

Parker Series HMI ISO Hydraulic Metric Cylinders



ENGINEERING YOUR SUCCESS.

October 30, 2008

Parker Series HMI ISO Hydraulic Metric Cylinders

- Built to ISO 6020/2 Mounting Standard
- Working Pressure to 210 Bar
- 10 Bore Sizes from 25 mm to 200 mm
- 12 Standard ISO Mounting Styles
- Up to 3 Rod Sizes per Bore
- Single and Double Rod Designs
- Stroke Lengths Available to Any Practical Length

Design Features and Benefits

Piston Rod

- Precision ground high tensile carbon alloy steel
- Induction case hardened
- Hard chrome plated and polished to 0.2 μ max.



Design Features and Benefits

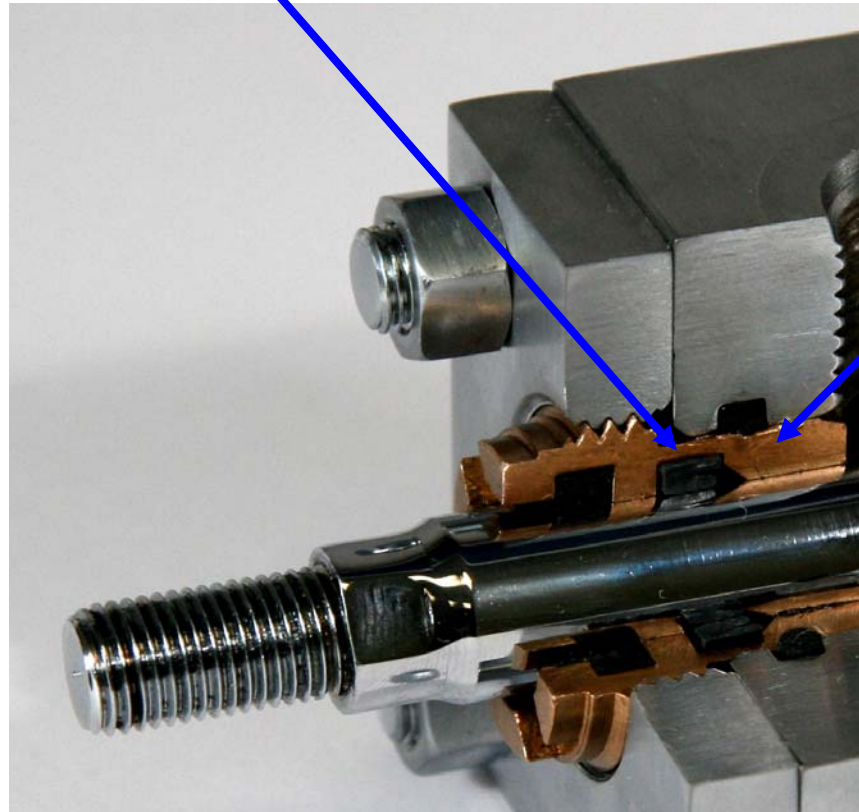


The Cylinder Body – Heavy-wall steel tubing, processed to a precision micro finish bore.

