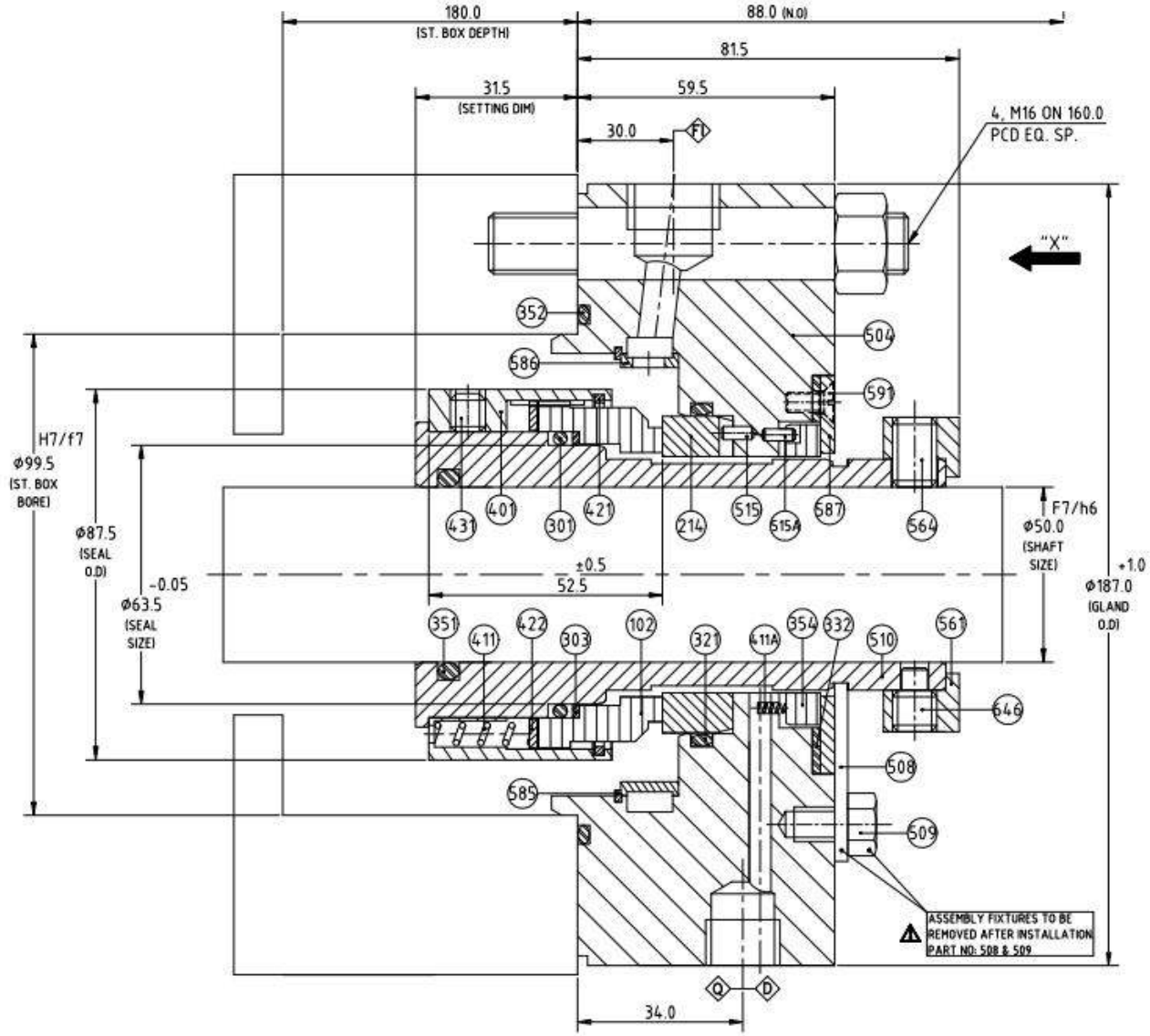
DWG NO: L08070A(0)

