NINTERNAL BEARING

ENDURANCE TECHNOLOGY

A Tolomatic Design Principle

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



RETAINED **DUST BAND**

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

INTERNAL BEARINGS



- Design maximizes piston bearing surface area for less pressure on bearing surfaces, less pressure results in less wear
- Permanent lubrication for low friction and extended bearing life
- Internal location provides protection from external contaminants, extending life

Tolomatic ... MAXIMUM DURABILITY

NON-WEAR BAND RETENTION Magnetically retained bands are not subject to wear as are

DUST WIPER

Formed end cap and

side dust wipers keep

entering the cylinder's

contaminants from

internal area

HIGH STRENGTH PISTON

25mm PISTON BRACKET

MINIMUM CROSS-SECTIONAL AREA (mm²)

Single piece extrusion for

reduces failure points

cross-sectional area is

up to 28% greater than

competitive designs,

providing increased

durability

Piston bracket neck

piston bracket and carrier

- 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

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 F M

- For end mounting of MXP band cylinder
- Use to bottom or side mount actuator



SHOCK ABSORBERS AL SL 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

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

extrusion

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

 4-ported heads are standard to allow air connections on sides, end or bottom

PORTING CHOICES

- 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

INTERNAL **MAGNETS**

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