



PP Series Pneumatic Series Actuator

Description

PP Series is a linear pneumatic piston type actuator that provides positive throttling or on-off operation for automatic control valves.

The cylinders are designed for instrument air supply pressures of up to 100 psi (6.9 bar).

This actuator can be single or double-acting and spring-return.

This actuator is fully field reversible for air-to-open or air-to-close action. Can be supplied with handwheel for manual operation.

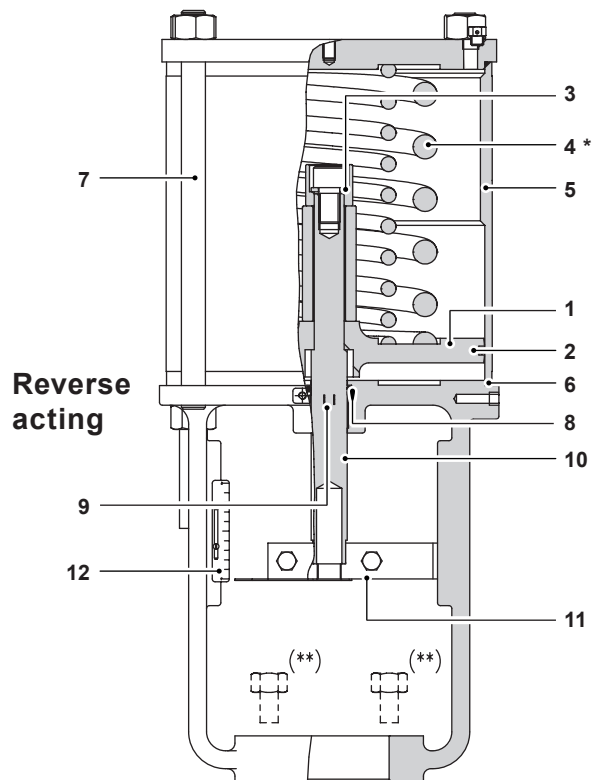
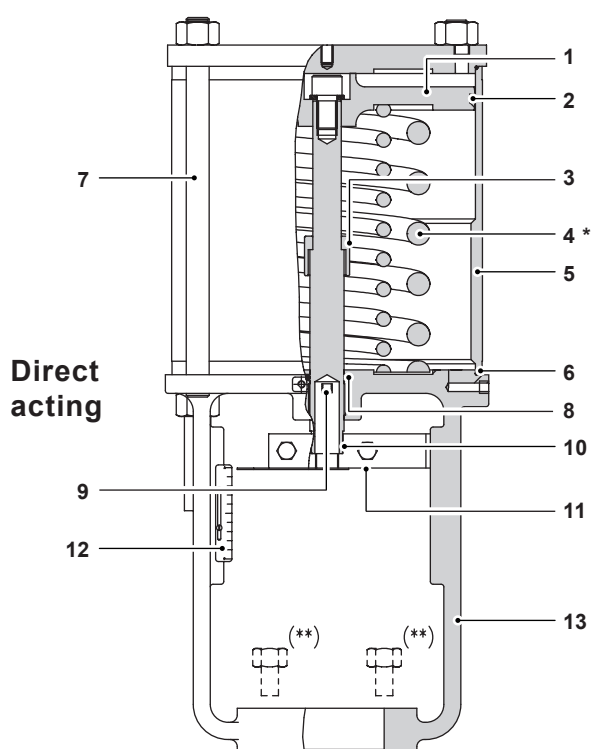
Maximum supply pressure	100 psi g (6.9 bar g)
Sping range	Standard: 25 - 50 psi g (1.7 - 3.4 bar g)

Actuator specifications

Size	Piston area, in ² (cm ²)	Available stroke, in (mm)
02	10.64 (69)	$\frac{7}{16}$ (11)
03	28 (181)	$\frac{1}{4}$ and $\frac{3}{8}$ (6 and 10)
04	50 (323)	$\frac{3}{4}$ to 2 (19 to 51)
05	81 (523)	1½ to 4 (38 to 102)
06	133 (858)	2 to 7 (51 to 178)
07	227 (1465)	2 to 7 (51 to 178)



