

# INDUSTRIAL SHOCK ABSORBERS POWERSTOP THREAD M12X1.0

## ► SERIES

PowerStop®



- |  |                  |                                  |                        |
|--|------------------|----------------------------------|------------------------|
| ► Standard Energy pressure max. (abs.)   | 1 [bar]          | ► Locknut tightening torque max. | 7 [Nm]                 |
| ► High Energy pressure max. (abs.)       | 10 [bar]         | ► Force in end position max.     | 3 [kN]                 |
| ► Adjustable Energy pressure max. (abs.) | 10 [bar]         | ► Material                       | Stainless steel        |
| ► Angle of Impact max.                   | 2 [°]            | ► Material fixed stop            | Aluminum nickel plated |
| ► Max. piston return time                | 0.15 [s]         | ► PWIS-free                      | Yes                    |
| ► Permitted temperature range            | -10 ... +70 [°C] | ► RoHS compliant                 | Yes                    |
| ► Organic oil (biodegradable)            | H1-certified     | ► REACH compliant                | Yes                    |

## ► TECHNICAL DATA

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

## ► HOW TO ORDER CORRECTLY

P HE 12X10 N H A K -A



### Product finder

- Calculate shock absorbers quicker
- Clearly arranged selection guide
- Smart solution – available on mobile devices

[www.zimmer-group.de/en/pdti](http://www.zimmer-group.de/en/pdti)

### Example order no.

- PowerStop High Energy 12X10
- Stroke variant: standard (N)
  - Hardness degree: Hard (H)
  - Protection: wiper (A)
  - Head: plastic head (K)

## 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, ...	on request sealed

## TECHNICAL DRAWINGS – STANDARD STROKE

N         -A

	no head	with steel head	with plastic head	with bellow and steel head	with bellow and plastic head
	D -A	S -A	K -A	B S -A	B K -A
<b>STANDARD ENERGY</b>					
<b>HIGH ENERGY</b>					
<b>ADJUSTABLE ENERGY</b>					



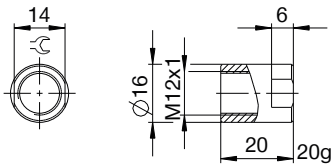
# INDUSTRIAL SHOCK ABSORBERS POWERSTOP

## THREAD M12X1.0

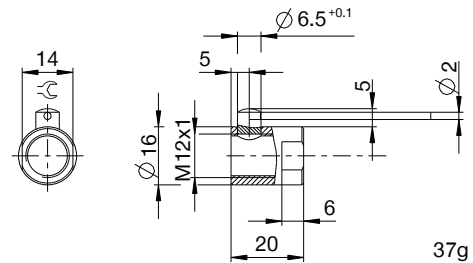
### ACCESSORIES

Pos.	Order no.	Accessories	Remarks
①	<b>PAH12X10-A</b>	Stop sleeve	Including 1x PVM12X10-A
②	<b>PSH12X10-A</b>	Sensor stop sleeve	Query only possible via damper with steel or plastic head (except for bellows). Inductive sensor, PNP closer (NO), PUR cable 2 m, degree of protection IP65. For further information see separate data sheet.
③	<b>PBV12X10NA-A</b>	Side load adapter standard stroke Protection: wiper (NBR)	Impact angle max. 30°. Can only be used in combination with industrial shock absorbers without head. Locknut PVM16X15-A suitable for external thread of the side load adapter.
④	<b>PBV12X10NF-A</b>	Side load adapter standard stroke Protection: felt ring (felt)	Impact angle max. 30°. Can only be used in combination with industrial shock absorbers without head. Locknut PVM16X15-A suitable for external thread of the side load adapter.
⑤	<b>PKS12X10-A</b>	Clamping flange orthogonal screwed	Tightening torque of the screws max. 5 Nm.
⑥	<b>PKP12X10-A</b>	Clamping flange screwed in parallel	Tightening torque of the screws max. 5 Nm.
⑦	<b>PVM12X10-A</b>	Stainless steel locknut	Included with the industrial shock absorber.
⑧	<b>PDD12X10-A</b>	Pressure chamber seal	Recommended fixation with PVM12X10-A. Seal must be in full contact on both sides.

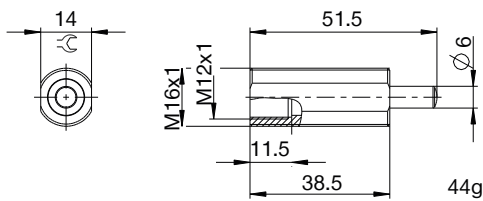
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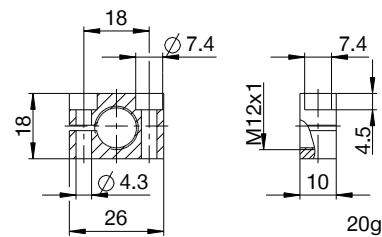
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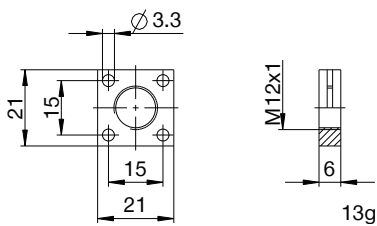
③ ④



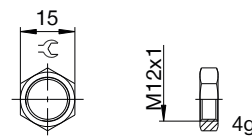
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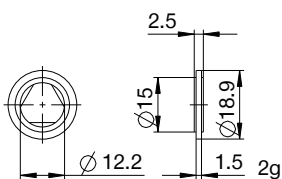
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⑦



⑧



## ▶ 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

**V** Extra 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** no head

**S** with steel head

**K** with plastic head

### Version

**-A** Versioning from a to z