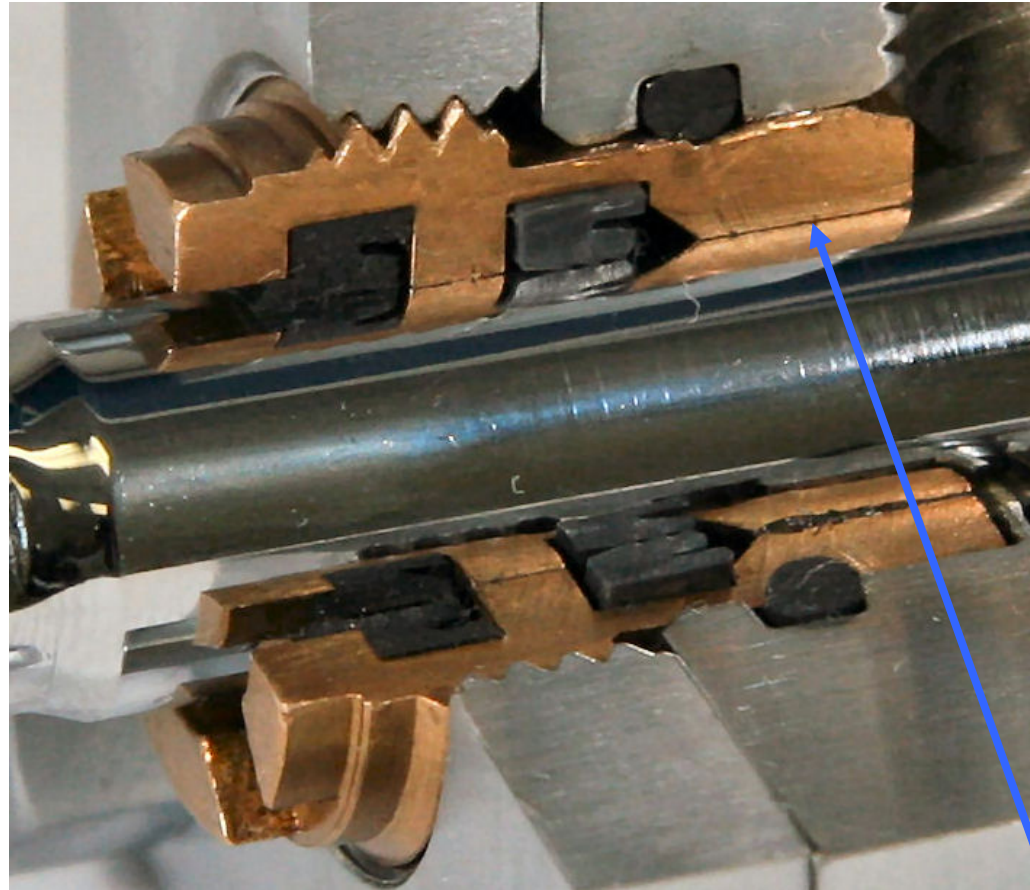
Design Features and Benefits

Parker Cylinder TS2000
Rod Seal

Parker Cylinder Jewel Gland



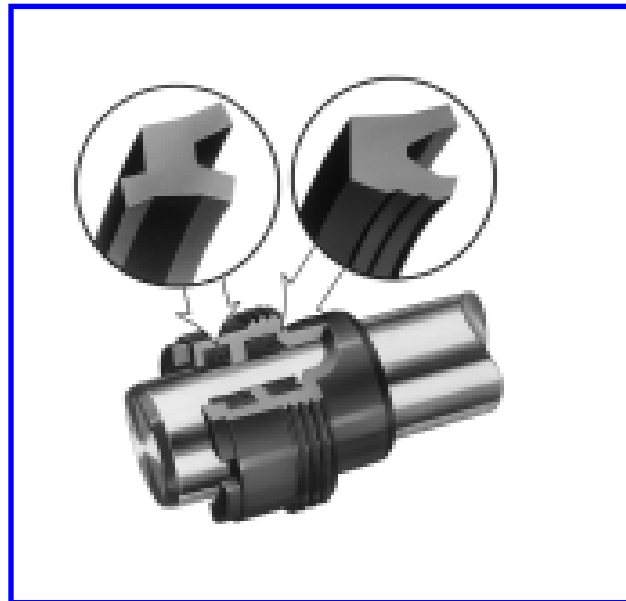
Design Features and Benefits



Long inboard bearing surface

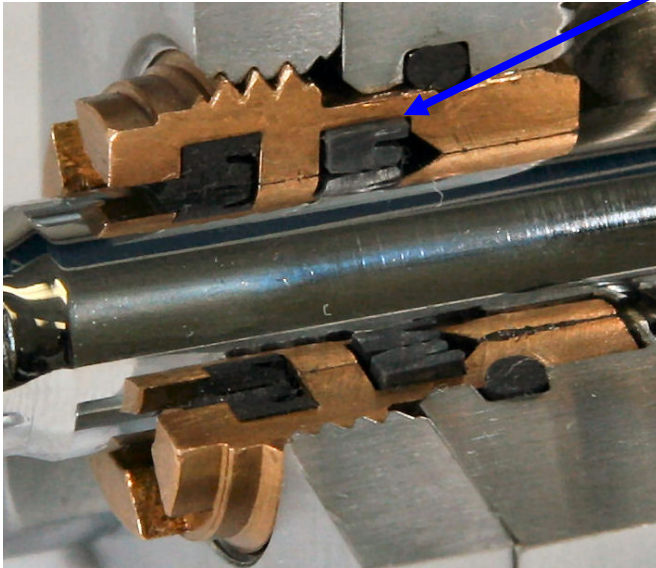
Design Features and Benefits

