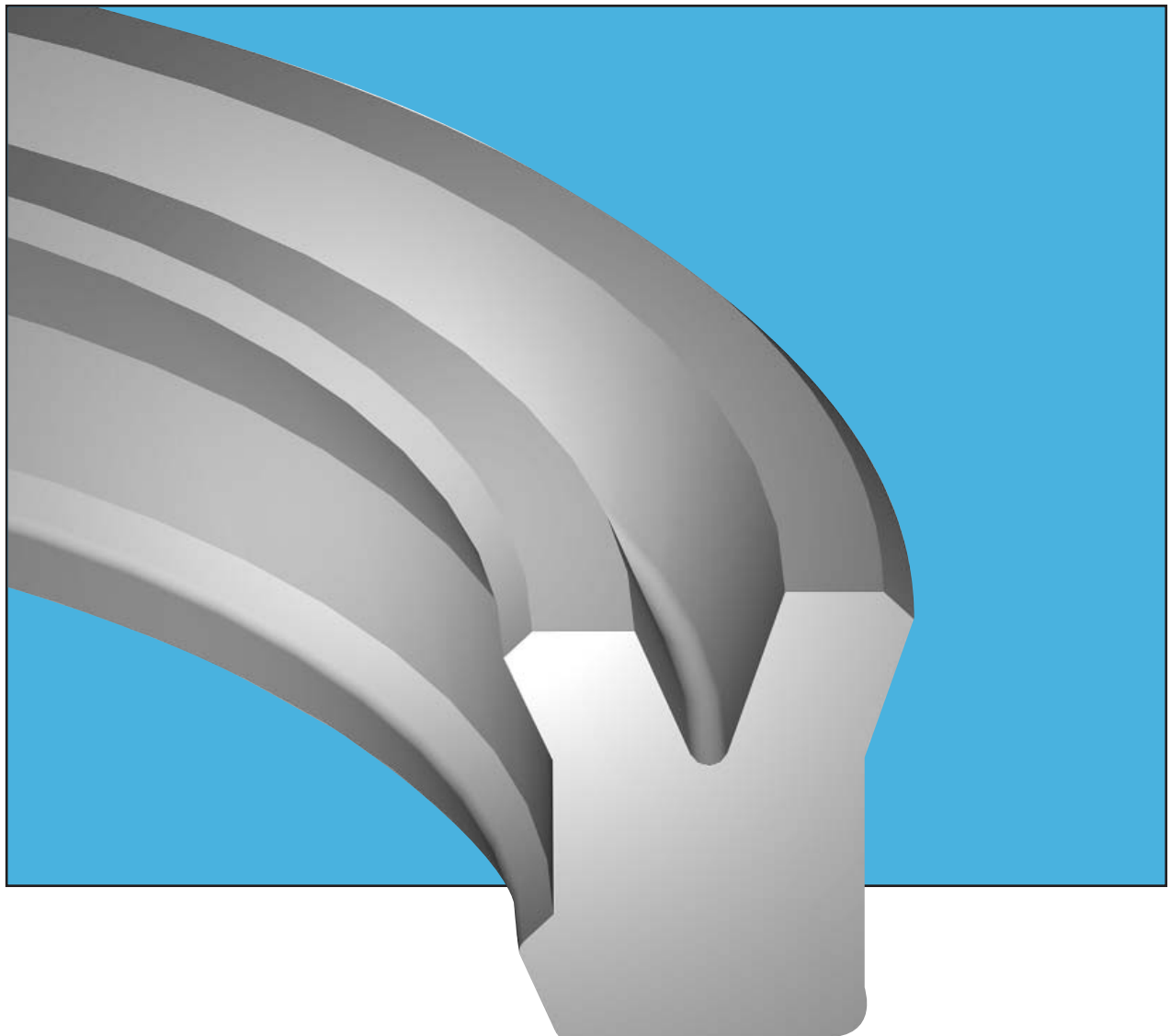




MACROTECH POLYSEAL, INC.