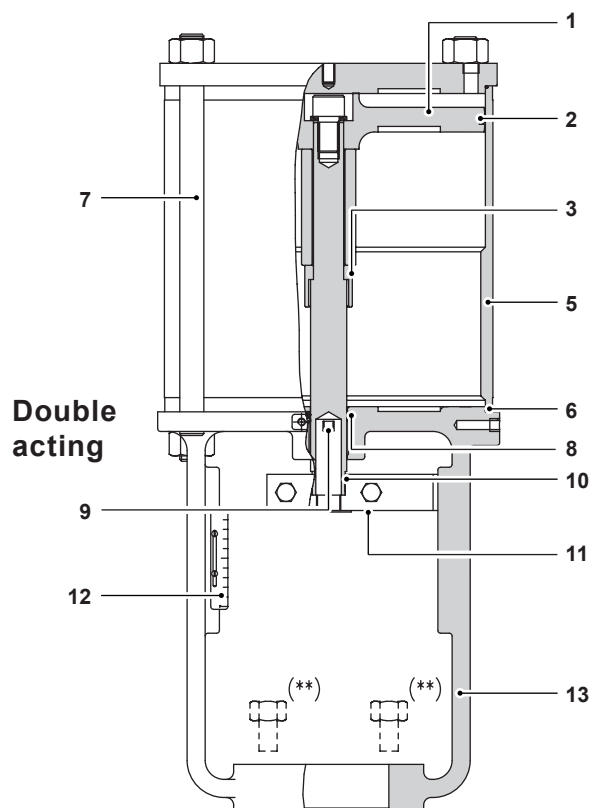
Materials



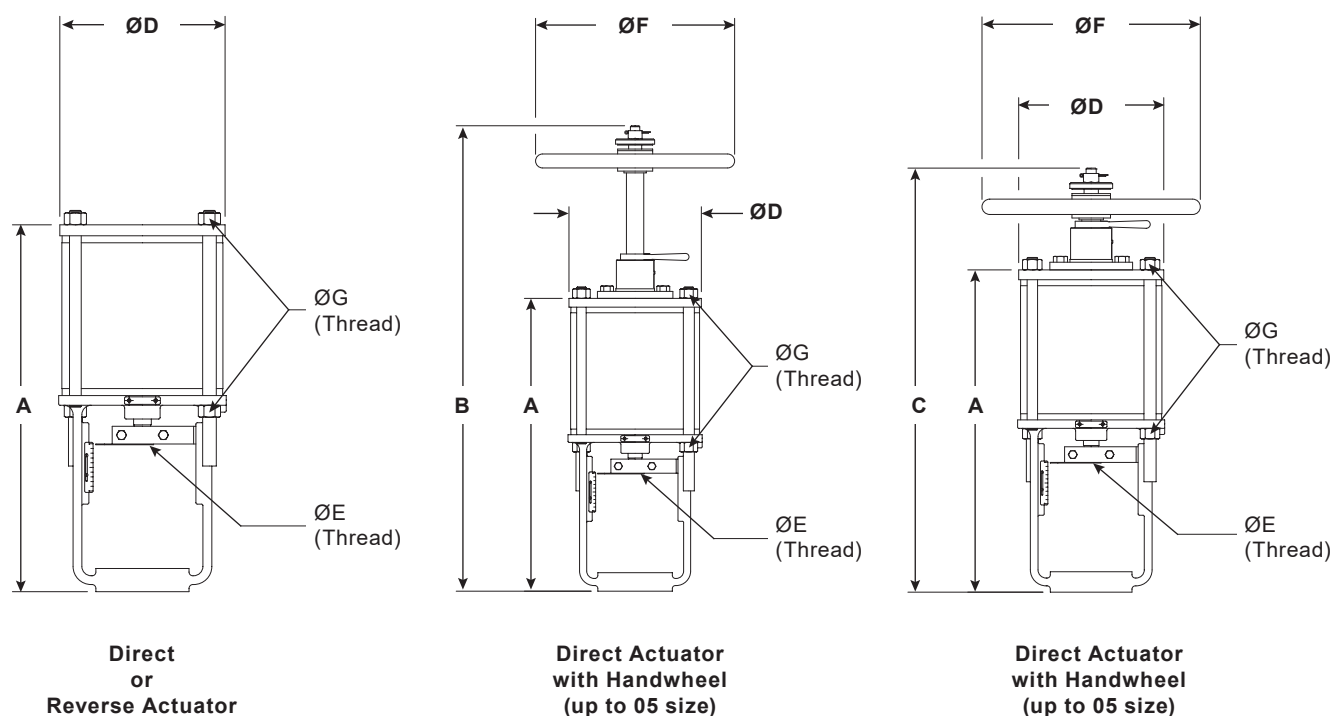
(*) Quantity of springs depends on spring range

(**) These screws are available up to 04 Actuator's size

No.	Part	Material
1	Piston	Casting Iron
2	'O' ring	Elastomer
3	Stroke limiter	Carbon Steel
4	Spring	Carbon Steel
5	Cylinder	Carbon Steel
6	'O' ring	Elastomer
7	Tension screw	Carbon Steel
8	'O' ring	Elastomer
9	Guide bush	PTFE
10	Stem	Stainless Steel
11	Connector	Carbon Steel
12	Stroke plate	Stainless Steel
13	Yoke	Casting Iron



