

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

### **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:

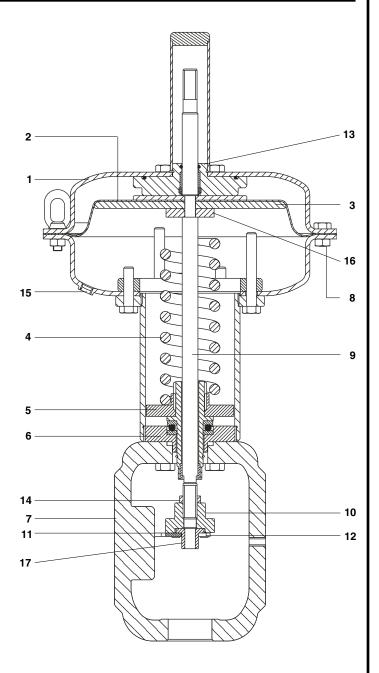
PN2300, PN2400, PN2500, PN2600 and PN2700 series.

### **Technical data**

Temperature range		-4°F to 230°F	(-20°C to +110°C)		
Maximum operating pressure		44 psi	(3 bar)		
Air supply	PN2300 to PN2600	1/4" NPT			
connection	PN2700	1/2" 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	Zinc plated steel		
	and bolts	Zine 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		



# **PN2000 Series Spring Retract Pneumatic Actuators (for 'C' Series)**

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

					D		E		
Actuator	tuator Actuator diaphragm			Actuator yoke			Actuator spring holder		Weight
	Α	В	С	Type A	Type B	Type C	Type 1	Type 2	
PN2300	11-1/4" <i>(285)</i>	4-5/16" <i>(109)</i>	6-7/8" <i>(175)</i>	9" <i>(231)</i>	9-3/4" (247)	11-3/4" <i>(299)</i>	6-9/16" <i>(167)</i>	8" <i>(204)</i>	51 <i>(23)</i>
PN2400	13-1/4" <i>(336)</i>	5-9/16" <i>(142)</i>	6-7/8" <i>(175)</i>	9" (231)	9-3/4" (247)	11-3/4" (299)	6-9/16" <i>(167)</i>	8" (204)	73 (33)
PN2500	16" <i>(405)</i>	7-1/16" <i>(180)</i>	6-7/8" <i>(175)</i>	9" <i>(231)</i>	9-3/4" (247)	11-3/4" (299)	6-9/16" <i>(167)</i>	8" (204)	121 <i>(55)</i>
PN2600	18-5/16" <i>(465)</i>	7-1/16" <i>(180)</i>	7-7/8" (200)	9" <i>(231)</i>	9-3/4" (247)	11-3/4" <i>(299)</i>	6-9/16" <i>(167)</i>	8" <i>(204)</i>	154 <i>(70)</i>
PN2700	Contact Sal	es at Spirax Sarco	for further inform	nation.					

### 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	=	Pneuma	tic		PN
Actuator action	2	=	Spring to	retrac	t	2
	3					=
	4					5
Diaphragm size	5					
	6					
	7					_
	2	=	3/4"	(20 m	m)	
	3	=	1-3/16"	(30 m	m)	
Actuator travel	4	=	1-1/2"	(38 m	m)	2
	5	=	2"	(50 m	m)	
	7	=	3"	(75 m	m)	
Spring range	0	=	3 to 15 p	osi (0.2	to 1.0 bar)	0
	Α	=	Type A f	or valve	e sizes:	-
			1" to 2"	(DN25	- 50)	
Yoke type	В	=	Type B f	or valve	sizes:	Α
			2-1/2" to	4" (DN	165 - 100)	
	С	=	Type C f	or valve	e sizes:	
			5" to 8"	(DN125	to 200)	
	1	=	Type 1		,	
Spring-holder size	2	=	Type 2			2
						_
PN 2		5	2	0	Α	2

# C C spiray, arco

### How to order

Example: 1 off Spirax Sarco PN2520A2 actuator, set to 3-15 psi.