UBR Seals
UBR-Style U-Cup



UBR-1000

Rev. #UBR1000-B

UBR-1000

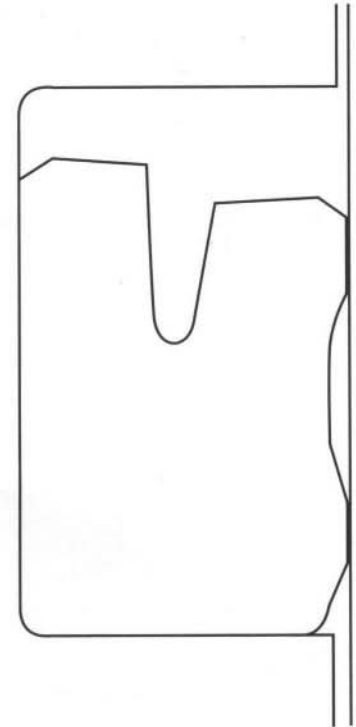
MACROTECH/POLYSEAL UBR SEALS

Redundant lip rod seals, for reduced leakage in medium service conditions.

TROUBLE FREE SERVICE

The UBR style U cup is a single element seal with generous lead-in angles for simple assembly every time. The 93 shore A Lubrithane material provide good service from -40F to over 225F in most hydraulic fluids.

Macrotech/Polyseal UBR Seal provides efficient rod sealing under most conditions. UBR seals combine the latest in rod seal design technology with the advantages of "Net Molded" manufacturing. Net molded single element seals are simple and repeatable. Since there are no operator dependent process involved in the manufacture of these seals, each ring will be a replicate of the first. Modern technology such as Finite Element Analysis and Computer Operated Tool making assure that the design is functional and that all seals meet the design criteria.



STABILITY

The secondary seal lip provides constant contact with the cylinder rod. Changes in seal lip force due to seal instability are eliminated. The secondary seal lip helps the sealing performance compared to standard U cup designs.

SEALABILITY

The UBR style U cup has proved to have better performance than conventional U cups in rod seal leakage tests. Initial leakage is reduced by the secondary seal lip. Long term performance is enhanced by the improved stability of UBR style seals.

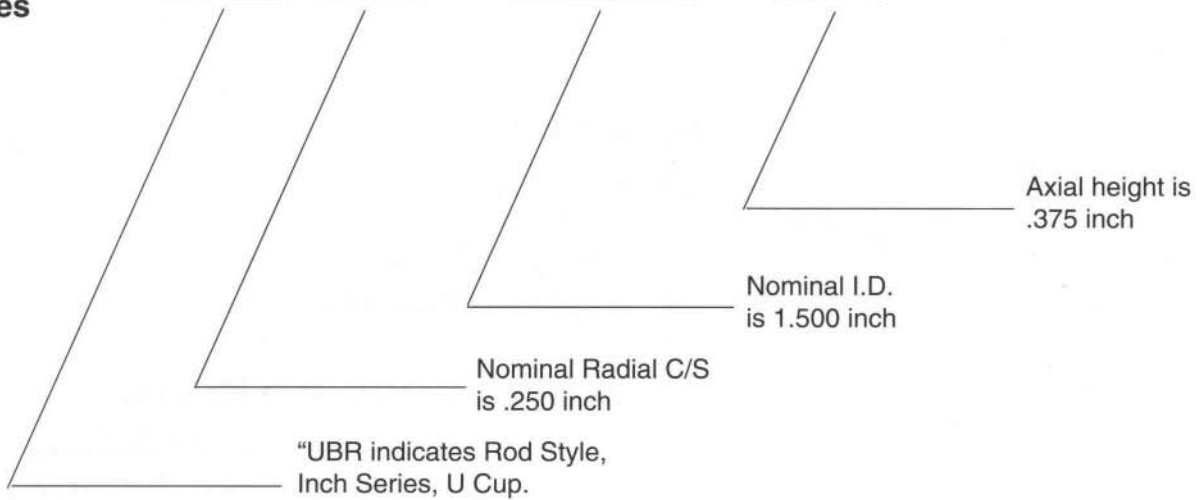
SEAL GLAND DESIGN

Macrotech/Polyseal UBR Seals fit the same seal glands as most other U cup seals. Refer to Engineering Guide MPS 2500, [Polyseal Engineering Tables](#), for recommended gland sizes - or contact Macrotech/Polyseal Engineering Department for assistance.

