

# P PROFILED RAIL

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

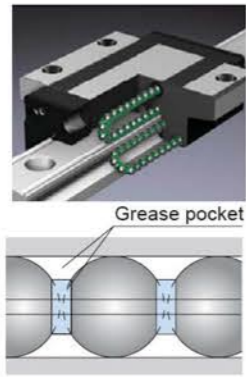
A Tolomatic Design Principle

**Tolomatic™** ... MAXIMUM DURABILITY  
EXCELLENCE IN MOTION

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

### RECIRCULATING BALL BEARINGS

- Recirculating ball bearings are used to reduce friction and extend actuator life
- Ball bearings with a grease pocket between ball elements, reduces friction, noise and maintenance
- Large permissible moment loads
- Low profile recirculating ball bearings
- High speed operation, low heat generation
- High precision, smooth, low friction motion



### INTERNAL MAGNETS

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

### LOW CARRIER HEIGHT

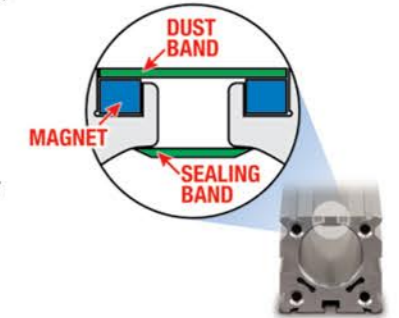
- Reduces overall cylinder envelope
- Large mounting pattern for high load stability

### 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

### 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



NOTE: Boxed letters indicate ordering codes

### RETAINED DUST BAND

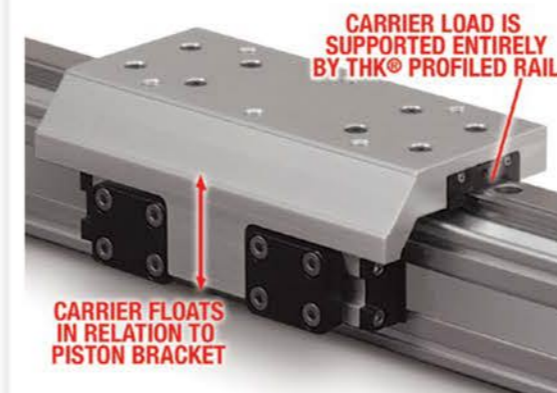
- Retained dust band keeps contaminants from entering the cylinder interior, protecting components for reduced maintenance and increased uptime

### DUST WIPER

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

### 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



### POSITIVE POSITION SEALS

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



### STAINLESS STEEL BANDS

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



STAINLESS STEEL IS DURABLE, FLEXIBLE AND CORROSION RESISTANT

### DIRECT MOUNT

Head bolts are tapped for direct 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

### INCH OR METRIC MOUNTING

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

### OPTIONS



- AUXILIARY CARRIER** **D** **W**
- 2X higher Fz (load) capacity
  - High bending moment capacity



- TUBE CLAMPS** **T** **C**
- Used for intermediate support
  - Flush with bottom of actuator to retain low profile
  - Drop-in, adjustable mounting locations



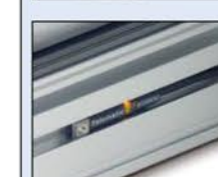
- FOOT MOUNTS** **F** **M**
- For end mounting of MXP band cylinder
  - Use to bottom or side mount actuator



- SHOCK ABSORBERS** **A** **L** **S** **L** **A** **H** **S** **H**
- 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