	110	150	Φ20
PCSH-C750	750	1.28	orange	585.94					
PCSH-C900i	900	1.28	orange + tan	703.13					
PCSH-C1040	1040	1.10	white	945.45					
PCSH-C1260i	1260	1.10	white + green	1145.45	210	115	110	160	Φ20
PCSH-C1470	1470	1.00	black	1470.00					
PCSH-C1720i	1720	1.00	black + red	1720.00					
PCSH-C1880i	1880	1.00	black + orange	1880.00					
PCSH-C2080i	2080	1.00	black + blue	2080.00					
PCSH-C2330i	2330	1.00	yellow + orange	2330.00					
PCSH-C2510i	2510	1.00	yellow + blue	2510.00					



Model / (Size)	Rated Load (lbs.)	Rated Defl. <sup>*1</sup> (ins.)	Color Code	Spring Rated <sup>*2</sup> (lbs./ins.)	Dimension (mm)				
					H	W	D	RL*	Φd
PCSHDD-A50e	50	1.75	white	34.48	190	90	76	110	Φ12
PCSHDD-A75e	75	1.68	yellow	54.35					
PCSHDD-A100e	100	1.62	white	75.76					
PCSHDD-A125e	125	1.55	grey	100.00					
PCSHDD-A160e	160	1.48	tan	135.59					
PCSHDD-A190e	190	1.42	dark green	169.64					
PCSHDD-A210e	210	1.40	red	190.91					
PCSHDD-A270e	270	1.38	dark blue	250.00					
PCSHDD-A300e	300	1.36	brown	283.02	240	100	90	135	Φ16
PCSHDD-A325e	325	1.34	grey	312.50					
PCSHDD-A350e	350	1.30	blue	350.00					
PCSHDD-A425e	425	1.30	orange	425.00					
PCSHDD-A450e	450	1.30	green	450.00					
PCSHDD-B550	550	1.50	orange	458.33	260	115	110	150	Φ20
PCSHDD-B630	630	1.42	grey	562.50					
PCSHDD-B815	815	1.35	black	776.19					
PCSHDD-B910	910	1.30	yellow	910.00					
PCSHDD-C650	650	1.68	yellow	471.01	260	115	110	160	Φ20
PCSHDD-C750	750	1.58	orange	585.94					
PCSHDD-C900i	900	1.58	orange + tan	703.13					
PCSHDD-C1040	1040	1.40	white	945.45					
PCSHDD-C1260i	1260	1.40	white + green	1145.45					
PCSHDD-C1470	1470	1.30	black	1470.00					
PCSHDD-C1720i	1720	1.30	black + red	1720.00					
PCSHDD-C1880i	1880	1.30	black + orange	1880.00					
PCSHDD-C2080i	2080	1.30	black + blue	2080.00					
PCSHDD-C2330i	2330	1.30	yellow + orange	2330.00					
PCSHDD-C2510i	2510	1.30	yellow + blue	2510.00					



\*Notes : \*1. Total rated deflection includes deflection of DUO-DEFLECTION hanger element.

\*2. Spring rate is rated load divided by rated deflection of SPRING only.