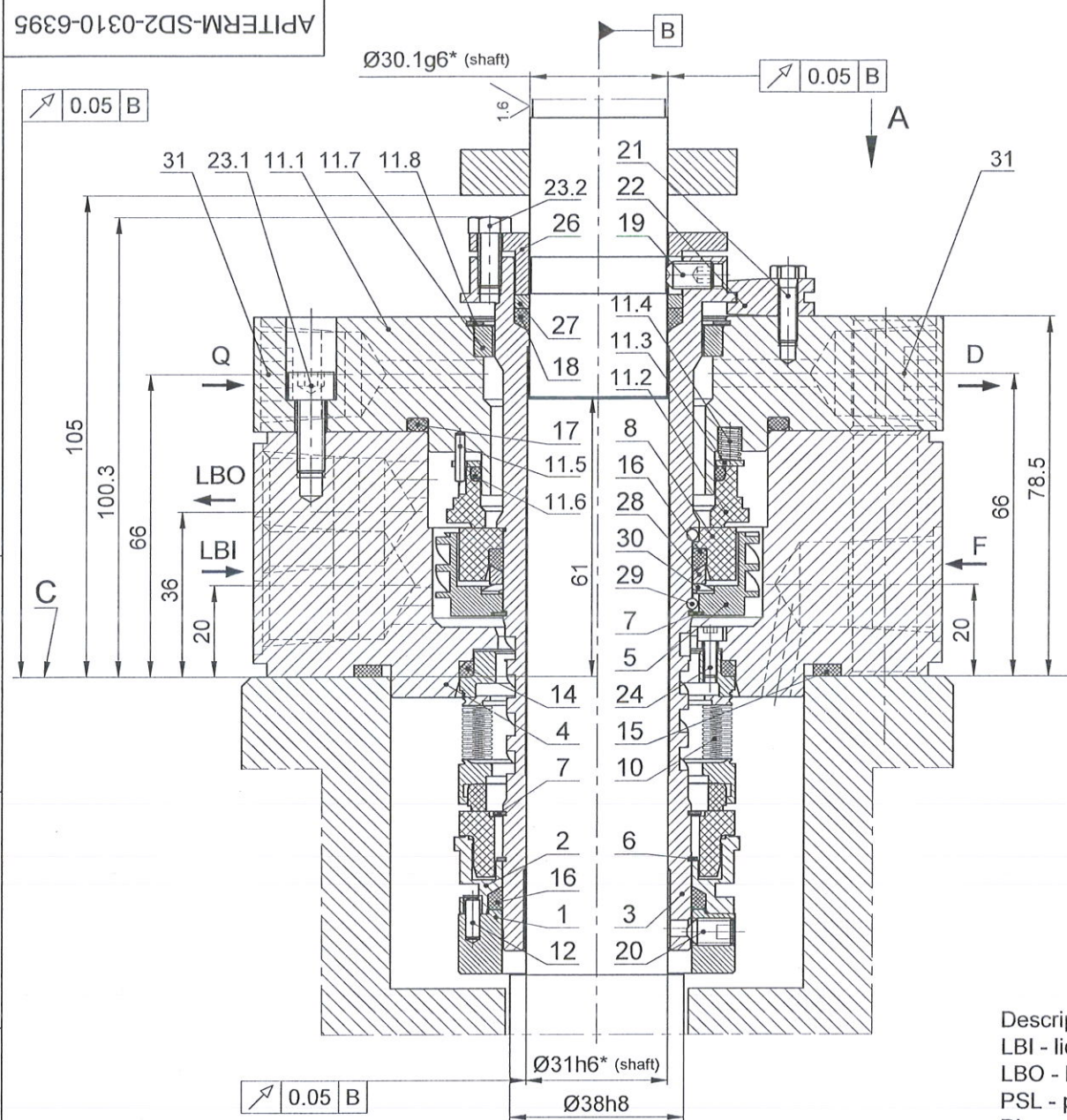
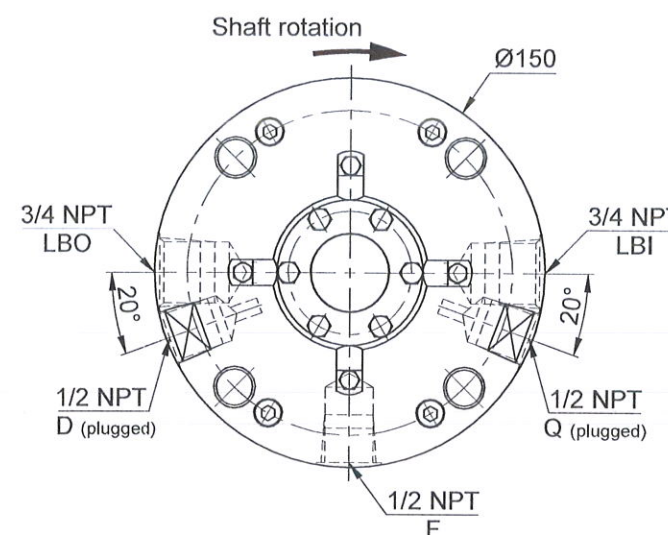