Parker “Jewel” gland and TS2000 sealing system

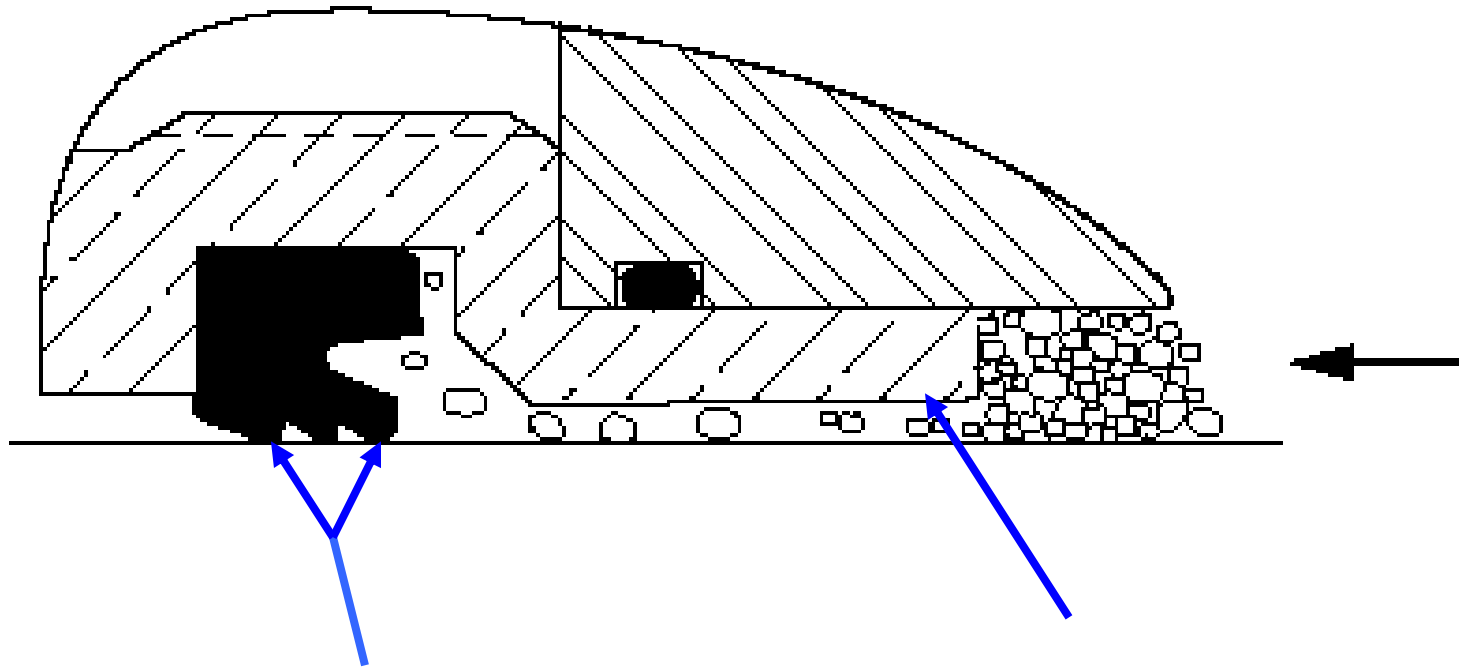


Design Features and Benefits

TS-2000 rod seal



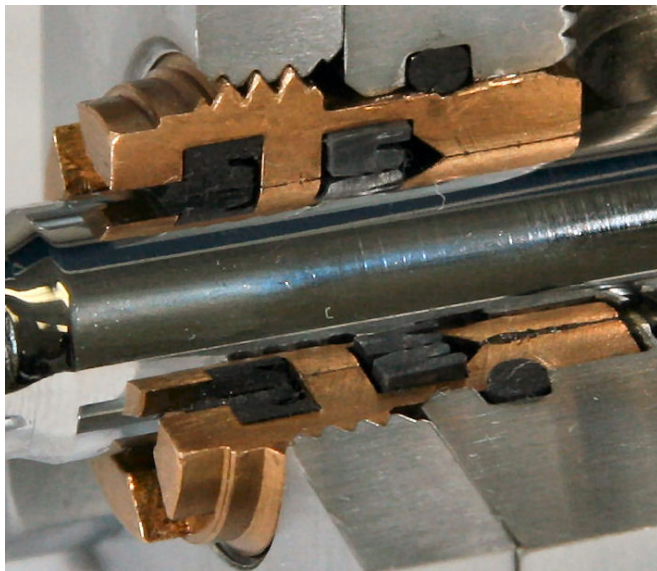
Design Features and Benefits



The shearing action of the multiple lip TS-2000 rod seal, combined with the inboard rod bearing results in exceptional sealing effectiveness.

