

# PMCN150 to PMCN600

## Reliable protection against fluids

### Self-Compensating, Rolling Diaphragm Technology, TPU Bellow

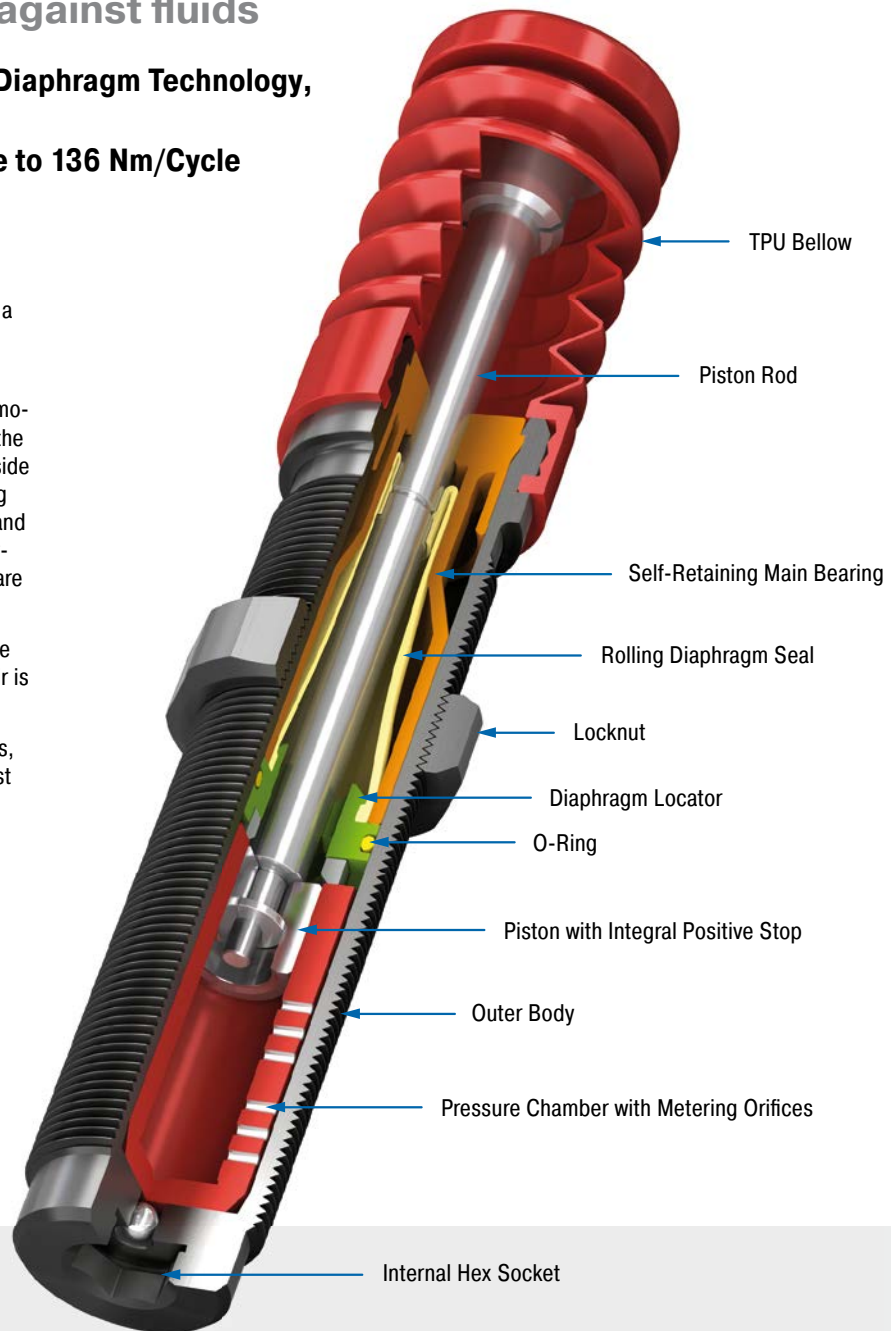
**Energy capacity 20 Nm/Cycle to 136 Nm/Cycle**  
**Stroke 12 mm to 25 mm**

Hermetically sealed: The shock absorbers from the ACE Protection series PMCN have a compact, perfectly sealed cap as a special feature.

