

Single Convolute Type Air Springs

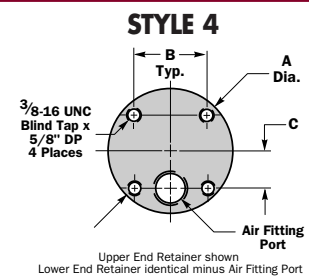
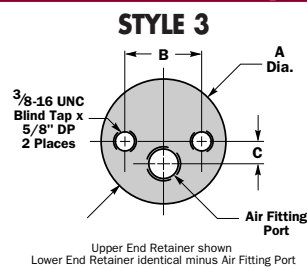
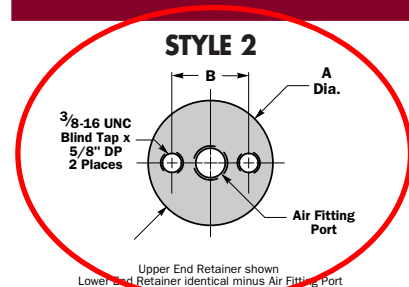
Bold numbers indicate featured stock – contact Enidine customer service for details.

Imperial Single Convolute Bellows 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.)	2.0 (in.)	3.0 (in.)	Maximum Stroke				7.25 Hz	14.5 Hz	30 Hz	
YI-1B5	500	502	2.00	1,250	560	—	560	1,100 – 1,350	3.25	2.5 – 3.0	72	94	98
	510	512	3.00	1,500	1,200	520	520	1,050 – 1,500	2.75	2.5 – 4.0	82	96	99
	520	521	3.00	1,500	1,150	440	440	1,000 – 1,500	2.67	3.5 – 5.0	83	96	99
YI-1B6	530	521	2.80	1,900	1,500	—	850	1,500 – 1,900	2.75	3.0 – 4.0	78	95	98
		531	2.80	1,900	1,500	—	850	1,500 – 1,900	2.75	3.0 – 4.0	78	95	98
		532	2.50	1,800	1,300	—	850	1,500 – 1,900	2.75	3.0 – 4.0	78	95	98
	535	521	3.40	2,000	1,600	1,025	750	1,500 – 2,100	2.25	4.0 – 6.0	90	97	99
		536	3.40	2,000	1,600	1,025	750	1,500 – 2,100	2.25	4.0 – 6.0	90	97	99
		538	3.40	2,000	1,600	1,025	750	1,500 – 2,100	2.25	4.0 – 6.0	90	97	99
YI-1B7	540	521	3.20	2,400	1,900	1,100	850	1,600 – 2,200	2.67	3.5 – 4.5	83	96	99
		541	3.20	2,400	1,900	1,100	850	1,600 – 2,200	2.67	3.5 – 4.5	83	96	99
		542	2.90	2,300	1,750	—	850	1,600 – 2,200	2.67	3.5 – 4.5	83	96	99
YI-1B8	550	521	3.30	3,300	2,650	1,600	1,100	2,000 – 2,900	2.83	3.75 – 4.75	83	96	99
	552	521	3.30	3,300	2,650	1,600	1,100	2,000 – 2,900	2.83	3.75 – 4.75	83	96	99
		553	3.30	3,300	2,650	1,600	1,100	2,000 – 2,900	2.83	3.75 – 4.75	83	96	99
		554	3.00	3,200	2,500	1,100	1,100	2,000 – 2,900	2.83	3.75 – 4.75	83	96	99
	560	562	3.20	3,100	2,700	1,900	1,600	1,900 – 3,300	2.33	4.0 – 6.5	85	96	99
		563	3.20	3,100	2,700	1,900	1,600	1,900 – 3,300	2.33	4.0 – 6.5	85	96	99
		564	3.20	3,100	2,700	1,900	1,600	1,900 – 3,300	2.33	4.0 – 6.5	85	96	99
YI-1B9	202	204	2.90	5,050	4,150	—	2,850	3,200 – 3,900	2.50	4.5 – 5.0	84	96	99
	201	205	2.00	4,150	2,850	—	2,850	3,200 – 3,900	2.50	4.5 – 5.0	84	96	99
	207	205	2.90	5,050	4,150	—	2,850	3,200 – 3,900	2.50	4.5 – 5.0	84	96	99
		208	2.00	4,150	2,850	—	2,850	3,200 – 3,900	2.50	4.5 – 5.0	84	96	99
YI-1B12	313	304	3.30	8,700	8,000	7,000	6,574	7,300 – 8,800	2.33	3.0 – 5.0	89	97	99
	301	305	3.00	8,500	7,650	6,574	6,574	7,300 – 8,800	2.33	3.0 – 5.0	89	97	99
YI-1B14	350	352	3.30	12,650	11,500	9,900	9,300	10,000 – 11,900	2.33	4.0 – 5.25	86	96	99
	351	353	1.40	10,000	—	—	9,300	10,000 – 11,750	2.33	4.25 – 5.25	86	96	99
	364	362	6.00	13,500	12,800	11,600	4,800	11,600 – 13,500	2.25	3.25 – 5.25	87	97	99
YI-1B15	375	377	3.5	14,900	13,900	12,200	11,300	12,000 – 13,700	2.17	4.4 – 5.4	91	97	99
	376	378	1.6	12,400	—	—	11,300	12,000 – 13,700	2.17	4.4 – 5.4	91	97	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.

