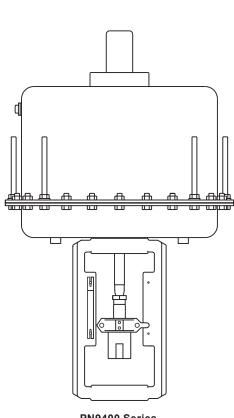


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PN9400 Series Pneumatic Actuators for Spira-trol[™]

K and L Series DN125-DN300, C Series and QL Series



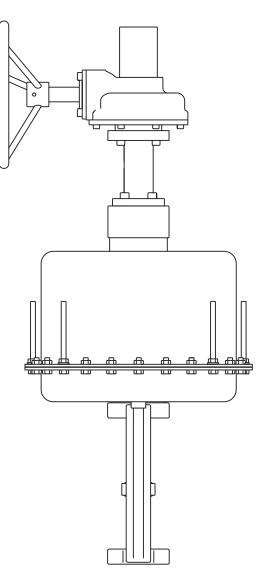
PN9400 Series

Description

The PN9400 series are a compact range of linear pneumatic actuators. They have been designed for matching the requirements of valves at various differential pressures. Each actuator is fitted with a mechanical travel indicator and incorporates a fully-rolling diaphragm, which provides good linearity over the operating stroke.

Available types and options

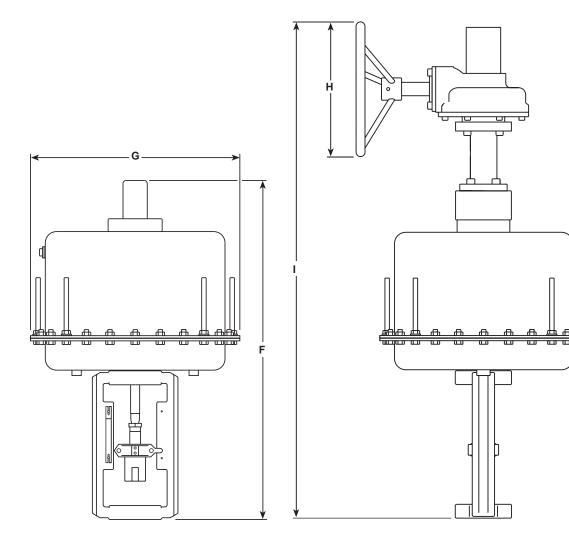
See the 'PN9400 series selection guide' on page 2, to fully understand the product nomenclature quoted throughout this document.



PN9400 Series with handwheel

Technical data

| Temperature range | -20 °C to +80 °C |
|----------------------------------|------------------|
| Maximum operating inlet pressure | 4 bar g |
| Air supply connection | 2 x ½" NPT |
| Actuator travel | 80 mm |



Dimensions/weights (approximate) in mm and kg

| Actuator | | F | G | н | I | Weight | | |
|----------------------|---------|-----|-----|-----|------|--------|----------------|--|
| | | | | | | | With handwheel | |
| PN9400E and variants | PN94_6E | 732 | 465 | 300 | 1120 | 60 | 30 | |
| | PN94_3E | 732 | 465 | 300 | 1120 | 60 | 30 | |
| PN9400R and variants | PN94_6R | 732 | 465 | 300 | 1050 | 60 | 28 | |
| | PN94_3R | 732 | 465 | 300 | 1050 | 60 | 28 | |

PN9400 series selection guide:

| | - | | | | | | | | |
|---|----------------------------|--------|------------------------------------|----------------|---------------|----|-------------------|------|----|
| Туре | PN | = Poly | Polyester powder coated (standard) | | | | | | PN |
| Series | 9 | = 900 | 9000 series | | | | | | 9 |
| Actuator size | 4 | = 111 | 1 110 cm ² | | | | | | 4 |
| Valve travel | 8 | = 80 r | 0 mm | | | | | | 8 |
| Spring rating and | 3 | = Min | . 1.8 - 3.0 bar | Max. F | orce 20 000 N | Δr | Area of diaphragm | | 3 |
| Actuator force in relation to the motive air pressure | 6 | | | | | | | giii | |
| Onvine estim | E = Spring-extend (Closed) | | | | | | | | E |
| Spring action | R | = Spri | ing-retract (Op | retract (Open) | | | | | |
| Optional - Bolting | S = Stainless steel | | | | | | | | |
| Optional - Handwheel | н | = Han | ldwheel | | | | | | |
| | | | | | | _ | | | |
| Selection example: | I | PN | 9 | 4 | 8 | 3 | E | - | - |