This protection bellows, made of TPU (thermo-plastic polyurethane), safely encapsulates the proven ACE rolling diaphragm from the outside environment. Aggressive cutting, lubricating and cleaning agents don't stand a chance and the function of the maintenance-free, ready-to-install shock absorber is retained. They are also available in full stainless steel.

The PMCN series is a good alternative to the SP type air bleed collar if no compressed air is available on the machine or system.

Reliable protection against aggressive fluids, these miniature shock absorbers are the first choice everywhere where conventional dampers wear out too quickly, eg. As in machining centers or other applications of mechanical engineering.



### Technical Data

**Energy capacity:** 20 Nm/Cycle to 136 Nm/Cycle

**Impact velocity range:** 0.06 m/s to 6 m/s.  
Other speeds on request.

**Operating temperature range:** 0 °C to 66 °C

**Mounting:** In any position

**Positive stop:** Integrated

**Material:** Outer body: Steel corrosion-resistant coating; Main bearing: Plastic; Piston rod: Hardened stainless steel (1.4125, AISI 440C); Bellow: TPU, steel insert: Stainless steel (1.4404/1.4571, AISI 316L/316Ti); Rolling diaphragm: EPDM

**Damping medium:** Oil, temperature stable

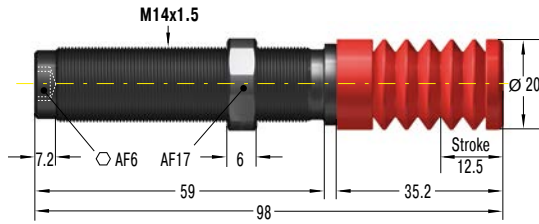
**Application field:** Finishing and processing centres, Clean room areas, Pharmaceutical industry, Medical technology, Food industry, Linear slides, Pneumatic cylinders, Machines and plants

**Note:** Final preliminary test must be done on the application.

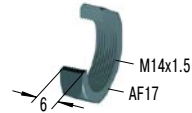
**Safety instructions:** Do not paint the shock absorbers due to heat emission.

