



Imperial Sleeve Type

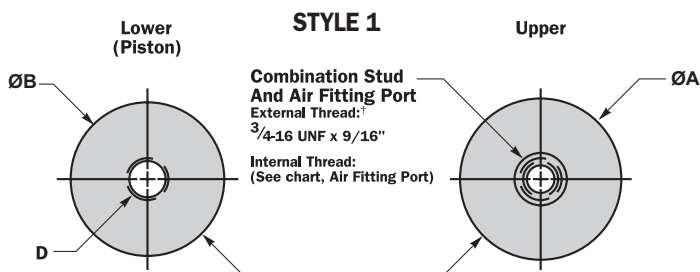
MODEL NUMBER		ACTUATION SPECIFICATIONS					ISOLATION SPECIFICATIONS					
PRODUCT DESCRIPTION NUMBER	ASSEMBLY NUMBER	MAX. STROKE (mm)	FORCE (N) AT A STROKE OF:*				ISOLATOR LOAD RANGE @ 7 BAR** (N)	APPROXIMATE SYSTEM NATURAL FREQUENCY Hz†	DESIGN HEIGHT RANGE (mm)	% ISOLATION AT INPUT FREQ OF:		
			25 (mm)	75 (mm)	125 (mm)	Max. (mm)				7,25 Hz	14,5 Hz	30 Hz
YI-1S3	*011	112	1 780	1 780	—	490	1 560 – 1 780	2,00	279 – 381	92	97	99
	*013	53	2 490	—	—	530	1 960 – 2 580	3,25	279 – 381	71	93	98
YI-1S4	007	124	3 780	3 690	—	1 380	3 780 – 3 910	2,17	267 – 318	90	97	99
	*008	165	3 110	4 000	3 780	2 400	3 560 – 4 000	1,33	267 – 318	95	98	99
YI-1S5	005	140	4 450	4 890	4 000	3 560	3 560 – 4 000	1,58	267 – 318	95	98	99
	006	165	4 450	5 120	4 890	3 340	4 670 – 4 890	1,50	267 – 318	96	99	99
	010	102	4 890	4 230	—	2 490	4 110 – 4 890	2,00	267 – 318	90	97	99
YI-1S6	023	173	7 870	7 250	7 070	5 340	7 250 – 6 940	1,58	267 – 318	94	98	99

Imperial Rolling Lobe Type

MODEL NUMBER		ACTUATION SPECIFICATIONS					ISOLATION SPECIFICATIONS					
PRODUCT DESCRIPTION NUMBER	ASSEMBLY NUMBER	MAX. STROKE (mm)	FORCE (N) AT A STROKE OF:*				ISOLATOR LOAD RANGE @ 7 BAR** (N)	APPROXIMATE SYSTEM NATURAL FREQUENCY Hz*	DESIGN HEIGHT RANGE (mm)	% ISOLATION AT INPUT FREQ OF:		
			100 (mm)	200 (mm)	300 (mm)	Max. (mm)				7,25 Hz	14,5 Hz	30 Hz
YI-1R8	005	330	14 645	13 345	—	—	13 345 – 13 790	1,33	267 – 330	95	95	98
	009	300	12 120	—	—	—	12 010 – 12 900	1,17	267 – 330	96	98	99
YI-1R9	003	312	15 090	13 580	6 895	5 560	14 235 – 16 460	1,42	204 – 304	93	98	99
	009	218	18 150	6 750	—	4 005	17 350 – 19 575	1,67	153 – 190	91	97	99
YI-1R10	089	358	22 240	23 575	16 425	9 340	22 240 – 23 130	1,25	242 – 343	96	99	99
YI-1R11	028	236	27 920	17 525	—	10 235	24 465 – 29 800	1,58	153 – 254	95	98	99
	039	279	29 805	25 355	—	10 235	28 915 – 31 140	1,67	204 – 304	94	98	99
YI-1R12	092	340	33 130	31 630	20 200	12 010	30 250 – 33 800	1,42	267 – 419	96	99	99
	095	231	31 715	17 600	—	10 675	30 250 – 32 470	1,58	178 – 228	94	98	99
	103	445	33 165	31 465	29 525	11 565	30 690 – 32 470	1,25	381 – 508	96	99	99
	132	274	32 915	26 020	—	12 010	32 915 – 33 800	1,67	204 – 254	93	98	99
	256	498	33 735	32 165	31 135	13 790	31 135 – 32 970	1,17	407 – 508	96	99	99
YI-1R14	274	373	33 145	32 470	23 370	13 345	32 470 – 33 360	1,17	287 – 363	96	99	99
	019	429	37 810	37 810	—	—	36 380 – 37 810	1,17	356 – 457	96	99	99
	018	376	37 525	37 365	27 760	11 120	37 365 – 37 810	1,25	280 – 419	96	99	99
	037	312	48 725	39 825	15 350	13 125	45 505 – 49 830	1,75	191 – 279	92	98	99

NOTE: * denotes regularly stocked Endidine product; available with shortest lead times.

