

INDUSTRIAL SHOCK ABSORBERS POWERSTOP

THREAD M12X1.0

► SERIES

PowerStop®

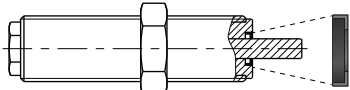
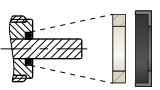
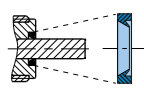
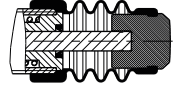
STANDARD ENERGY	HIGH ENERGY	ADJUSTABLE ENERGY
		
The economical	The powerful	The Adjustable

► Material	Stainless steel	► Organic oil (biodegradable)	HEES
► Permitted temperature range	-10 ... +70 [°C]	► H1-certified	Yes
► Angle of Impact max.	2 [°]	► Certifications	LABS / REACH / RoHS
► Max. force at fixed stop	3 [kN]		
► Lock nut tightening torque		► Max. absolute pressure	
- Standard energy	7 [Nm]	- Standard energy	1 [bar]
- High Energy	7 [Nm]	- High Energy	10 [bar]
- Adjustable Energy	7 [Nm]	- Adjustable Energy	10 [bar]

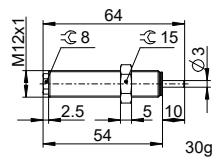
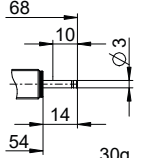
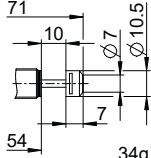
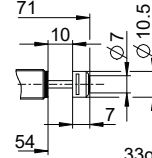
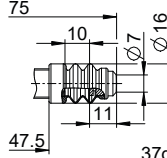
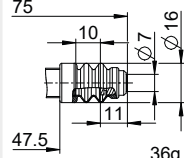
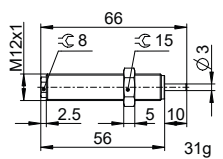
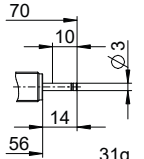
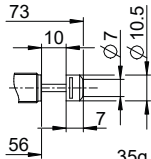
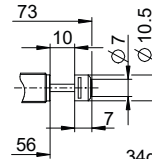
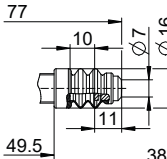
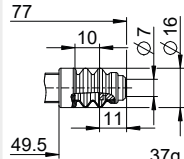
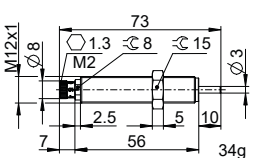
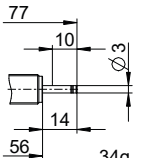
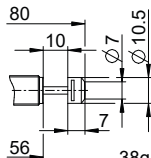
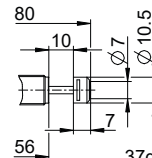
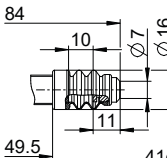
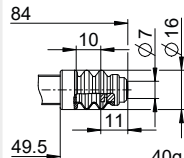
► TECHNICAL DATA

	Design	Series	Thread	Stroke variant	Stroke	Hardness degree	Impact velocity		Energy absorption max.			Protection	Reset			Head	Integrated Fix stop	Version
					max. [mm]		min. [m/s]	max. [m/s]	Continuous operation		Emergency stop operation		Force		Time			
									per stroke	per hour	per stroke		min.	max.	max.			
STANDARD ENERGY	P	SE	12X10	N	10	H	0,1	1,2	9	33.000	9	D	2,5	5	0,2	D	x	-A
						M	0,8	2,2	9	33.000	9	F	2,5	5	0,2	E	-	
						S	1,8	3,5	9	33.000	9	A	2,5	5	0,2	S	x	
						W	3,0	5,0	9	33.000	9	B	2,5	17	0,2	K	x	
HIGH ENERGY	P	HE	12X10	N	10	H	0,1	1,2	18	33.000	25	D	4,5	7,5	0,2	D	x	-A
						M	0,8	2,2	18	33.000	25	F	4,5	7,5	0,2	E	-	
						S	1,8	3,5	16	33.000	21	A	4,5	7,5	0,2	S	x	
						W	3,0	5,0	16	33.000	21	B	4,5	19	0,2	K	x	
ADJUSTABLE ENERGY	P	AE	12X10	N	10	H	0,1	5,0	18	33.000	18	D	4,5	7,5	0,2	D	x	-A
						F						F	4,5	7,5	0,2	E	-	
						A						A	4,5	7,5	0,2	S	x	
						B						B	4,5	19	0,2	K	x	

► PROTECTION

no protection	Felt ring	Wiper (NBR)	Bellow (TPE)
D -A	F -A	A -A	B -A
			
in a clean environment	against dust, chips, ...	against liquid, oil, ...	

