

Industrial shock absorber, Series SA1-MC

- Cushioning self-compensating
- Mounting Lock nut
- Mounting thread M6x0,5 M8x1 M10x1 M12x1
- SA1-MC



Ambient temperature min./max.

Medium

Mounting

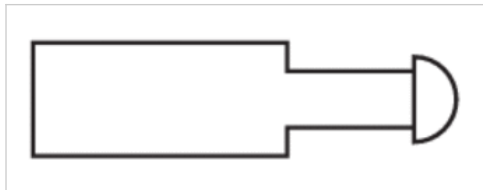
Weight

-20 ... 80 °C

Oil

Lock nut

See table below



Technical data

Part No.	Mounting thread	Stroke	Max. energy absorption/stroke	Max. energy absorption/hour
R412010284	M6x0,5	5 mm	1 Nm	3000 Nm
R412010285	M6x0,5	5 mm	1 Nm	3000 Nm
R412010286	M8x1	5 mm	1,5 Nm	4000 Nm
R412010287	M8x1	5 mm	1,5 Nm	4000 Nm
R412010288	M10x1	8 mm	10 Nm	24000 Nm
R412010289	M10x1	8 mm	10 Nm	24000 Nm
R412010290	M10x1	8 mm	10 Nm	24000 Nm
R412010291	M12x1	10 mm	14 Nm	30000 Nm
R412010292	M12x1	10 mm	14 Nm	30000 Nm
R412010293	M12x1	10 mm	14 Nm	30000 Nm

Part No.	Effective mass me	Return spring force	sealing for piston rod
	min./max.	min./max.	
R412010284	0,8 ... 2,8 kg	2 ... 5 N	Polyurethane
R412010285	1,5 ... 4 kg	2 ... 5 N	Polyurethane
R412010286	0,5 ... 4 kg	2 ... 5 N	Acrylonitrile butadiene rubber
R412010287	0,8 ... 6 kg	2 ... 5 N	Acrylonitrile butadiene rubber
R412010288	1,3 ... 5,3 kg	3,6 ... 8 N	Acrylonitrile butadiene rubber
R412010289	4,3 ... 20 kg	3,6 ... 8 N	Acrylonitrile butadiene rubber
R412010290	16,5 ... 47 kg	3,6 ... 8 N	Acrylonitrile butadiene rubber

Part No.	Effective mass me	Return spring force	sealing for piston rod
	min./max.	min./max.	
R412010291	0,5 ... 1,8 kg	3,5 ... 7 N	Acrylonitrile butadiene rubber
R412010292	1,5 ... 7,7 kg	3,5 ... 7 N	Acrylonitrile butadiene rubber
R412010293	5 ... 57 kg	3,5 ... 7 N	Acrylonitrile butadiene rubber

