

Rätt lösning för dina rörliga applikationer

Stötdämpare Mega-Line WE-M 1,0

Kranel överför kraft i rörelse



Benefits

Enlarged piston:

- Max. +400% energy
- Max. -50% costs / Nm

Piston:

• Hardened, aluminiumtitanium-nitride coated



Integrated stop

Max. security



ProSurf:

• Surface protection against corrosion



Flats:

Fast mounting



Special models:

- Stainless steel: V4A/DIN1.4404/AISL 316L
- For pressure chambers up to 7 bar
- USDA-H 1 compliant for food industry
- Cleanroom

Temperature:

• Standard: -20°C - ...+80°

• Low-temperature: -50°C-...+60°C

• High-temperature: 0°C-...+120°C

Stop caps:

A:

- Standard from POM
- Increased protection of the impact surface



AP:

- 40% noise reduction due to PU
- Increased protection of the impact surface



AP2:

 Longer life time compared to stop cap AP and plastic cap A

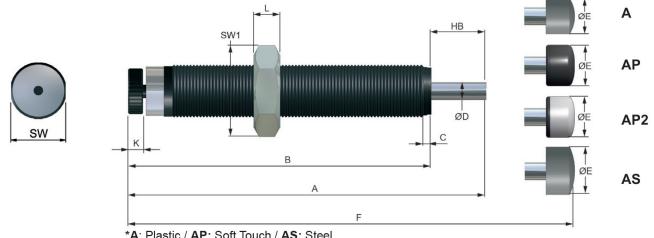


AS:

- From hardened steel
- For side forces and difficult operating conditions



Dimensions



*A: Plastic /	AP: Soft	Touch /	AS:	Steel

	GW*	Α	В	С	øD	øΕ	øΕ	øΕ	F (A)	F	F	K	L	sw	SW1	SW2	F (B)	øΜ	Н
						(A)	(AP/AP2)	(AS)		(AP/AP2)	(AS)								
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
WE-M 1,0	M 24 x 1,5	141	108	3,5	8	16	21	20	154	156	154	8	8	23	30	-	154	30	50
WE-M 1,0 x 40	M 24 x 1,5	178	130	3,5	8	16	21	20	191	193	191	8	8	23	30	-	-	-	-
WE-M 1,0 x 80	M 24 x 1,5	321	233	3,5	8	16	21	20	334	336	334	8	8	-	30	-	-	-	-

Performance

	Stroke	Stroke Energy absorption Effective mass							
		Constant load*	Constant load* -0		-1 (soft)	-2 (medium)	-3 (hard)	-4 (very hard)	
	mm	Nm/HB (max.)	Nm/h (max.)	min.—max kg					
WE-M 1,0	25	220	105.600	-	22-11.000	-	-	-	
WE-M 1,0 x 40	40	390	175.500	-	38-18.000	-	-	-	
WE-M 1,0 x 80	80	390	175.500	-	38-18.000	-	-	-	

Special thread –from stock

Series	Code	Threds	Example
1,0	Т	M 25x1,5	WE-M 1,0T
1,0	R	M 27x3	WE-M 1,0R
1,0	U	1 - 12 UNF	WE-M 1,0U
1,0	М	M 24x1,25	WE-M 1,0M
1,0	Н	M 25x2	WE-M 1,0H
1,0	K	M 26x1,5	WE-M 1,0K
1,0	G	M27x1,5	WE-M 1,0G
1,0 x 40	Т	M 25x1,5	WE-M 1,0 x 40T
1,0 x 40	R	M 27x3	WE-M 1,0 x 40R
1,0 x 40	U	1 - 12 UNF	WE-M 1,0 x 40U
1,0 x 40	D	M 27x2	WE-M 1,0 x 40D
1,0 x 40	L	M 30x 1,5	WE-M 1,0 x 40L
1,0 x 80	Т	M 25x1,5	WE-M 1,0 x 80T