End Retainer Styles



* Listed strokes start from the compressed height of the Air Spring.
 ** This range is based on 100 psi (7 bar); to obtain the lower limit (i.e., minimum load @ 20 psi) divide the smaller value by 5.
 *** In the "Isolation Specification" section, there is a column titled: "% Isolation At Input Frequency." The figures in this column reflect 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. If the design height is above or below the design height range, vibration isolation may be slightly higher or lower, respectively.

Note: For values other than 100 psi (7 bar), consult factory.

† For YI-1S3-013, External thread is 5/8-11 UNC x 25mm long.
 For YI-1S6-023, External thread is M20 x 2,5-6g is 16mm long.



Imperial Sleeve Type

ENVELOPE DIMENSIONS			MOUNTING DIMENSIONS			FEATURES			MODEL NUMBER	
MAX. Ø @ 7 bar (mm)	COMPRESSED HEIGHT (mm)	MAXIMUM HEIGHT (mm)	A UPPER END PLATE DIAM. (mm)	B LOWER END PLATE DIAM. (mm)	D BLIND TAP FOR MOUNTING	END RETAINER STYLE	AIR FITTING PORT (NPTF)	INTERNAL BUMPER	ASSEMBLY NUMBER	PRODUCT DESCRIPTION NUMBER
83	91	203	69,9	69,9	1/2-13 UNC x 0,63 DP.	1	1/8	NO	*011	YI-1S3
91	38	91	61,0	86,4	5/16-18 UNC x 0,44 DP.	1	1/8	NO	*013	
117	56	180	104,1	104,1	3/8-16 UNC x 0,50 DP.	1	1/8	NO	007	YI-1S4
117	102	267	104,1	104,1	1/2-13 UNC x 0,63 DP.	1	1/8	NO	*008	
142	102	241	104,1	104,1	1/2-13 UNC x 0,63 DP.	1	1/8	NO	005	YI-1S5
142	102	267	129,5	129,5	1/2-13 UNC x 0,63 DP.	1	1/8	NO	006	
142	56	159	129,5	129,5	3/8-16 UNC x 0,50 DP.	1	1/8	NO	010	
173	104	277	160,0	160,0	M20-2,5-6g x 15mm Long	1	1/8	NO	023	YI-1S6

Imperial Rolling Lobe Type

ENVELOPE DIMENSIONS			MOUNTING DIMENSIONS			FEATURES			MODEL NUMBER	
MAX. Ø @ 7 bar (mm)	COMPRESSED HEIGHT (mm)	MAXIMUM HEIGHT (mm)	A UPPER END PLATE DIAM. (mm)	B LOWER END PLATE DIAM. (mm)	D BLIND TAP FOR MOUNTING	END RETAINER STYLE	AIR FITTING PORT (NPTF)	INTERNAL BUMPER	ASSEMBLY NUMBER	PRODUCT DESCRIPTION NUMBER
221	142	472						NO	005	YI-1R8
221	173	472						YES	009	
241	142	455						NO	003	YI-1R9
241	81	300						NO	009	
279	152	511						NO	089	YI-1R10
292	94	330						NO	028	YI-1R11
297	155	434						YES	039	
323	196	536						YES	092	YI-1R12
323	112	343						YES	095	
323	241	686						YES	103	
328	155	429						YES	132	
320	241	739						YES	256	
325	206	579						YES	274	
371	226	655						YES	019	YI-1R14
371	196	572						YES	018	
376	145	457						YES	037	

FOR ROLLING LOBE TYPE AIR SPRINGS:

CONTACT YOUR LOCAL REPRESENTATIVE OR ENIDINE FOR MOUNTING AND AIR FITTING DIMENSIONS.

NOTE: * denotes regularly stocked Enidine product; available with shortest lead times.



Sleeve Type



Rolling Lobe Type