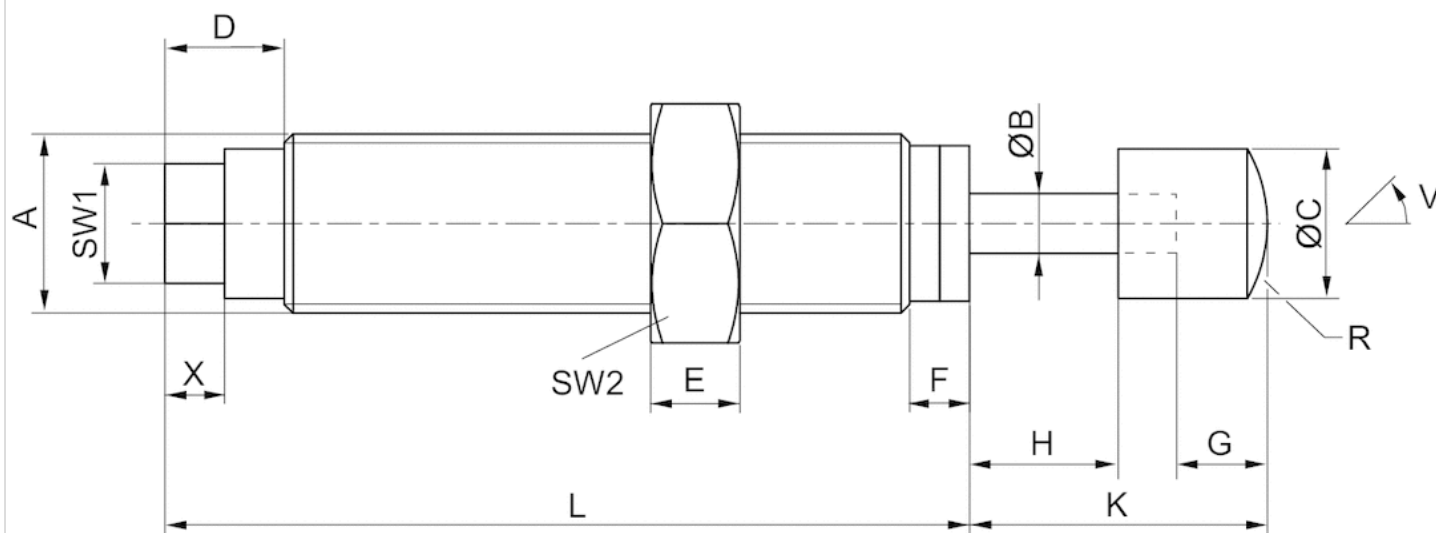
Part No.	Stop	Weight	Fig.
R412010284	Polyoxymethylene	0,003 kg	Fig. 1
R412010285	Polyoxymethylene	0,003 kg	Fig. 1
R412010286	Polyurethane Steel	0,007 kg	Fig. 2
R412010287	Polyurethane Steel	0,007 kg	Fig. 2
R412010288	Polyurethane Steel	0,02 kg	Fig. 3
R412010289	Polyurethane Steel	0,02 kg	Fig. 3
R412010290	Polyurethane Steel	0,02 kg	Fig. 3
R412010291	Polyurethane Steel	0,036 kg	Fig. 4
R412010292	Polyurethane Steel	0,036 kg	Fig. 4
R412010293	Polyurethane Steel	0,036 kg	Fig. 4

Technical information

Material	
Cylinder tube	Steel, salt bath nitrocarburized
Piston rod	Stainless steel, ground and hardened
sealing for piston rod	Polyurethane Acrylonitrile butadiene rubber
Lock nut	Steel, salt bath nitrocarburized
Mounting ring	Polyoxymethylene Polyurethane Steel