Stainless steel

Series	Code	Threds	Example
1,0		M 24x1,5	WE-M 1,0-VA
1,0	Т	M 25x1,5	WE-M 1,0T-VA
1,0	R	M 27x3	WE-M 1,0R-VA
1,0	U	1 - 12 UNF	WE-M 1,0U-VA
1,0 x 40		M 24x1,5	WE-M 1,0 x 40-VA
1,0 x 40	Т	M 25x1,5	WE-M 1,0 x 40T-VA
1,0 x 40	R	M 27x3	WE-M 1,0 x 40R-VA
1,0 x 40	L	M 30x1,5	WE-M 1,0 x 40L-VA

Technical Data

Weight 1,0: 0,29 kg

1,0 x 40: 0,39 kg **1,0 x 80:** 0,63 kg

Impact speed WE-M: 0,08 - 5,0 m/s

Return spring force 1,0: 15 N/min—31 N/max

Ausführung "BO": 60 N/min - 80 N/max **1,0 x 40:** 11 N/min - 20 N/max **1,0 x 80:** 14 N/min - 31 N/max

Torque: 1,0 / 1,0 x 40 / 1,0 x 80:

Max. force by using the flats 30 Nm

Housing ProSurf

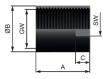
Piston rod Hardened stainless steel

RoHS-compliant Directive 2002/95/EG

Included 1 lock nut

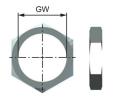
Accessories

Stop limit nut



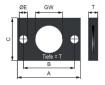
GW*	Α	øΒ	С	sw				
	mm	mm	mm	mm				
M 24x1,5	38	31	10	30				
M26x1,5	38	34	10	30				
M27x1,5	38	34	10	30				
M27x3	38	34	10	30				
Stainless steel								
M24x1,5	38	31	10	30				

Lock nut



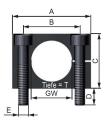
GW*
M 24x1,5
M25x1,5
M25x2
M26x1,5
M27x1,5
M27x3
1 - 12UNF
Stainless steel
M24x1,5

Rectangular flange



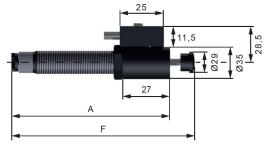
GW*	Α	В	С	E	Т
	mm	mm	mm	mm	mm
M 24x1,5	52	42	35	6,6	8
M25x1,5	52	42	35	6,6	8
M27x3	52	42	35	6,6	8

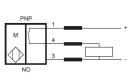
Clamping flange



GW*	Α	В	С	D	E	Т
	mm	mm	mm	mm	mm	mm
M 24x1,5	46	33	32	6	M6	25
M25x1,5	47	34	32	6	M6	25
M27x3	46	33	32	6	M6	25

Proximity Switch

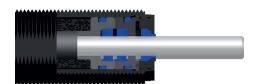




Included Proximity Switch, Switch cap, stop limit nut

	Α	В
	mm	mm
WE-M 1,0	122,5	154
WE-M 1,0x40	144,5	191
WE-M 1,0x80	247,5	334

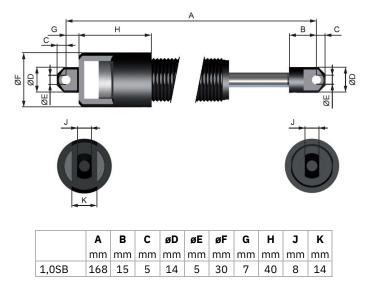
Double wiper



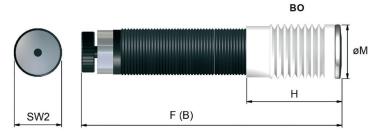
Used in applications with:

- Liquid
- Compressed air
- Dust

Clevis mounting



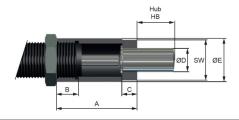
Shock absorbers with protection bellow



Material: PTFE / stop cap: stainless steel
Ordering information: -M 1,0 - BO

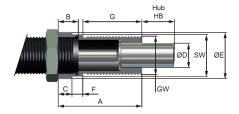
Solutions for side forces

1) AK 1



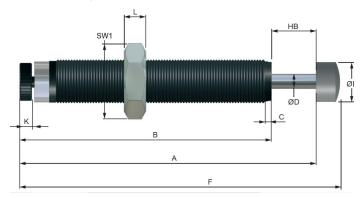
	GW*	Α	В	С	øD	øΕ	sw
		mm	mm	mm	mm	mm	mm
1,0	M 24x1,5	53,5	14,5	10	16	29	27
1,0	M 25x1,5	53,5	14,5	10	16	29	27

