

MC150-V4A to MC600-V4A

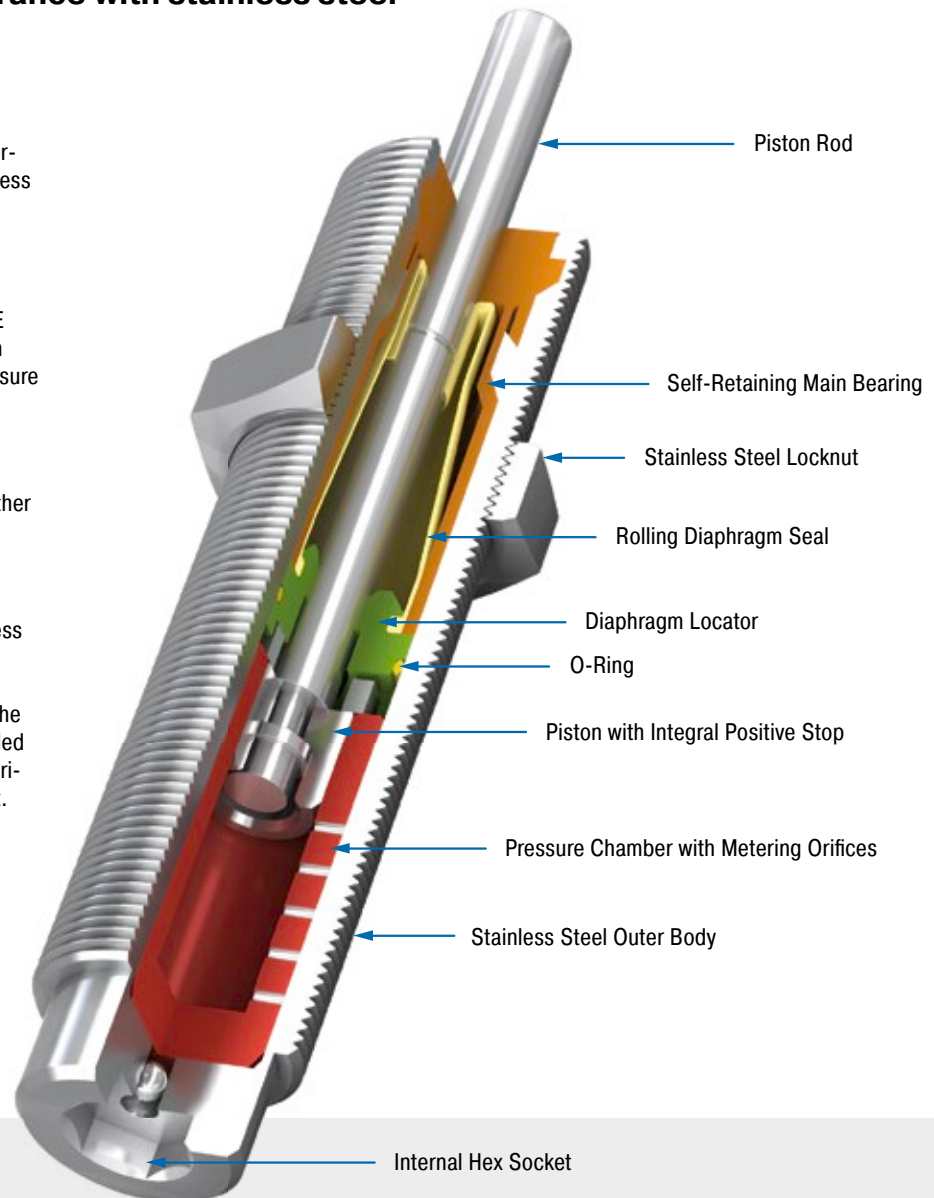
Miniature Shock Absorbers

Exceptionally high endurance with stainless steel corrosion protection

Brilliant in every respect: These high performance miniature shock absorbers in stainless steel are based on the MC150 to MC600 product family and its proven damping technology. This means that these special absorbers offer all of the benefits of the MC standard units such as the proven ACE rolling diaphragm technology for maximum service life and direct installation in a pressure chamber with up to approx. 7 bar.

Thanks to perfectly progressive maximum energy absorption and effective weight potential, their use is augmented even further by the outer body and a complete range of accessories made of stainless steel (material 1.4404).

Miniature shock absorbers made of stainless steel are mainly used in medical and electro-technology, but also in shipbuilding, packaging and chemicals industry and in the food processing. For the latter, they are filled with a special oil in order to fulfil the authorisation conditions (NSF-H1) for this market.



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, Locknut, Accessories: Stainless steel (1.4404, AISI 316L); Main bearing: Plastic; Piston rod: Hardened stainless steel (1.4125, AISI 440C); Rolling diaphragm: EPDM

Damping medium: Oil, temperature stable

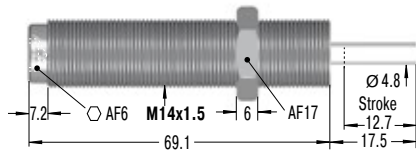
Application field: Clean room areas, Pharmaceutical industry, Medical technology, Food industry

Note: If precise end position datum is required consider use of the stop collar type AH.

