

- Wide product range
- High energy absorption and extended life time
- Improved surface protection against corrosion
- Integrated end stop

AVENTICS Series SA1 Industrial shock absorbers

The AVENTICS Series SA1 industrial shock absorbers decelerate reliably moving masses and thereby increase process speed, production quality, the service life of production facilities and reduce operating noise.



Technical data

Industry	Industrial
Type	SA1-MA
Mounting thread	M12x1
Stroke	12 mm
Max. energy absorption/stroke	22 Nm
Max. energy absorption/hour	35200 Nm
Cushioning	adjustable
Medium	Oil
Min. ambient temperature	-20 °C
Max. ambient temperature	80 °C
Effective mass m_e min.	9 kg
Effective mass m_e max.	800 kg
Min. return spring force	2.5 N
Max. return spring force	7 N
Min. impact speed	0.2 m/s
Max. impact speed	3.5 m/s
Mounting	Lock nut
Weight	0.036 kg

Industrial shock absorber, Series SA1-MA

Series SA1

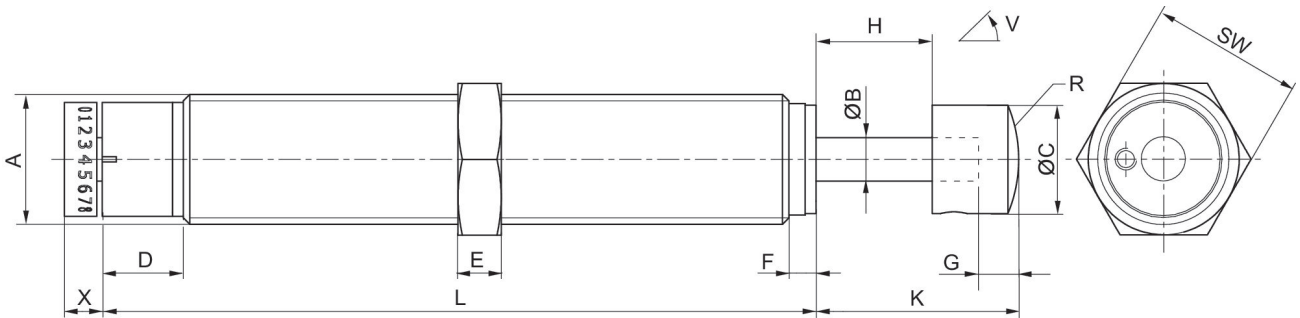
R412010322

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Material

Material cylinder tube	Steel, chrome-plated
Surface cylinder tube	salt bath nitrocarburized
Material piston rod	Stainless Steel
Surface piston rod	ground and hardened
Material stop	Steel, chrome-plated
Surface stop	hardened and bronzed
Material lock nut	Steel, chrome-plated
Surface lock nut	salt bath nitrocarburized
Scraper material	Polyurethane
Part No.	R412010322

Dimensions



A = mounting thread
V = tilt

Part No.	Type	Mounting thread	ØB	ØC	D	E	F	G	H
R412010322	SA1-MA	M12x1	4	10	7.5	4	2.5	4	12

Part No.	K	L	R	SW	W [°]	X
R412010322	20	66	13	14	3	3.5