

INDUSTRIAL SHOCK ABSORBERS POWERSTOP

THREAD M20X1.5

► SERIES

PowerStop®

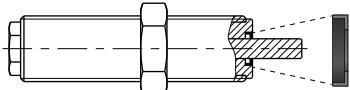
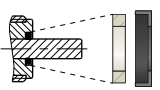
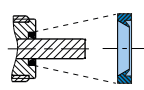
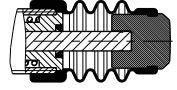
STANDARD ENERGY	HIGH ENERGY	ADJUSTABLE ENERGY
		
The economical	The powerful	The Adjustable

► 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	10 [kN]		
► Lock nut tightening torque		► Max. absolute pressure	
- Standard energy	20 [Nm]	- Standard energy	1 [bar]
- High Energy	40 [Nm]	- High Energy	10 [bar]
- Adjustable Energy	40 [Nm]	- Adjustable Energy	10 [bar]

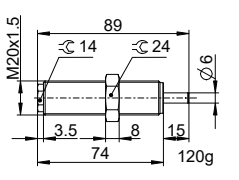
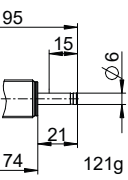
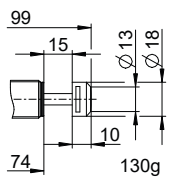
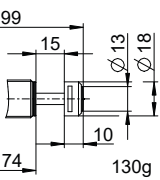
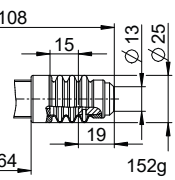
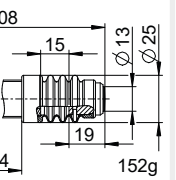
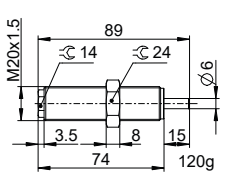
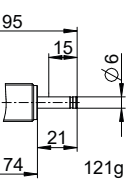
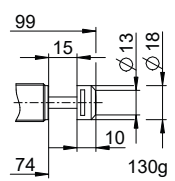
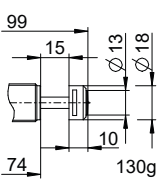
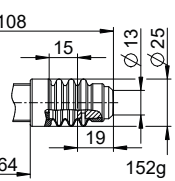
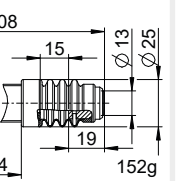
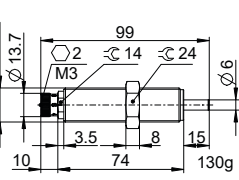
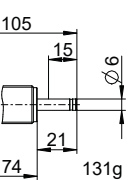
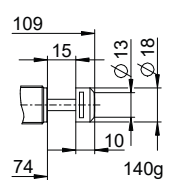
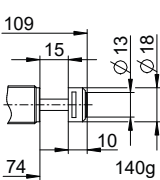
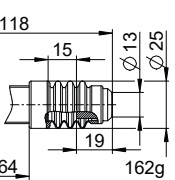
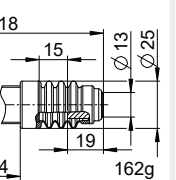
► TECHNICAL DATA

