



Cert. No. LRQ 0963008

ISO 9001

spirax sarco

TI-P357-21
CH Issue 2

PN2000 Series Spring Retract Pneumatic Actuators (for 'C' Series Valves)

Description

A range of single spring linear actuators having 5 diaphragm sizes for matching the requirements of different valves at various differential pressures. Each actuator is fitted with a combined mechanical stroke indicator and anti-rotation guard. The actuators are designed for easy conversion from spring retract to spring extend, and vice versa, without the need for special tools. These actuators are designed to be used with 'C' series 2-port control valves.

Available types

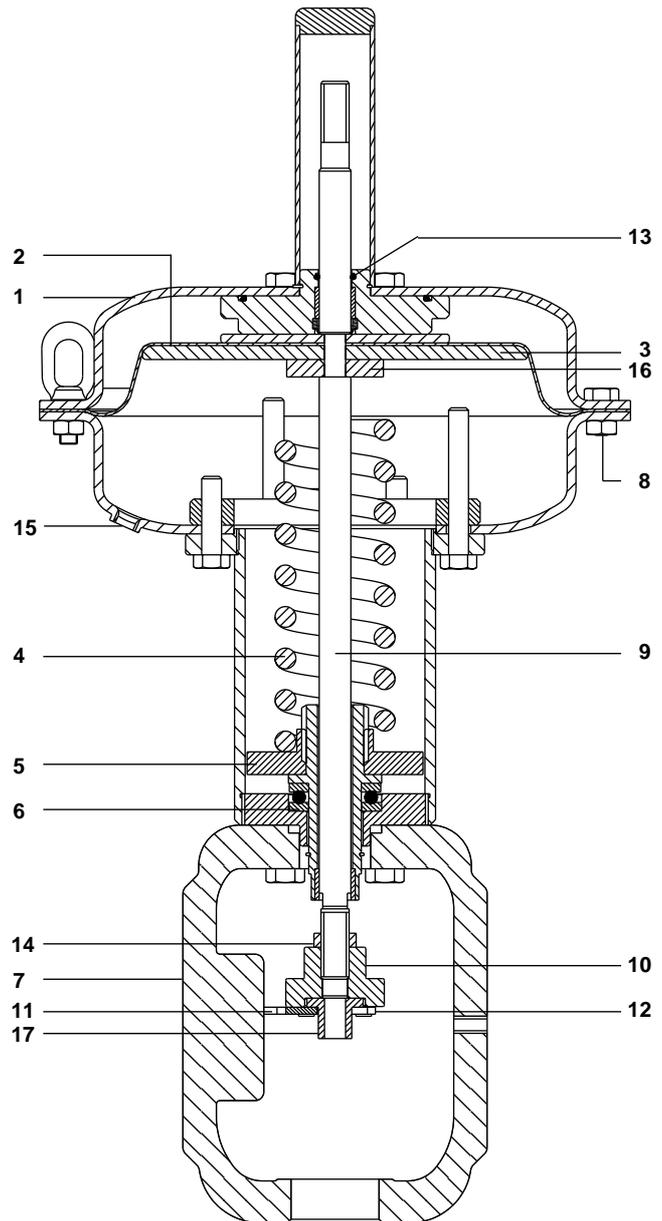
Spring retract spindle actuators:
PN2300, PN2400, PN2500, PN2600 and PN2700 series.

Technical data

Temperature range	-4°F to 230°F (-20°C to +110°C)
Maximum operating pressure	44 psi (3 bar)
Air supply connection	PN2300 to PN2600 ¼" NPT PN2700 ½" NPT

Materials

No.	Part	Material
1	Diaphragm housing	Carbon steel
2	Diaphragm	Reinforced nitrile rubber
3	Diaphragm plate	Stainless steel
4	Spring	Spring steel
5	Spindle guide	Bronze
6	DU bearing	Hardened steel
7	Yoke	Cast steel
8	Housing securing nuts and bolts	Zinc plated steel
9	Spindle	Stainless steel
10	Connector	Zinc plated steel
11	Travel indicator	Stainless steel
12	Lock plate	Zinc plated steel
13	'O' ring	Nitrile rubber
14	Lock-nut	Zinc plated steel
15	Cap with vent hole	Nickel plated brass
16	Spring location washer	Zinc plated steel
17	Valve spindle adapter	Stainless steel



Dimensions/weights (approximately) in inches (mm) and pounds (kg)

Actuator	Actuator diaphragm			D Actuator yoke			E Actuator spring holder		Weight
	A	B	C	Type A	Type B	Type C	Type 1	Type 2	
PN2300	11¼" (285)	4⅝" (109)	6⅞" (175)	9" (231)	9¼" (247)	11¼" (299)	6⅞" (167)	8" (204)	51 (23)
PN2400	13¼" (336)	5⅞" (142)	6⅞" (175)	9" (231)	9¼" (247)	11¼" (299)	6⅞" (167)	8" (204)	73 (33)
PN2500	16" (405)	7⅞" (180)	6⅞" (175)	9" (231)	9¼" (247)	11¼" (299)	6⅞" (167)	8" (204)	121 (55)
PN2600	18⅝" (465)	7⅞" (180)	7⅞" (200)	9" (231)	9¼" (247)	11¼" (299)	6⅞" (167)	8" (204)	154 (70)
PN2700	Contact Sales at Spirax Sarco for further information.								

Installation

Actuators should be mounted on the valve with the stem in a vertical position. Installation and Maintenance Instructions are supplied with the product.

Spare parts

Information regarding available spare parts is shown in separate literature.

PN2000 series actuator selection table

Actuators can be selected using the differential pressure charts shown in the relevant Technical Information sheet in conjunction with the following part codes:

Actuation	PN = Pneumatic	PN
Actuator action	2 = Spring to retract	2
Diaphragm size	3	
	4	
	5	5
	6	
	7	
Actuator travel	2 = ¾" (20 mm)	
	3 = 1⅜" (30 mm)	
	4 = 1½" (38 mm)	2
	5 = 2" (50 mm)	
Spring range	7 = 3" (75 mm)	
	0 = 3 to 15 psi (0.2 to 1.0 bar)	0
Yoke type	A = Type A for valve sizes: 1" to 2" (DN25 - 50)	A
	B = Type B for valve sizes: 2½" to 4" (DN65 - 100)	
	C = Type C for valve sizes: 5" to 8" (DN125 to 200)	
Spring-holder size	1 = Type 1 2 = Type 2	2
PN 2 5 2 0 A 2		

How to order

Example: 1 off Spirax Sarco PN2520A2 actuator, set to 0.2 to 1.0 bar.