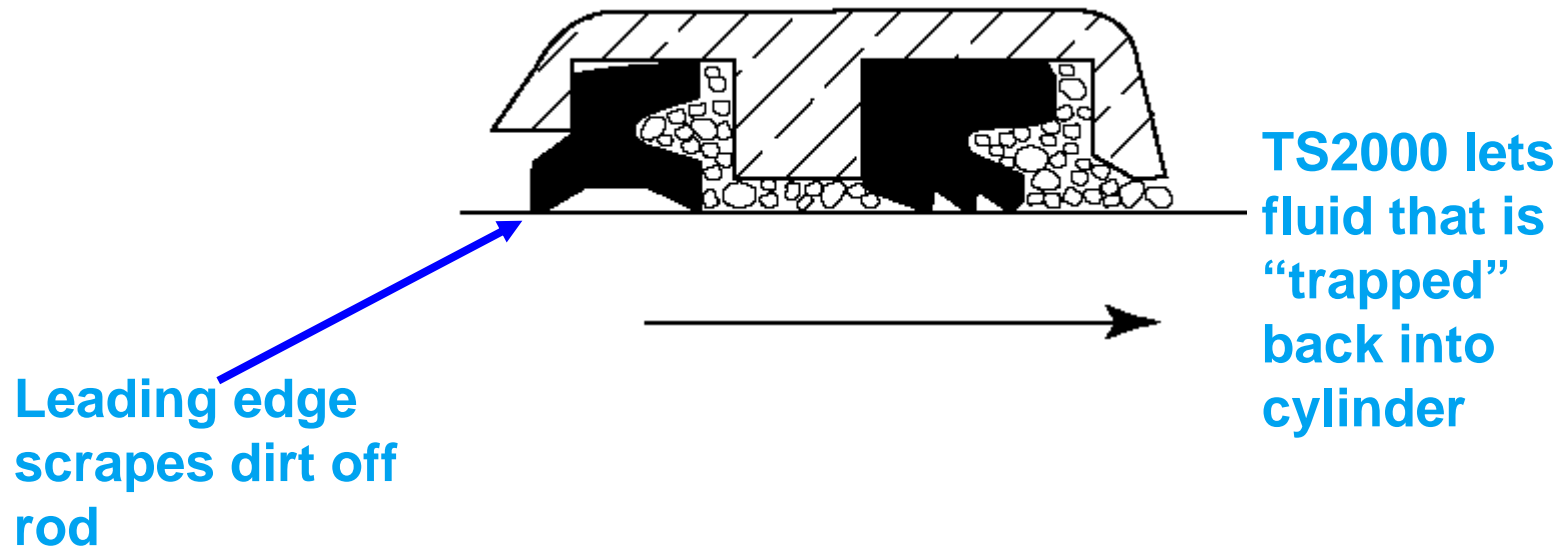
Design Features and Benefits

Parker Double lip rod
Wiperseal®



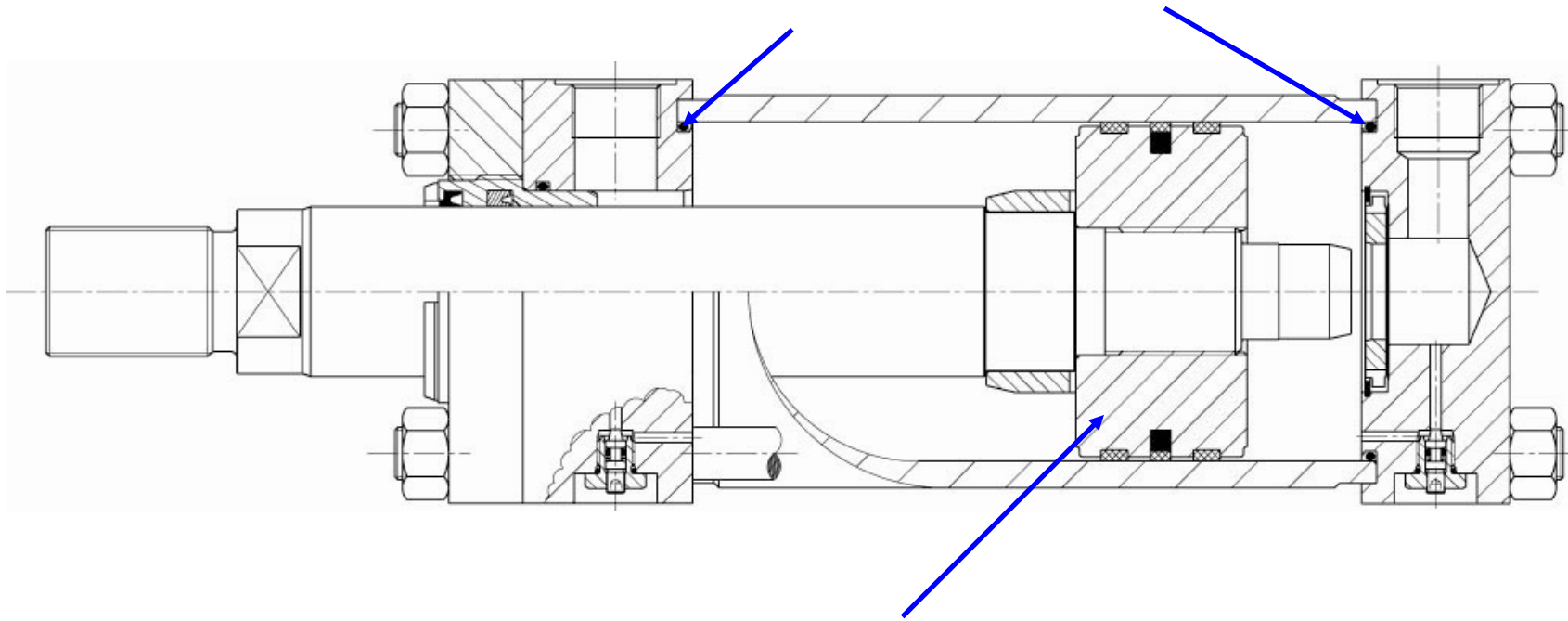
Design Features and Benefits

TS2000 Sealing System Return Stroke



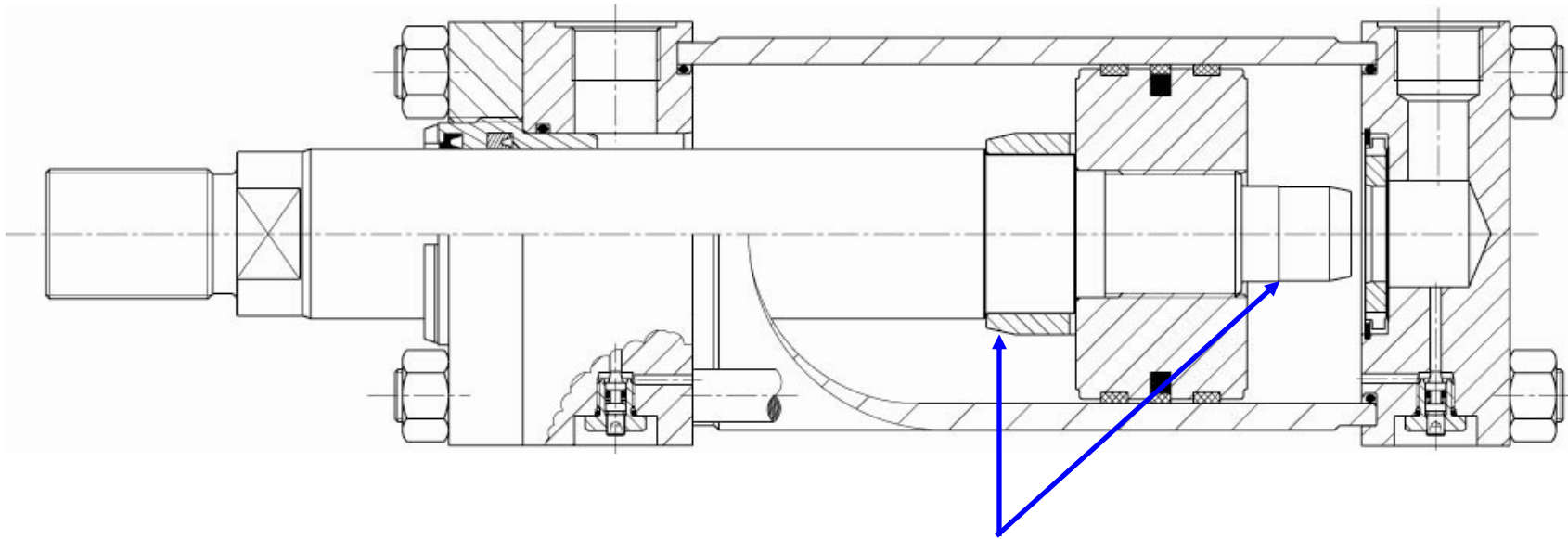
Design Features and Benefits

End Seals – Pressure actuated cylinder body-to-head and cap O-rings.



