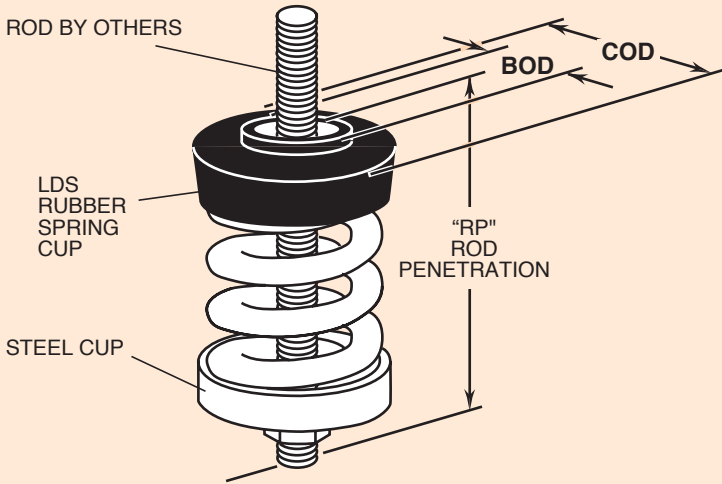
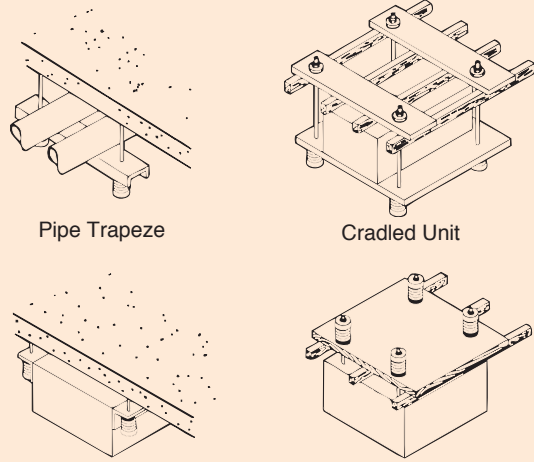


IM 1"(25mm) DEFLECTION SIMPLE SPRING HANGERS



TYPICAL IM EQUIPMENT INSTALLATION AND PIPE HANGER ARRANGEMENTS



Unit with Large Angle Clips Unit Suspended From Above

Ratings & Dimensions for 1"(25mm) Deflection Simple Spring Hangers (inches mm)

Type	Size	Rated Capacity (lbs) (kg)	Rated Def. (in) (mm)	Spring Constant (lbs/in) (kg/mm)	Spring Color	Spring Only		Bushing Outside Dia. BOD	Cup Outside Dia. COD	Max. Rod Dia. MRD	Rod Penetration RP
						OD	Free Height				
1" 25mm Defl. IM-	X-12	12 5	1.25 32	10 0.18	Orange	1 1/2 38	2 1/2 64	1 1/8 29	2 51	3/8 10	2 3/4 69
	X-23	23 10	1.30 33	18 0.30	Brown						
	X-33	33 15	1.10 28	30 0.54	Red						
	X-54	54 24	1.20 30	45 0.80	White						
	X-76	76 34	1.02 25	73 1.36	Black						
	X-113	113 51	1.00 25	113 2.04	Yellow						
	X-130	130 59	1.00 25	130 2.36	Purple						
	X-175	175 79	1.00 25	175 3.16	Silver						
	X-210	210 95	1.00 25	210 3.80	Blue						
	A-12	12 5	1.00 25	12 0.20	Red	1 3/4 44	1 7/8 48	1 1/4 32	2 1/2 64	3/8 10	2 1/4 57
	A-18	18 8	1.00 25	18 0.32	Gray						
	A-25	25 11	1.00 25	25 0.44	Orange						
	A-45	45 20	1.60 41	28 0.49	Blue	1 3/4 44	3 76	1 1/4 32	2 1/2 64	1/2 13	3 3/8 86
	A-75	75 34	1.50 38	50 0.89	Orange						
	A-125	125 57	1.33 34	94 1.68	Brown						
	A-200	200 91	1.15 29	174 3.14	Black						
	A-310	310 141	1.00 25	310 5.64	Yellow						
	A-400	400 181	1.00 25	400 7.24	Green						
	A-510	510 231	1.00 25	510 9.24	Red	1 3/4 44	3 1/8 79	1 1/4 32	2 1/2 64	1/2 13	3 1/2 89
	A-625	625 283	1.00 25	625 11.3	White	1 3/4 44	3 3/8 86	1 1/4 32	2 1/2 64	1/2 13	3 3/4 95
	B-65	65 29	2.10 53	31 0.55	Brown	2 3/8 60	4 102	1 7/8 48	3 1/8 79	3/4 19	5 127
B-85	85 39	2.10 53	40 0.74	White/Blk							
B-115	115 52	2.00 51	57 1.02	Silver							
B-150	150 68	2.00 51	75 1.33	Orange							
B-280	280 127	1.60 41	174 3.10	Green							
B-450	450 204	1.31 33	344 6.18	Red							
B-750	750 340	1.12 28	670 12.1	White							
B-1000	1000 454	1.00 25	1000 18.2	Blue							
B-1250	1250 567	1.00 25	1250 22.7	Gray							
B-1650	1650 748	1.00 25	1650 29.9	Black							
C-1000	1000 454	1.00 25	1000 18.2	Black	2 7/8 73	4 1/8 105	2 3/8 60	3 5/8 92	3/4 19	5 127	
C-1350	1350 612	1.00 25	1350 24.5	Yellow							
C-1750	1750 794	1.00 25	1750 31.8	Black*							
C-2100	2100 953	1.00 25	2100 38.1	Yellow*							
C-2385	2385 1082	1.00 25	2385 43.3	Yellow**							
C-2650	2650 1202	1.00 25	2650 48.1	Red*							
C-2935	2935 1331	1.00 25	2935 53.2	Red**							

