

# Serie SPRA Electric Rod-Style Actuators Ø 100

R481633889

- Multi-positioning with high level of precision and repeatability
- Available in size 32, 40, 63 and 100
- High product versatility with three different screw technologies to cover a wide range of application requirements
- Flexibility in mounting cylinders - Compliant with ISO 15552 standard and wide range of accessories available
- Easily size and customize your electrical actuator solution with inter-connected online tools and configurator

## Serie SPRA Electric Rod-Style Actuators

The AVENTICS Series SPRA electric rod-style actuators are the ideal solution to perform fast and powerful linear movements. They are very flexible, precise and energy efficient, improving sustainability and Total Cost of Ownership (TCO). The modular concept of the Series SPRA enables easy connection to your preferred motor and control system, saving you time and costs on design and programming. The Series SPRA is ISO 15552 compliant and uses high-grade materials such as a IP54S sealing system, ensuring a high level of reliability even in harsh conditions.



## Technical data

|                           |                     |
|---------------------------|---------------------|
| Industry                  | Industrial          |
| Piston Ø                  | 100 mm              |
| Piston rod thread         | M27x2               |
| Note                      | SPRA-BL             |
| Max. dynamic axial force  | 60 kN               |
| Max. static axial force   | 60 kN               |
| Max. dyn. axial force L10 | 60 kN               |
| Dynamic load capacity     | 41.3 kN             |
| Max. torque (for Fmax)    | 225 Nm              |
| Max. linear speed         | 750 mm/s            |
| Max. rotational speed     | 2250 1/min          |
| Max. acceleration         | 12 m/s <sup>2</sup> |
| Duty cycle                | 100 %               |

## Mechanical data

|                |            |
|----------------|------------|
| Screw type     | Ball screw |
| Screw diameter | 40 mm      |
| Screw lead     | 20 mm      |
| Lead accuracy  | G9         |

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|                              |                                        |
|------------------------------|----------------------------------------|
| Stroke                       | 600 mm                                 |
| Internal overstroke (double) | 2 mm                                   |
| Backlash                     | 0.2 mm                                 |
| Efficiency [%]               | >85                                    |
| Inertia at 0 mm stroke       | $0.00051 \cdot 10^{-4} \text{ kgm}^2$  |
| Inertia per 100 mm stroke    | $0.000138 \cdot 10^{-4} \text{ kgm}^2$ |
| Weight 0 mm stroke           | 12.3 kg                                |
| Weight +100 mm stroke        | 2.7 kg                                 |

## Environmental requirements

|                          |        |
|--------------------------|--------|
| Protection class         | IP54S  |
| Max. humidity            | 95 %   |
| Min. ambient temperature | -20 °C |
| Max. ambient temperature | 50 °C  |

## Material

|          |            |
|----------|------------|
| Part No. | R481633889 |
|----------|------------|

## Dimensions in mm



S = stroke  
\* Nominal stroke  
t = depth

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| KK      | SW2   | J5 mm | ZA      | ZB    | B -0,1 /<br>-0,35 | D10 | AM | D12 -0,02 /<br>-0,07 | D11                           |
|---------|-------|-------|---------|-------|-------------------|-----|----|----------------------|-------------------------------|
| M27 x 2 | AF 46 | #104  | 287±1.5 | 326±2 | Ø90               | Ø58 | 50 | Ø80                  | DIN5480<br>W<br>30x1.25x22x8f |

## Pressure characteristics curve

