

M3 MULTISTAGE CYLINDERS - Design features

- A Solid Aluminum Head & Cap**
Machined from solid aluminum bar stock (6061 T6) and black anodized for corrosion resistance. (Also available in Stainless Steel).
- B Piston**
Machined from solid aluminum bar stock (6061-T6). Offers long bearing support.
- C Hard Anodized ID Aluminum Tube**
(60 Rc) Provides superior wear resistance, and lower friction coefficient for maximum seal life. (Also available in Stainless Steel).
- D Piston Seal**
Lip-type low friction urethane piston seals are pressure energized and wear compensating for low friction and long life (temperature: -50° to 200°F) (Viton™ also Available up to 400°F) (all seals can be used in a non lube application)
- E O-ring Tube End Seals**
Nitrile O-ring design is pressure compensated and reusable.
- F Rod lips seal + wiper**
Our **New Design** with a real rod u-cup is completely self compensating for zero leakage at all pressures (all seals can be used in a non lube application)
The **New Wiper Wipes** dirt out for less maintenance and longer life of the cylinder. (Urethane) (temperature: -50° to 200°F)
- G Piston Wear Ring**
Nylon material is design for low friction, and to ensure minimum wear in the cylinder in side load application. Eliminates metal-to-metal contact.

- H Rod Gland**
Bronze gland is externally removable without cylinder disassembly for easy maintenance. Designed to provide maximum rod bearing. (Also available in Acetal)
- I Piston Rod**
High Strength steel. NITROCARBURIZING treatment on the rod gives better corrosion-resistant properties (out performs 12-micron (.0005 in.) chromium electroplating by ratio up to 20:1), improved wear resistance, better lubrication retention, dent resistance without induction hardening (60Rc), environmentally Friendly, no surface pitting, flaking, or hydrogen embrittlement. The finish created by the process is a lustrous black. (Available in stainless steel)
- J Tie rods**
Corrosion resistant (Nitro carburizing), stress proof steel maintains uniform compression on tube end seals. (Available in Stainless steel)
- K Mid Plate**
High Flow Mid plate with 2 orifice (vent/vaccum)
Made of 6061-T6 Aluminum and Black anodized, design for resistance, and Flow in mind (available with 2 or 3 port for external vent/vaccum or muffler).
- L Upper Rod**
High Strength steel. NITROCARBURIZING treatment on the rod. High Flow design.
- M Bumper**
Incorporated bumper in piston to ensure long life and noise free, design for long life, those bumper are incorporated into the piston with enough