Size and dimensions (approximate) in inches and (mm)

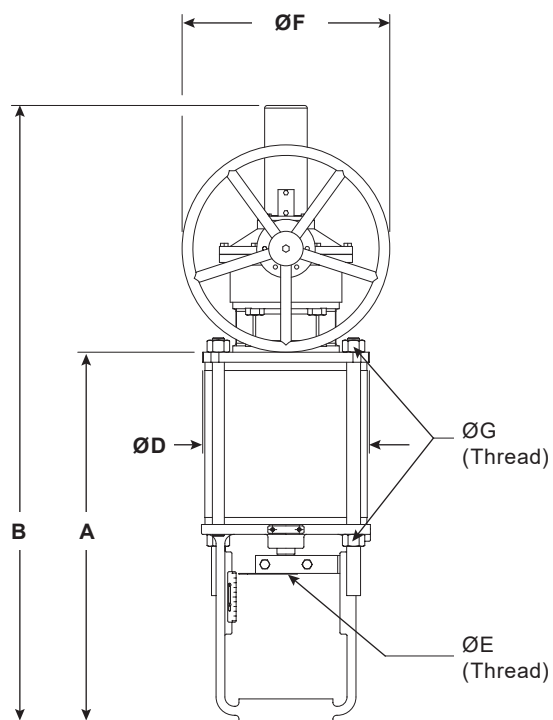


Size (inch)	A*	B*	C*	ØD	ØE	ØF	ØG
02	7.7 (195)	11.9 (301)	12.5 (317)	4.3 (108)	¼"-28UNF-2B	6.5 (165)	⅛"-NPT
03	12.4 (315)	18.6 (472)	18.1 (460)	6.9 (175)	⅜"-24UNF-2B	9.3 (235)	¼"-18NPT
04	28.3 (720)	25.9 (657)	23.9 (608)	8.9 (226)	½"-20UNF-2B	13.4 (340)	¼"-18NPT
05	34.5 (877)	44 (1118)	41.9 (1065)	11.4 (290)	¾"-16UNF-2B	18.9 (480)	¼"-18NPT

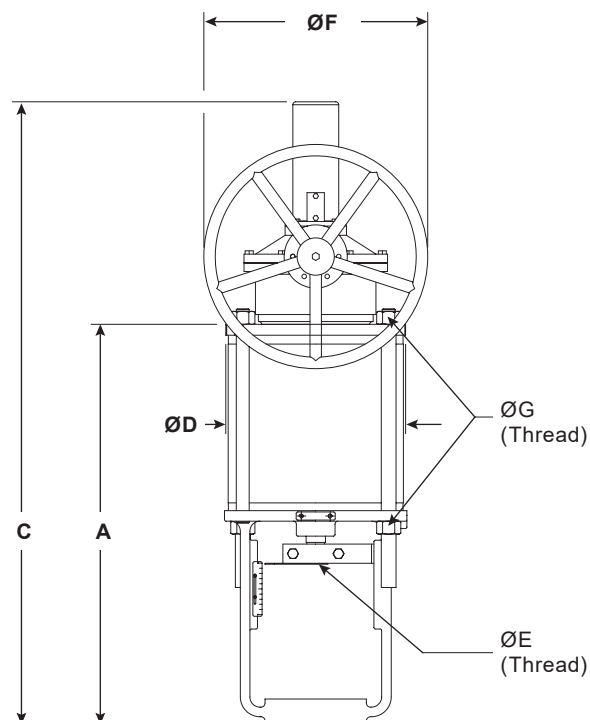
(*) These dimensions are maximum. Could be less depending on stroke options.

06 and 07 sizes are shown on the next page

Size and Dimensions (approximate) in inches and (mm) (continued)



**Direct Actuator
with Handwheel
(06 and 07 sizes)**



**Reverse Actuator
with Handwheel
(06 and 07 sizes)**

Size (inch)	A*	B*	C*	ØD	ØE	ØF	ØG
06	57.8 (1469)	60.4 (1533)	53.1 (1350)	14.1 (360)	1"-12UNF-2B	13.4 (340)	3/8"-18NPT
07	62.9 (1598)		83.7 (2127)	18.9 (480)	1½"-16UN-2B	18.9 (480)	3/8"-18NPT

(*) These dimensions are maximum. Could be less depending on stroke options.

Accessories

Pneumatic positioners, electro-pneumatic positioners, smart positioners, air regulators, Limit switch, electro-pneumatic transducer, solenoid valves and others.