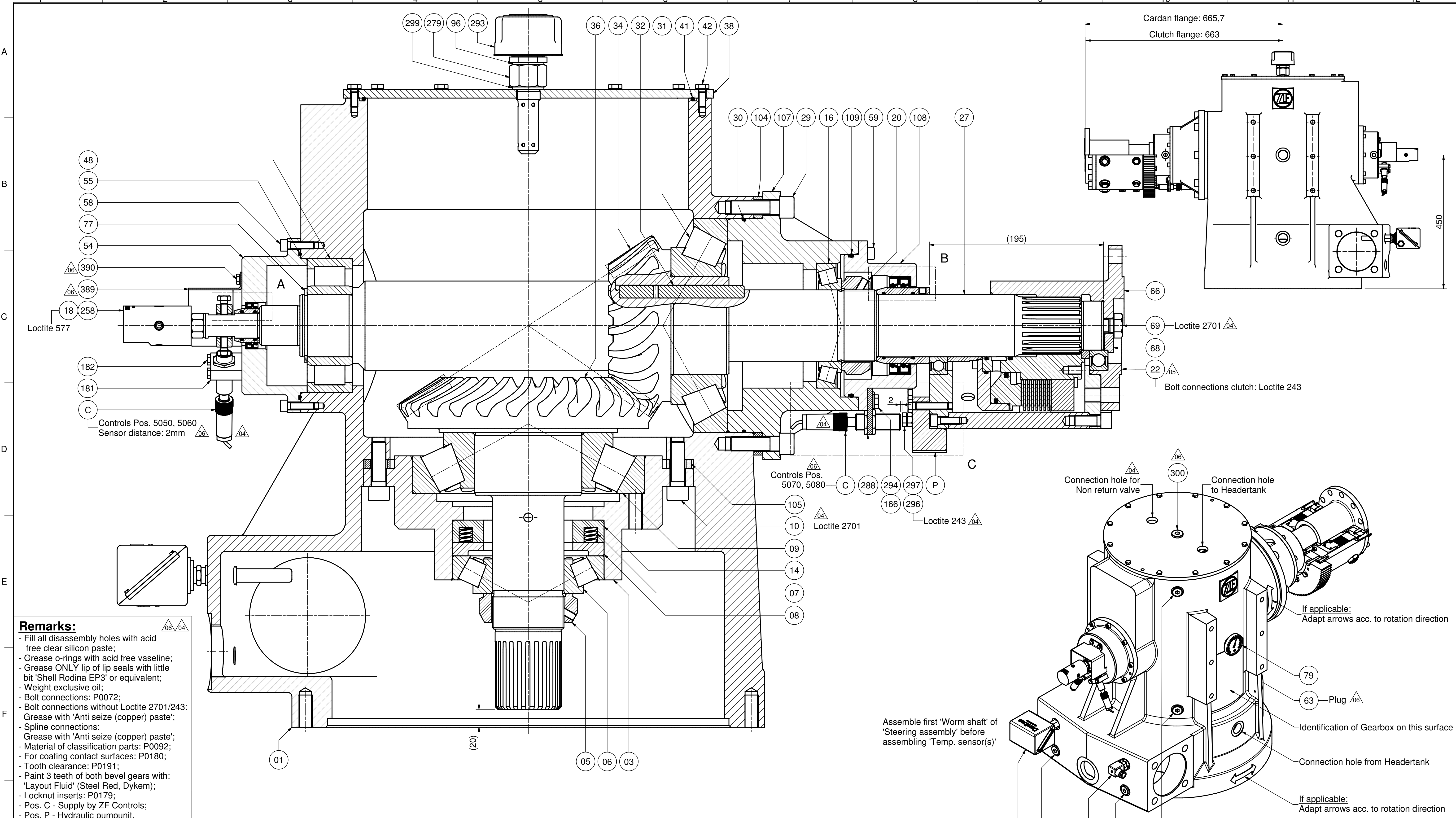




Remarks:

- Fill all disassembly holes with acid free clear silicon paste;
- Grease o-rings with acid free vaseline;
- Grease ONLY lip of lip seals with little bit 'Shell Rodina EP3' or equivalent;
- Weight exclusive oil;
- Bolt connections: P0072;
- Bolt connections without Loctite 2701/243: Grease with 'Anti seize (copper) paste';
- Spline connections: Grease with 'Anti seize (copper) paste';
- Material of classification parts: P0092;
- For coating contact surfaces: P0180;
- Tooth clearance: P0191;
- Paint 3 teeth of both bevel gears with: 'Layout Fluid' (Steel Red, Dykem);
- Locknut inserts: P0179;
- Pos. C - Supply by ZF Controls;
- Pos. P - Hydraulic pumpunit.