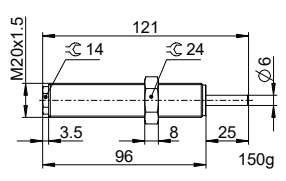
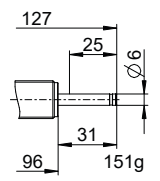
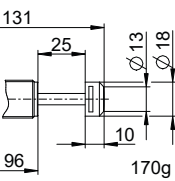
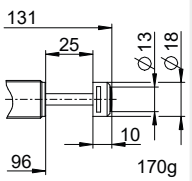
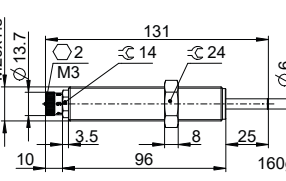
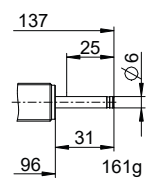
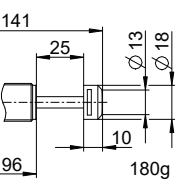
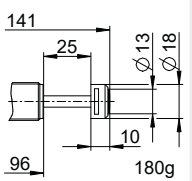
	Design	Series	Thread	Stroke variant	Stroke	Hardness degree	Impact velocity		Energy absorption max.			Protection	Reset			Head Integrated Fix stop	Version	
					max.		min.	max.	Continuous operation		Emergency stop operation			Force				Time
					[mm]		[m/s]	[m/s]	per stroke	per hour	per stroke			min.	max.			max.
							[m/s]	[m/s]	[J]	[J/h]	[J]			[N]	[N]			[s]
STANDARD ENERGY	P	SE	20X15	N	15	H	0,1	1,2	41	90.000	41	D	7	15	0,3	D	x	-A
						M	0,8	2,2	41	90.000	41	F	7	15	0,3	E	-	
						S	1,8	3,5	41	90.000	41	A	7	15	0,3	S	x	
						W	3,0	5,0	41	90.000	41	B	7	52	0,3	K	x	
HIGH ENERGY	P	HE	20X15	N	15	H	0,1	1,2	80	90.000	150	D	16	26	0,3	D	x	-A
						M	0,8	2,2	75	90.000	125	F	16	26	0,3	E	-	
						S	1,8	3,5	70	90.000	100	A	16	26	0,3	S	x	
						W	3,0	5,0	65	90.000	75	B	16	62	0,3	K	x	
ADJUSTABLE ENERGY	P	AE	20X15	N	15	H	0,1	5,0	80	90.000	80	D	16	26	0,3	D	x	-A
						H	0,1	5,0	80	90.000	80	F	16	26	0,3	E	-	
						H	0,1	5,0	80	90.000	80	A	16	26	0,3	S	x	
						H	0,1	5,0	80	90.000	80	B	16	62	0,3	K	x	
HIGH ENERGY	P	HE	20X15	L	25	H	0,1	1,2	80	90.000	150	D	16	26	0,5	D	x	-A
						M	0,8	2,2	75	90.000	125	F	16	26	0,5	E	-	
						S	1,8	3,5	70	90.000	100	F	16	26	0,5	S	x	
						W	3,0	5,0	65	90.000	75	A	16	26	0,5	K	x	
ADJUSTABLE ENERGY	P	AE	20X15	L	25	H	0,1	5,0	80	90.000	80	D	16	26	0,5	D	x	-A
						H	0,1	5,0	80	90.000	80	F	16	26	0,5	E	-	
						H	0,1	5,0	80	90.000	80	F	16	26	0,5	S	x	
						H	0,1	5,0	80	90.000	80	A	16	26	0,5	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						
HIGH ENERGY						
ADJUSTABLE ENERGY						

	Short piston rod no head	Long piston rod no head	with steel head	with plastic head
	L D -A	L E -A	L S -A	L K -A
HIGH ENERGY				
ADJUSTABLE ENERGY				