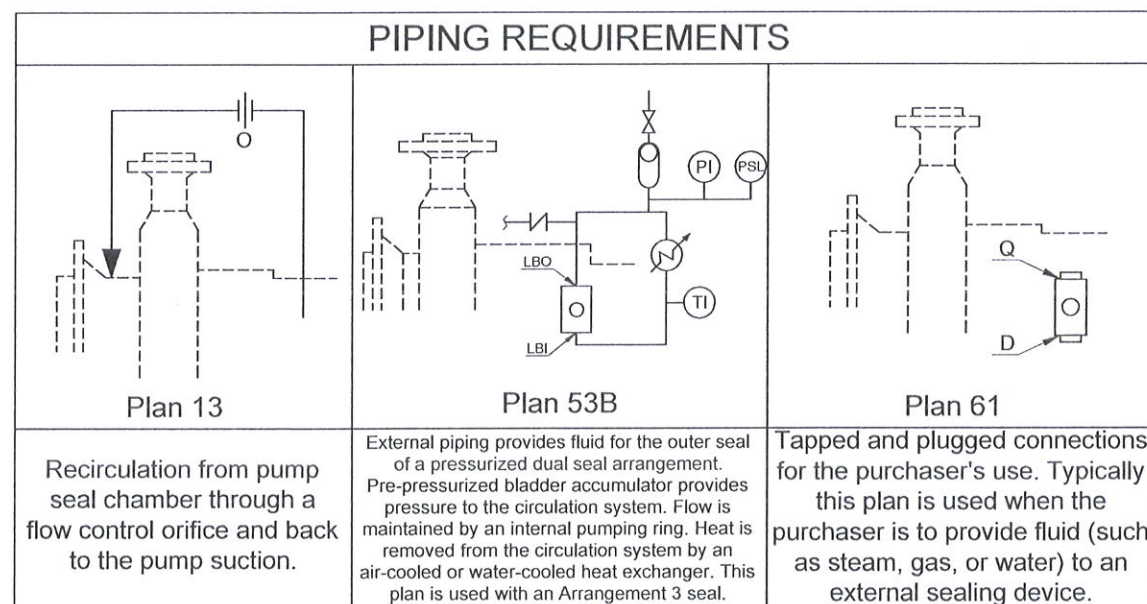
Description:
LBI - liquid buffer inlet;
LBO - liquid buffer outlet;
PSL - pressure switch low;
PI - pressure indicator;
TI - temperature indicator;
O - orifice;
F - flush;
D - drain;
Q - quench.

