

Item	Description	Material
1	Sleeve	316L SS
2	Circlip	302 SS
3	UDGS™ Spacer	316L SS
4	Gasket	GFT
5	UDGS™ End Plate	316L SS
6	O Ring	FKM / EPR / FFKM / TFE/P
7	Gas Lift Stationary Face	Antimony Carbon
8	O Ring	FKM / EPR / FFKM / TFE/P
9	UDGS™ Spring Plate	316L SS
10	Spring (not shown)	Alloy 276
11	UDGS™ Rotary Face Etching Details	Reaction Bonded SiC
12	O Ring	FKM / EPR / FFKM / TFE/P
13	O Ring	FKM / EPR / FFKM / TFE/P
14	O Ring	FKM / EPR / FFKM / TFE/P
15	Spring	Alloy 276
16	O Ring	FKM / EPR / FFKM / TFE/P
17	UDGS™ Clamp Ring	316L SS
18	M5 x 12 Socket Grub Screw (not shown)	A2
19	M4 x 8 Cap HD Screw (not shown)	A2
20	UDGS™ Setting Clip (not shown)	Phosphor Bronze
21	UDGS™ Gland	316L SS
22	Pressure Plug	316 SS



Ex Mechanical Seals are Machinery Elements for ATEX 2014/34/EU & IECEx equipment. Documentation available on request.

Pre-Installation Checks.

- (i) Shaft Outside Diameter (OD) is within tolerance $\pm 0.002"$ ($\pm 0.05\text{mm}$).
- (ii) Shaft run out $< 0.004"$ (0.1mm) T.I.R.
- (iii) Shaft end float $< 0.005"$ (0.13mm).
- (iv) Seal chamber face runout (shaft squareness relative to mounting face) $< 0.5 \mu\text{m/mm}$ (0.0005 in./in) of seal chamber bore diameter.
- (v) Fluid seal can be obtained on the Stuffing Box face.
- (vi) There are no sharp edges over which the seal 'O' Ring (13) must pass.

Installation instructions.

The following installation instructions may vary, depending on the equipment configuration.

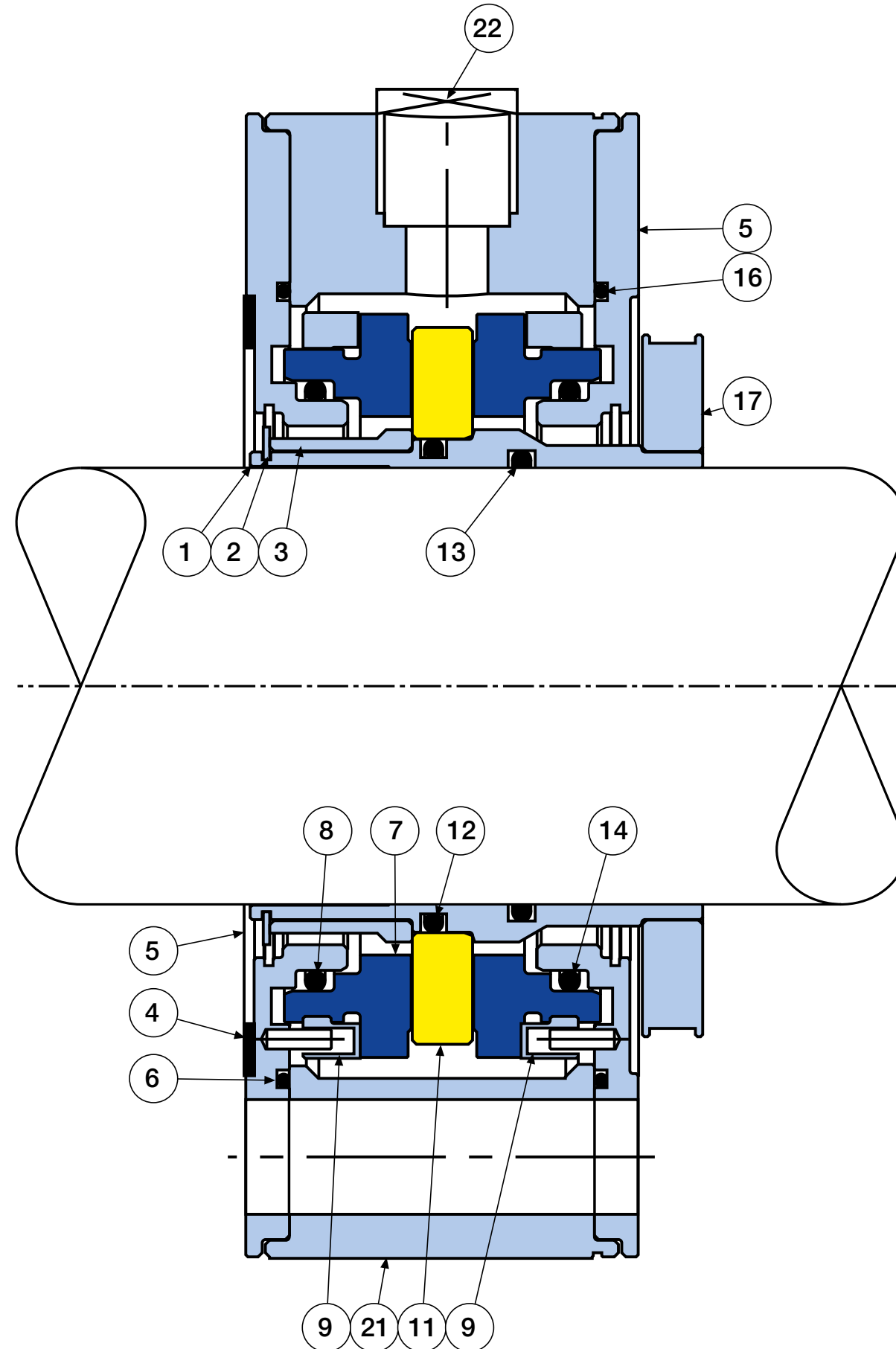
Therefore use them as a guideline only.

1. Check direction of rotation marked on seal to shaft direction of rotation.
2. Lubricate the shaft with the grease provided.
3. Slide the seal onto the shaft.
4. Assemble rest of equipment in final running position.
5. Slide seal into position. Fit washers in all cases and tighten Gland Nuts down firmly.
6. Equally tighten the Drive Screws down onto the shaft.
7. Remove setting clips (retain clips and clip screws for future use).
8. Spin the shaft by hand in the correct direction of rotation. Listen and feel for any shaft binding, etc.
9. Connect to gas support system supply.
10. Pressurise barrier gas to required pressure **before** operating equipment.

NOTE:

- Ensure that the seal is firmly bolted to the Stuffing Box, with the shaft already in position, before removing the centering clips.
- Maintain gas barrier pressure at all times including during stop / start conditions.
- Do not allow liquid to enter seal chamber or seal (liquid will damage the seal faces).

All metallic components are widely recyclable. Once the seal has reached the end of its life, it should be disposed of in accordance with local regulations and with due regard to the environment.



INSTALLATION INSTRUCTIONS

Ex II 2 G D Ex h Gb/Db



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