

TI-P368-01-US Issue 2

DC Series diaphragm actuator

Description

The DC Series are type diaphragm pneumatic actuators used to operate linear displacement valves in modular or block control system.

It is a versatile equipment which makes possible the change of direct acting for inverse acting, with no need of additional parts.

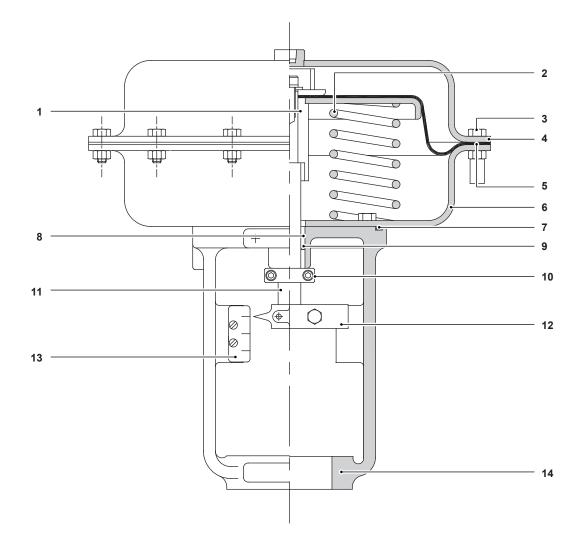
Due to the component responsibility for an adequate valve performance, for maintenance purposes, use only original parts supplied by HITER.

Generally actuators and diaphragm are supplied assembled in valves, although they can also be supplied in separate.



Technical specifications

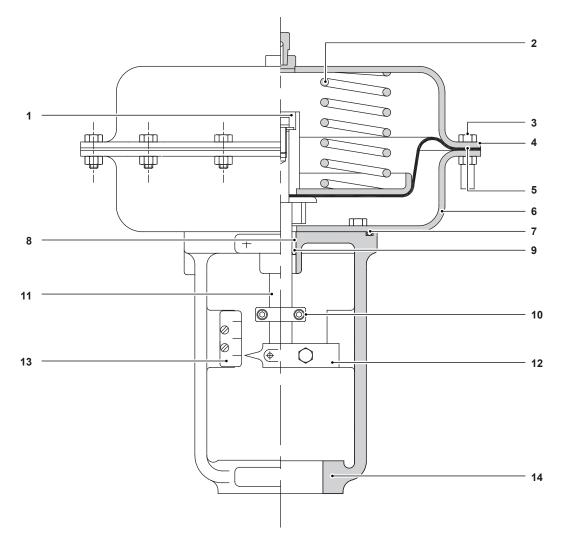
Linear pneumatic diaphragm/spring actuator Units without handwheel are completely field reversible Top handwheel for manual operation or stroke limiting can be supplied						
Size	Diaphragm effective area (in ²)	Maximum stroke (in)				
02	16.00 (103.2 cm ²)					
03	47.40 (005.0 mm2)					
06		³∕₄ (1.90 cm)				
07	70.50 (455.4					
08		1¼ (2.86 cm)				
09	106.62 (687.9 cm ²)	2 (5.08 cm)				
10	154.38 (996 cm ²)					
	Units without handwheel Top handwheel for manu 50 psi g (3.4 bar g) maxi 02 03 06 07 08 09	Units without handwheel are completely field reversibleTop handwheel for manual operation or stroke limiting can be supplied50 psi g (3.4 bar g) maximumSizeDiaphragm effective area (in²)0216.00 (103.2 cm²)0347.40 (305.8 cm²)06070770.58 (455.4 cm²)08106.62 (687.9 cm²)				



No.	Part	Material		
1	Stroke limiter	Carbon steel		
2	Spring	Carbon steel		
3	Compression bolt	Carbon steel with Z coated		
4	Upper case	Carbon steel		
5	Diaphragm	NBR elastomer		
6	Lower case	Carbon steel		
7	'O' ring	NBR elastomer		
8	Guide sleeve	Brass		
9	'O' ring	NBR elastomer		
10	Spring regulator	Stainless steel		
11	Stem	Stainless steel		
12	Connector	Carbon steel		
13	Stroke indicator	Stainless steel		
14	Yoke	Casting iron		

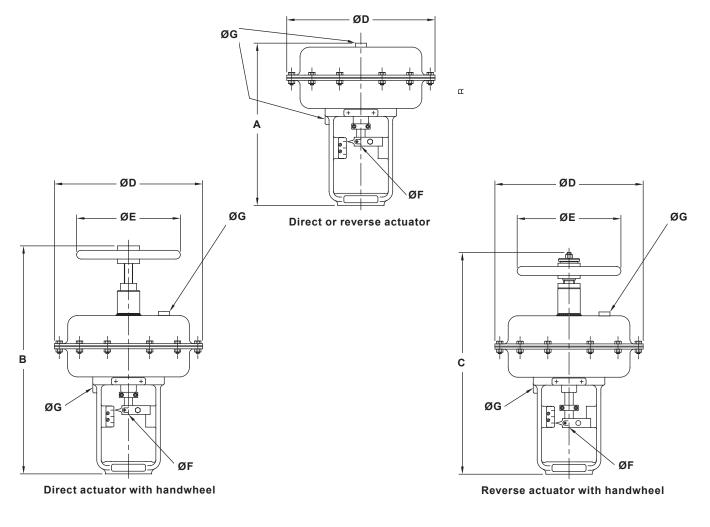


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Size	A	В	С	ØD	ØE	ØF (THREADED CON.)	ØG		
02	8.35" (212.09 mm)	11.8" (299.72 mm)	12.2" (309.88 mm)	7.48" (189.99 mm)	6.50" (165.1 mm)	¼"-28UNF	1∕8"-27NPT		
03	9.22" (234.19 mm)	15.3" (388.62 mm)	15.7" (398.78 mm)	11.3" (287.02 mm)	11.3"	¼"-22UNF	¼"-18NPT		
06	12.3" (312.42 mm)	18.4" (467.36 mm)	18.7" (474.98 mm)		9.26"	3∕%"-24UNF	¼"-18NPT		
07	13.4" (340.36 mm)	19.4" (492.76 mm)	19.8" (502.92 mm)	_ 13.3" (337.82 mm)	13.3"		(235.20 mm)	%"-24UNF	¼"-18NPT
08	13.8" (350.52 mm)	19.9" (505.46 mm)	20.3" (515.62 mm)				1⁄2"-20UNF	¼"-18NPT	
09	17.5" (444.5 mm)	24.9" (632.46 mm)	25.9" (657.86 mm)	16.2" (411.48 mm)	13.4" (340.36 mm)	½"-20UNF	¼"-18NPT		
10	19.5" (495.3 mm)	28.0" (711.2 mm)	26.8" (680.72 mm)	18.8" (477.52 mm)	18.9" (472.44 mm)	¾"-16UNF	¼"-18NPT		

Accessories

Pneumatic positioner, electro-pneumatic positioner, smart positioner, air filter/regulator, limit switch, electro-pneumatic transducer, solenoid valve, and others.