**On request:** Special accessories available on request.

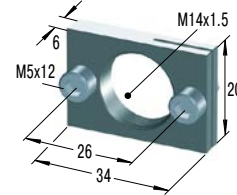
### PMCN150EUM



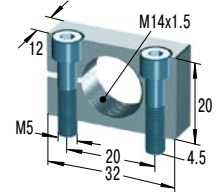
#### KM14 Locknut



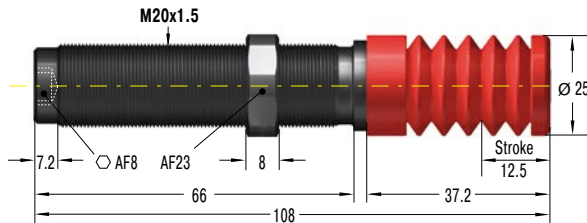
#### RF14 Rectangular Flange



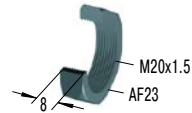
#### MB14 Clamp Mount



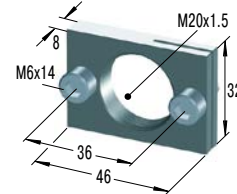
### PMCN225EUM



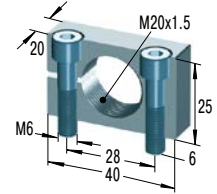
#### KM20 Locknut



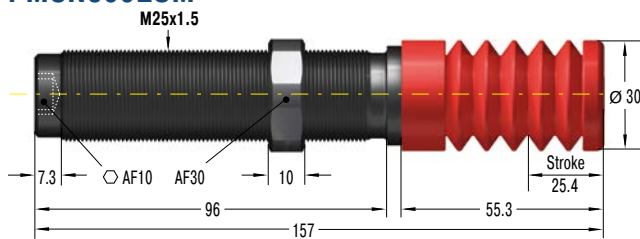
#### RF20 Rectangular Flange



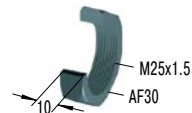
#### MB20 Clamp Mount



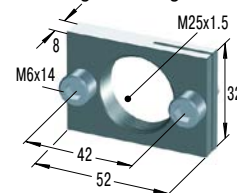
### PMCN600EUM



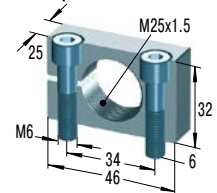
#### KM25 Locknut



#### RF25 Rectangular Flange



#### MB25 Clamp Mount



Additional accessories, mounting, installation ... see from page 36.

### Performance

TYPES	Max. Energy Capacity		Effective Weight		Return Force min.	Return Force max.	Return Time s	Side Load Angle max. °	Weight kg
	W <sub>3</sub> Nm/cycle	W <sub>4</sub> Nm/h	me min. kg	me max. kg					
PMCN150EUM	20	34,000	0.9	10	8	80	0.4	4	0.07
PMCN150EUMH	20	34,000	8.6	86	8	80	0.4	4	0.07
PMCN150EUMH2	20	34,000	70.0	200	8	80	0.4	4	0.07
PMCN150EUMH3	20	34,000	181.0	408	8	80	1.0	4	0.07
PMCN225EUM	41	45,000	2.3	25	8	85	0.3	4	0.17
PMCN225EUMH	41	45,000	23	230	8	85	0.3	4	0.17
PMCN225EUMH2	41	45,000	180.0	910	8	85	0.3	4	0.17
PMCN225EUMH3	41	45,000	816.0	1,814	8	85	0.3	4	0.17
PMCN600EUM	136	68,000	9.0	136	8	90	0.6	2	0.32
PMCN600EUMH	136	68,000	113.0	1,130	8	90	0.6	2	0.32
PMCN600EUMH2	136	68,000	400	2,300	8	90	0.6	2	0.32
PMCN600EUMH3	136	68,000	2,177.0	4,536	8	90	0.6	2	0.32