Single Convolute Type Air Springs

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Imperial Single Convolute Bellows Type

ENVELOPE DIMENSIONS					MOUNTING DIMENSIONS			FEATURES					
Maximum Diameter @ 100 psi (in.)	Compressed Height (in.)	Minimum Height as Actuator (in.)	Maximum Height as Insulator (in.)	Maximum Height as Actuator (in.)	A End Plate Ref. Diam. (in.)	B Blind Top Spacing (in.)	C Fill Port Offset (in.)	End Retainer Style	Air Fitting Port (NPTF)	Internal Bumper	Assembly Number	Flex Member Material	
5.70	1.80	1.80	3.80	3.80	3.40	1.75	—	2	1/4	3/4	NO	500 502	NP
6.00	1.80	1.80	4.80	4.80	3.40	1.75	—	2	1/4	3/4	NO	510 512	
6.50	1.80	2.80	5.80	5.80	3.40	1.75	—	2	1/4	3/4	NO	520 521	
6.50	2.00	2.00	4.80	4.80	4.15	1.75	—	2	1/4	NO	530	NP	
6.50	2.00	2.00	4.80	4.80	4.15	2.75	1.38	3	1/4	NO	531		
6.50	2.00	2.30	4.80	4.80	4.15	2.75	1.38	3	1/4	YES	532		
7.00	2.00	2.00	7.10	7.10	4.15	1.75	—	2	1/4	NO	535		
7.00	2.00	2.00	7.10	7.10	4.15	2.75	1.38	3	1/4	NO	536		
7.00	2.00	2.30	7.10	7.10	4.15	2.75	1.38	3	1/4	YES	538		
7.70	2.00	2.00	5.20	5.20	4.15	1.75	—	2	1/4	NO	540	NP	
7.70	2.00	2.00	5.20	5.20	4.15	2.75	1.38	3	1/4	NO	541		
7.70	2.00	2.30	5.20	5.20	4.15	2.75	1.38	3	1/4	YES	542		
8.70	2.00	2.00	5.30	5.30	5.00	2.75	—	2	1/4	NO	550	NP	
8.70	2.00	2.00	5.30	5.30	5.00	2.75	—	2	3/4	NO	552		
8.70	2.00	2.00	5.30	5.30	5.00	2.75	1.38	3	1/4	NO	553		
8.70	2.00	3.50	5.30	5.30	5.00	2.75	1.38	3	1/4	YES	554		
9.40	2.00	3.50	6.70	6.70	5.00	2.75	—	2	1/4	3/4	NO		560 562
9.40	2.00	3.50	6.70	6.70	5.00	2.75	1.38	3	1/4	NO	563		
9.40	2.00	3.50	6.70	6.70	5.00	2.75	1.38	3	1/4	YES	564		
11.00	2.30	2.30	5.90	5.20	6.40	3.50	1.75	3	1/4	1/2	NO	202 204	NR
11.00	2.30	3.20	5.90	5.20	6.40	3.50	1.75	3	1/4	1/2	YES	201 205	
11.00	2.30	2.30	5.90	5.20	6.40	3.50	1.50	3	3/4	NO	207		
11.00	2.30	3.20	5.90	5.20	6.40	3.50	1.50	3	3/4	YES	208		
13.20	2.30	2.30	7.20	5.60	9.00	6.20	2.87	3	1/4	3/4	NO	313 304	NR
13.20	2.30	2.60	7.20	5.60	9.00	6.20	2.87	3	1/4	3/4	YES	301 305	
15.20	2.30	2.30	7.20	5.60	11.30	6.25	3.12	4	1/4	3/4	NO	350 352	NR
15.20	2.30	4.20	7.20	5.60	11.30	6.25	3.12	4	1/4	3/4	YES	351 353	
15.90	2.30	2.30	8.30	8.30	11.30	6.25	3.12	4	1/4	3/4	NO	364 362	
17.50	2.30	2.30	7.90	5.80	11.30	6.25	3.12	4	1/4	3/4	NO	375 377	NR
17.50	2.30	4.20	7.90	5.80	11.30	6.25	3.12	4	1/4	3/4	YES	376 378	

NOTE: NP= Neoprene
NR= Natural Rubber



(Single) Bellows Type

