



'PA.' SERIES SINGLE ACTING (SPRING RETURN – SINGLE AND MULTI SPRING) AND DOUBLE ACTING PNEUMATIC PISTON ACTUATOR

Actuator Models: - PA-150, PA-250, PA-330, PA-400, PA-500.

'PA.'-series single (spring return – single and multi spring) and double acting pneumatic piston actuator is available in 5 models, i.e., PA-150, PA-250, PA-330, PA-400, and PA-500. If required these actuators can be provided with side mounted hand wheel.

These actuators are suitable for regulating and on/off control applications. Full stainless steel version is also optionally available.

General Features:

- Compact yoke mounted Actuator.
- Easy Coupling to valve plug stem.
- Fast response.
- Wide range of travel & spring range.
- Low weight
- Long life.
- Surface protection suitable for corrosive Atmosphere

Actuator Range:

Size: - 180sqcm (28in2), 500sq cm (78in2), 830sq cm (130in2), 1270sq cm (201in2), 2000sq cm (314in2).

Travel: - 38mm to 178mm (1.5" to 7")

Spring Range: - 0.2-1 bar, 0.4-2 bar, 0.8-2.4 bar & 3 bar to 4 bar etc.

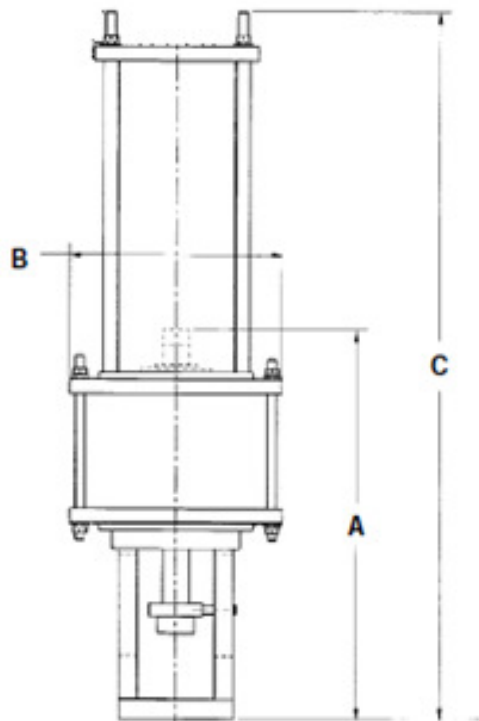
Technical Data:-

Component	Material
Cylinder	Carbon Steel
Yoke	WCB
Piston	Aluminum
'O' Rings & Seals	Nit rile
Springs	Steel (50Cr4V2)
Bolts/nuts	B7/2H



Actuator Model	NOM. AREA SQ. CM	Spring					Power							
		Travel		Range			Effective Area	Thrust Gross		Thrust Net		Spring Extended		
														(in ²) cm ²
		Inch	mm	bar	psi	kpa	kgf	lbf	kgf	lbf	kgf	lbf		
PA150	180	1 1/2 TO 4"	38 TO 100mm	0.2-1.0	3-15.	20-100	(28) 180	727	1599	543	1194	37	81	
				0.4-2.0	6-30.	40-200				360	792	74	162	
				0.6-3.0	9-44.	60-300				176	387	110	242	
				1.4-2.3	21-34.	140-230				304	669	257	565	
				2.1-3.3	31-48.	210-330				121	266	385	847	
PA250	500	2 TO 4"	50 TO 178mm	0.2-1.0	3-15.	20-100	(78) 500	2040	4488	1530	3366	102	224	
				0.4-2.0	6-30.	40-200				1020	2244	204	449	
				0.6-3.0	9-44.	60-300				510	1122	306	673	
				1.4-2.3	21-34.	140-230				867	1907	714	1570	
				2.1-3.3	31-48.	210-330				357	785	1070	2354	
PA330	830	3 TO 7"	75 TO 178mm	0.2-1.0	3-15.	20-100	(130) 830	3380	7436	2533	5573	169	372	
				0.4-2.0	6-30.	40-200				1687	3711	338	744	
				0.6-3.0	9-44.	60-300				840	1848	508	1117	
				1.4-2.3	21-34.	140-230				1433	3153	1185	2607	
				2.1-3.3	31-48.	210-330				586	1289	1777	3910	
PA400	1270	3 TO 7"	75 TO 178mm	0.2-1.0	3-15.	20-100	(201) 1270	5181	11400	3886	8550	259	570	
				0.4-2.0	6-30.	40-200				2590	5700	518	1140	
				0.6-3.0	9-44.	60-300				1295	2850	777	1709	
				1.4-2.3	21-34.	140-230				2201	4842	1814	3991	
				2.1-3.3	31-48.	210-330				906	1993	2722	5988	
PA500	2000	3 TO 7"	75 TO 178 mm	0.2-1.0	3-15.	20-100	(314) 2000	8160	17950	6120	13464	408	898	
				0.4-2.0	6-30.	40-200				4080	8976	816	1795	
				0.6-3.0	9-44.	60-300				2040	4490	1224	2693	
				1.4-2.3	21-34.	140-230				3468	7630	2856	6283	
				2.1-3.3	31-48.	210-330				1428	3140	4284	9425	

1. Actuator should be designed in a steel or composite construction that is rated for 150 psig working pressure
2. Air failure spring should be mounted outside air cylinder to minimize residual volume
3. Spring cartridge should be mounted so that accessibility for reversing failure modes is easily accomplished.
4. Actuator/Spring shall be designed to provide a lower center of gravity and seismic radiation



SIZE	NOM AREA sq cm	DA A	DA & DASR B	DASR C	WEIGHT		CUBIC METER	
					kg DA	kg DASR	DA	DASR
PA 150	180	420	200	660	37.5	55.5	0.06	0.08
PA 250	500	450	267	860	60	78	0.1	0.14
PA 350	830	660	400	1202	105.5	160	0.23	0.34
PA 400	1270	630	483	1068	134	193	0.27	0.4
PA 500	2000	630	584	1068	189	243	0.39	0.57

DA - Double Acting

DASR - Double Acting w/Spring Return

ENTECH CONTROLS

Registered Office: 30, Shantiniketan (Air India) Co-op. Hsg. Society, 86, Yari Road, Versova, Mumbai - 400 061 India | Tel: +91 22 26363406 | E-mail: chandru.motwani@entechcontrols.com

Nashik Works: 95/7, Road No. 19, MIDC, Satpur, Nashik - 422 007 | Maharashtra, India
Tel: +91 253 2352773, Tel-Fax: 2360948 | E-mail: entech@entechcontrols.com | entechnsk@gmail.com

Mumbai Works: 122, Guru Gobind Singh Indl. Estate, Western Express Highway, Goregaon (E), Mumbai - 400 063 | Maharashtra, India Tel: +91 22 26854196

E-mail: entech@entechcontrols.com.