One-Piece Piston – Wide piston surface contacting the cylinder bore reduces bearing loads. Anaerobic adhesive is used to permanently lock and seal the piston to the rod.

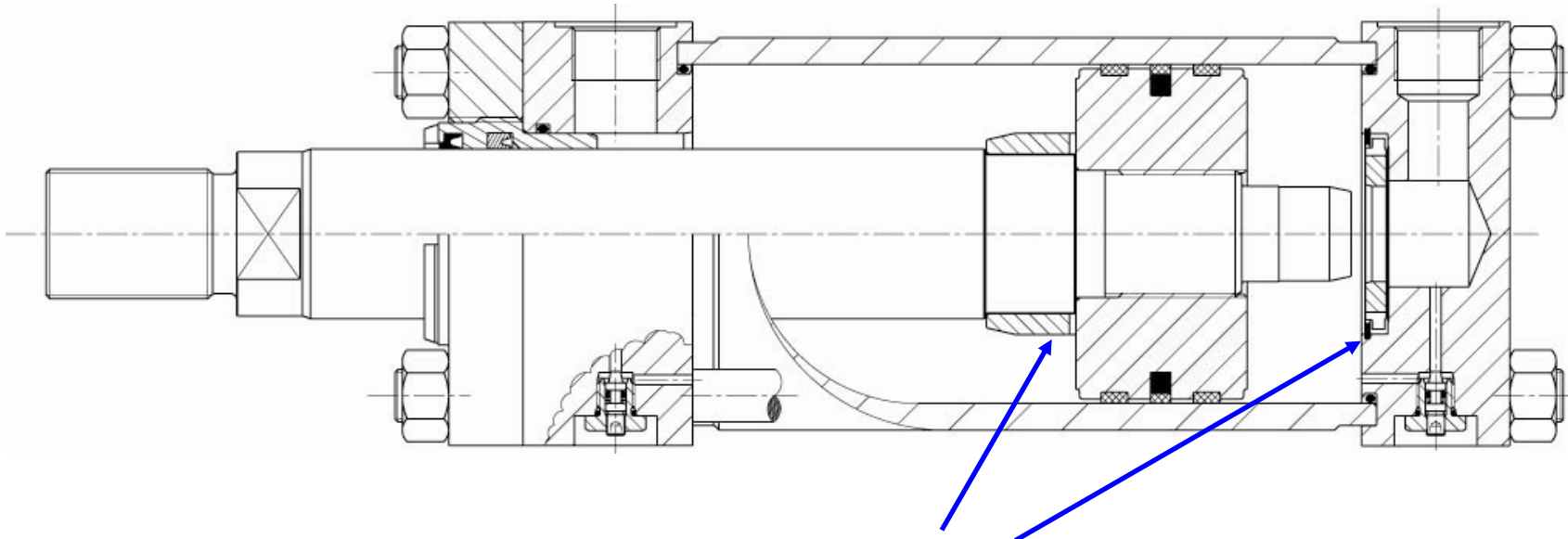
Design Features and Benefits



Adjustable cushions:

Optional at either or both ends.