PRODUCT CODE: -

BILL OF MATERIAL

◆ RECOMMENDED SPARE PARTS

SR.NO	PART NO	DESCRIPTION	MATERIAL	Q.TY.	SPARE
1	182	SEAL RING	CARBON	1	◆
2	214	MATING RING	SiC	1	◆
3	381	O-RING	FKM	1	◆
4	303	BACK UP RING	PTFE	1	◆
5	321	O-RING	FKM	1	◆
6	332	PLAIN GASKET	PTFE	1	◆
7	351	O-RING	FKM	1	◆
8	352	O-RING	FKM	1	◆
9	354	THROTTLE BUSH	CARBON-R	1	
10	401	RETAINER	SS 316	1	
11	411	SPRING	HAST-C	8	◆
12	411A	SPRING	HAST-C	6	◆
13	421	SNAP RING	SS 316	1	
14	422	THRUST RING	SS 316	1	
15	431	GRUB SCREW	SS 316	4	◆
16	504	GLAND	SS 316	1	
17	508	LOCATION PLATE	SS 316	4	
18	509	HEX SCREW	SS 316	4	
19	510	SLEEVE	SS 316	1	
20	515	LOCK PIN	SS 316	1	
21	515A	LOCK PIN	SS 316	1	
22	561	DRIVE COLLAR	SS 316	1	
23	564	GRUB SCREW	SS 316	4	◆
24	585	SNAP RING	SS 316	1	
25	586	SPECER	SS 316	1	
26	587	FLANGE	SS 316	1	
27	591	COUNTER SUNK SCREW	SS 316	4	
28	646	DOG SCREW	SS 316	4	



API 682
Fourth Edition Seal

CODE	DETAIL	SIZE	API PLAN
D	DRAIN	3/8" NPT	62
Q	QUENCH	3/8" NPT	62
FI	FLUSHING INLET	1/2" NPT	11

CONNECTIONS

PLAN	DESCRIPTION
11	SEAL FLUSH FROM PUMP DISCHARGE THROUGH ORIFICE
62	EXTERNAL QUENCH ON ATMOSPHERIC SIDE OF SEAL

API PLAN DESCRIPTION

API PLAN:	11	62
FLUID TYPE:	FLUSHING	QUENCH
FLUID:	PUMPED FLUID	CLEAN WATER
FLUID PR:	ST. BOX PR. + 2 KG/CM2	0.2-0.3 KG/CM2
FLUID TEMP:	PUMPED FLUID TEMP.	AMBIENT
FLOW RATE:	4-6 LPM	1-2 LPM

API PLAN DETAILS

SUC PR:	1.99 TO 2.25 BAR G	FLUID:	DRINKING WATER
DISC PR:	6.99 BARG	TEMP:	AMBIENT
BOX PR:	-	VISCOSITY:	-
HEAD:	-	SP.GR:	-
RPM:	1500	VAP PR:	-

OPERATING PARAMETERS

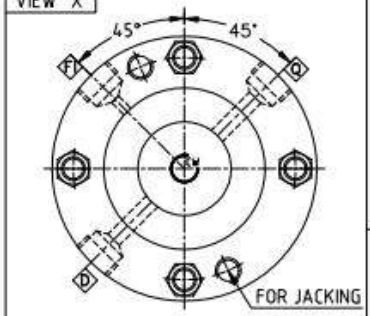
BUYER:	LEAK-PROOF PUMPS & SEALS MIDDLE EAST L.L.C		
USER:	-		
EQPT TYPE:	PUMP	SEAL ORIENT:	HORIZONTAL
EQPT MAKE:	GABIONADE	TAG NO:	R80G02A
EQPT MODEL:	C 300 G	REF. DRG. NO:	-

CUSTOMER/EQUIPMENT DETAILS

REVISIONS

REV	DETAILS	ZONE	APVD	ECN #	DOCUMENT #	DATE

VIEW "X"



