



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 AND OPERATION INSTRUCTIONS PLEASE READ THE APPROPRIATE LEAK-PROOF ENGINEERING SEAL OPERATING MANUAL.

EQUIPMENT CONDITION		
SYMBOL	DESCRIPTION	VALUE
	SHAFT/SLEEVE RUNOUT (PER 1mm SHAFT DIAMETER)	0.001mm TIR
	BOX/PAD FACE RUNOUT WITH RESPECT TO SHAFT AXIS (PER 1mm OF BOX/PAD DIAMETER)	0.0005mm TIR
	BOX/PAD BORE CONCENTRICITY WITH RESPECT TO SHAFT AXIS (PER 1mm SHAFT DIAMETER)	0.001mm TIR
	SHAFT AXIAL MOVEMENT (END PLAY)	0.15mm TIR
	SHAFT/SLEEVE SURFACE ROUGHNESS	0.4-0.8µm 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:		IB SEAL SIZE:	
		OB SEAL SIZE:	
SEAL CONSTRUCTION:		SHAFT SIZE:	
		CARTRIDGE SEAL	
MATERIAL CODE	INBOARD		
	OUTBOARD		
API SEAL CODE:		SPRT SYS DRG NO.:	

ORDER DETAILS

DRF. NO.:	DRF. DATE:
P.O. NO.:	P.O. DATE:
OFM. NO.:	OFM. DATE:
O.A. NO.:	O.A. DATE:

**LEAK-PROOF ENGINEERING (I) PVT. LTD.**  
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DRWN:	SIZE:	DWG. NO.:	REV:	ISSUE:	FIRST ANGLE PROJECTION 
CHKD:					
APVD:		SCALE:	WGT:	SHEET:	

API PLAN DESCRIPTION		API PLAN DETAILS			OPERATING PARAMETERS		CUSTOMER/EQUIPMENT DETAILS	
PLAN	DESCRIPTION	API PLAN:			SUC PR:	FLUID:	BUYER:	
		FLUID TYPE:			DISC PR:	TEMP:	USER:	BRAHMAPUTRA VALLEY FERTILIZERS
		FLUID:			BOX PR:	VISCOSITY:	EQPT TYPE:	SEAL ORIENT.:
		FLUID PR:			VES PR:	SP.GR:	EQPT MAKE:	TAG NO.:
		FLUID TEMP:			RPM:	VAP PR:	EQPT MODEL:	REF. DRG. NO.:
		FLOW RATE:						

JACKET HEATING AND INJECTION DETAIL