

# Sleeve and Rolling Lobe Type Air Springs

**Bold numbers** indicate featured stock – contact Enidine customer service for details.

## Imperial Sleeve Type

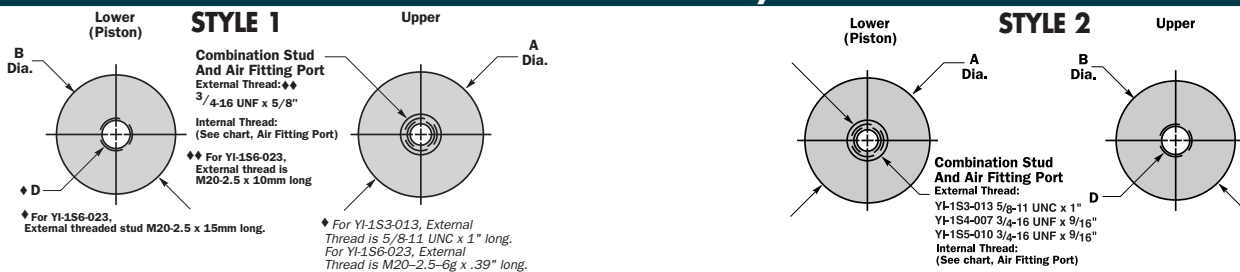
MODEL NUMBER		ACTUATION SPECIFICATIONS					ISOLATION SPECIFICATIONS					
Product Description Number	Assembly Number	Maximum Stroke (in.)	FORCE (lbs.) @ 100 psi AT A STROKE OF:*				Isolator Load Range @ 100 psi** (lbs.)	Approximate System Natural Frequency Hz	Design Height Range (in.)	% ISOLATION AT INPUT FREQ OF:***		
			1.0 (in.)	3.0 (in.)	5.0 (in.)	Maximum Stroke				7.25 Hz	14.5 Hz	30 Hz
YI-1S3	<b>011</b>	4.40	400	400	—	110	350 – 400	2.00	5.0 – 6.0	92	97	99
	<b>013</b>	2.10	560	—	—	120	440 – 580	3.25	2.0 – 3.0	71	93	98
YI-1S4	<b>007</b>	4.90	850	830	—	310	840 – 850	2.17	3.8 – 4.4	90	97	99
	008	6.50	700	900	850	540	800 – 900	1.33	6.5 – 7.5	95	98	99
YI-1S5	005	5.50	1,000	1,100	900	800	1,000 – 1,100	1.58	6.2 – 7.2	95	98	99
	006	6.50	1,000	1,150	1,100	750	1,100 – 1,150	1.50	7.0 – 9.0	96	99	99
	010	4.00	1,100	950	—	560	1,000 – 1,100	2.00	3.8 – 4.3	90	97	99
YI-1S6	023	6.80	1,700	1,600	1,590	1,200	1,600	1.58	7.0 – 8.6	94	98	99

## Imperial Rolling Lobe Type

MODEL NUMBER		ACTUATION SPECIFICATIONS					ISOLATION SPECIFICATIONS					
Product Description Number	Assembly Number	Maximum Stroke (in.)	FORCE (lbs.) @ 100 psi AT A STROKE OF:*				Isolator Load Range @ 100 psi** (lbs.)	Approximate System Natural Frequency Hz	Design Height Range (in.)	% ISOLATION AT INPUT FREQ OF:***		
			4.0 (in.)	8.0 (in.)	12.0 (in.)	Maximum Stroke				7.25 Hz	14.5 Hz	30 Hz
YI-1R8	005	13.00	3,280	2,950	—	—	3,000 – 3,100	1.33	10.5 – 13.0	95	98	99
	009	11.80	2,800	—	—	—	2,700 – 2,900	1.17	10.5 – 13.0	96	98	99
YI-1R9	003	12.30	3,350	3,040	1,300	1,250	3,200 – 3,700	1.42	8.0 – 12.0	93	98	99
	009	8.60	4,150	1,600	—	900	3,900 – 4,400	1.67	6.0 – 7.5	91	97	99
YI-1R10	089	14.10	5,100	5,250	3,550	2,100	5,000 – 5,200	1.25	9.5 – 13.5	96	99	99
YI-1R11	028	9.30	6,450	3,800	—	2,300	5,500 – 6,700	1.58	6.0 – 10.0	95	98	99
	039	11.00	6,700	5,750	—	2,300	6,500 – 7,000	1.67	8.0 – 12.0	94	98	99
YI-1R12	092	13.40	7,440	7,200	4,350	2,700	6,800 – 7,600	1.42	10.5 – 16.5	96	99	99
	095	9.10	7,100	3,800	—	2,400	6,800 – 7,300	1.58	7.0 – 9.0	94	98	99
	103	17.50	7,450	7,050	6,600	2,600	6,900 – 7,300	1.25	15.0 – 20.0	96	99	99
	132	10.80	7,350	5,900	—	2,700	7,400 – 7,600	1.67	8.0 – 10.0	93	98	99
	256	19.60	7,575	7,225	7,000	3,100	7,000 – 7,300	1.17	16.0 – 20.0	96	99	99
	274	14.70	7,400	7,200	5,100	3,000	7,300 – 7,500	1.17	11.3 – 14.3	96	99	99
YI-1R14	019	16.90	8,500	8,500	—	—	8,400 – 8,500	1.17	14.0 – 18.0	96	99	99
	018	14.80	8,400	8,400	6,100	2,500	8,400 – 8,500	1.25	11.0 – 16.5	96	99	99
	037	12.30	10,500	8,500	3,000	2,900	10,400 – 11,000	1.75	7.5 – 11.0	92	98	99