# PMCN150-V4A to PMCN600-V4A

## Optimum corrosion protection

### Self-Compensating, Rolling Diaphragm Technology, TPU Bellow

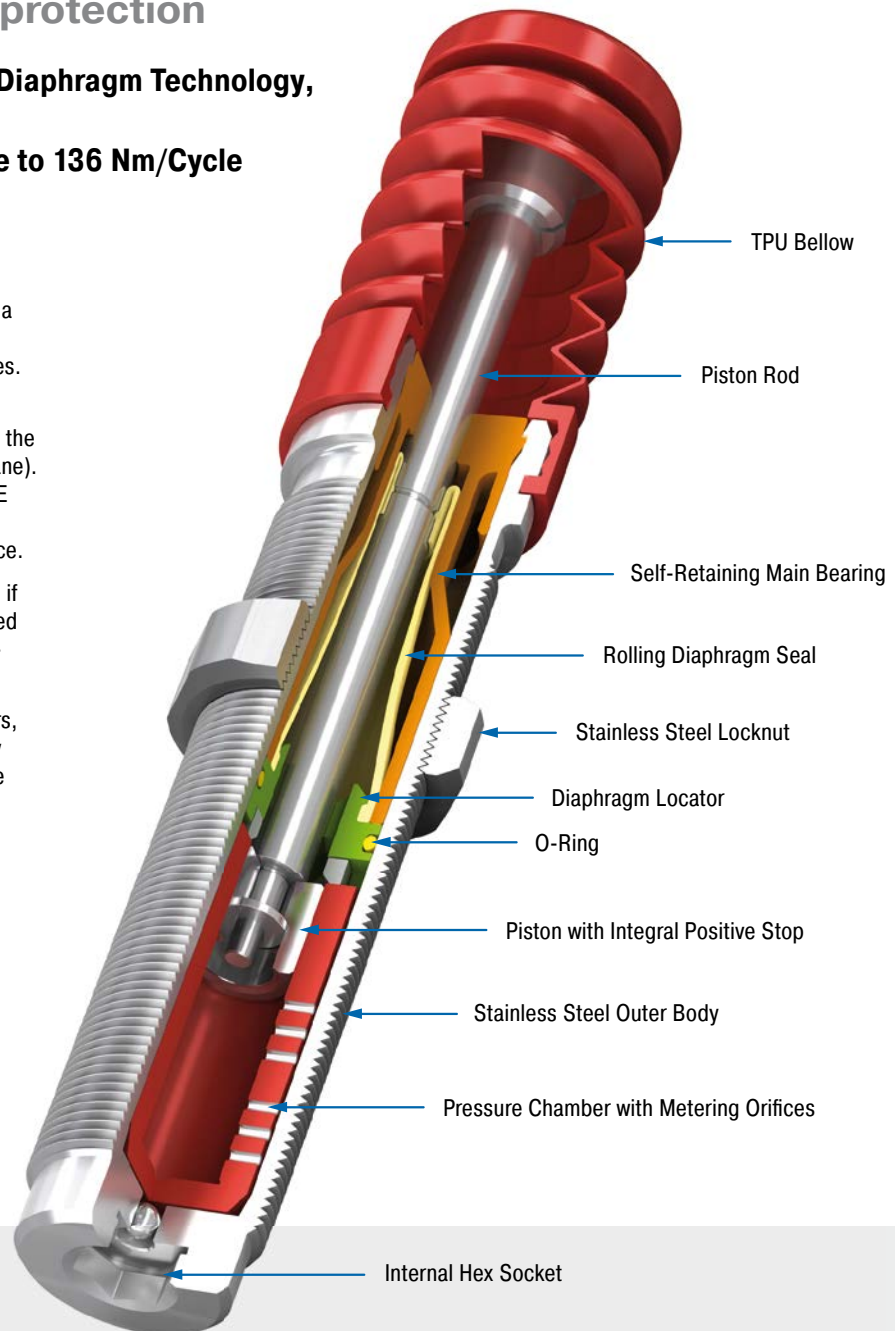
**Energy capacity 20 Nm/Cycle to 136 Nm/Cycle**  
**Stroke 12 mm to 25 mm**

Hermetically sealed and rustproof: The Protection series PMCN is also available in a stainless steel design. This is of particular interest to the food and packaging industries.

Their main special feature is the compact, totally sealed bellow between the body and the cap made of TPU (thermoplastic polyurethane). This protection safely encapsulates the ACE rolling diaphragm from the outside environment. Aggressive fluids don't stand a chance.

The PMCN series is an excellent alternative if the accessory option of the SP type air bleed collar cannot be used due to a lack of compressed air.

The PMCN series miniature shock absorbers, produced from stainless steel, are primarily suitable for use in the food industry, but are also wherever an elegant look is important e.g. in shipbuilding.



### Technical Data

**Energy capacity:** 20 Nm/Cycle to 136 Nm/Cycle

**Impact velocity range:** 0.06 m/s to 6 m/s.  
Other speeds on request.

**Operating temperature range:** 0 °C to 66 °C

**Mounting:** In any position

**Positive stop:** Integrated

**Material:** Outer body: Stainless steel (1.4404, AISI 316L); Main bearing: Plastic; Piston rod: Hardened stainless steel (1.4125, AISI 440C); Bellow: TPU, steel insert: Stainless steel (1.4404/1.4571, AISI 316L/316Ti); Rolling diaphragm: EPDM

**Damping medium:** Oil, temperature stable

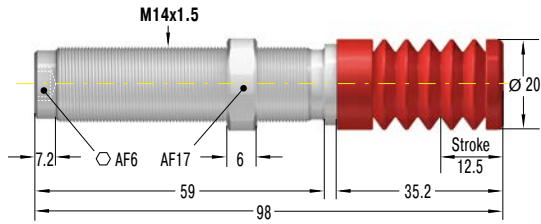
**Application field:** Finishing and processing centres, Clean room areas, Pharmaceutical industry, Medical technology, Food industry, Machines and plants

**Note:** Final preliminary test must be done on the application.

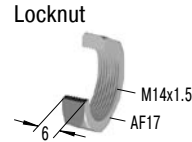
**Safety instructions:** Do not paint the shock absorbers due to heat emission.

