

DAIS-0452-29.06.18

676L-0010-7CDS

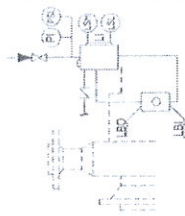
For offer

For approval

Final for delivery

Version 1
Date: 20.03.2012
Coordinated
Date:
Approved
Date:
Details:

PIPING REQUIREMENTS



Plan 53A

Description:
LBI - liquid buffer inlet;
LBO - liquid buffer outlet;
FI - flush inlet;
PI - pressure indicator;
PSI - pressure switch low;
LI - level indicator;
LSH - level switch high;
LSL - level switch low.

Pressurized external barrier fluid reservoir supplying clean fluid to the outer seal of an arrangement 3 seal. Circulation is by an internal pumping ring. Reservoir pressure is greater than the process pressure being sealed.

Item	Part No	Description	Q-ty	Material	Q-ty
1	45975	Clamp ring	1	AI3304	1
2	45905	Face assembly	1	42N/S-SIC	1
3	45976	Sleeve	1	2Cr13	1
4	29468	Gland	1	AI3304	1
5	5906	Impeller	1	2Cr13	1
6	21776	Snap ring	1	AI3302	1
7	5915	Snap ring	1	AI3302	1
8	6191	Mating ring	1	R-SIC	1
10	23889	Bellows assembly	1	TC42NIN718/AlSi316	1
11	21485	Bellows assembly	1	TC42NIN718/AlSi316	1
12	20652	Pin	1	A4	1
13	4119	O-Ring	2	Viton	2
14	5910	Gasket	1	Graphite	1
15	4294	Gasket	1	AI3316/Graphite	1
16	5903	Gasket	2	Graphite	2
17	5909	Gasket	1	Graphite	1
18	5901	Gasket	1	Graphite	1
19	4877	Screw	6	A2	6
20	19521	Screw	9	A2	9
21	24017	Screw	3	A2	3
22	20086	Clip	3	2Cr13	3
23	4879	Screw	14	A2	14
24	22972	Screw	4	A2	4
26	21781	Clamp ring	1	2Cr13	1
27	5900	Ring	1	2Cr13	1
28	5904	Ring	1	2Cr13	1
29	5158	Ball	2	AI3304	2
30	5914	Wave spring	1	PH17-7	1

SD2-0700-7949

Mechanical seal
Installation drawing
and parts list

Scale

Drawn by: [Signature]
Checked: [Signature]
Approved: [Signature]

LSC TREM Engineering

1	Customer and equipment data
1.1	Customer
1.2	End user
1.3	Unit
1.4	Equipment item number
1.5	Equipment type
1.6	Equipment model
1.7	Project No
1.8	Seal Chamber
1.9	Order N. class
2	Working conditions
2.1	RPM
2.2	Liquid
2.3	Temperature, °C
2.4	Viscosity, cP
2.5	Density, kg/m³
2.6	Suction pressure, barg
2.7	Discharge pressure, barg
2.8	Seal chamber pressure, barg
2.9	Start-up pressure, barg
3	Auxiliary
3.1	API 682 Pina
3.2	Buffer fluid
3.3	Orifice hole, mm
3.4	Drawing of plates

Notes:

- Mechanical seal is supplied tested and securely packaged ready for installation.
- * - Check dimensions before installation.
- Before mounting the seal install plugs as required. Use suitable thread sealant such as Loctite-542, PTFE thread sealing cord, or similar material.
- Before the installation make sure that the surface C is clean and free of scratches and lugs.
- 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.
- Tighten gland nuts by approximate torque 100 N·m (not less) to compress gasket item 15.
- Tighten set screws item 19 equally crosswise, in 4 steps. Final torque: 15 N·m.
- Tighten screws item 23 first equally crosswise by torque 2.5-3.5 N·m, then in circle, in 3 steps, to 5-7 N·m.
- Remove clips item 22 before start-up.
- Do not start-up pump with tank without barrier fluid.
- Maximum axial movement (design) ± 2.5 mm.
- Install clips item 22, before removing seal.

Do not pass drawing on to third parties without written permission of LSC TREM Engineering SC.