

Specification

Actuator Type	Spring Opposed Diaphragm, Manual
Actuator Action	Direct / Reverse Acting
Diaphragm	Nitrile / Neoprene (nylon reinforced)
Spring Range	See Table 1
Air Supply	20 - 60 PSIG (1.4 - 4.0 Bar)
Air Connection	1/4" or 1/2" NPT

Accessories	Valve Positioners - Pneumatic, Electro-Pneumatic, Smart
	Instruments - Airset, Solenoid Valve, Volume Booster, Airlock, Limit Switches
	Features - Top or Side Mounted handwheel, Limit Stops Removable Blind Head, Steam Jacketing etc.

Design Features

- High power
- Fast response.
- Low stress components.
- Large variety of sizes.
- Easily serviceable.
- Split coupling design for attachment to valve.
- Wide range of accessories available.

Quality and Performance Guarantee

- Produced with Quality Systems accredited to ISO 9001:2008.
- CE marked in accordance with European Pressure Equipment Directive 97/23/EC and ATEX compliant with European directive 94/9/EC.
- Full guarantee on design and performance.
- Comprehensively tested to ensure performance on site.

Actuator Spring Table

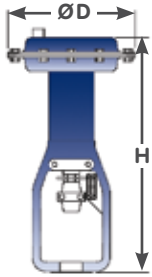
Actuator type	Actuator size(in ²)	Working pressure		Spring range*		Thrust gross		Nett thrust**		Extended thrust	
		Psi	Bar	Psi	Bar	Lbs	kg	Lbs	Kg	Lbs	Kg
Spring diaphragm	30	60	4	3-9	0.2-0.6	1800	815	1530	694	90	41
				3-15	0.2-1.0			1350	612	90	41
				6-30	0.4-2.0			900	408	180	82
				8-32	0.6-2.2			840	381	240	109
	55	60	4	3-9	0.2-0.6	3300	1500	2805	1272	165	75
				3-15	0.2-0.6			2475	1123	165	75
				6-30	0.4-2.0			1650	748	330	150
				8-32	0.6-2.2			1540	699	440	200
	95	60	4	3-9	0.2-0.6	5700	2585	4845	2198	285	129
				3-15	0.2-1.0			4275	1939	285	129
				6-30	0.4-2.0			2805	1293	570	259
				8-32	0.6-2.2			2660	1207	760	345
	140	60	4	3-9	0.2-0.6	8400	3810	7140	3239	420	191
				3-15	0.2-1.0			6300	2858	420	191
				6-30	0.4-2.0			4200	1905	840	381
				8-32	0.6-2.2			3920	1778	1120	508
	300	50	3.5	3-9	0.2-0.6	15000	6800	12300	5579	900	408
				3-15	0.2-1.0			10500	4763	900	408
				6-30	0.4-2.0			6000	2722	180	816
				8-32	0.6-2.2			5400	2449	2400	1089

*Other Spring Ranges available on request

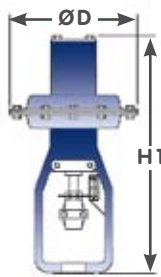
**Nett thrust is that available after compressing spring,

Actuator Dimensions

Diaphragm Actuator
Direct - acting



Diaphragm Actuator
Reverse - acting



Diaphragm Actuator
Top mounted
handwheel
Direct - acting



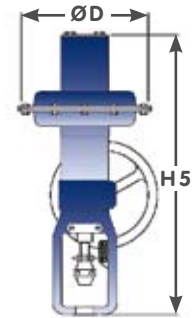
Diaphragm Actuator
Top mounted
handwheel
Reverse - acting



Diaphragm Actuator
Side mounted
handwheel
Direct - acting



Diaphragm Actuator
Side mounted
handwheel
Reverse - acting

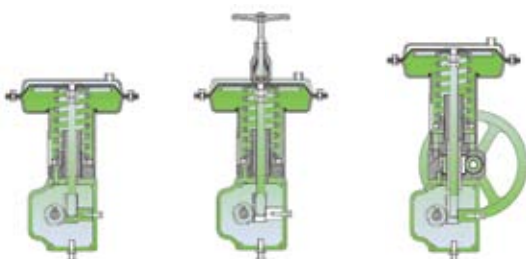


Actuator model	Effective inch ²	Bonnet mount dia.	Travel	Ø D	H	H1	H2	H3	H4	H5
PDC - 030	30	54	28	218	-	375	-	505	-	650
PDO - 030	30	54	28	218	400	-	575	-	650	-
PDC - 055	55	54	28	286	-	510	-	600	-	700
PDO - 055	55	54	28	286	510	-	750	-	700	-
PDC - 055	55	71.5	38	286	-	560	-	650	-	750
PDO - 055	55	71.5	38	286	560	-	800	-	750	-
PDC - 095	95	54	28	371	-	550	-	650	-	750
PDO - 095	95	54	28	371	550	-	800	-	750	-
PDC - 095	95	71.5	38	371	-	600	-	700	-	800
PDO - 095	95	71.5	38	371	600	-	850	-	800	-
PDC - 140	140	71.5	38	443	-	650	-	750	-	900
PDO - 140	140	71.5	38	443	650	-	950	-	900	-
PDC - 140	140	90.5	57	443	-	780	-	900	-	1030
PDO - 140	140	90.5	57	443	780	-	1100	-	1030	-
PDC - 300	300	71.5	38	616	-	850	-	-	-	1200
PDO - 300	300	71.5	38	616	850	-	-	-	1200	-
PDC - 300	300	90.5	57	616	-	900	-	-	-	1250
PDO - 300	300	90.5	57	616	900	-	-	-	1250	-
PDC - 300	300	90.5	90	616	-	1050	-	-	-	1400
PDO - 300	300	90.5	90	616	1050	-	-	-	1400	-
PDC - 300	300	90.5	102	616	-	1200	-	-	-	1550
PDO - 300	300	90.5	102	616	1200	-	-	-	1550	-

- **PDO** - Direct Acting Actuator (used on supply failure Valve - Opens)
- **PDC** - Reverse Acting Actuator (used on supply failure Valve - Closes)
- All dimensions in mm

● The company's policy is one of continuous product improvement and the right is reserved to modify the specifications contained herein without notice

Rotary Scotch Yoke Actuators - also available as part of the above range



- High power.
- Low hysteresis.
- Fast response.
- Long life alloy steel actuator springs.
- 'Scotch yoke' are designed to provide extremely reliable and accurate operation of Ball, Butterfly and Plug valves.