AK 2



	GW*	Α	В	С	øD	øΕ	F	G	sw
		mm							
1,0	M 24x1,5	54	13	9	16	30	7	38	27
1,0	M 25x1,5	54	13	9	16	30	7	38	27

2) WEB-M 1,0



Benefits

Designed for side forces up to15° without additional mounting parts; included steel stop cap

Dimensions

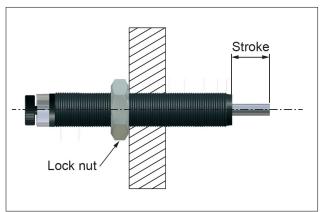
	GW*	Α	A1	В	С	øD	øΕ	L	SW	SW1
		mm	mm	mm	mm	mm	mm	mm	mm	mm
WEB-M 1,0	M 24 x 1,5	146,0	154,0	108,0	3,5	8	20	8	23	30
WEB-M 1,0T	M 25 x 1,5	146,0	154,0	108,0	3,5	8	20	8	23	30
WEB-M 1,0R	M 27 x 3	146,0	154,0	108,0	3,5	8	20	8	23	30

Performance

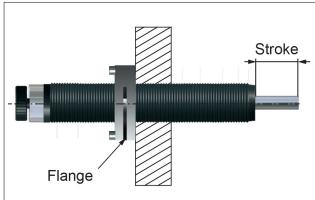
64	Chualca			Effective mass						Returning		18/ - :
	Stroke			-0 (very soft)	-1 (soft)	-2 (medium)	-3 (hard)	-4 (very hard)	spring	force	Torque	Weight
	mm	Nm/HB (max.)	Nm/h (max.)	min - max kg	min - max kg	min - max kg	min - max kg	min - max kg	min. N	max. N	Nm max.	kg
WEB-M 1,0	25	180	108000	-	22 - 11000	-	-	-	15	31	30	0,29

Installation

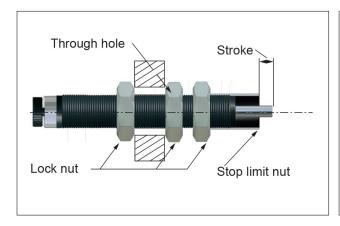
Installation with lock nut



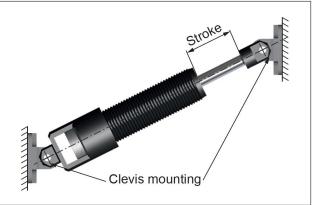
Installation with flange



Installation with stop limit nut



Clevis mounting



Adjustment

The damping factor is adjusted with the adjusting screw at the back-sided end of the shock absorber. The damping depends from the impact speed and the effective mass.

Set possibilities on the scale 0-8.

0 = low damping

8 = high damping



Adjustment: It is not allowed to adjust the shock absorber in operation conditions or during the operation.

In order to adjust the shock absorber set the adjustment screw to "6" if the velocity is <1,3 m/s or to "4" if the velocity is >1,3 m/s. Internal damage to the shock absorber can occur, if not adjusted in gradual increments. Do not drive in the final position under full load. If the damping is not sufficient, increase continuously by rotating the adjustment to the next higher number. Maximum damping is achieved, when the highest number on the scale is reached. If the mass impacts excessively hard on the shock absorber (stop cap) the damping should be reduced by rotation of the adjustment to the next smaller number. Minimum damping is at "0" setting. Secure the adjustment with the threaded pin. A hexagonal key is supplied for this purpose.



Safety instructions

Before installation, commissioning, servicing and repair the data sheet is to be noticed. This work may only be performed by trained, introduced staff.

Electric connections according to the suitable national regulation. For Germany: VDE regulation VD E0100.