INSTALLATION AND OPERATION INSTRUCTIONS

1. SEAL SHOULD BE OPERATED WITHIN PRESCRIBED PARAMETERS. IN ABSENCE OF ANY PARAMETER IN THIS DRAWING, USER SHALL CONSULT LEAK-PROOF ENGINEERING BEFORE USE.
2. ALL SEAL PARTS ARE CRITICAL. OBSERVE CLEANLINESS AND EXTRA CARE WHILE HANDLING.
3. REMOVE ALL SHARP EDGES ON SHAFT/SLEEVE BEFORE INSTALLATION.
4. LUBRICATE SHAFT/SLEEVE AND WEDGE/O-RING TO ASSIST INSTALLATION. DO NOT USE OIL/GREASE ON EPR/EPDM O-RING. DO NOT USE SILICON BASED GREASE ON SILICON O-RING. LUBRICATE THEM WITH WATER OR SOAP BASED SOLUTION.
5. BLEED ALL LINES AND SEAL CHAMBER AND ENSURE THAT ALL CONNECTIONS ARE TIGHT.
6. OPEN ALL FLUSHING/QUENCHING VALVES AND ENSURE FLUID FLOW ON MULTIPLE SEAL ARRANGEMENTS PRIOR TO EQUIPMENT START-UP.
7. FOR DETAILED INSTALLATION, OPERATION AND DISPOSAL INSTRUCTIONS PLEASE READ THE APPROPRIATE LEAK-PROOF ENGINEERING SEAL OPERATING MANUAL.

EQUIPMENT CONDITION

SYMBOL	DESCRIPTION		VALUE
	SHAFT/SLEEVE RUNOUT (PER 1mm OF SHAFT DIAMETER)		0.001mm TIR
	BOX/PAD FACE RUNOUT WITH RESPECT TO SHAFT AXIS (PER 1mm OF SHAFT DIAMETER)		0.001mm TIR
	BOX/PAD BORE CONCENTRICITY WITH RESPECT TO SHAFT AXIS (PER 1mm OF SHAFT DIAMETER)		0.001mm TIR
	SHAFT AXIAL MOVEMENT (END PLAY)		0.15mm TIR
	SHAFT/SLEEVE SURFACE ROUGHNESS	O-RING	0.8µm Ra
		WEDGE/V-PACK	0.25µm Ra
	BOX/PAD FACE SURFACE ROUGHNESS		1.6µm Ra
	BOX/PAD BORE SURFACE ROUGHNESS		3.2µm Ra

GENERAL NOTES
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED.
2. DO NOT SCALE THIS DRAWING, PLEASE ASK IF IN DOUBT.
3. RECOMMENDED SPARES ARE MENTIONED IN BILL OF MATERIAL
4. PARTS NOT NUMBERED ARE IN CLIENT'S SCOPE.

MECHANICAL SEAL DETAILS

SEAL SERIES:	LPA90S	IB SEAL SIZE:	2.5"
		OB SEAL SIZE:	-
SEAL CONSTRUCTION:	CARTRIDGE SEAL	SHAFT SIZE:	50.0mm

MATERIAL CODE							
INBOARD	V	J	I	U	H	14
OUTBOARD	-	-	-	-	-	-

API SEAL CODE:	21A-LFN-050-11/62	SPRT SYS DRG NO:	-

ORDER DETAILS

DRF. NO:	EXP/LP/PS/23-24/45	DRF. DATE:	14-10-2023
P.O. NO:	-	P.O DATE:	-
OFM. NO:	-	OFM. DATE:	-
O.A.NO:	-	O.A. DATE:	-

LEAK-PROOF ENGINEERING (I) PVT. LTD.
MUMBAI, INDIA
WWW.LEAKPROOFSEALS.COM | INFO@LEAKPROOFSEALS.COM

DRWN: ODM	SIZE: A2	DWG. NO: L08070A	REV: 0	ISSUE: P0	FIRST ANGLE PROJECTION		
CHKD: BKP							
APVD: BKP	DATE: 25-10-2023	SCALE: NTS	WGT: -	SHEET: 1 OF 1			