► TECHNICAL DRAWINGS

	Short piston rod no head	Long piston rod no head	with steel head	with plastic head	with bellow and steel head	with bellow and plastic head
	N D -A	N E -A	N S -A	N K -A	N B S -A	N B K -A
STANDARD ENERGY	 64 M12x1 8 15 2.5 5 10 54 30g	 68 10 3 14 54 30g	 71 10 7 10.5 54 34g	 71 10 7 10.5 54 33g	 75 10 7 16 47.5 37g	 75 10 7 16 47.5 36g
HIGH ENERGY	 66 M12x1 8 15 2.5 5 10 56 31g	 70 10 3 14 56 31g	 73 10 7 10.5 56 35g	 73 10 7 10.5 56 34g	 77 10 7 16 49.5 38g	 77 10 7 16 49.5 37g
ADJUSTABLE ENERGY	 73 M12x1 1.3 8 15 M2 2.5 5 10 7 56 34g	 77 10 3 14 56 34g	 80 10 7 10.5 56 38g	 80 10 7 10.5 56 37g	 84 10 7 16 49.5 41g	 84 10 7 16 49.5 40g

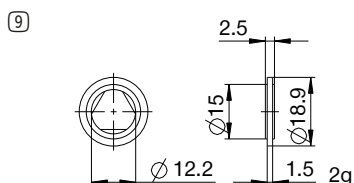
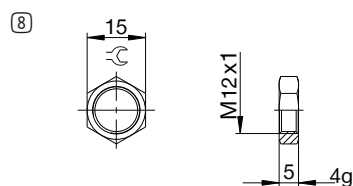
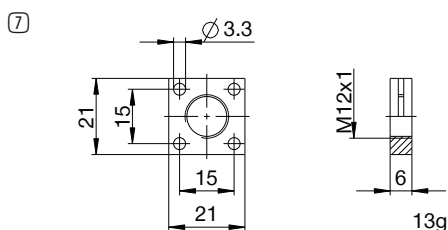
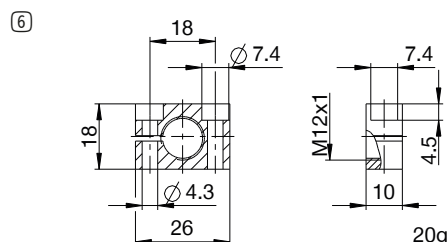
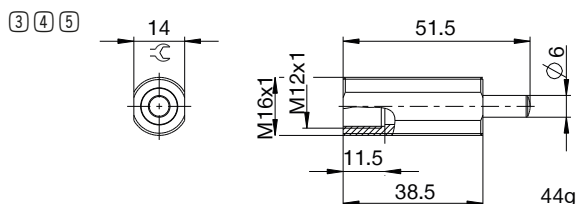
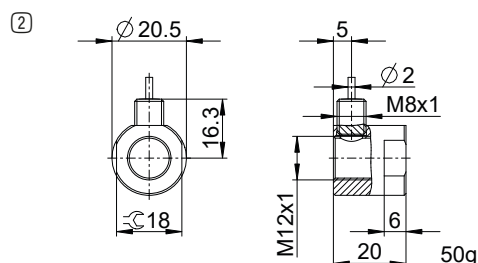
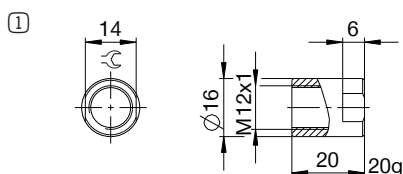


INDUSTRIAL SHOCK ABSORBERS POWERSTOP

THREAD M12X1.0

► ACCESSORIES

Pos.	Order no.	Accessories	Remarks
①	PAH12X10-A	Stop sleeve	Including 1x PVM12X10-A. Industrial shock absorber with bellow excluded.
②	PSH12X10-B	Sensor stop sleeve	Including 1x PVM12X10-A. Sensing only possible via industrial shock absorbers with steel or plastic head. Industrial shock absorber with bellow excluded. Inductive sensor, PNP (NC), 2 m PUR cable, IP67 degree of protection. See separate data sheet for additional information.
③	PBV12X10ND-A	Side load adapter standard stroke Protection: no protection	Impact angle max. 30°. Can only be used in combination with industrial shock absorber without protection and without the Short piston rod no head variant. Lock nut PVM16X10-A suitable for external thread of the side load adapter.
④	PBV12X10NF-A	Side load adapter standard stroke Protection: felt ring (felt)	Impact angle max. 30°. Can only be used in combination with industrial shock absorber without protection and without the Short piston rod no head variant. Lock nut PVM16X10-A suitable for external thread of the side load adapter.
⑤	PBV12X10NA-A	Side load adapter standard stroke Protection: wiper (NBR)	Impact angle max. 30°. Can only be used in combination with industrial shock absorber without protection and without the Short piston rod no head variant. Lock nut PVM16X10-A suitable for external thread of the side load adapter.
⑥	PKS12X10-A	Clamping flange orthogonal screwed	Tightening torque of the screws max. 3 Nm.
⑦	PKP12X10-A	Clamping flange screwed in parallel	Tightening torque of the screws max. 1 Nm.
⑧	PVM12X10-A	Stainless steel locknut	Included with the industrial shock absorber.
⑨	PDD12X10-A	Pressure chamber seal	Recommended fixation with PVM12X10-A. Seal must be in full contact on both sides.



► CLASSIFICATION

P **HE** **12X10** **N** **H** **A** **K** **-A**

Design

P Industrial shock absorbers PowerStop

Series

ME Mini Energy

SE Standard Energy

HE High Energy

AE Adjustable Energy

Thread

12 Thread nominal diameter

X

10 Thread pitch (factor 10)

Stroke variant

N Standard stroke

L Long stroke

Hardness degree

H Hard (0.1 - 1.2 m/s; Adjustable Energy: 0.1 - 5 m/s)

M Medium (0.8 - 2.2 m/s)

S Soft (1.8 - 3.5 m/s)

W Supersoft (3 - 5 m/s)

Protection

D no protection

F Felt ring

A Wiper (NBR)

B Bellow (TPE)

Head

D Short piston rod no head

E Long piston rod no head

S with steel head

K with plastic head

Version

-A Versioning from a to z