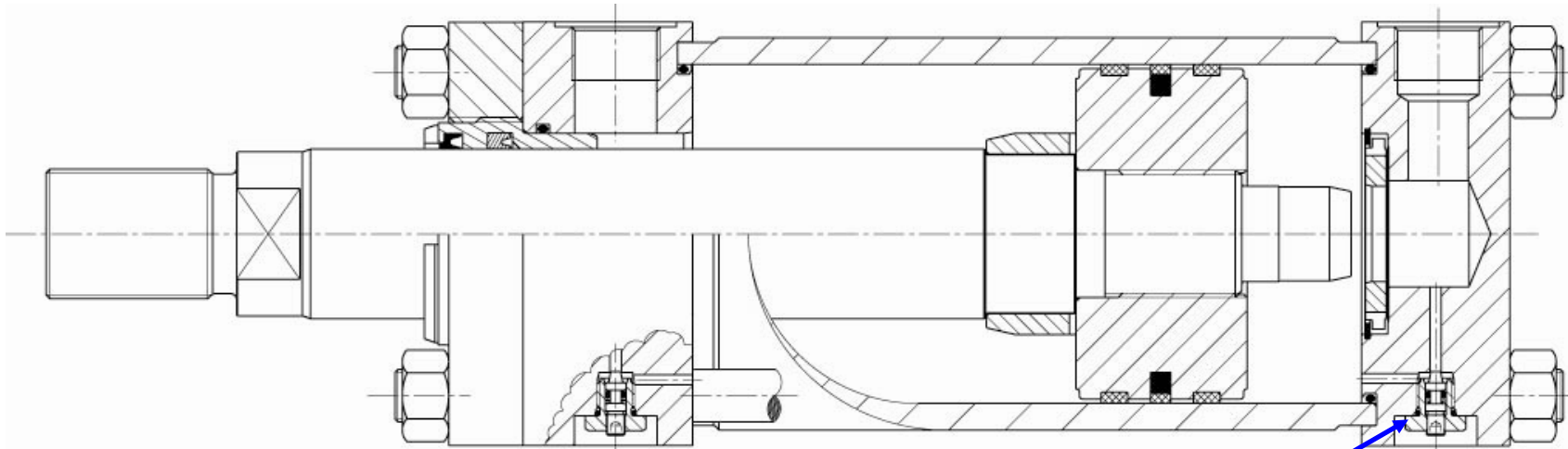
Design Features and Benefits



Floating Cushion Bushing and Sleeve

More consistent cushion effect with a floating cushion sleeve and floating cushion bushing.

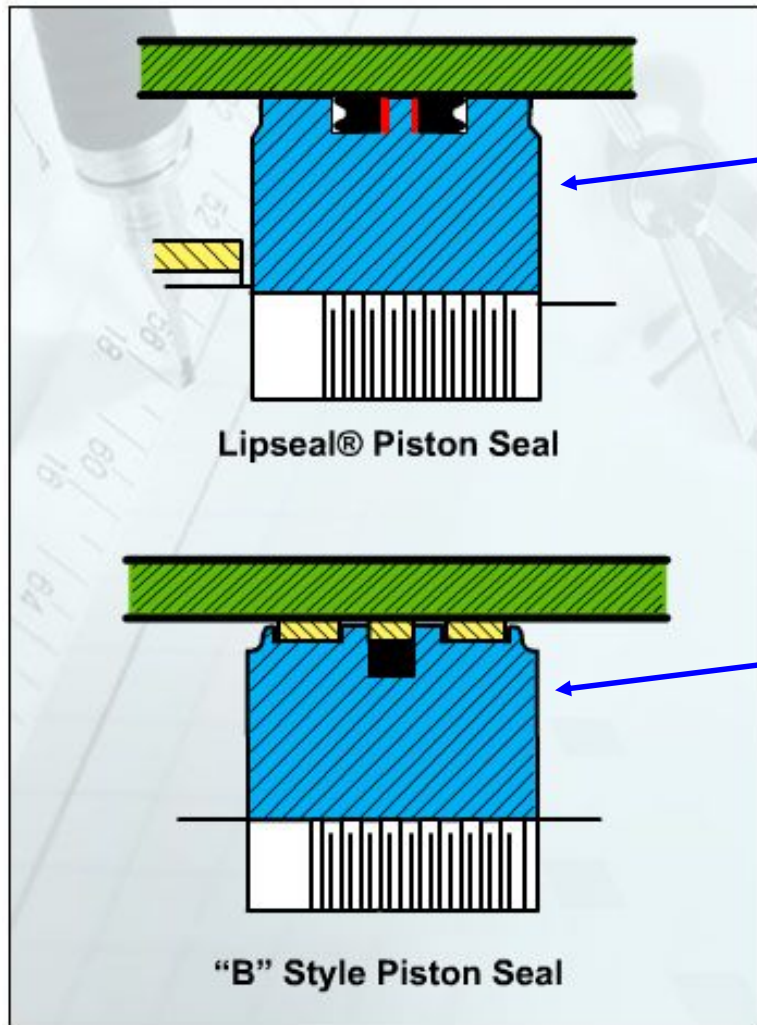
Design Features and Benefits



Cushion Adjustment

Needle valves are provided at each cushioned end for precise cushion adjustment.

