

# INDUSTRIAL SHOCK ABSORBERS POWERSTOP

## THREAD M16X1.5

### ► SERIES

PowerStop®



► <b>Material</b>	Stainless steel	► <b>Organic oil (biodegradable)</b>	HEES
► <b>Permitted temperature range</b>	-10 ... +70 [°C]	- <b>H1-certified</b>	Yes
► <b>Angle of Impact max.</b>	2 [°]	- <b>PWIS-free</b>	Yes
► <b>Max. force at fixed stop</b>	3.5 [kN]	► <b>RoHS compliant</b> - <b>REACH compliant</b>	Yes
► <b>Lock nut tightening torque</b>		► <b>Max. absolute pressure</b>	
- <b>Standard energy</b>	15 [Nm]	- <b>Standard energy</b>	1 [bar]
- <b>High Energy</b>	20 [Nm]	- <b>High Energy</b>	10 [bar]
- <b>Adjustable Energy</b>	20 [Nm]	- <b>Adjustable Energy</b>	10 [bar]

### ► TECHNICAL DATA

	Design	Series	Thread	Stroke variant	Stroke max. [mm]	Hardness degree	Impact velocity		Energy absorption max.			Protection	Reset			Head Integrated Fix stop	Version		
							min.	max.	Continuous operation		Emergency stop operation		Force min. [N]	Time max. [s]					
									per stroke [J]	per hour [J/h]					per stroke [J]				
STANDARD ENERGY	P	SE	16X15	N	12	H	0,1	1,2	20	50.000	20	D	3	6	0,3	D	x		
							M	0,8	2,2	20	50.000	20	-	3	6	0,3	E	-	
								S	1,8	3,5	20	50.000	20				F	S	x
								W	3,0	5,0	20	50.000	20				A	K	x
HIGH ENERGY	P	HE	16X15	N	12	H	0,1	1,2	34	50.000	42	D	7	11	0,3	D	x		
							M	0,8	2,2	32	50.000	38	-	7	11	0,3	E	-	
								S	1,8	3,5	30	50.000	34				F	S	x
								W	3,0	5,0	28	50.000	30				A	K	x
ADJUSTABLE ENERGY	P	AE	16X15	N	12	H	0,1	5,0	34	50.000	34	D	7	11	0,3	D	x		
							M	0,8	2,2	32	50.000	38	-	7	11	0,3	E	-	
								S	1,8	3,5	30	50.000	34				F	S	x
								W	3,0	5,0	28	50.000	30				A	K	x
HIGH ENERGY	P	HE	16X15	L	20	H	0,1	1,2	34	50.000	42	D	7	11	0,4	D	x		
							M	0,8	2,2	32	50.000	38	-	7	11	0,4	E	-	
								S	1,8	3,5	30	50.000	34				A	S	x
								W	3,0	5,0	28	50.000	30				F	K	x
ADJUSTABLE ENERGY	P	AE	16X15	L	20	H	0,1	5,0	34	50.000	34	D	7	11	0,4	D	x		
							M	0,8	2,2	32	50.000	38	-	7	11	0,4	E	-	
								S	1,8	3,5	30	50.000	34				F	S	x
								W	3,0	5,0	28	50.000	30				A	K	x

## PROTECTION

no protection	Felt ring	Wiper (NBR)
D -A	F -A	A -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
	N D -A	N E -A	N S -A	N 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				

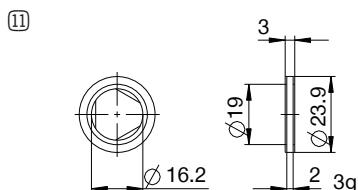
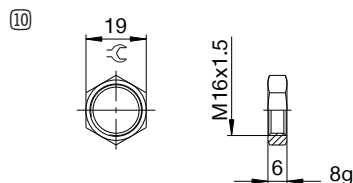
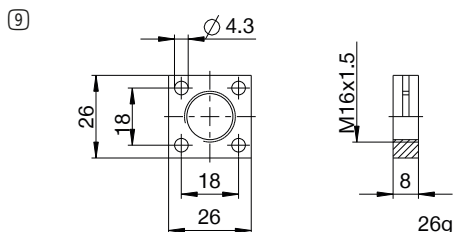
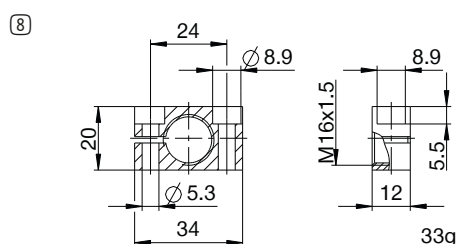
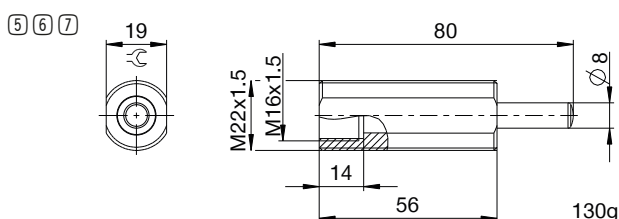
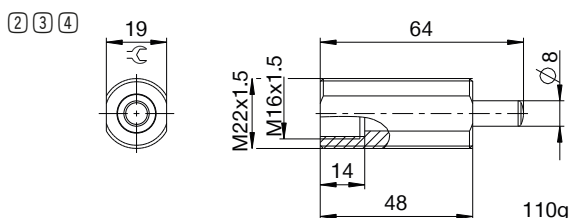
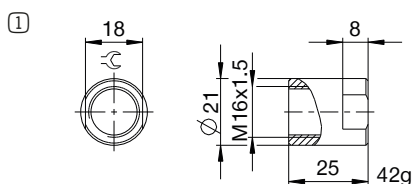


# INDUSTRIAL SHOCK ABSORBERS POWERSTOP

## THREAD M16X1.5

### ACCESSORIES

Pos.	Order no.	Accessories	Remarks
①	<b>PAH16X15-A</b>	Stop sleeve	Including 1x PVM16X15-A. Industrial shock absorber with bellow excluded.
②	<b>PBV16X15ND-A</b>	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 PVM22X15-A suitable for external thread of the side load adapter.
③	<b>PBV16X15NF-A</b>	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 PVM22X15-A suitable for external thread of the side load adapter.
④	<b>PBV16X15NA-A</b>	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 PVM22X15-A suitable for external thread of the side load adapter.
⑤	<b>PBV16X15LD-A</b>	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 PVM22X15-A suitable for external thread of the side load adapter.
⑥	<b>PBV16X15LF-A</b>	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 PVM22X15-A suitable for external thread of the side load adapter.
⑦	<b>PBV16X15LA-A</b>	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 PVM22X15-A suitable for external thread of the side load adapter.
⑧	<b>PKS16X15-A</b>	Clamping flange orthogonal screwed	Tightening torque of the screws max. 5 Nm.
⑨	<b>PKP16X15-A</b>	Clamping flange screwed in parallel	Tightening torque of the screws max. 3 Nm.
⑩	<b>PVM16X15-A</b>	Stainless steel locknut	Included with the industrial shock absorber.
⑪	<b>PDD16X15-A</b>	Pressure chamber seal	On request. Recommended fixing with PVM16x15-A. Seal must be in full contact on both sides.



## ▶ CLASSIFICATION

**P** **HE** **16X15** **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

**16** 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