

# S SOLID BEARING

## ENDURANCE TECHNOLOGY<sup>SM</sup>

Endurance Technology features are designed for maximum durability to provide extended service life.

### STAINLESS STEEL BANDS

- Both interior sealing band and exterior dust band made of fatigue resistant stainless steel



**STAINLESS STEEL IS DURABLE, FLEXIBLE AND CORROSION RESISTANT**

- Does not stretch like bands made of rubber or polymer materials
- Stainless steel sealing bands resist blow out during pressure spikes that may occur during high velocity cushioning

### RETAINED DUST BAND

- Retained dust band keeps contaminants from entering the cylinder interior, protecting components for reduced maintenance and increased uptime

### DIRECT MOUNT

- Head bolts are tapped for direct mounting

### INCH OR METRIC MOUNTING

- Your choice of inch (US standard) or metric fasteners for carrier and head bolt mounting

### PORTING CHOICES

- 4-ported heads are standard to allow air connections on sides, end or bottom
- Single-end porting allows convenient one end air connection
- NPT, Metric Parallel (ISO-G/BSP) & Metric Taper (Rc/BST) available on both metric and inch (US standard) mount actuators

### POSITIVE POSITION SEALS

- Sturdy U-cup base section assures positive positioning of seal lip for better sealing and less seal wear
- Made of custom formulated polyurethane for pliable, wear resistant seal lip



### INTERNAL MAGNETS

- Standard feature that allows sensor installation on left, right or bottom of the extrusion

### DUST WIPER

- Formed end cap and side dust wipers keep contaminants from entering the cylinder's internal area

### NON-WEAR BAND RETENTION

- Magnetically retained bands are not subject to wear as are mechanically retained systems
- Immediate band engagement and release results in less drag on piston for lower breakaway force during initial carrier movement



### ADJUSTABLE CUSHIONS

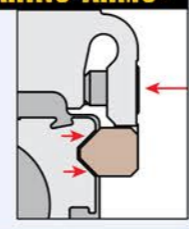
- Easy screw adjustment for smooth deceleration protecting actuator from high stress at end-of-stroke
- Adjustable cushions with retained stainless steel needle screw for increased safety

### LARGE FLEXIBLE MOUNTING PATTERN

- Carrier gives more load stability
- Compatibility with existing BC2 applications
- More fastening options

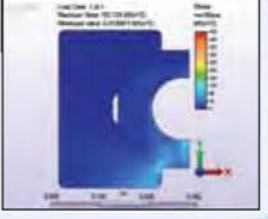
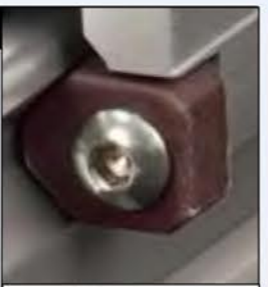
### NON-BINDING BEARING ARMS

- Bearings are tensioned indirectly, providing bind free adjustment



### TRAPEZOIDAL BEARINGS

- Trapezoidal design maximizes bearing surface area for less pressure on bearing surfaces; less pressure results in less wear
- Engineered bearing material has low static and dynamic friction with low wear properties for long lasting, smooth operation
- Bearings are field replaceable for extended service life



### ISOLATED PISTON

- Unique design isolates the piston from the applied load, extending the service life of the piston seals



- Piston remains isolated even when the carrier is deflected under load
- Piston bracket and carrier feature single piece extrusions, reducing failure points

NOTE: Boxed letters indicate ordering codes

## OPTIONS

- AUXILIARY CARRIER DW**
  - 2X higher Fz (load) capacity
  - High bending moment capacity
- FLOATING MOUNT FL**
  - Compensates for non-parallelism between MXP band cylinder and externally guided load
- TUBE CLAMPS TC**
  - Used for intermediate support
  - Flush with bottom of actuator to retain low profile
  - Drop-in, adjustable mounting locations
- FOOT MOUNTS FM**
  - For end mounting of MXP band cylinder
  - Use to bottom or side mount actuator
- SHOCK ABSORBERS ALSL  
AHSH**
  - Allows increased operating speed and load
  - Self-compensates for load or speed changes
  - Minimizes impact load to equipment
  - Fixed or adjustable position shocks
- SINGLE-END PORTING S**
  - Convenient single-end air connection (not available on MXP16)
- SWITCHES**
  - Wide variety of sensing choices: Reed, Solid State PNP or NPN, all available normally open or normally closed
  - Flush mount, drop-in installation, anytime
  - Bright LEDs, power & signal indication
  - CE rated, RoHS compliant