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Engineering Action Request

(Please describe only **one** sealing application per E.A.R)

• CUSTOMER DATA •

Company Name _____ Customer #_____

Address _____ Date Submitted: _____

City _____ Date Required: _____

State, Zip, Country _____ Submitted By: _____

Telephone # _____ Fax #_____ ❑ OEM ❑ Distributor ❑ Rebuilder

Email _____

Contact Person _____ Title _____

Products Mfd/Sold/Serviced _____

• APPLICATION DATA •

1. Is this application: ❑ New Design ❑ Retrofit
2. Type of Seal: ❑ Piston (O.D.) ❑ Rod Scraper ❑ Rod (I.D.) ❑ Face (❑ Ext. ❑ Int.)
3. Specs: Part Number:_____ Size: _____
   Material:_____ Profile: _____
   Companion Parts: _____
4. Type of Motion: ❑ Reciprocating ❑ Rotary ❑ Static ❑ Oscillatory
5. Sudden changes in: ❑ Temperature ❑ Surface Speed ❑ Pressure
6. Temperature: ❑ °C ❑ °F Min._____ Normal _____ Max. _____
7. Pressure: ❑ Unidirectional ❑ Bidirectional
   ❑ kg/cm^2 ❑ PSI Min._____ Normal _____ Max. _____
   Vacuum: ❑ in Hg ❑ Torr Min._____ Normal _____ Max. _____
8. Stroke Length: ❑ mm ❑ in Min._____ Normal _____ Max. _____
9. Surface Speed: ❑ mm/sec ❑ ft/min Min._____ Normal _____ Max. _____
10. Cycle rate: ❑ strokes/sec ❑ strokes/min Min._____ Normal _____ Max. _____
11. Degrees of Rotation: Min. Normal _____ Max. _____
12. RPM: Min._____ Normal _____ Max. _____
13. Media being sealed:
14. If retrofit, please describe why customer wants to consider a new seal. _____

• PERFORMANCE DATA •

1. Maximum Allowable:
   Static Friction _____
   Dynamic Friction _____
   Fluid Leakage _____ ❑ Drops/Cycle ❑ cc/Hour ❑ Other_____
2. Desired service life: _____ ❑ Revolutions ❑ Cycles ❑ Surface meters ❑ Hours ❑ Surface feet ❑ Years
3. Any Special Requirements: _____

_____

ENGINEERING ACTION REQUEST

(Please describe only **one** sealing application per E.A.R)

• HARDWARE DATA •

All dimensions are in: ❑ Millimeters ❑ Inches

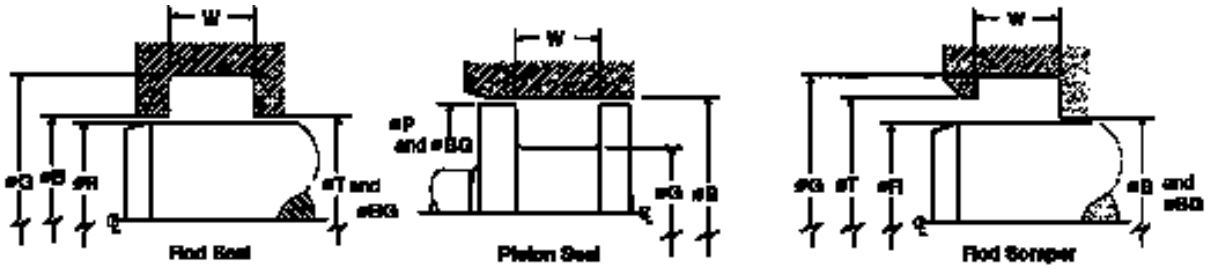
Bore:	øB_____	Tol. _____	Mat'l_____	Finish _____	Hardness _____
Piston:	øP_____	Tol. _____	Mat'l_____	Finish _____	Hardness _____
Throat:	øT_____	Tol. _____	Mat'l_____	Finish _____	Hardness _____
Groove:	øG _____	Tol. _____	Mat'l_____	Finish _____	Hardness _____
Width:	W _____	Tol. _____	Mat'l_____	Finish _____	Hardness _____
Rod:	øR _____	Tol. _____	Mat'l_____	Finish _____	Hardness _____
Bearing:	øBG _____	Tol. _____	Mat'l_____	Finish _____	Hardness _____

1. Can hardware design be changed ❑ Yes ❑ No How? _____

_____

2. Reference design specifications: _____

3. Indicate applicable hardware design requirements in sketches below while showing pressure magnitude and directions (with arrows).



SKETCH AREA

4. Drawings, sketches, other information attached: ❑ Yes ❑ No How?

_____

• COMPETITIVE DATA •

1. Who is competitor? _____
2. What is competitor's product? _____
3. What wins the order? ❑ Performance ❑ Price ❑ Delivery ❑ Other _____
4. Are prototypes required? ❑ Yes ❑ No How many? When?
5. Estimated sales volume: _____ Pieces, sets/month, year, project...