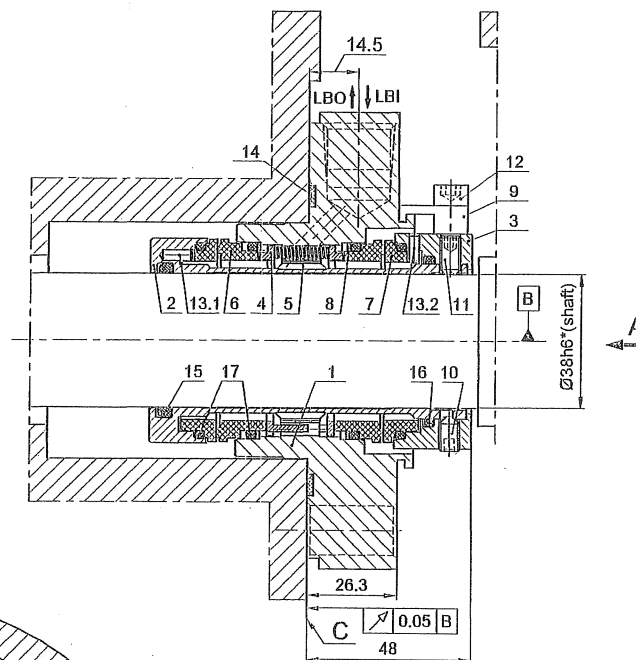
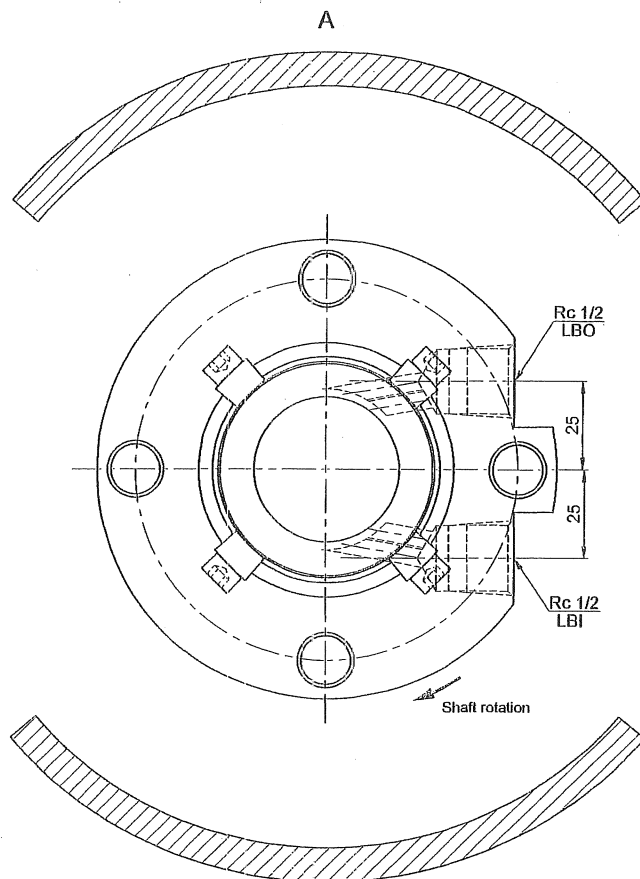


[illegible]

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.



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 1 4.
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.



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

1	Customer and equipment data		3	21426	Lock Ring	1	SS316		
1.1	Customer	LUKOIL PETROTEL	4	21427	Pusher	2	SS316		
1.2	End user	LUKOIL PETROTEL	5	19616	Spring	6	Alloy C-276	*	6
1.3	Unit	CC	6	21429	Mating Ring	2	S-SiC	*	2
1.4	Equipment item number	09-FP12 B	7	21431	Mating Ring	2	S-SiC	*	2
1.5	Equipment type		8	21428	Ring	2	SS316		
1.6	Equipment model	T 65-28-II Aversa	9	22178	Clip	4	SS420		
1.7	Project No		10	19621	Screw	2	A2	*	2
1.8	Seal Chamber		11	11701	Screw	4	A2	*	4
1.9	Order N. date		12	13555	Screw	4	A2	*	4
2	Working conditions		13.1	20652	Pin	1	A4		
2.1	RPM	3000	13.2	15768	Pin	1	A4		
2.2	Liquid	Gas oil	14	20876	Gasket	1	Graphite	*	1
2.3	Temperature	60 °C	15	14039	O-Ring	1	Viton	*	1
2.4	Viscosity	cSt	16	20292	O-Ring	1	Viton	*	1
2.5	Density	kg/m³	17	15996	O-Ring	4	Viton	*	4
2.6	Suction pressure	2.39 bar							
2.7	Discharge pressure	7.03 bar							
2.8	Seal chamber pressure	bar							
2.9	Saturation pressure	bar							
3	Auxiliary								
3.1	API 682 Plans	53B							
3.2	Buffer liquid								
3.3	Orifice hole, mm	mm							
3.4	Drawing of plans								
4	Mechanical seal								
4.1	Drawing N		Designed	Zanidin					
4.2	Seal Data		Checked	Nechiporenko					
4.3	Data of spare kit								
4.4	Contract, Invoice		Approved	Ratenko					