Before all repair and servicing works the energy supplies (main switch, etc.) have to be switched off! Moreover, measures are necessary to prevent an unintentional reconnect. For example, a warning sign "service works" or "maintenance work", applied to the switch.

Designated use

Check before installation and make sure the type name on the shock absorber or on the packaging is corresponding with delivery note. Industrial shock absorbers are maintenance-free and ready for installation.

- Temperature influence: at higher temperatures the shock absorber characteristic will change.
- Movable loads have to be protected during the installation and maintenance against unintentional processes.
- In operation outside the allowed temperature range, the shock absorber can lose his function. Due to heat radiation don't paint the shock absorber.
- Fluids, gases and a dirty environment can affect or destroy the sealing system of the shock absorber. The result could be a failure malfunction. Piston rod and sealing system has to be protected against fluids, gases and a dirty environment.
- Damages at the piston rod can destroy the sealing system. Don't grease or oil the piston rod.
- · Avoid traction forces on the piston rod to present internal damages.
- The shock absorber can be pulled out of the construction during the impact. The construction needs to be
 able to resist the max counterforce. Sufficient security must be calculated. The maximum counterforces
 performed in the calculation program can vary from the really appearing counter forces, because these
 are based on theoretical values.

Fundamentals

Shock absorbers may under no circumstances be:

-painted



-welded



-held with clamps



-used on pull*



(Exception: clevis mounting)

In hazardous environments (dirt, humidity, oil) shock absorbers must be protected against damage and failure with the necessary accessory. If several shock absorbers are used on the same application, the deceleration has to be distributed equally. The "Torque" (PERFORMANCE) indicates the maximum force by using the flats. The catalogue shows technical data with both minimum and maximum values. If a product is to be used in continuous operation and within a range of 20% from the minimum and maximum values shown, then written confirmation of suitability of use from the supplier is necessary.

Important information

Integrated end-stop

Up to the WE-M 1,0 Mega-Line series the shock absorbers are provided with an integrated end-stop. If the integrated end-stop is used the remaining energy before end of stroke must not be higher than 10% of the total energy. For all models which are used as an emergency stop an external fixed stop is necessary.



Installation situation

The installation situation is any, however always in such a way that the complete shock absorber stroke can be used. The shock absorbers must be mounted like that the forces in centerinke about the piston rod are initiated. The maximum angle out of centre amounts to 3°. With a bigger angle out of centre an AK1 / AK2 (see "solutions for side forces") must be used or the shock absorber series: WEB.

Liability

Due to the number of possible uses of our products and the conditions of use that lie outside of our scope of influence, we accept no liability as to whether the purchase object is suitable for the Client's intended purpose. The verification to this effect, in particular the verification as to whether the purchase object is suitable for the planned use, is the responsibility of the Client alone, unless expressly agreed otherwise in writing.

For the reasons we accept no liability for the suitability of the purchase object for the purpose intended by the Client, except in cases of intent or gross negligence.

With damages, the not designated use and from high-handed, in these instructions do not originate to intended interventions, any guarantee and liability claim goes out towards the manufacturer.

Guarantee

By non-use of the original spare parts the guarantee claim goes out.

Environment protection

By the exchange from damaged parts is to be respected to a proper disposal.



Vår erfarenhet är din driftsäkerhet och konkurrenskraft

Ditt mål är vårt

Vårt mål är att ni ska få ut mer av er anläggning eller maskin och bli mer konkurrenskraftig. Ökad konkurrenskraft tror vi uppnås delvis genom en optimal funktion, problemfri drift samt minskade drift- och underhålls-kostnader. Därför erbjuder vi allt från reservdelar till helhetslösningar med effektiv logistik.

Helhetslösning

Vi hittar den optimala lösningen för er, gärna redan på utvecklingsstadiet.

Problemlösning

Problem med befintliga applikationer? Med vår långa erfarenhet kan vi lova att vi stött på liknande problem tidigare. Prata med oss så löser vi det.

Produkt

Vi ser till att du får det du behöver med snabbast möjliga leverans.

Reservdel

Ibland räcker det med en reservdel för att få anläggningen att rulla igen. Osäker på vilken del du söker? Vi hjälper dig hitta rätt produkt.

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