

P PROFILED RAIL

ENDURANCE TECHNOLOGY™

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

The MXP-P pneumatic rodless cylinder is exactly what you expect from the industry's number one rodless supplier. Featuring durable stainless steel bands, a reliable recirculating ball bearing design and smooth, low breakaway pressure the MXP-P is the best solution for applications with high load and bending moment requirements. Built-to-order in stroke lengths up to 206 inches.

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



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



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

INTERNAL MAGNETS

- Standard feature that allows sensor installation on the open side or bottom of the extrusion

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

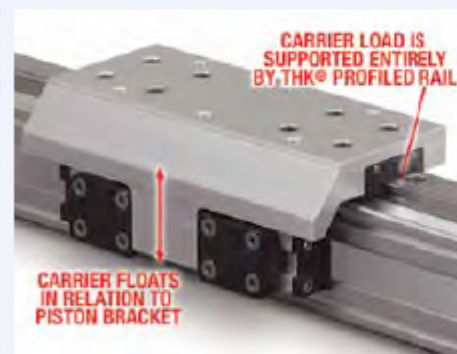
POSITIVE POSITION SEALS

- 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



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



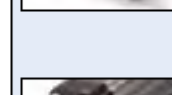
- TUBE CLAMPS** **TC**
- Used for intermediate support
 - Flush with bottom of actuator to retain low profile
 - Drop-in, adjustable mounting locations



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



- SHOCK ABSORBERS** **ALS**
AHS
- 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

PORTING CHOICES

- 4-ported heads are standard to allow air connections on side, top or end
- 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

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