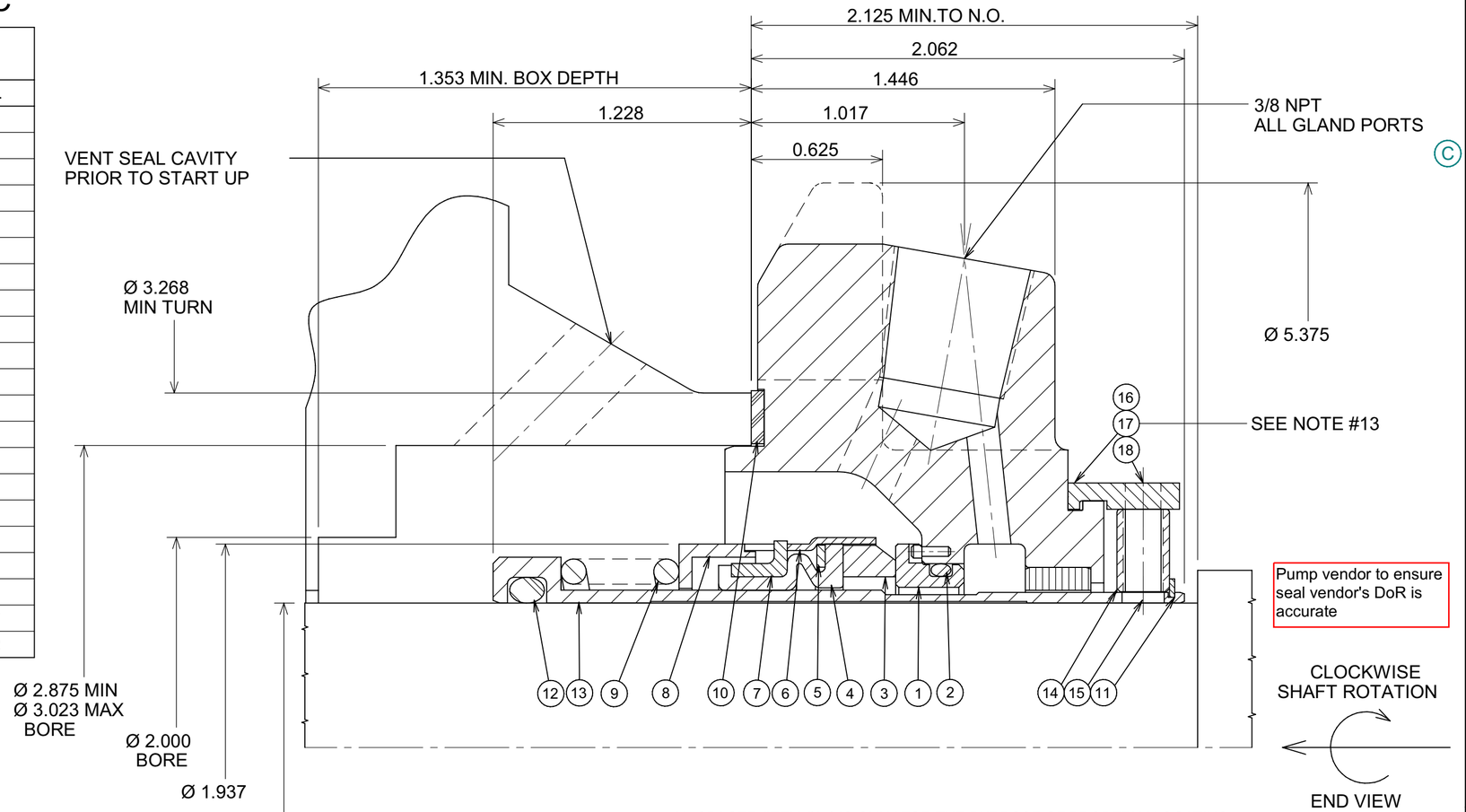
DRAWING No.	ISSUE	REVISION:
HSP-38062-2	B	A REV. 10-06-EC97-03225 B 00057495 APR05 C 00107457 FEB14

