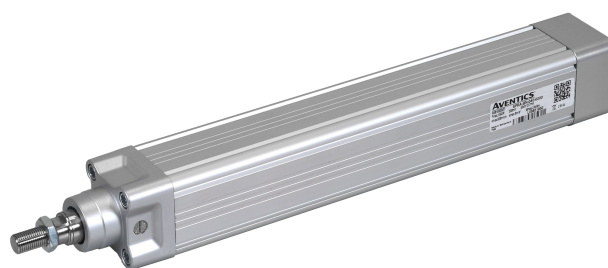


# Series SPRA Electric Rod-Style Actuators

## R481633820

General series information  
Series 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	40 mm
Piston rod thread	M12x1,25
Max. dynamic axial force	2.375 kN
Max. static axial force	2.375 kN
Dynamic load capacity	4.8 kN
Max. torque (for Fmax)	2.22 Nm
Max. linear speed	300 mm/s
Max. rotational speed	3600 1/min
Max. acceleration	6 m/s <sup>2</sup>
Duty cycle	100 %

### Mechanical data

Screw type	Ball screw
Screw diameter	12 mm
Screw lead	5 mm
Lead accuracy	G7
Stroke	100 mm

Internal overstroke (double)	1 mm
Backlash	0.07 mm
Efficiency [%]	85
Inertia at 0 mm stroke	$0.1246 \cdot 10^{-4} \text{ kgm}^2$
Inertia per 100 mm stroke	$0.0103 \cdot 10^{-4} \text{ kgm}^2$
Weight 0 mm stroke	1.26 kg
Weight +100 mm stroke	0.46 kg

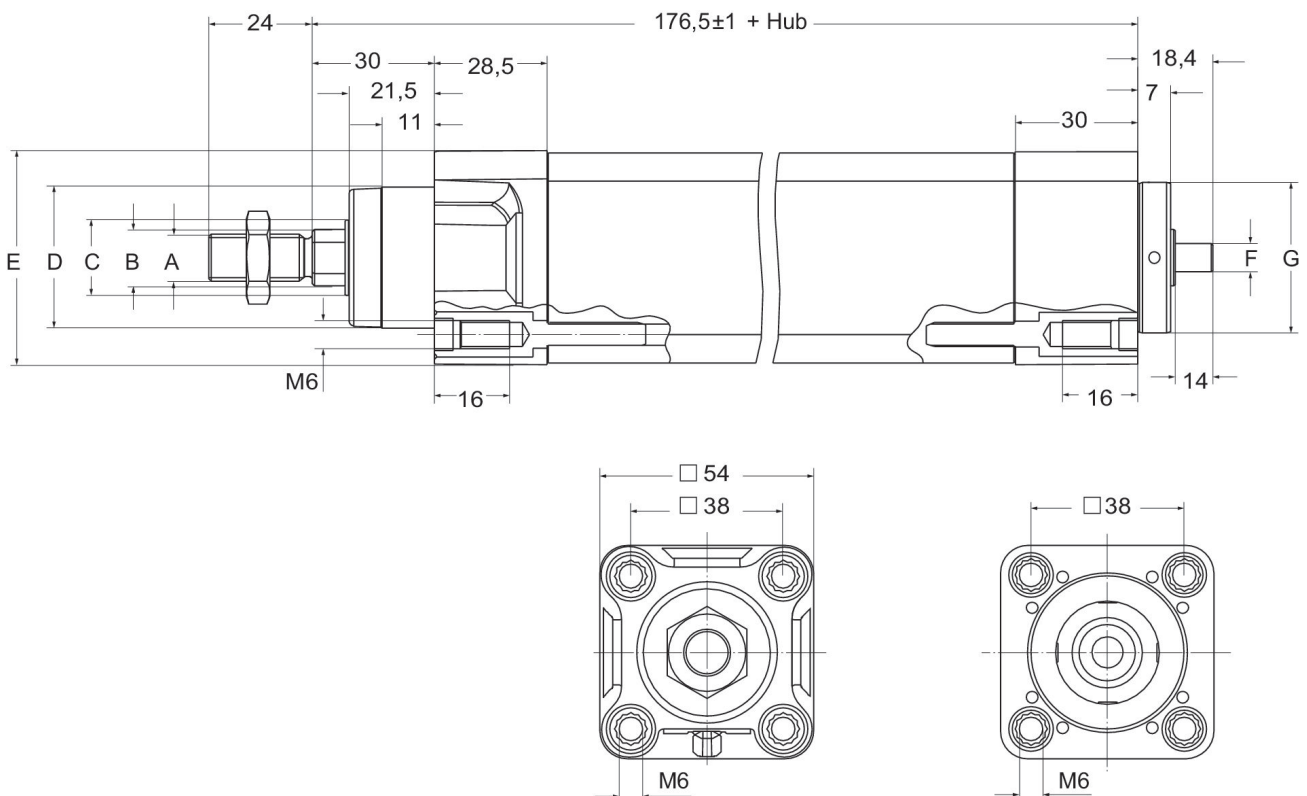
### Environmental requirements

Standardization	ISO 15552
Protection class	IP54S
Max. humidity	95 %
Min. ambient temperature	0 °C
Max. ambient temperature	50 °C

### Material

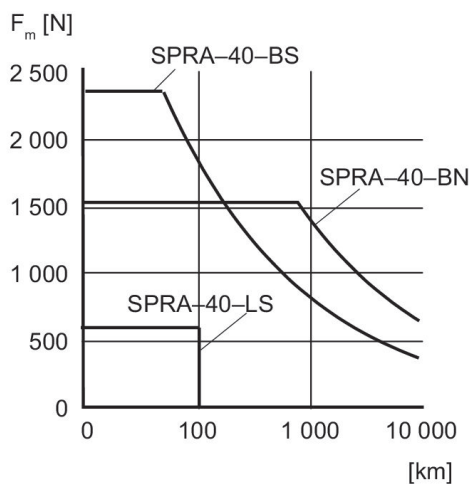
Part No. R481633820

### Dimensions in mm

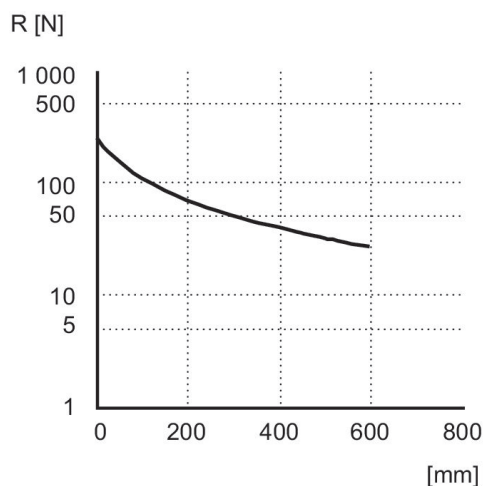


	A	B mm	C	D	E	F	G -0,09 / -0,1
SPRA-40	M12 x 1,25	Ø16	Ø20	Ø35 d11	54,3	Ø8 h6	Ø40

### Pressure characteristics curve



### Diagram



### Diagram