All springs have additional travel to solid equal to 50% of Rated Deflection.

*with Red inner spring **with Green inner spring

IM 2" (51mm) DEFLECTION B, B2, C2 & MULTIPLE C2 SIMPLE SPRING HANGERS

Ratings & Dimensions for 2" (51mm) Deflection Simple Spring Hangers (inches mm)

Type	Size	Rated Capacity		Rated Defl.		Spring Constant		Spring Color/Stripe	Spring Only		Bushing Outside Dia. BOD	Cup Outside Dia. COD	Max. Rod Dia MRD	Rod Penetration RP
		(lbs)	(kg)	(in)	(mm)	(lbs/in)	(kg/mm)		Spring OD	Free Height				
2" 51mm Defl.	B-20	20	9	2.40	61	8	0.15	Tan						
	B-26	26	12	2.18	55	12	0.22	White/Blue						
	B-35	35	16	2.20	56	16	0.29	Purple						
	B-50	50	23	2.20	56	24	0.41	White/Red	23/8	4	17/8	31/8	3/4	47/8
	B-65	65	29	2.10	53	31	0.55	Brown	60	102	48	79	19	124
	B-85	85	39	2.10	53	40	0.74	White/Black						
IM-	B-115	115	52	2.00	51	57	1.02	Silver						
	B-150	150	68	2.00	51	75	1.33	Orange						
	B2-210	210	95	2.12	54	99	1.76	Silver						
	B2-290	290	132	2.00	51	144	2.59	Blue	23/8	41/2	17/8	31/8	3/4	53/8
	B2-450 [†]	450	204	2.00	51	224	4.00	Tan	60	114	48	79	19	137
	B2-680 [†]	680	308	2.00	51	340	6.04	Gray						
IM-	C2-125	125	57	2.50	64	50	0.89	Purple						
	C2-170	170	77	2.40	61	70	1.26	Brown						
	C2-210	210	95	2.30	58	90	1.64	Red						
	C2-260	260	118	2.20	56	120	2.11	White						
	C2-330	330	150	2.00	51	165	2.94	Black						
	C2-460	460	209	2.00	51	230	4.10	Blue	27/8	5	23/8	35/8	3/4	57/8
	C2-610	610	277	2.00	51	305	5.43	Green	73	127	60	92	19	149
	C2-880 [†]	880	399	2.00	51	440	7.83	Gray						
	C2-1210 [†]	1210	549	2.00	51	605	10.8	Silver						
	C2-1540 [†]	1540	699	2.00	51	770	13.7	Gray*						
	C2-1870 [†]	1870	848	2.00	51	935	16.6	Silver*						

[†]Published ratings allow minimum 25% additional travel to solid. For a full 50% specified minimum use the following ratings:

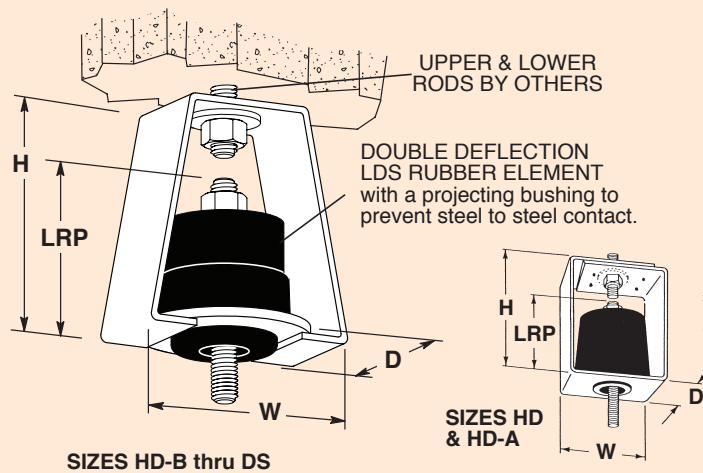
Size	Derated Capacity (lbs)	Derated Defl. (in)
B2-450	410	1.83
B2-680	565	1.66
C2-880	800	1.82
C2-1210	1010	1.67
C2-1540	1285	1.67
C2-1870	1560	1.67

Size	Derated Capacity (kg)	Derated Defl. (mm)
B2-450	186	46
B2-680	256	42
C2-880	363	46
C2-1210	458	42
C2-1540	583	42
C2-1870	708	42

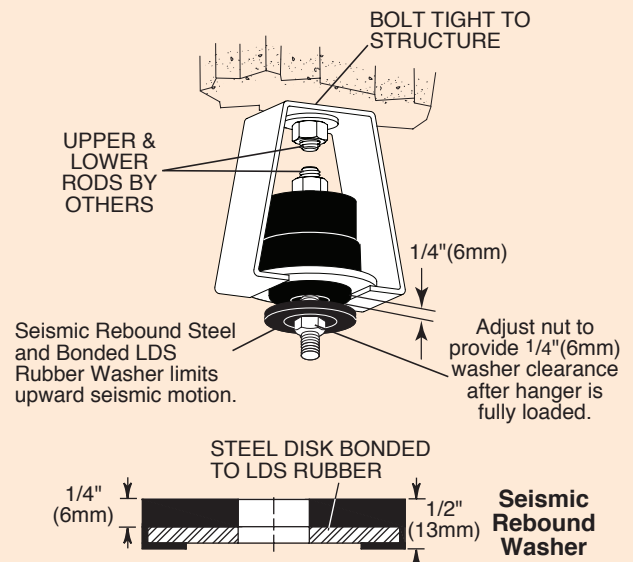
All springs without "†" have additional travel to solid equal to 50% of Rated Deflection. *with Red inner spring

DOUBLE DEFLECTION LDS HANGERS

HD FOR ROD ATTACHMENT



RWHD TYPE HD SEISMIC RESTRAINT



Ratings & Dimensions for LDS Hangers (inches mm)

Type	Size (Color Mark)	Duro-meter	Rated Capacity Range (lbs) (mm)		Max Rated Defl [†] (in) (mm)	D	H	W	Lower Rod Penetration LRP	Max. Rod Dia. MRD	Vertical G Ratings Tension Compression	
HD-	Green	40	Up to 35	Up to 16	0.20 5	13/4 44	21/4 57	17/8 48	11/4 32	3/8 10	10.0 ⁺	10.0 ⁺
	White	60	35-75	16-34	0.20 5						10.0 ⁺	6.3
	A-Black	30	Up to 45	Up to 20	0.35 9	2 51	23/4 70	21/4 57	21/4 57	1/2 13	10.0 ⁺	10.0 ⁺
RWHD-	A-Green	40	30-75	14-34	0.35 9						10.0 ⁺	8.5
	A-Red	50	60-125	27-57	0.35 9						10.0 ⁺	5.1
	B-Red	50	Up to 235	Up to 107	0.40 10	31/4 83	41/2 114	41/4 108	3 76	3/4 19	10.0 ⁺	10.0 ⁺
	B-White	60	180-380	82-172	0.40 10						10.0 ⁺	6.7
	B-Yellow	70	320-650	145-295	0.40 10						10.0 ⁺	3.9
	BS-Blue	70	500-1000	227-454	0.40 10	31/4 83	41/2 114	41/4 108	3 76	3/4 19	10.0 ⁺	2.3
CS-Blue	70	1000-2100	454-953	0.40 10	31/4 83	5 127	41/4 108	31/4 83	7/8 22		9.0	1.2
DS-Blue	70	2100-4200	953-1905	0.40 10	4 102	61/4 159	43/4 121	31/4 83	7/8 22		5.0	1.0

[†]includes double deflection LDS element. Hanger elements have straight line deflection curves. *10.0 indicates a rating of 10 G's or greater.