

Multi Spring & Diaphragm Actuator



KEY FEATURES

High Thrust Capability & Stiffness

Actuators are designed to meet the needs of applications that demand a delicate balance between high actuator thrust and increased spring stiffness.

Compactness

A combination of springs allows the actuator to achieve a lower overall height

Field Reversible

The design facilitates a seamless transition between direct and reverse acting without the need for extra components. This change of action can be effortlessly performed in the field.

Handwheel & Travel Stopper

A side-mounted handwheel option is provided for ease of manual operation, while travel stopper designs ensure that the stroke limit is set to the required length.

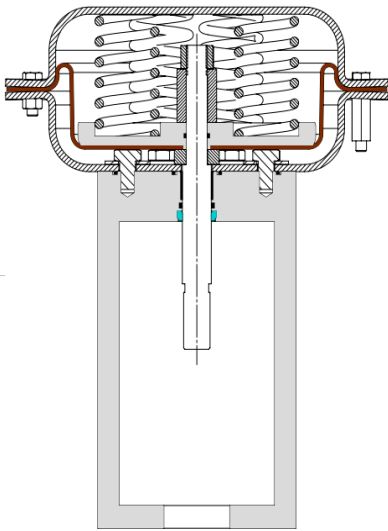
Actuator Thrust

Actuator Size	Effective Area (inch ²)	Actuator Travel (inch)	Spring Range (Psi)	Air Supply Pr. (Psig)	Spring thrust		Net Pneumatic Thrust	
					Min (lbf)	Max (lbf)	Max (lbf)	Min (lbf)
M 35	35	0.75	3-15	60	105	525	2025	1605
			6-30		210	1050	1920	1080
M 50	50	0.75, 1.0	3-15		150	750	2860	2260
			6-30		300	1500	3240	1800
			11-23		550	1150	2710	1510
			21-45		1100	2250	1910	760
M 100	97	1.125, 1.5, 2.5	3-15		290	1450	5240	4370
			6-30		580	2900	5400	2920
			11-23		1070	2230	4750	3590
			21-45		2030	4370	3790	1450
M150	146	1.5, 2, 2.5 4.0	3-15		440	2200	8320	6560
			6-30		880	4400	7880	4360
			11-23		1600	3360	7160	5400
			21-45		3070	6570	5690	2190

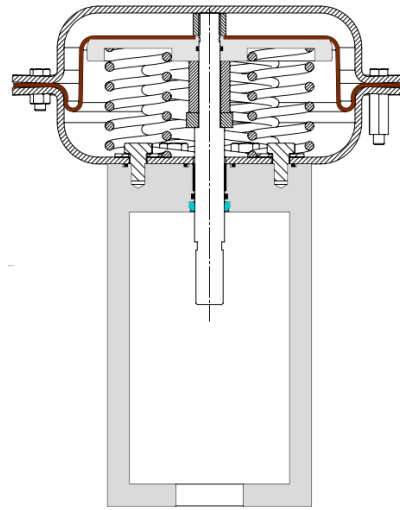
Air Connection:

Standard : 1/4" NPT for Size 35, 60 & 100 and 3/8" NPT for Size 160

Optional : 3/8" NPT for Size 35, 60 & 100 and 1/2" NPT for Size 160.



Air Fail Close



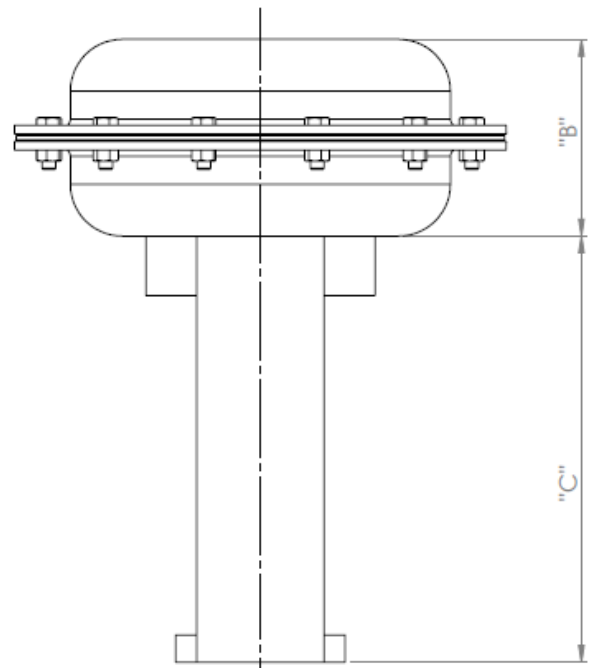
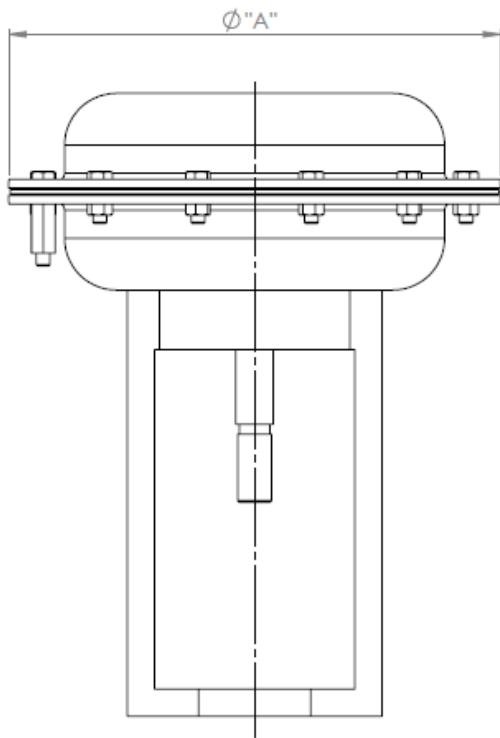
Air Fail Open

Materials of Construction

S.No	Item Description	Materials
1	Lower Diaphragm Case	Carbon Steel
2	Upper Diaphragm Case	Carbon Steel
3	Yoke	Carbon steel
4	Spring	Spring Steel
5	Diaphragm	Buna-N/Polyester
6	Diaphragm Plate	Aluminum Alloys
7	Stem	Stainless steel
9	Spacer	Aluminum Alloys
10	Stem Bushing	DU Bush
11	Hex Bolt	Carbon Steel
12	Compression Nut	Carbon Steel
13	Gear box Housing	Cast Iron
14	O Rings	Buna N
15	Wiper Rings	Polyurethane

- Special Materials upon request

Dimensions and Weight



ActuatorSize	Spring Range	Dimensions (mm)			Weight (Kg)	
		A	B	C	Wo/HW	W/HW
M35	All	242	110	190	20	26
M50	All	290	120	250	25	35
M100	All	382	180	300	40	60
M150	All	452	230	320	75	100



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