Dimensions

Fig. 1



A = mounting thread

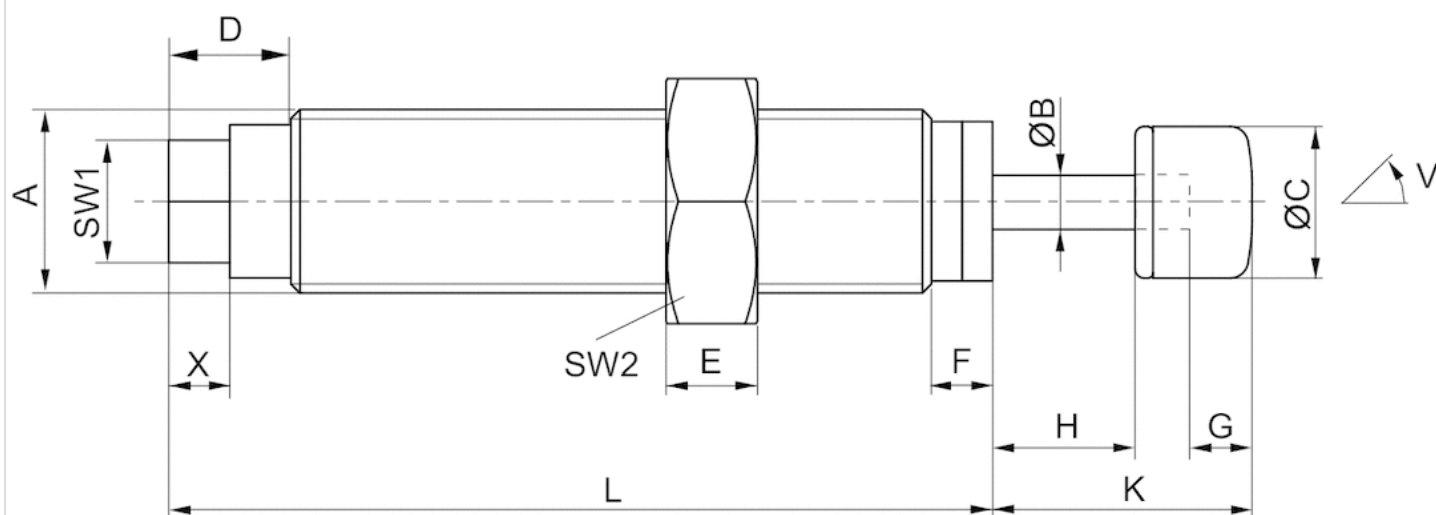
V = tilt

Dimensions

Part No.	Type	Mounting thread	ØB	ØC	D	E	F	G	H	K	L	R	SW1	SW2	W [°]	X
R412010284	SA1-MC	M6x0,5	2	5	4	3	2	2	5	10	27	5	4	8	2	2
R412010285	SA1-MC	M6x0,5	2	5	4	3	2	2	5	10	27	5	4	8	2	2

Dimensions

Fig. 2



A = mounting thread

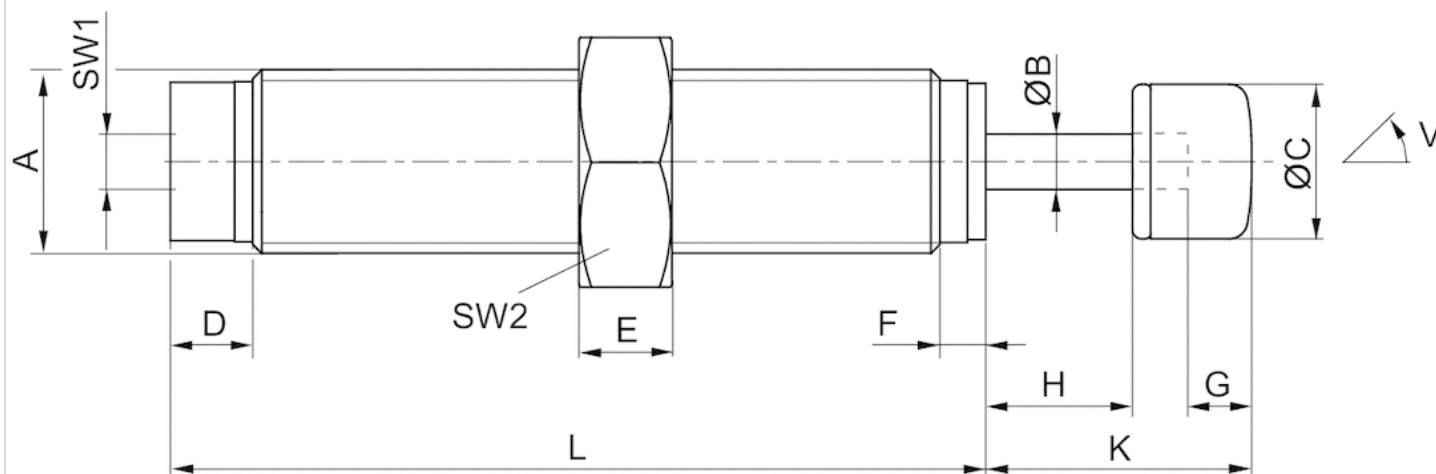
V = tilt

Dimensions

Part No.	Type	Mounting thread	ØB	ØC	D	E	F	G	H	K	L	SW1	SW2	W [°]	X
R412010286	SA1-MC	M8x1	2.3	6.5	6	3	2.5	3	5	11.5	30	5.5	11	3	3
R412010287	SA1-MC	M8x1	2.3	6.5	6	3	2.5	3	5	11.5	30	5.5	11	3	3