Design Features and Benefits



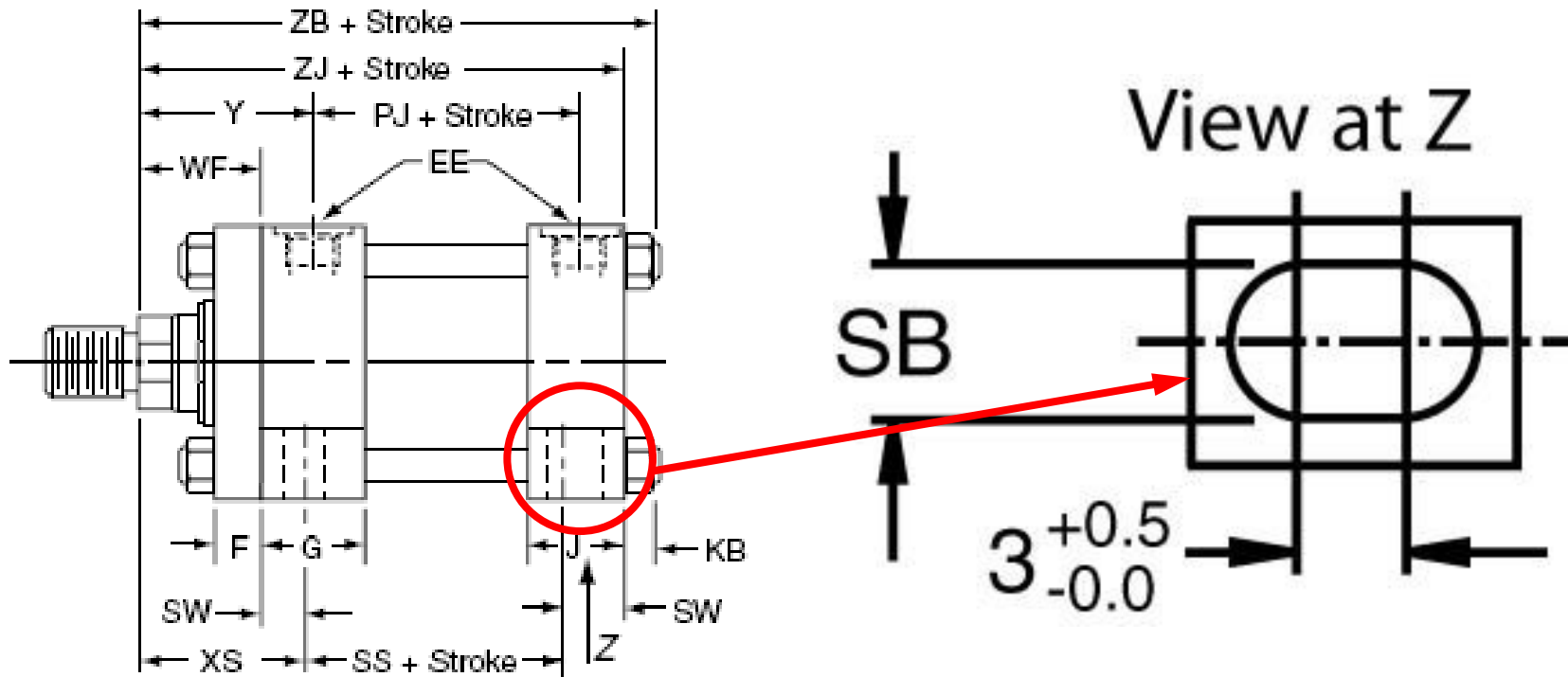
Lipseal Piston

Standard on 25mm, 32mm and 40mm.

