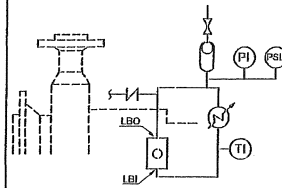


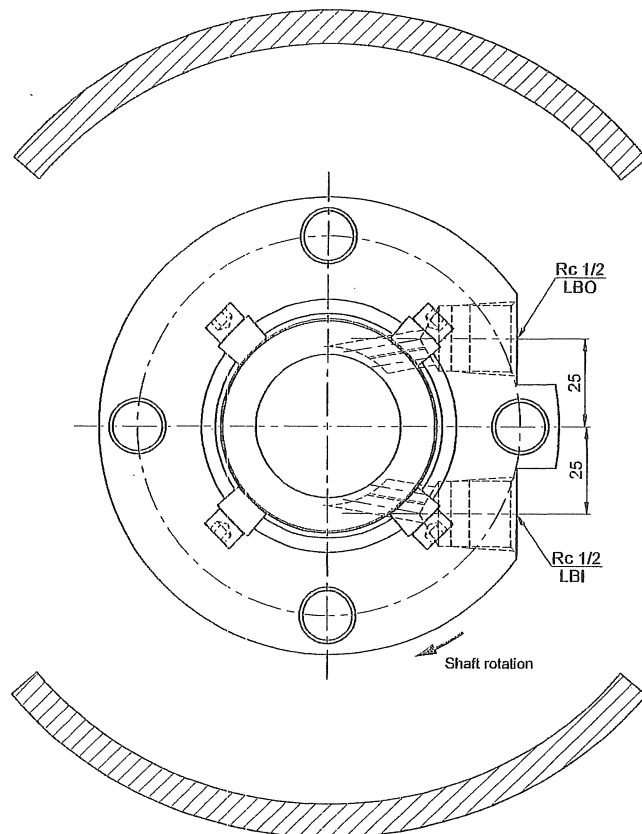
PIPING REQUIREMENTS



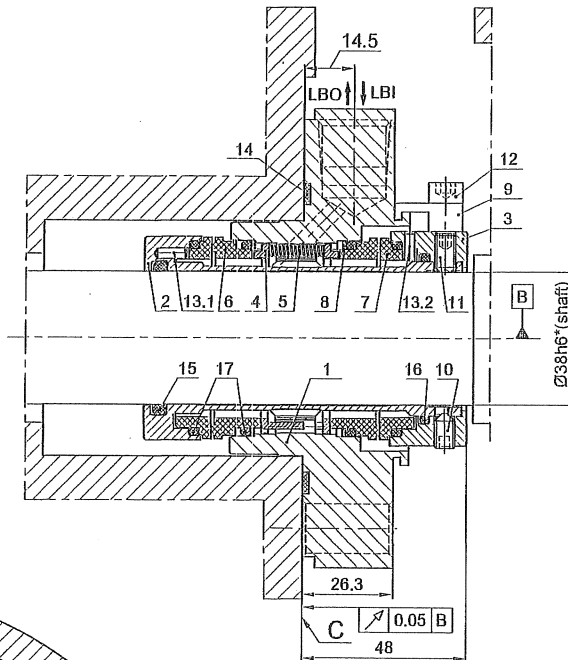
Plan 53B

External piping provides fluid for the outer seal of a pressurized dual seal arrangement. Pre-pressurized bladder accumulator provides pressure to the circulation system. Flow is maintained by an internal pumping ring. Heat is removed from the circulation system by an air-cooled or water-cooled heat exchanger. This plan is used with an Arrangement 3 seal.

A



Description:
LBI - liquid buffer inlet;
LBO - liquid buffer outlet;
PSL - pressure switch low;
PI - pressure indicator;
TI - temperature indicator;



1. Mechanical seal is supplied tested and securely packaged ready for installation.
2. * - Check dimensions before installation.
3. Before the installation make sure that the surface "C" is clean and free of scratches and lugs.
4. Tighten gland nuts by approximate torque 100 N*m (not less) to compress gasket item 14.
5. Tighten set screws item 11 equally crosswise, in 4 steps. Final torque: 15 N*m.
6. Remove clips item 9 before start-up.
7. Do not start-up pump with tank without barrier fluid.
8. Maximum axial movement (design) ± 2 mm.
9. Do not retighten screws item 10.
10. Install clips item 9, before removing seal.

Customer and equipment data	
1.1 Customer	LUKOIL PETROTEL
1.2 End user	LUKOIL PETROTEL
1.3 Unit	CC
1.4 Equipment item number	09-FP7 A (T) / B (E)
1.5 Equipment type	
1.6 Equipment model	T100-28-II Aversa
1.7 Project No	
1.8 Seal Chamber	
1.9 Order N, data	
Working conditions	
2	Units
2.1 RPM	3000
2.2 Liquid	Gasoline
2.3 Temperature	38 °C
2.4 Viscosity	cSt
2.5 Density	kg/m ³
2.6 Suction pressure	0.84 bar
2.7 Discharge pressure	6.89 bar
2.8 Seal chamber pressure	bar
2.9 Saturation pressure	bar
Auxiliary	
3.1 API 682 Plans	53B
3.2 Buffer liquid	
3.3 Orifice hole, mm	mm
3.4 Drawing of plans	
Mechanical seal	
4	
4.1 Drawing N	
4.2 Seal Data	
4.3 Data of spare kit	
4.4 Contract, invoice	

Item	Part No	Description	Q-ty	Material	Spares	Q-ty
1	49033	Gland	1	SS321		
2	38370	Sleeve	1	SS321		
3	21426	Lock Ring	1	SS316		
4	21427	Pusher	2	SS316		
5	19616	Spring	6	Alloy C-276	*	6
6	21429	Mating Ring	2	S-SIC	*	2
7	21431	Mating Ring	2	S-SIC	*	2
8	21428	Ring	2	SS316		
9	22178	Clip	4	SS420		
10	19621	Screw	2	A2	*	2
11	11701	Screw	4	A2	*	4
12	13555	Screw	4	A2	*	4
13.1	20652	Pin	1	A4		
13.2	15768	Pin	1	A4		
14	20876	Gasket	1	Graphite	*	1
15	14039	O-Ring	1	Viton	*	1
16	20292	O-Ring	1	Viton	*	1
17	15996	O-Ring	4	Viton	*	4

RDU-0380-6799

Mechanical seal
Installation drawing
and parts list

Mass	Scale
JSC TREM Engineering	