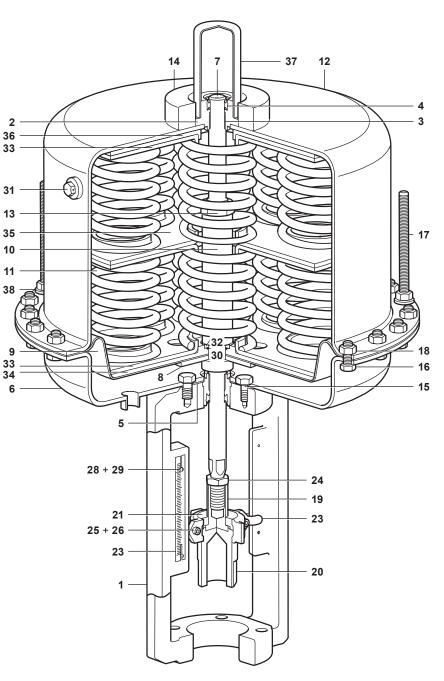
How to order example: 1 off Spirax Sarco PN9483E pneumatic piston actuator.

spirax /sarco

PN9400 Series Pneumatic Actuators for Spira-trol[™] K and L Series DN125-DN300, C Series and QL Series

Materials

| No. | Part | Material |
|-----|-------------------------------|----------------------|
| 1 | Yoke | SG iron |
| 2 | Bearing and sea insert | l Carbon steel |
| 3 | Bearing | PTFE/steel composite |
| 4 | Seal | Polyurethane |
| 5 | Gasket | Reinforced graphite |
| 6 | Housing lower | Carbon steel |
| 7 | Spindle | Stainless steel |
| 8 | Diaphragm protection plate | Carbon steel |
| 9 | Diaphragm | Reinforced NBR |
| 10 | Spacer | Carbon steel |
| 11 | Spring | Carbon steel |
| 12 | Housing upper | Carbon steel |
| 13 | Lock-nut | Carbon steel |
| 14 | Up guide | Carbon steel |
| 15 | Screw | Carbon steel |
| 16 | Screw | Carbon steel |
| 17 | Screw | Carbon steel |
| 18 | Nut | Carbon steel |
| 19 | Connector | Stainless steel |
| 20 | Adaptor | Stainless steel |
| 21 | Collar | Stainless steel |
| 22 | Clamp | Stainless steel |
| 23 | Scale | Stainless steel |
| 24 | Lock-nut | Carbon steel |
| 25 | Screw | Carbon steel |
| 26 | Nut | Carbon steel |
| 27 | Screw | Carbon steel |
| 28 | Nut | Carbon steel |
| 29 | Screw | Carbon steel |
| 30 | 'O' ring | Viton |
| 31 | Vent plug | Brass |
| 32 | Washer 'O' ring | Carbon steel |
| 33 | Intermediate plate | Carbon steel |
| 34 | Diaphragm guide plate | Carbon steel |
| 35 | Spring plate | Carbon steel |
| 36 | Spring guide plate | Carbon steel |
| 37 | Cap protection | Plastic |
| 38 | Washer | Carbon steel |
| | | |



Spare parts

The only spare parts available are clearly indicated below and are common for both spring-extend and spring-retract versions.

Available spares

| Stem seal kit | 3 , 4 and 5 |
|----------------------|---|
| Diaphragm kit | 9 and 30 |
| Travel indicator kit | 23, 28 and 29 |
| Spring kit | 11 |
| Linkage | 19 , 20 , 21 , 22 , 25 and 26 |
| Handwheel | |

How to order spares

Always order spares by using the description given in the column headed 'Available spares' and state the model.

Example: 1 off Spring kit for a PN9483E pneumatic piston actuator.

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