CONOFLOW PNEUMATIC LEVER ACTUATORS GB52SC -GB53SC Series



Conoflow's Pneumatic Lever Actuators are rugged and powerful units used to automatically position dampers, louvers, variable pitch fans and to make various mechanical adjustments to process machinery. Low profile (only 18" high) requires less headroom. A sturdy ductile iron yoke with large mounting base provides rigid mounting. The steel lever arm has eight take-off positions for stroke flexibility.

The Lever Actuator is a combination piston actuator and lever mechanism. These actuators are available in piston diameters of 6" and 8" with a maximum lever travel of 12". Force produced is a function of the supply pressure which may be varied from 20 to 100 PSI (137 to 690 kPa) and the lever take-off position.

The actuator assembly is completely enclosed to protect all moving parts from corrosive atmospheres and adverse weather conditions. All exterior parts are coated with a corrosion-resistant paint.

OPTIONAL ACCESSORIES:

- Model GFH60XTKEGI Airpak® (Filter-Regulator) with gauge, specify 0-60 or 0-125 PSI (0-414 or 0-861 kPa) range. (Bracket mounting is standard.)
- 2) I/P or E/P Transducer. Specify range. (See Transducer Data Sheets).
- Airlock Feature, Solenoid Valve, Limit Switch and other accessories are available, consult the factory.

DIMENSIONAL DATA - ADVERTISING DRAWINGS:

GB52SC - GB53SC: A7-111

Piping: A50-48

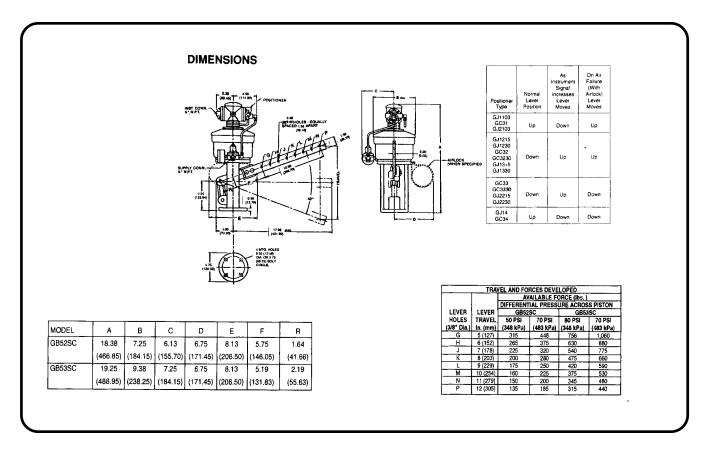
SPECIFICATIONS

OPERATING CHARACTERISTICS	GB52SC(1)		GB53SC(1)			
Piston Diameter	6"		8"			
Effective Area	28.5 sq. in. (183.37 CM ²)		50 sq. in. (322.58 CM ²)			
Air Consumption	Static: 0.30 SCFM (0.008 m ³ /min) at 40 PSI (275 kPa) supply					
w/Positioner	Dynamic: 5.0 SCFM (0.142 m³/min) (max) at 100 PSI (690 kPa) supply					
Positioner	Suitable for all standard instrument air signals; direct or reverse acting, top or bottom loading (2)					
Standard Accessories	Integrally piped cushion-loading regulator and gauge (for units with positioners only)					
(For units with Positoners only)						
	Cylinder: Aluminum Yoke and Base: One Piece Ductile Iron		One Piece Ductile Iron			
Materials of Construction	Piston: Aluminum Lever: Steel					
	Stem: 303 Stainless Steel Fulcrum Arm: Steel		Steel			
	Lipseals: Buna "N" Lev	Lever and Fulcrum Pins: Steel				
Approximate Shipping Weight	30 lbs. (14 Kg)		40 lbs. (18 Kg)			

NOTES:

- 1. For catalog number make-up, refer to Control Engineering Data Sheets.
 - (A) Lever type actuators utilize clevis and fulcrum with 8 take-off positions. Lower stem guide on base assures constant alignment.
 - (B) Lever Actuator mounting is base type with four 1/2" holes on a 3-3/4" bolt circle.
 - (C) Maximum lever travel is 12"
- 2. For proper positioner selection, refer to positioner data sheets.

TRAVEL AND FORCES DEVELOPED						FORMULA FOR FORCES NOT SHOWN IN CHART	
		AVAILABLE FORCE (lbs.) DIFFERENTIAL PRESSURE ACROSS PISTON				Ed. Fores so shown in short (at Impure 4 Dd)	
LEVER					SPISTON	F1 = Force as shown in chart (at known ΔP1) F2 = Force to be determined	
HOLES	LEVER TRAVEL	GB5	GB52SC GB53		3SC	$\Delta P1 = \Delta P$ as shown in chart	
(3/8" Dia.)	IRAVEL	50 PSI	70 PSI	50 PSI	70 PSI	$\Delta P2 = \text{Known } \Delta P \text{ (not shown in chart)}$	
		(345 kPa)	(483 kPa)	(345 kPa)	(483 kPa)		
G	5"	315	445	755	1,060	$F2 = F1(\Delta P2/\Delta P1)$	
Н	6"	265	375	630	880		
J	7"	225	320	540	755	e.g., Force available at 5" (127 mm) travel with 60 PSI (414 kPa)	
K	8"	200	280	475	660	differential across GB53SC Actuator:	
L	9"	175	250	420	590		
M	10"	160	225	375	530	$F2 = 1060 \times 60/70$	
N	11"	150	200	345	480	F2 = 908.5 lbs. of thrust	
Р	12"	135	185	315	440		



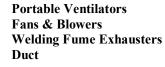
ountain















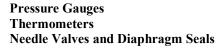
Ball Valves and Actuators Spring Return Electric Actuators Resilient Seated Butterfly Valves High Performance Butterfly Valves











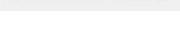






Precision Air Regulators Air, Gas, Steam & Water Regulators Vacuum and Backpressure Regulators I/P and E/P Transducers



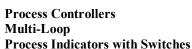


Marshalltown-Tempco

Temperature Indicators Temperature Switches Capillary Bulb Type



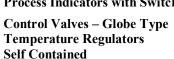














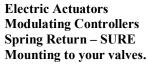




Temperature Controllers











Ball Valves – 3-piece **Pneumatic Actuators Electric Actuators Specialty Valves** Flow Controls, Inc.







Valve **Actuator Mounting** Solenoid Valves Water - Air - Hot Water - Steam **Pilot Valves**

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