B Style Piston

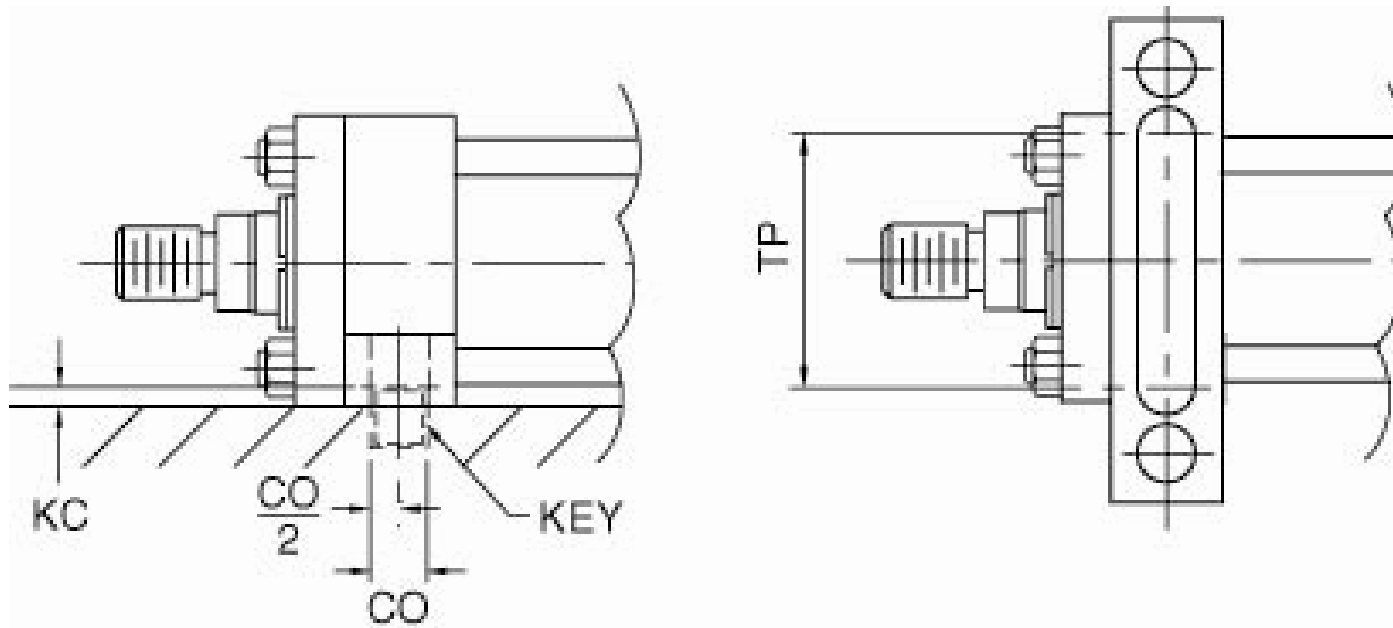
Standard on 50mm bores and larger.

Design Features and Benefits – C Mount



Slotted feet at the cap end allow for dimensional variations resulting from tolerance build-up during cylinder construction, making assembly to the machine easier and quicker.

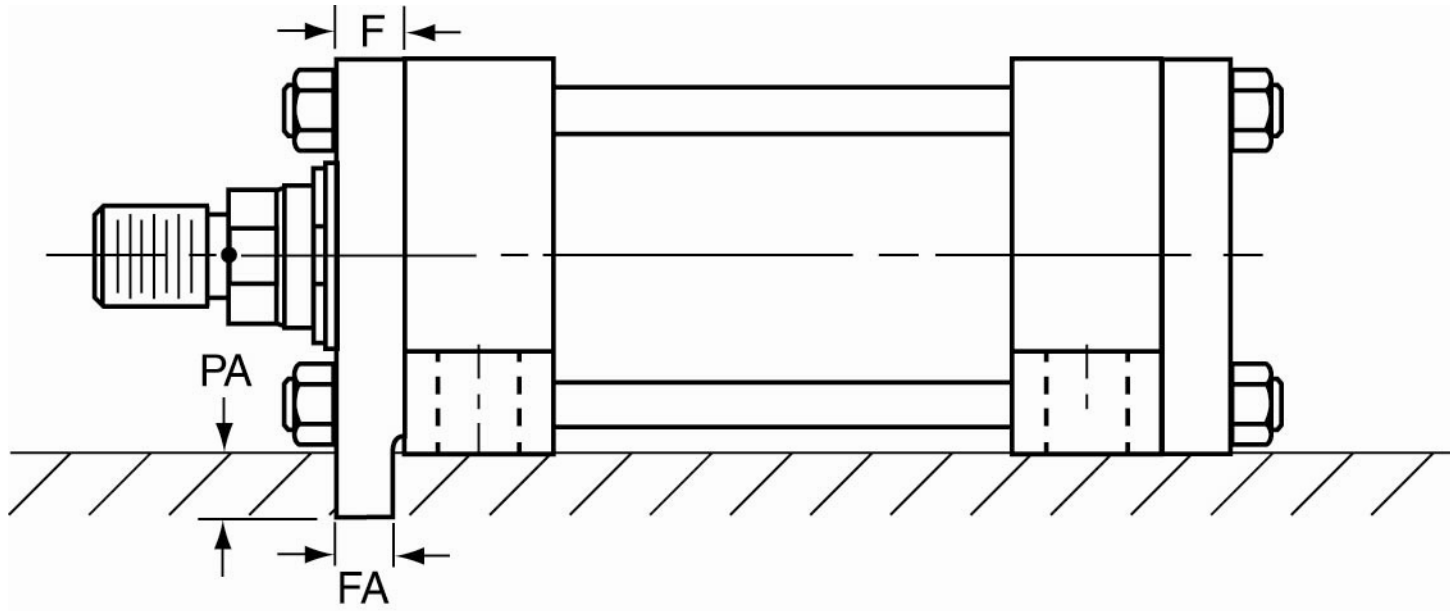
Design Features and Benefits – Key Slot



40mm – 100mm Bores

New thrust key slot in head (replaces extended gland retainer plate) resists the turning moment which results when force is not applied to the center line of a cylinder. Key is included.

Design Features and Benefits – Key Plate



25mm – 32mm Bores

Extended gland retainer plate design for key function remains for smallest two bore sizes.