

Industrial shock absorber, Series SA1-MC

- Cushioning self-compensating
- Mounting Clamping flange
- Mounting thread M14x1,5 M20x1,5 M25x1,5
- SA1-MC



Ambient temperature min./max.

Medium

Mounting

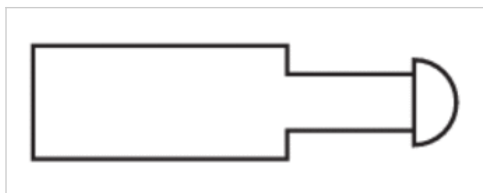
Weight

-20 ... 80 °C

Oil

Clamping flange

See table below



Technical data

Part No.	Mounting thread	Stroke	Max. energy absorption/stroke	Max. energy absorption/hour
R412010313	M14x1,5	14 mm	30 Nm	50000 Nm
R412010314	M14x1,5	14 mm	30 Nm	50000 Nm
R412010315	M14x1,5	14 mm	30 Nm	50000 Nm
R412010316	M20x1,5	13 mm	65 Nm	52000 Nm
R412010317	M20x1,5	13 mm	65 Nm	52000 Nm
R412010319	M25x1,5	25 mm	220 Nm	105600 Nm
R412010318	M20x1,5	13 mm	65 Nm	52000 Nm
R412010320	M25x1,5	25 mm	220 Nm	105600 Nm
R412010321	M25x1,5	25 mm	220 Nm	105600 Nm

Part No.	Effective mass me	Return spring force	Weight	Fig.
	min./max.	min./max.		
R412010313	3,5 ... 17 kg	13 ... 23 N	0,07 kg	Fig. 1
R412010314	9,9 ... 76 kg	13 ... 23 N	0,07 kg	Fig. 1
R412010315	62 ... 252 kg	13 ... 23 N	0,07 kg	Fig. 1
R412010316	7,5 ... 36 kg	12 ... 23 N	0,22 kg	Fig. 2
R412010317	20 ... 160 kg	12 ... 23 N	0,22 kg	Fig. 2
R412010319	24 ... 120 kg	15 ... 31 N	0,37 kg	Fig. 2
R412010318	130 ... 610 kg	12 ... 23 N	0,22 kg	Fig. 2
R412010320	440 ... 2050 kg	15 ... 31 N	0,37 kg	Fig. 2

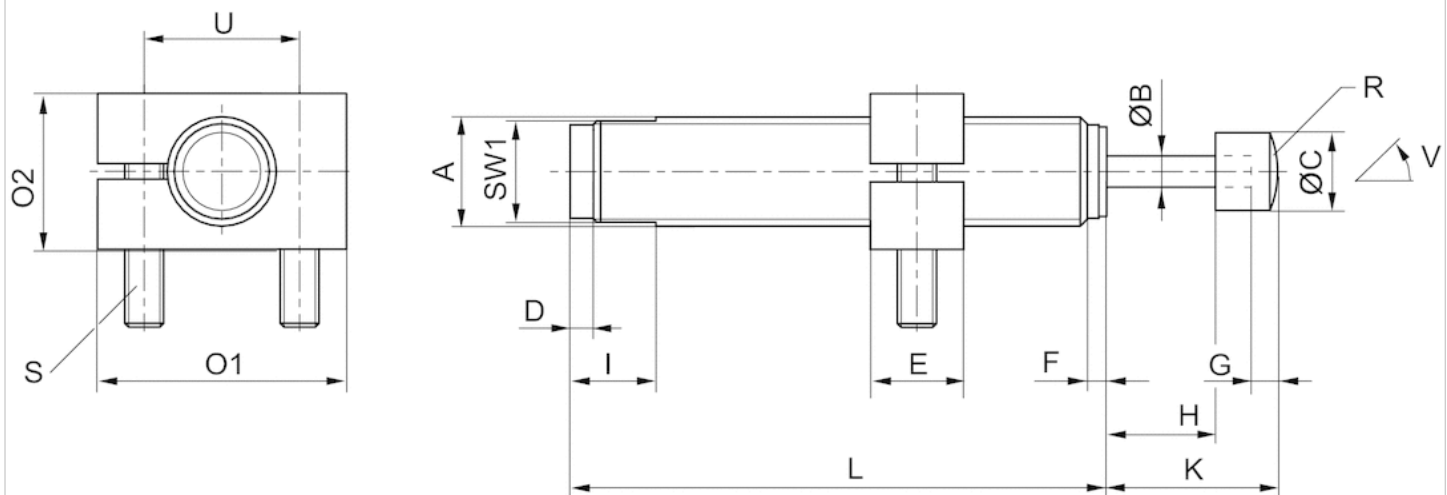
Part No.	Effective mass me	Return spring force	Weight	Fig.
	min./max.	min./max.		
R412010321	1760 ... 10800 kg	15 ... 31 N	0,37 kg	Fig. 2

Technical information

Material	
Cylinder tube	Steel, salt bath nitrocarburized
Piston rod	Stainless steel, ground and hardened
Clamping flange	Steel, salt bath nitrocarburized
Mounting ring	Polyoxymethylene
Scraper	Polyurethane