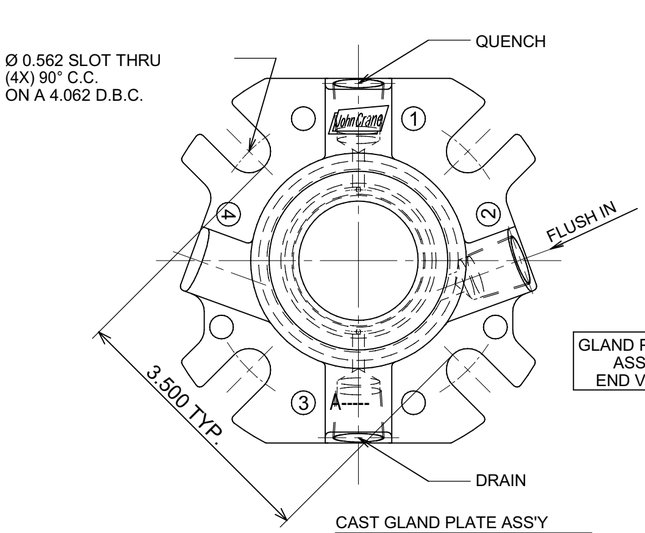
METRIC

ALL DIMENSIONS ARE IN INCHES	
IN.	M.M.
.001	.025
.002	.05
.040	1.02
.375	9.52
.562	14.27
.625	15.87
1.017	25.83
1.228	31.19
1.353	34.37
1.375	34.93
1.446	36.72
1.937	49.20
2.000	50.80
2.062	53.37
2.125	53.97
2.875	73.02
3.023	76.78
3.268	83.00
3.500	88.90
4.062	103.17
5.375	136.52



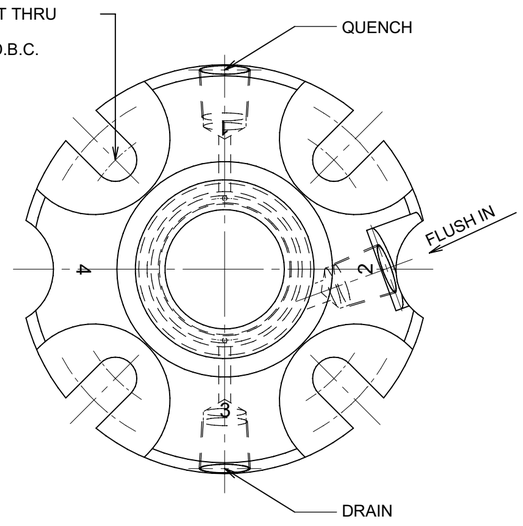
13. SPACER (ITEM #17) IS ONLY FOR THE PURPOSE OF PROPERLY LOCATING SEAL. AFTER GLAND PLATE, BEARING, SHAFT AND SEAL ARE LOCKED IN PLACE, SPACER MUST BE REMOVED BEFORE STARTING UNIT.

14. COOLING RECOMMENDATION: PROVIDE A FLUSH OF SUITABLE LIQUID TO THE SEAL



GLAND PLATE ASS'Y END VIEW

NOTE: CAST GLAND DESIGNED TO FIT COOLING JACKETS ON STANDARD PUMPS.



FOR ALTERNATE ARRANGEMENTS SEE THE FOLLOWING DRAWINGS

SINGLE O-RING SEAL	HSP-38057
RUBBER BELLOWS SEAL	HSP-38061
METAL BELLOWS SEAL	HSP-38063
O-RING SEAL W/QUENCH	HSP-38058
RUBBER BELLOWS W/QUENCH	HSP-38062
METAL BELLOWS W/QUENCH	HSP-38064
DUAL O-RING SEAL	HSP-38059
DUAL METAL BELLOWS WITH PUMPING RING	HSP-38066
DUAL O-RING SEAL W/PUMPING RING	HSP-38060
DUAL METAL BELLOWS	HSP-38065

	ITEM	DRAWING NUMBER	MATERIAL	SPARES QTY	
1	H 1375 872 9221	MATING RING	SILICON CARBIDE	1	X
2	0000 030 9549	O-RING	FLUOROELASTOMER	1	X
3	D 1501 270 9221	PRIMARY RING	SILICON CARBIDE	1	X
4	D 1500 278 5850	BELLOWS	FLUOROELASTOMER	1	X
5	D 1500 725 0550	DISC	316 S.S.	1	
6	D 1500 714 0550	RETAINER	316 S.S.	1	
7	D 1500 088 0550	DRIVE BAND	316 S.S.	1	
8	D 1502 364 0550	SPRING ADAPTER	316 S.S.	1	
9	2468	SPRING	316 S.S.	1	X
10	H 1375 950 7510	GASKET	G.F. CHEMLON	1	X
11	4101 4300 002 0500	SNAP RING	18-8 S.S.	1	X
12	0000 220 9549	O-RING	FLUOROELASTOMER	1	X
13	H 1375 905 0550	SLEEVE	316 S.S.	1	
14	H 1375 888 0550	COLLAR	316 S.S.	1	
15	1710 3206 000 0650	SET SCREW	HARDENED 416 S.S.	4	X
16	H 1375 954 7854	GLAND PLATE ASS'Y **	316 S.S./CARBON	1	
17	D 0002 684 0570	SPACER	SINTERED 316 S.S.	4	X
18	2108 3206 000 0550	SOCKET HEAD CAP SCREW	316 S.S.	4	X
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** H 1376 001 (MACHINED GLAND PLATE ASS'Y)