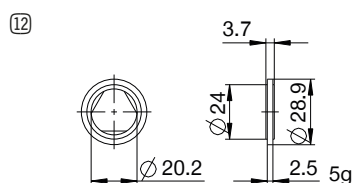
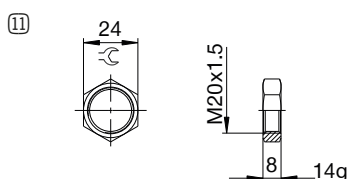
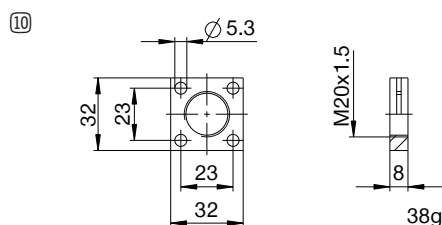
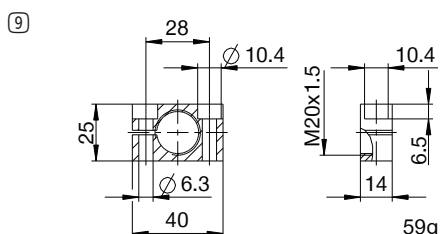
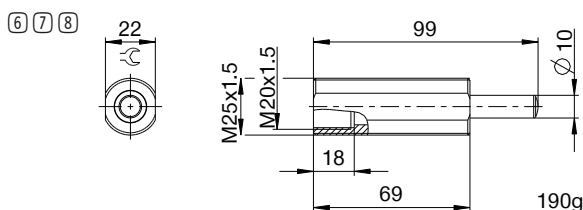
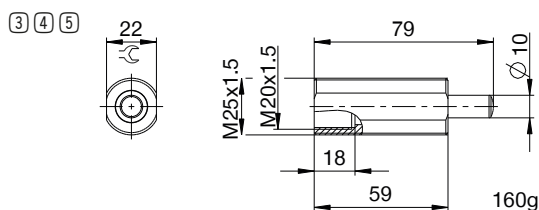
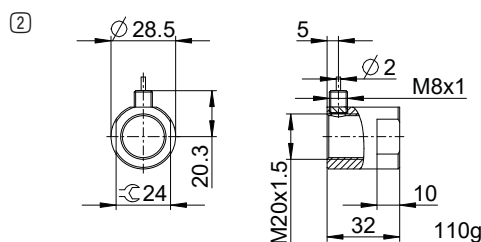
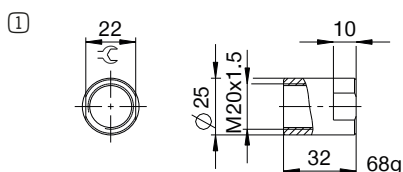


INDUSTRIAL SHOCK ABSORBERS POWERSTOP

THREAD M20X1.5

► ACCESSORIES

Pos.	Order no.	Accessories	Remarks
①	PAH20X15-A	Stop sleeve	Including 1x PVM20X15-A. Industrial shock absorber with bellow excluded.
②	PSH20X15-B	Sensor stop sleeve	Including 1x PVM20x15-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	PBV20X15ND-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 PVM25X15-A suitable for external thread of the side load adapter.
④	PBV20X15NF-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 PVM25X15-A suitable for external thread of the side load adapter.
⑤	PBV20X15NA-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 PVM25X15-A suitable for external thread of the side load adapter.
⑥	PBV20X15LD-A	Side load adapter long 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 PVM25X15-A suitable for external thread of the side load adapter.
⑦	PBV20X15LF-A	Side load adapter long 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 PVM25X15-A suitable for external thread of the side load adapter.
⑧	PBV20X15LA-A	Side load adapter long 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 PVM25X15-A suitable for external thread of the side load adapter.
⑨	PKS20X15-A	Clamping flange orthogonal screwed	Tightening torque of the screws max. 10 Nm.
⑩	PKP20X15-A	Clamping flange screwed in parallel	Tightening torque of the screws max. 5 Nm.
⑪	PVM20X15-A	Stainless steel locknut	Included with the industrial shock absorber.
⑫	PDD20X15-A	Pressure chamber seal	Recommended fixation with PVM20X15-A. Seal must be in full contact on both sides.



► CLASSIFICATION

P HE 20X15 L H A K -A

Design

P Industrial shock absorbers PowerStop

Series

ME Mini Energy

SE Standard Energy

HE High Energy

AE Adjustable Energy

Thread

20 Thread nominal diameter

X

15 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