

DIAPHRAGM MULTI-SPRING PNEUMATIC ACTUATORS TYPE P2/R2

APPLICATION AREA

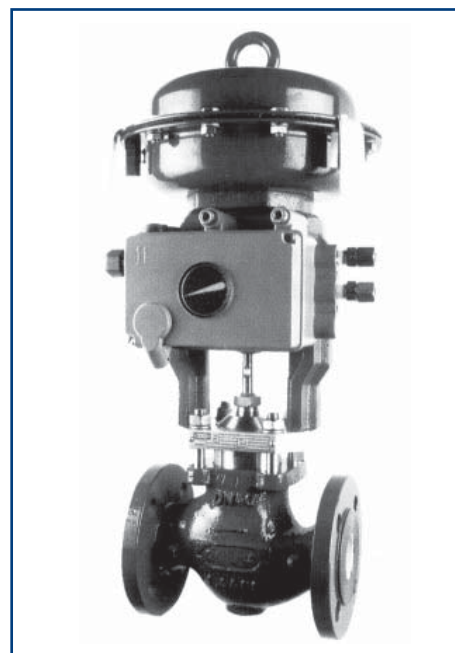
Multi-spring diaphragm pneumatic actuators type P2/R2 are applied for control operation of control valves and other positioning elements in industrial automatic systems.

They are manufactured in following variants:

- direct action (air - advances the stem) - type P2,
- reverse action (air - retracts the stem) - type R2.
- direct action, with handwheel - type P2N
- reverse action, with handwheel - type R2N

FEATURES

- optional direct installation of positioners type SRD 991 by FOXBORO-ECKARDT (smart positioner) and type SRI 990 (analog positioner),
- completely reversible action, option to change spring range w/o extra parts,
- rigid structure of cast yoke,
- wide range of available forces,
- linear dependence of stem movement from control pressure, due to application of diaphragms with constant effective area,
- various spring ranges achieved by changing the number of springs and/or changing position of spacer elements,
- optional installation of top mounted handwheel, and various accessories both integrated and additional,
- no external connections with impulse piping between the adjusting unit and the actuator (refers to R2 only),
- high strength of diaphragms, springs and packings,
- small size and weight



TECHNICAL SPECIFICATION

- | | | |
|-------------------------|--|--|
| - input signal range: | 20...100 kPa; 40...120 kPa; 60...140 kPa
40...200 kPa; 80...240 kPa; 120...280 kPa
180...380 kPa | - 3 springs
- 6 springs
- 12 springs |
| - max. supply pressure: | up to 600 kPa | |
| - working temperature: | - 40...+80°C | |
| - relative humidity: | max. 98% | |

Diaphragm effective area	Stroke	Spring range
[cm ²]	[mm]	[kPa]
250	20	1...6
400		
630	20; 38	1...7

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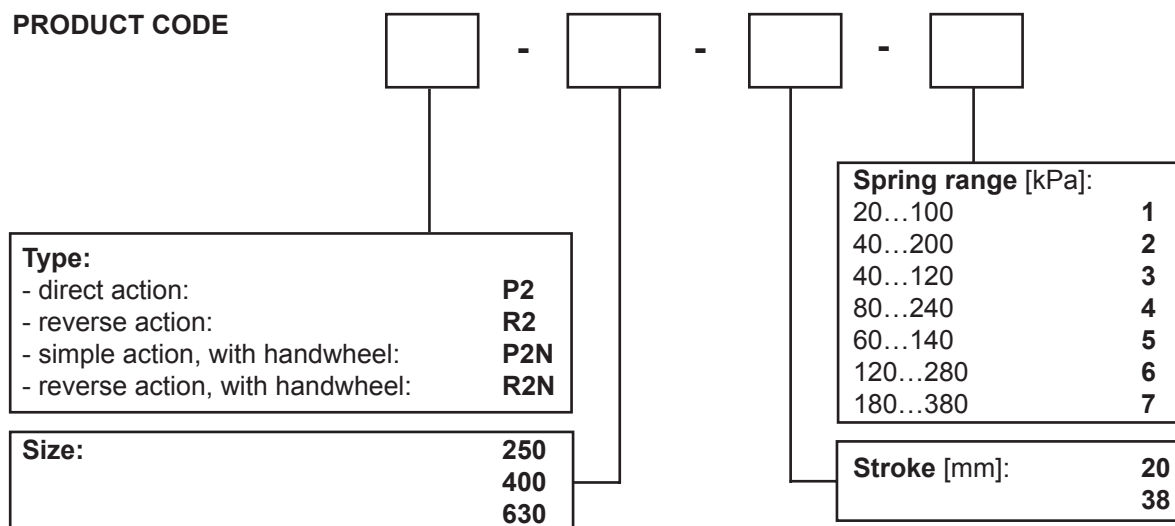
CHARACTERISTICS OF POSITIONER TYPE SRD 991

- smart electro-pneumatic positioner,
- autostart with autocalibration,
- autodiagnosics,
- communication in three modes: none, HART, FOXCOM,
- low air consumption,
- button, manual terminal, PC system or digital-analog control,
- vibration resistant,
- easy three button operation,
- mechanic position indicator,
- independent limit switches on request,
- pressure sensors, power boosters, allowing acceleration of operation.

TECHNICAL SPECIFICATIONS OF POSITIONER

- input signal	4...20 [mA]
- protection class	IP 65
- optional spark-proof execution	EExia IICT4 / EExia IICT6
- dead zone	≤ 0.1%
- hysteresis	≤ 0.3%
- ambient temperature	-40...+80°C

PRODUCT CODE



Marking example:

Reverse action pneumatic actuator with handwheel drive, size 400, stroke 20 mm, control pressure range 40...200 kPa.

R2N - 400 - 20 - 2