**Important Note:** All catalog performance data is based on 100 psi maximum operating pressure. For product selection at pressures less than 100 psi, please refer to the manual selection procedure within this catalog, use our automated sizing software E.A.S., or contact Enidine customer service at 1-800-852-8508.

## End Retainer Styles



\* Listed strokes start from the minimum allowable height of the Air Spring.

\*\* To obtain the lower load range limit (i.e., minimum load @ 20 psi), divide the smaller value by 5.

\*\*\* In the "Isolation Specification" section, this data reflects the approximate percentage of isolation obtainable, if the design height is at the center of the design height range, and the load per air spring is within the isolator load range. Note: For values other than 100 psi, consult factory.

# Sleeve and Rolling Lobe Type Air Springs

Bold numbers indicate featured stock – contact Enidine customer service for details.

## Imperial Sleeve Type

ENVELOPE DIMENSIONS			MOUNTING DIMENSIONS			FEATURES				
Maximum Diameter @ 100 psi (in.)	Compressed Height (in.)	Maximum Height (in.)	A Upper End Plate Diam. (in.)	B Lower End Plate Diam. (in.)	D Blind Top for Mounting (in.)	End Retainer Style	Air Fitting Port (NPTF)	Internal Bumper	Assembly Number	Flex Member Material
3.25	3.60	8.00	2.75	2.75	1/2-13 UNC x 0.63 DP.	1	1/8	NO	<b>011</b>	NP
3.60	1.50	3.60	2.40	3.40	5/16-18 UNC x 0.44 DP.	2	1/8	NO	<b>013</b>	
4.60	2.20	7.10	4.10	4.10	3/8-16 UNC x 0.50 DP.	2	1/8	NO	<b>007</b>	NP
4.60	4.00	10.50	4.10	4.10	1/2-13 UNC x 0.63 DP.	1	1/8	NO	008	
5.60	4.00	9.50	5.10	5.10	1/2-13 UNC x 0.63 DP.	1	1/8	NO	005	NP
5.60	4.00	10.50	5.10	5.10	1/2-13 UNC x 0.63 DP.	1	1/8	NO	006	
5.60	2.20	6.25	5.10	5.10	3/8-16 UNC x 0.50 DP.	2	1/8	NO	010	
6.80	4.10	10.90	6.30	6.30	♦M20-2.5-6g x 10 mm Long	1	1/8	NO	023	NP

## Imperial Rolling Lobe Type

ENVELOPE DIMENSIONS			MOUNTING DIMENSIONS			FEATURES				
Maximum Diameter @ 100 psi (in.)	Compressed Height (in.)	Maximum Height (in.)	A Upper End Plate Diam. (in.)	B Lower End Plate Diam. (in.)	D Blind Top for Mounting (in.)	End Retainer Style	Air Fitting Port (NPTF)	Internal Bumper	Assembly Number	Flex Member Material
8.70	5.60	18.60						NO	005	NR
8.70	6.80	18.60						YES	009	
9.50	5.60	17.90						NO	003	NR
9.50	3.20	11.80						NO	009	
11.00	6.00	20.10						NO	089	NR
11.50	3.70	13.00						NO	028	NR
11.70	6.10	17.10						YES	039	
12.70	7.70	21.10						YES	092	NR
12.70	4.40	13.50						YES	095	
12.70	9.50	27.00						YES	103	
12.90	6.10	16.90						YES	132	
12.60	9.50	29.10						YES	256	
12.80	8.10	22.80						YES	274	
14.60	8.90	25.80						YES	019	NR
14.60	7.70	22.50						YES	018	
14.80	5.70	18.00						YES	037	

FOR ROLLING LOBE TYPE AIR SPRINGS:  
CONTACT YOUR LOCAL REPRESENTATIVE OR ENIDINE FOR MOUNTING AND AIR FITTING DIMENSIONS.

NOTE: NP= Neoprene  
NR= Natural Rubber



Sleeve Type



Rolling Lobe Type