Dimensions

Fig. 1



A = mounting thread

V = tilt

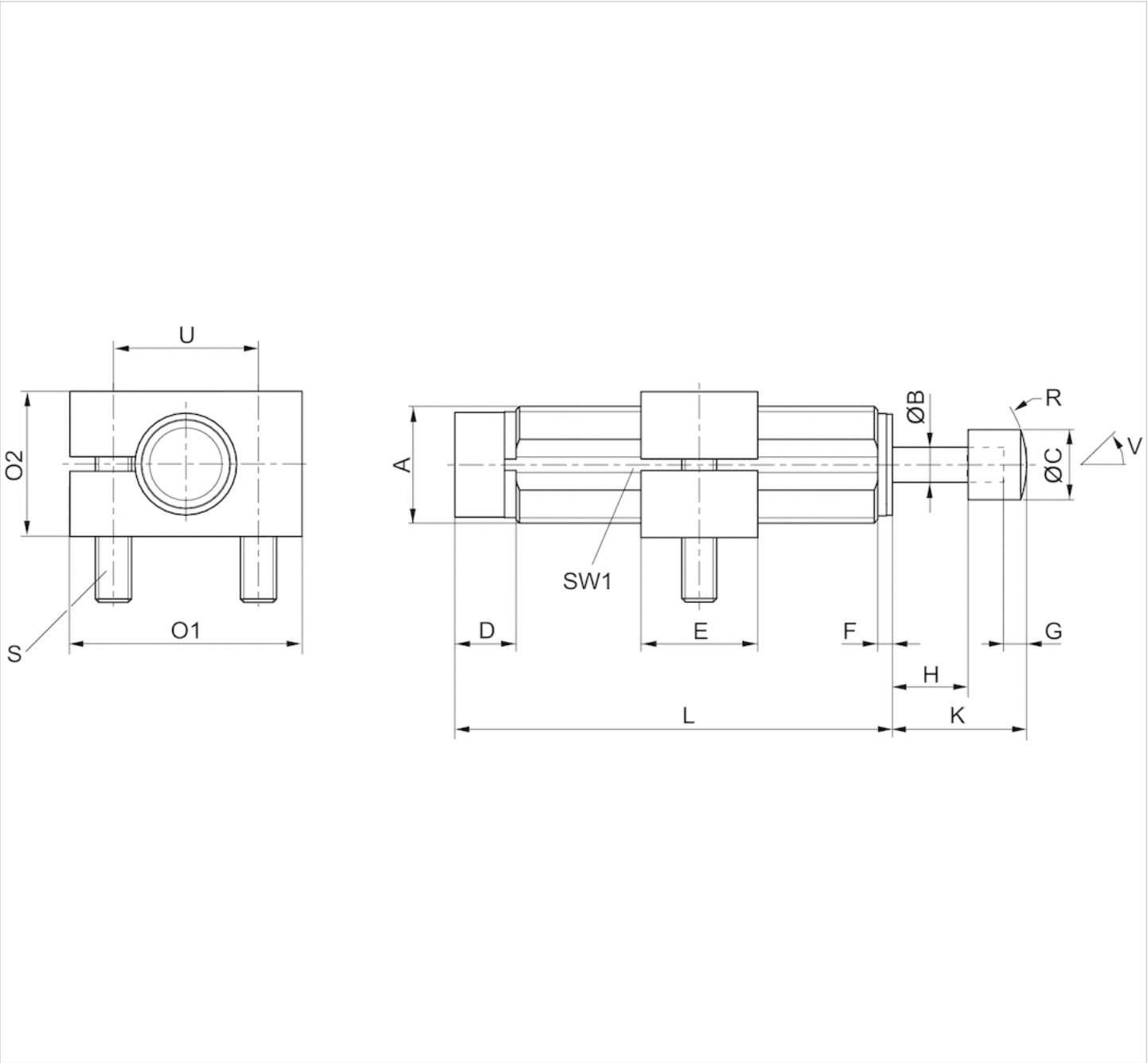
Dimensions

Part No.	Type	Mounting thread	ØB	ØC	D	E	F	G	H	I	K	L	O1	O2	R	S	SW1	U
R412010313	SA1-MC	M14x1,5	4	10	3	12	2.5	3.5	14	11	22	69	32	20	13	M5x25	13	20
R412010314	SA1-MC	M14x1,5	4	10	3	12	2.5	3.5	14	11	22	69	32	20	13	M5x25	13	20
R412010315	SA1-MC	M14x1,5	4	10	3	12	2.5	3.5	14	11	22	69	32	20	13	M2x25	13	20

W [°]
4
4
4

Dimensions

Fig. 2



A = mounting thread
V = tilt

Dimensions

Part No.	Type	Mounting thread	ØB	ØC	D	E	F	G	H	K	L	O1	O2	R	S	SW1	U
R412010316	SA1-MC	M20x1,5	6	12	10.5	20	2.5	4	13	23	75	40	25	18.5	M6x30	18	28
R412010317	SA1-MC	M20x1,5	6	12	10.5	20	2.5	4	13	23	75	40	25	18.5	M6x30	18	28
R412010319	SA1-MC	M25x1,5	8	16	9.5	25	3.5	5	25	38	108	47	32	20	M6x40	23	34
R412010318	SA1-MC	M20x1,5	6	12	10.5	20	2.5	4	13	23	75	40	25	18.5	M6x30	18	28
R412010320	SA1-MC	M25x1,5	8	16	9.5	25	3.5	5	25	38	108	47	32	20	M6x40	23	34
R412010321	SA1-MC	M25x1,5	8	16	9.5	25	3.5	5	25	38	108	47	32	20	M6x40	23	34

W [°]																	
4																	
4																	
2																	
4																	
2																	
2																	

Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



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