Dimensions

Fig. 3



A = mounting thread

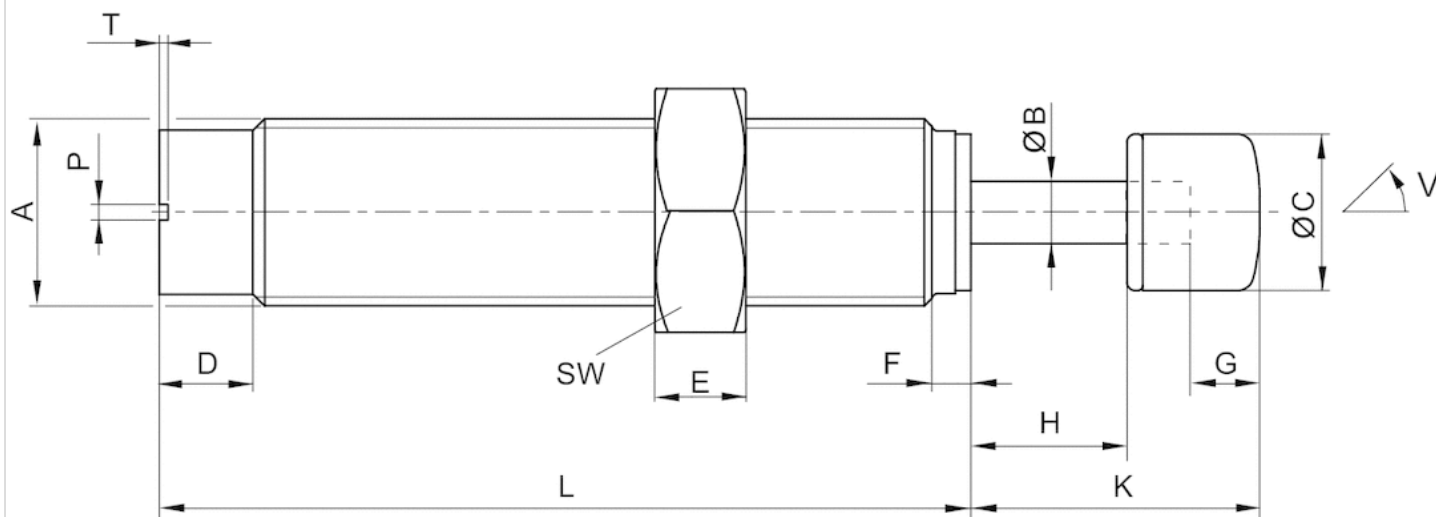
V = tilt

Dimensions

Part No.	Type	Mounting thread	ØB	ØC	D	E	F	G	H	K	L	SW1	SW2	W [°]
R412010288	SA1-MC	M10x1	3	8.4	4.5	3	2.5	3	8	14.5	44.5	3	13	2
R412010289	SA1-MC	M10x1	3	8.4	4.5	3	2.5	3	8	14.5	44.5	3	13	2
R412010290	SA1-MC	M10x1	3	8.4	4.5	3	2.5	3	8	14.5	44.5	3	13	2

Dimensions

Fig. 4



A = mounting thread

V = tilt

Dimensions

Part No.	Type	Mounting thread	ØB	ØC	D	E	F	G	H	K	L	P	T	SW	W [°]
R412010291	SA1-MC	M12x1	4	10	6	4	2.5	4	10	18.5	52	1	0.6	14	2
R412010292	SA1-MC	M12x1	4	10	6	4	2.5	4	10	18.5	52	1	0.6	14	2
R412010293	SA1-MC	M12x1	4	10	6	4	2.5	4	10	18.5	52	1	0.6	14	2

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