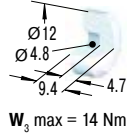
Safety instructions: External materials in the surrounding area can attack the rolling seal and lead to a shorter service life. Please contact ACE for appropriate solution suggestions. Suitable for use in pressure chambers up to 7 bar.

On request: Special oil with food approval. Special threads or other special options available on request.

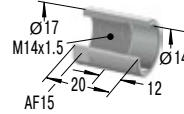
MC150EUM-V4A



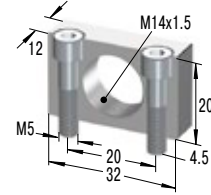
PP150 Nylon Button



AH14-V4A Stop Collar



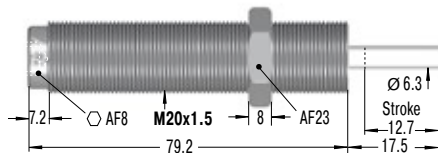
MB14SC2-V4A Mounting Block



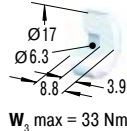
KM14-V4A Locknut



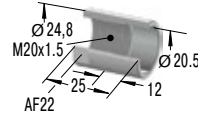
MC225EUM-V4A



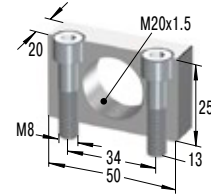
PP225 Nylon Button



AH20-V4A Stop Collar



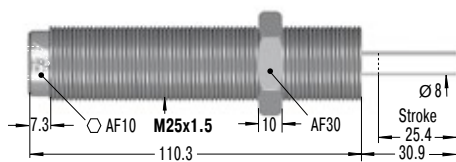
MB20SC2-V4A Mounting Block



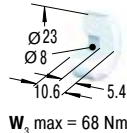
KM20-V4A Locknut



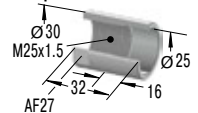
MC600EUM-V4A



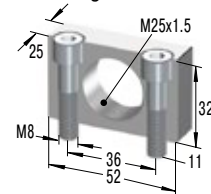
PP600 Nylon Button



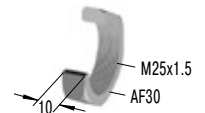
AH25-V4A Stop Collar



MB25SC2-V4A Mounting Block



KM25-V4A Locknut



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

Performance

| TYPES | Max. Energy Capacity | | Effective Weight | | Return force min. | Return force max. | Return time | Side Load Angle max. ° | Weight kg |
|----------------|-------------------------|---------------------|------------------|------------|-------------------|-------------------|-------------|------------------------|-----------|
| | W ₃ Nm/cycle | W ₄ Nm/h | me min. kg | me max. kg | | | | | |
| MC150EUM-V4A | 20 | 34,000 | 0.9 | 10 | 3 | 5 | 0.4 | 4 | 0.06 |
| MC150EUMH-V4A | 20 | 34,000 | 8.6 | 86 | 3 | 5 | 0.4 | 4 | 0.06 |
| MC150EUMH2-V4A | 20 | 34,000 | 70.0 | 200 | 3 | 5 | 0.4 | 4 | 0.06 |
| MC150EUMH3-V4A | 20 | 34,000 | 181.0 | 408 | 3 | 5 | 1.0 | 4 | 0.06 |
| MC225EUM-V4A | 41 | 45,000 | 2.3 | 25 | 4 | 6 | 0.3 | 4 | 0.15 |
| MC225EUMH-V4A | 41 | 45,000 | 23.0 | 230 | 4 | 6 | 0.3 | 4 | 0.15 |
| MC225EUMH2-V4A | 41 | 45,000 | 180.0 | 910 | 4 | 6 | 0.3 | 4 | 0.15 |
| MC225EUMH3-V4A | 41 | 45,000 | 816.0 | 1,814 | 4 | 6 | 0.3 | 4 | 0.15 |
| MC600EUM-V4A | 136 | 68,000 | 9.0 | 136 | 5 | 9 | 0.6 | 2 | 0.26 |
| MC600EUMH-V4A | 136 | 68,000 | 113.0 | 1,130 | 5 | 9 | 0.6 | 2 | 0.26 |
| MC600EUMH2-V4A | 136 | 68,000 | 400.0 | 2,300 | 5 | 9 | 0.6 | 2 | 0.26 |
| MC600EUMH3-V4A | 136 | 68,000 | 2,177.0 | 4,536 | 5 | 9 | 0.6 | 2 | 0.26 |

¹ For applications with higher side load angles please contact ACE.