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. When tighten nuts of gland studs make sure that the gland fit the surface "C" of the pump completely without the gap all around the full circle.
5. Tighten gland nuts by approximate torque 100 N*m (not less) to compress gasket item 15.
6. Tighten set screws item 19 equally crosswise, in 4 steps. Final torque: 15 N*m.
7. Tighten screws item 23.2 first equally crosswise by torque 2.5-3.5 N*m, then in circle, in 3 steps, to 5-7 N*m.
8. Remove clips item 22 before start-up.
9. Do not start-up pump with tank without barrier fluid.
10. Maximum axial movement (design) ± 2 mm.
11. Install clips item 22, before removing seal.

View A



Item	Part No	Description	Q-ty	Material	Spares	Q-ty
1	48092	Clamp ring	1	SS316		
2	48093	Sleeve assembly	1	4J42/S-SiC	*	1
3	42686	Sleeve	1	SS316		
4	42687	Gland	1	SS316		
5	42688	Impeller	1	SS321		
6	28186	Snap ring	1	SS302	*	1
7	6778	Snap ring	2	SS302	*	2
8	28211	Mating ring	1	R-SiC	*	1
10	48098	Bellow assembly	1	TC/Inc718/SS316	*	1
11.1	42691	Gland	1	SS321		
11.2	28208	Mating ring	1	Antimony CB	*	1
11.3	42692	Ring	1	SS321		
11.4	4445	Spring	6	Hastelloy-C	*	6
11.5	21359	Pin	2	A4		
11.6	42693	O-Ring	1	NBR	*	1
11.7	42694	Ring	1	Bronze		
11.8	42695	Snap ring	1	SS302	*	1
12	20652	Pin	1	A4		
14	11058	Gasket	1	Graphite	*	1
15	7076	Gasket	1	SS316/Graphite	*	1
16	12517	Gasket	2	Graphite	*	2
17	22079	O-Ring	1	NBR	*	1
18	42701	Gasket	1	Graphite	*	1
19	21795	Screw	6	A2	*	6
20	30834	Screw	9	A4	*	9
21	24017	Screw	4	A2	*	4
22	20086	Clip	4	SS420		
23.1	4875	Screw	4	A2	*	4
23.2	25022	Screw	6	A2	*	6
24	25031	Screw	4	A2	*	4
26	42703	Clamp ring	1	SS321		
27	42704	Ring	1	SS321		
28	42705	Ring	1	SS321		
29	5158	Ball	2	SS304	*	2
30	6779	Wave spring	1	PH17-7	*	1
31	23243	Plug	2	A2		



Customer and equipment data	
1.1 Customer	Ensival Moret
1.2 End user	Petrotel-Lukoil Roumania
1.3 Unit	
1.4 Equipment item number	10-NP11
1.5 Equipment type	Pump VS1
1.6 Equipment model	50VN40-20-1
1.7 Project No	
1.8 Seal Chamber	1010372
1.9 Order N, date	
Working conditions	
2.1 RPM	
2.2 Liquid	MEA
2.3 Temperature, °C	30...125
2.4 Viscosity, cP	
2.5 Density, kg/m3	
2.6 Suction pressure, bara	1.1
2.7 Discharge pressure, bara	5
2.8 Seal chamber pressure, bara	5
2.9 Saturation pressure, bara	
Auxiliary	
3.1 API 682 Plans	13, 53B
3.2 Buffer liquid	
3.3 Orifice hole, mm	
3.4 Drawing of plans	
Mechanical seal	
4.1 Drawing N	
4.2 Seal Data	
4.3 Data of spare kit	
4.4 Contract, invoice	

APITERM-SD2-0310-6395					
Mechanical seal installation drawing and parts list	<table border="1" style="width: 100%;"> <tr> <td>Mass</td> <td>Scale</td> </tr> <tr> <td></td> <td style="text-align: center;">-</td> </tr> </table>	Mass	Scale		-
Mass	Scale				
	-				
JSC TREM Engineering					