



Signal Industrial Products Corp.

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213 Omohundro Place - Nashville, TN 37210 - Phone 615-254-0753

2046 Beltline Road S.W. - Suite 3 - Decatur, AL 35601 - Phone 256-355-0077

COMPANY:		FAX NUMBER:	
ADDRESS:		P.O. BOX:	MAIL STOP:
CITY:	STATE:	ZIP:	COUNTRY:
CONTACT:	TITLE:	PHONE:	EXT:
ALT. CONTACT:	TITLE:	PHONE:	EXT:
NAME OF PERSON SUBMITTING DATA:		E-MAIL:	

MOTION

STATIC RECIPROCATING OSCILLATORY ROTARY

PRODUCT TYPE

NON-ROTARY - FILL OUT PAGE 2

ROD/SHAFT WIPER
 PISTON BEARING
 INTERNAL FACE VANE
 EXTERNAL FACE NON-SEAL

ROTARY - FILL OUT PAGE 3

SOLID SEAL PTFE LIP SEAL
 SPLIT SEAL ELASTOMER LIP SEAL
 BEARING ISOLATOR

EXPANSION JOINTS - FILL OUT PAGE 4

EQUIPMENT/MANUFACTURER:

MODEL NO.:

EXISTING SEAL MANUFACTURER:

PART NO.:

REASON FOR CHANGE: PERFORMANCE DELIVERY NEW APPLICATION PRICE

CURRENT PRICE: \$ @ PCS MONTHLY USAGE: HOURS OPERATION: HOURS SERV. LIFE:

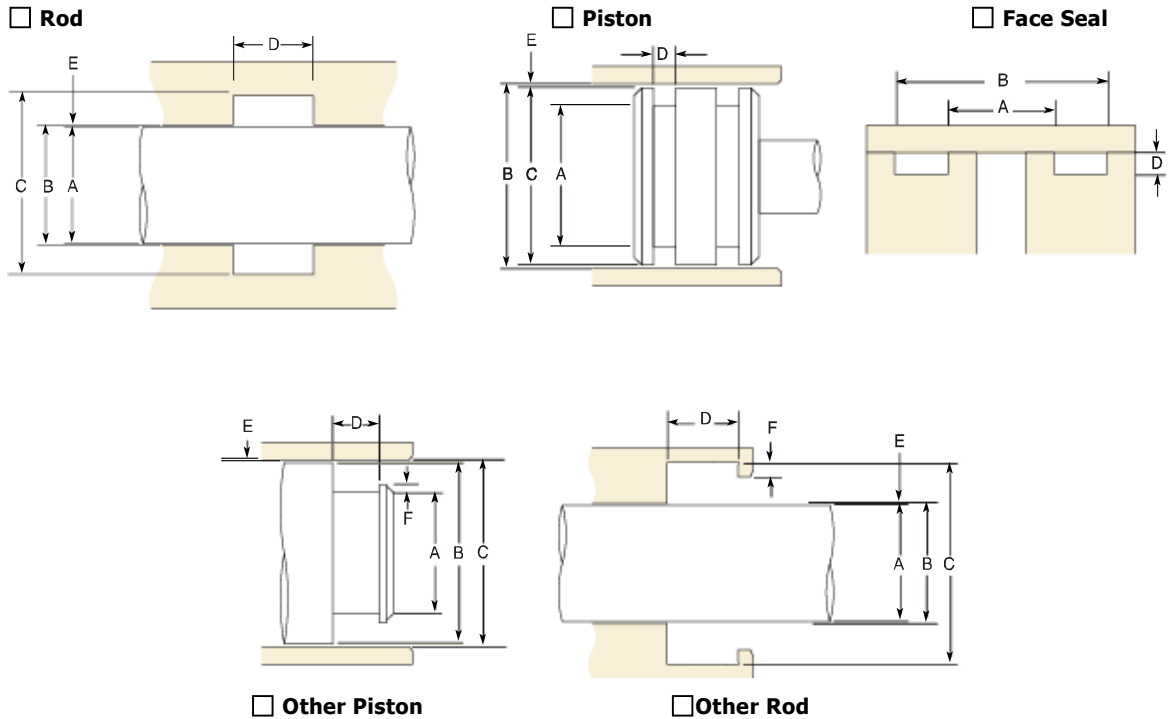
TARGET PRICE: \$ @ PCS QUOTE QTY.: PROTO QTY.: DATE PROTO REQ'D.:

SPECIAL INSPECTION REQUIREMENTS: YES NO | SPECIAL PACKAGING REQUIREMENTS: YES NO

EXPLAIN:

NON-ROTARY SEALS

OPERATING PARAMETERS	UNITS	MINIMUM	OPERATING	MAXIMUM
TEMPERATURE:	<input type="checkbox"/> °K <input type="checkbox"/> °F <input type="checkbox"/> °C			
PRESSURE:	<input type="checkbox"/> PSI <input type="checkbox"/> BAR <input type="checkbox"/> MPA			
STROKE LENGTH (RECIPROCATING):	<input type="checkbox"/> INCH <input type="checkbox"/> MM			
CYCLE RATE:	<input type="checkbox"/> /MIN <input type="checkbox"/> /HR <input type="checkbox"/> HZ			
DEGREE OF ARC (OSCILLATING):	DEGREES			
VELOCITY:	<input type="checkbox"/> FT/MIN <input type="checkbox"/> MM/MIN			
VACUUM:	<input type="checkbox"/> IN HG <input type="checkbox"/> TORR			
MEDIA TO BE SEALED:				



HARDWARE SPECIFICATIONS

A – DIAMETER:	MIN.	MAX.
B – DIAMETER:	MIN.	MAX.
C – DIAMETER:	MIN.	MAX.
D – GROOVE WIDTH:	MIN.	MAX.
E – RADIAL CLEARANCE:	MIN.	MAX.
F – ROD/PISTON STEP HEIGHT:	MIN.	MAX.

SIDE LOAD (LBS. NEWTONS):

MIL-G-5514 O-RING DASH #: BACK-UP WIDTH:

AS4716 O-RING DASH #: BACK-UP WIDTH:

GLAND TYPE

- SPLIT OPEN
 SOLID STEPPED

METRIC

- YES NO

HARDWARE DRAWINGS INCLUDED WITH DAR: YES NO

HARDNESS	FINISH	MAT'L
HARDNESS	FINISH	MAT'L
HARDNESS	FINISH	MAT'L
CAN HARDWARE BE CHANGED? <input type="checkbox"/> YES <input type="checkbox"/> NO		
HOW?		

PERFORMANCE REQUIREMENTS

FRICTION: LBS OZ GMS BREAKOUT: DYNAMIC:

EXPECTED LIFE: CYC HRS YRS

MAX LEAKAGE: DROPS CC/MIN

MOST CRITICAL ASPECT:

CONTAMINATION:

ROTARY SEALS

SHAFT MOVEMENT

- CLOCKWISE
- COUNTERCLOCKWISE
- BIDIRECTIONAL

SHAFT POSITION

- HORIZONTAL
- VERTICAL UP
- VERTICAL DOWN

LUBRICATION METHOD

- OIL SPLASH, OIL LEVEL BELOW SHAFT
- OIL FLOODED, OIL LEVEL ABOVE SHAFT
- GREASE W/O PURGE
- GREASE WITH PURGE
- OIL PURGE

MEDIA TO SEAL IN:

MEDIA TO SEAL OUT:

ALLOWABLE LEAKAGE:

OPERATING PARAMETERS

UNITS

MINIMUM

OPERATING

MAXIMUM

TEMPERATURE:

- °K
- °F
- °C

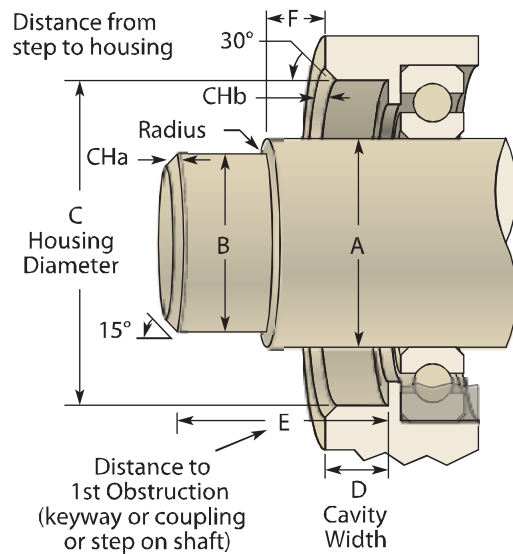
PRESSURE:

- PSI
- BAR
- MPA

FRICTIONAL TORQUE REQUIREMENTS:

- IN LB
- NM

DIMENSIONS LISTED ARE: <input type="checkbox"/> INCH <input type="checkbox"/> METRIC	
SHAFT AXIAL: ±	SHAFT TO BORE:
A – SHAFT: ±	B – SHAFT:
C – BORE: ±	E – DIST. TO FIRST:
D – BORE: ±	F – DIST. FROM HSG:
SHAFT (RPM):	SHAFT FINISH (RA):
SHAFT MATERIAL:	
BORE (RA):	BORE MATERIAL:
RUNOUT (TIR):	
ECCENTRICITY:	



SHAFT FEATURES:

- KEYWAY
- SPLINE
- SNAP RING GROOVE
- FDA MATERIAL REQUIRED
- O-RING GROOVE
- SEAL NEEDS TO EXCLUDE HIGH PRESSURE WATER SPRAY

SEAL INSTALLATION DATA

INSTALLATION DIRECTION:

- LIP FACES TOWARDS BEARING



- LIP FACES AWAY FROM BEARING



SEAL INSTALLED BY: PUSHING SEAL OVER SHAFT

PUSHING SHAFT THROUGH SEAL

IF SHAFT IS PUSHED THROUGH SEAL:

- SHAFT DIRECTION OPPOSES LIP DIRECTION



- SHAFT DIRECTION IS SAME AS LIP DIRECTION



Project Name:		Page	of
Specification No.:		Inquiry No:	Delivery Required Date:
Quantity Per Item:			
<input type="checkbox"/> New <input type="checkbox"/> Replacement (check one)		Please forward all drawings of ducting, expansion joints. If replacement, please furnish drawings of existing joint.	
SERVICE			
Type of plant/service: (Precipitator, scrubber, etc.)			
Type of fuel:		Percent sulfur:	
Peak load or base load:			
Number of startups and shutdowns per year:			
Location of expansion joint: (ID fan outlet, stack, etc.):			
DIMENSIONS			
Duct Size: (inside dimensions or diameter)			
Breech Opening:			
FLOW / MEDIUM			
Flowing Medium: (ex: air, flue gas, etc.)			
Dust Load: (PSF)		Flow Velocity: (FPS)	
Flow Direction: (check one)			
<input type="checkbox"/> UP	<input type="checkbox"/> DOWN	<input type="checkbox"/> HORIZONTAL	<input type="checkbox"/> ANGULAR UP <input type="checkbox"/> ANGULAR DOWN
PRESSURE:			
Design Pressure: (Inches Hg)		Maximum:	Minimum
TEMPERATURE:			
Gas Temperature: (°F)		Normal:	Continuous:
Maximum (Upset) Temperature: (°F):		Duration Per Event:	Cumulative Duration:
Ambient Temperature: (°F)		Minimum:	Maximum:
MOVEMENTS OF EXPANSION JOINT			
Axial Compression: (inches)		Axial Extension: (inches)	
Lateral Deflection: (inches)		One direction:	Second direction:
Angulation: (degrees)		Torsion: (degrees)	

DUCT		
Duct Material:	Duck Thickness (inches)	
Internal Liner / Baffle required?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
Comments/Notes (If any):		