*** 3196 STX BIG BORE, TAPER BORE VPE, TAPER BORE AXIAL RIBS

TAG # 19-P-053 A/B

SEAL ASS'Y NO. IN- D 1502 471 OUT-	BILL OF MATERIALS NUMBER
MTG.RG.ASS'Y NO. IN- OUT-	COMPLETE 1-18 M59936 SEAL HD. MTG.RG. ASS'Y ITEMS NUMBER

EQUIPMENT REFERENCE	CUSTOMER INFORMATION:
UNIT BY: Griswold Pump	CUSTOMER:
EQUIPMENT TYPE: ☒ PUMP ☐ AGITATOR ☐ COMPRESSOR ☐ OTHER	P.O.NO. END USER: LOCATION:
MODEL / SIZE GRISWOLD 811 S 3x1.5-8 (AB)	REQ.NO.
SERIAL NO.	INSTALLED AT:

SEAL DATA	
A.P.I.PLAN A853 Plan 03 A.P.I.CODE	MATERIAL CODE: X1 O58 1 X O58 1 316/316

SERVICE DATA						
FLUID WATER, WASTE				BARRIER FLUID NOT APP.		
SEAL PRESSURE 5.9 PSIG	SUCT.PRESS. 0.0 PSIG			VISC.AT P.T. 1.0 CP		
TEMPERATURE 100-165 DEG F	DISCH.PRESS. 19.5 PSIG			V.P.AT P.T.		
SHAFT SPEED 1,750 RPM	SP.GR. 1.00			HAZARD CODE		
REFE Variable Speed	DRAWN	DATE	CHK'D	APP'D	SCALE	INST CODE
E.P.#2270-9702	LFK	021897	DSC	MGK	2:1	
	FILE REFERENCE	CAT	DRAWING No.			ISSUE
CAD ENGINEERED	MG-01	D	H-SP-38062-2			B

SEAL SIZE: Ø 1.375
SEAL TYPE: T-5611-Q BIG BORE VERSION

JOHN CRANE INC.
International Sealing Systems
6400 Oakton Street
Morton Grove, IL 60053, U.S.A.

THE FOLLOWING NOTES ARE IMPORTANT AND MUST BE OBSERVED FOR CORRECT SEAL INSTALLATION AND OPERATION

1. REMOVE ALL SHARP EDGES ON SHAFT AND/OR SLEEVE BEFORE INSTALLATION OF SEAL.
2. SURFACE OF SHAFT OR SLEEVE ON WHICH SEAL IS INSTALLED MUST BE MACHINED TO RA 63 FINISH OR BETTER.
3. LUBRICATE SHAFT/SLEEVE & SEAL WEDG[redacted]S TO ASSIST INSTALLATION OF SEAL WITH COMPATIBLE LUBRICANT.
4. LUBRICATE MATING RING (SEAT),SEALING MEMBER AND HOUSING TO ASSIST INSTALLATION. SUITABLE
5. LIQUID MUST BE CIRCULATED AROUND PRIMARY RING (SEAL FACE)/THROUGH MATING RING (SEAT) (AT NOT LESS THAN [redacted]) IN ORDER TO REMOVE HEAT GENERATED,OR FAILURE MAY OCCUR.
6. WHEN SHAFT IS SLEEVED THROUGH STUFFING BOX, SLEEVE MUST BE LIQUID TIGHT THROUGH BORE.
7. SHAFT OR SLEEVE MUST BE CORROSION RESISTANT MATERIAL WITH A HARDNESS OF 125 BRINELL MINIMUM & BE MACHINED TO DIMENSIONS & TOLERANCES STATED.
8. END OF SEAL CHAMBER & AXIS OF SHAFT MUST BE AT 90° TO EACH OTHER WITHIN F.I.M. .002
9. [redacted]
10. BEFORE COMPLETING SEAL INSTALLATION WIPE LAPPED SURFACES OF MATING RING (SEAT) & PRIMARY RING (SEAL FACE) PERFECTLY CLEAN.
11. VENT GAS ENTRAPMENT BEFORE STARTUP.
12. ALL SHOULDERS OVER WHICH SEAL MUST PASS WHEN FITTING, TO BE PREPARED AS DIAGRAM BELOW.