PART NUMBERING

Example size:
Inch Series

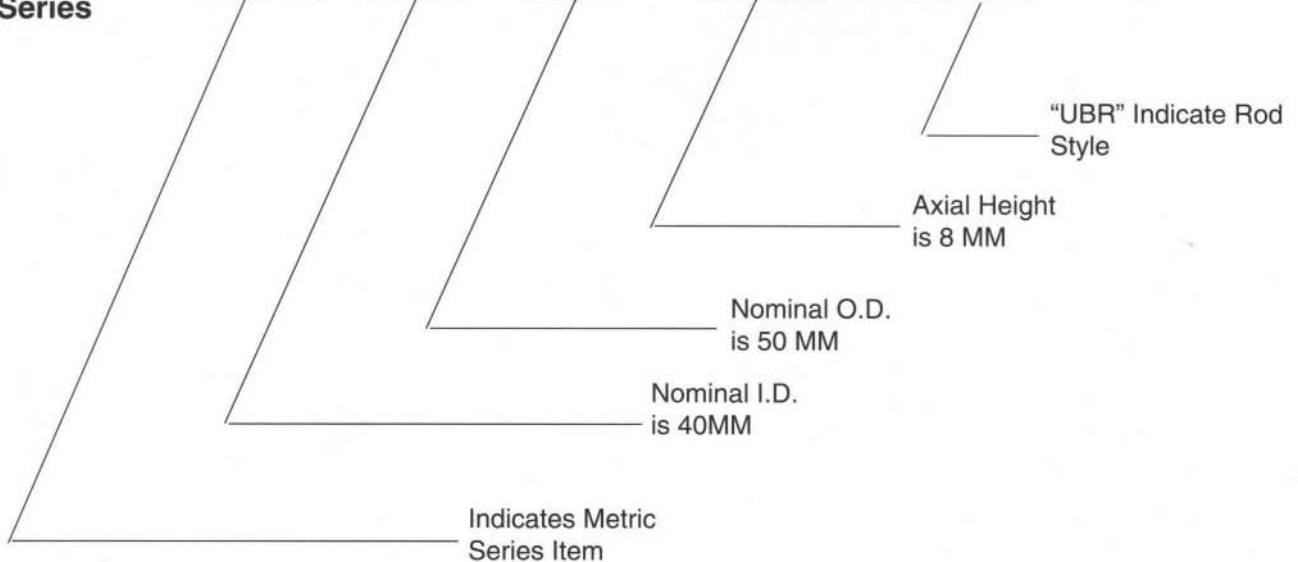
UBR-250 - 01.500 - 375



PART NUMBERING

Example size:
Metric Series

MPS-040 - 050 - 08,0 - UBR



MATERIALS

Macrotech/Polyseal UBR seals are made of Lubrithane U 1023. U1023 is a high temperature grade Polyurethane suitable for service for -40F to +225F in most hydraulic fluids. Its excellent set resistance makes it ideal for UBR seal. U1023 has the strength and cut resistance of Polyurethane combined with the set resistance and resilience expected from thermoset elastomer seals.

IMPORTANT NOTICE

We reserve the right to make changes without notice in our products and in the information and content of this brochure. The statements and information in the brochure are intended to serve only as guides. There are not warranties or binding descriptions of the products.

NOTICE OF EXCLUSIVE WARRANTY AND REMEDY

Briefly, our exclusive warranty is against defects in materials and workmanship at the time of shipment. It is in lieu of all other warranties. *There is no implied warranty of merchantability or fitness for a particular purpose.* The exclusive remedy is replacement of defective products or, at our option, refund of their purchase price. *All damages exceeding the purchase price are excluded,* whether consequential or otherwise and regardless of cause. The terms and conditions on our printed quotation contain a much more complete statement of our Exclusive Warranty and Remedy.



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