**On request:** Special accessories available on request.

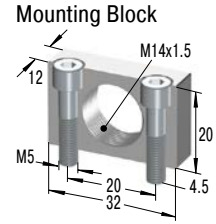
### PMCN150EUM-V4A



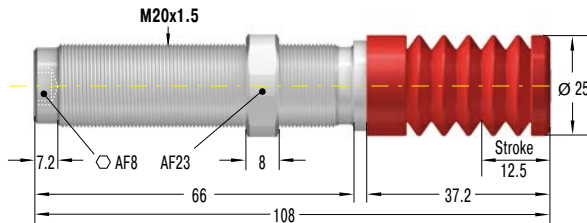
### KM14-V4A



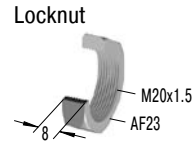
### MB14SC2-V4A



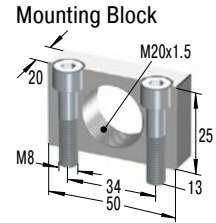
### PMCN225EUM-V4A



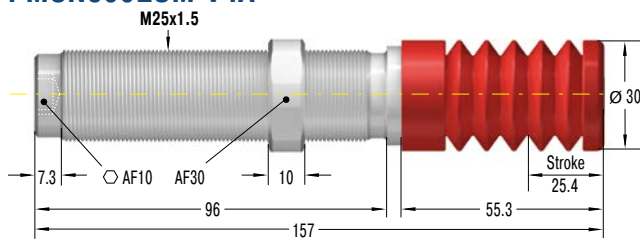
### KM20-V4A



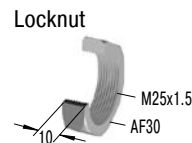
### MB20SC2-V4A



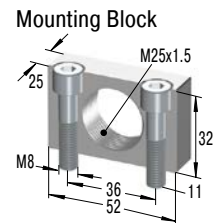
### PMCN600EUM-V4A



### KM25-V4A



### MB25SC2-V4A



Additional accessories, mounting, installation ... see from page 36.

### Performance

TYPES	Max. Energy Capacity		Effective Weight		Return Force min. N	Return Force max. N	Return Time s	Side Load Angle max. °	Weight kg
	W <sub>3</sub> Nm/cycle	W <sub>4</sub> Nm/h	me min. kg	me max. kg					
PMCN150EUM-V4A	20	34,000	0.9	10	8	80	0.4	4	0.07
PMCN150EUMH-V4A	20	34,000	8.6	86	8	80	0.4	4	0.07
PMCN150EUMH2-V4A	20	34,000	70.0	200	8	80	0.4	4	0.07
PMCN150EUMH3-V4A	20	34,000	181.0	408	8	80	1.0	4	0.07
PMCN225EUM-V4A	41	45,000	2.3	25	8	85	0.3	4	0.17
PMCN225EUMH-V4A	41	45,000	23.0	230	8	85	0.3	4	0.17
PMCN225EUMH2-V4A	41	45,000	180.0	910	8	85	0.3	4	0.17
PMCN225EUMH3-V4A	41	45,000	816.0	1,814	8	85	0.3	4	0.17
PMCN600EUM-V4A	136	68,000	9.0	136	8	90	0.6	2	0.32
PMCN600EUMH-V4A	136	68,000	113.0	1,130	8	90	0.6	2	0.32
PMCN600EUMH2-V4A	136	68,000	400.0	2,300	8	90	0.6	2	0.32
PMCN600EUMH3-V4A	136	68,000	2,177.0	4,536	8	90	0.6	2	0.32