Options:

Clutch

- Incl. pos. 22, 68, 166, 258, 288, 294
- With pully: Incl. pos. 296, 297
- Without pully: Incl. pos. 88

Cardan flange

- Incl. pos. 18, 66

Fully filled gearbox

- Incl. pos. 300, 392

Half filled gearbox

- Incl. pos. 96, 279, 293, 299

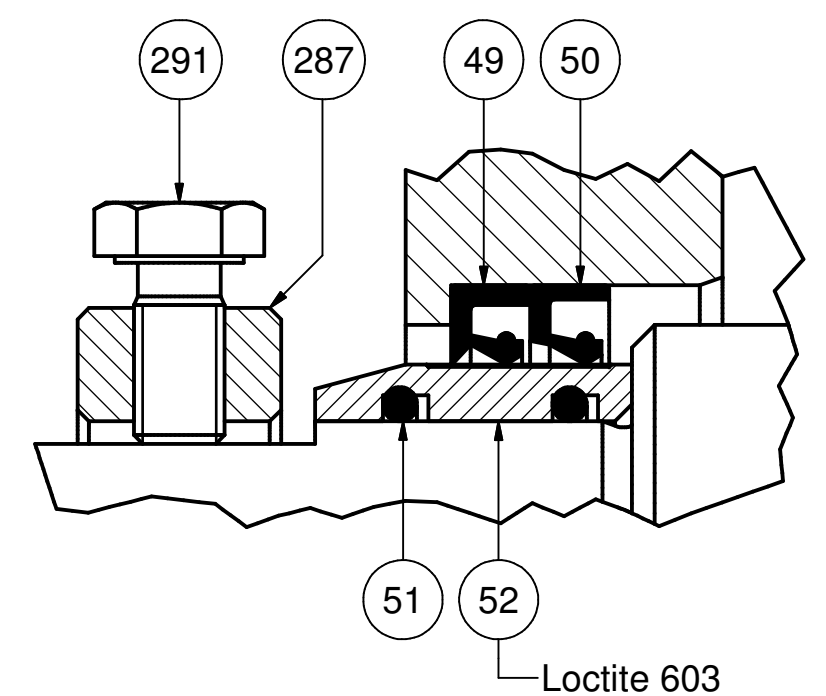
Temperature switch

- Incl. pos. 5010
- Excl. pos. 305

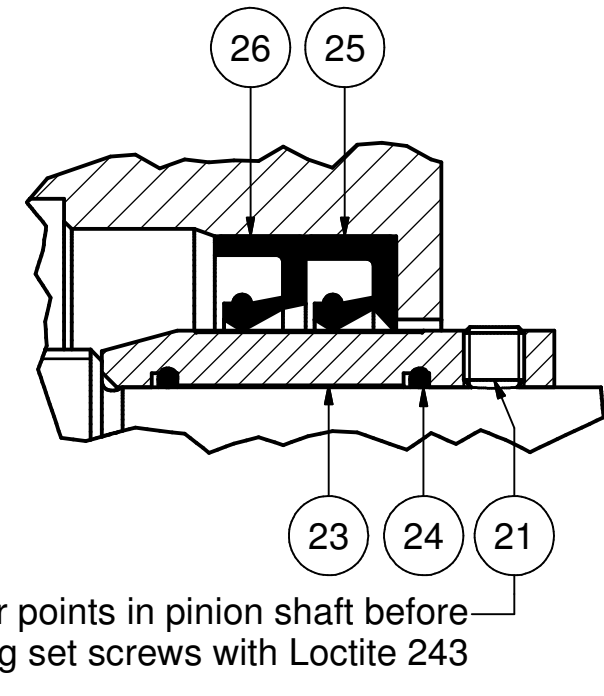
Bearing margins:

- Horizontal shaft: 0.00mm
- Vertical shaft: 0.00mm

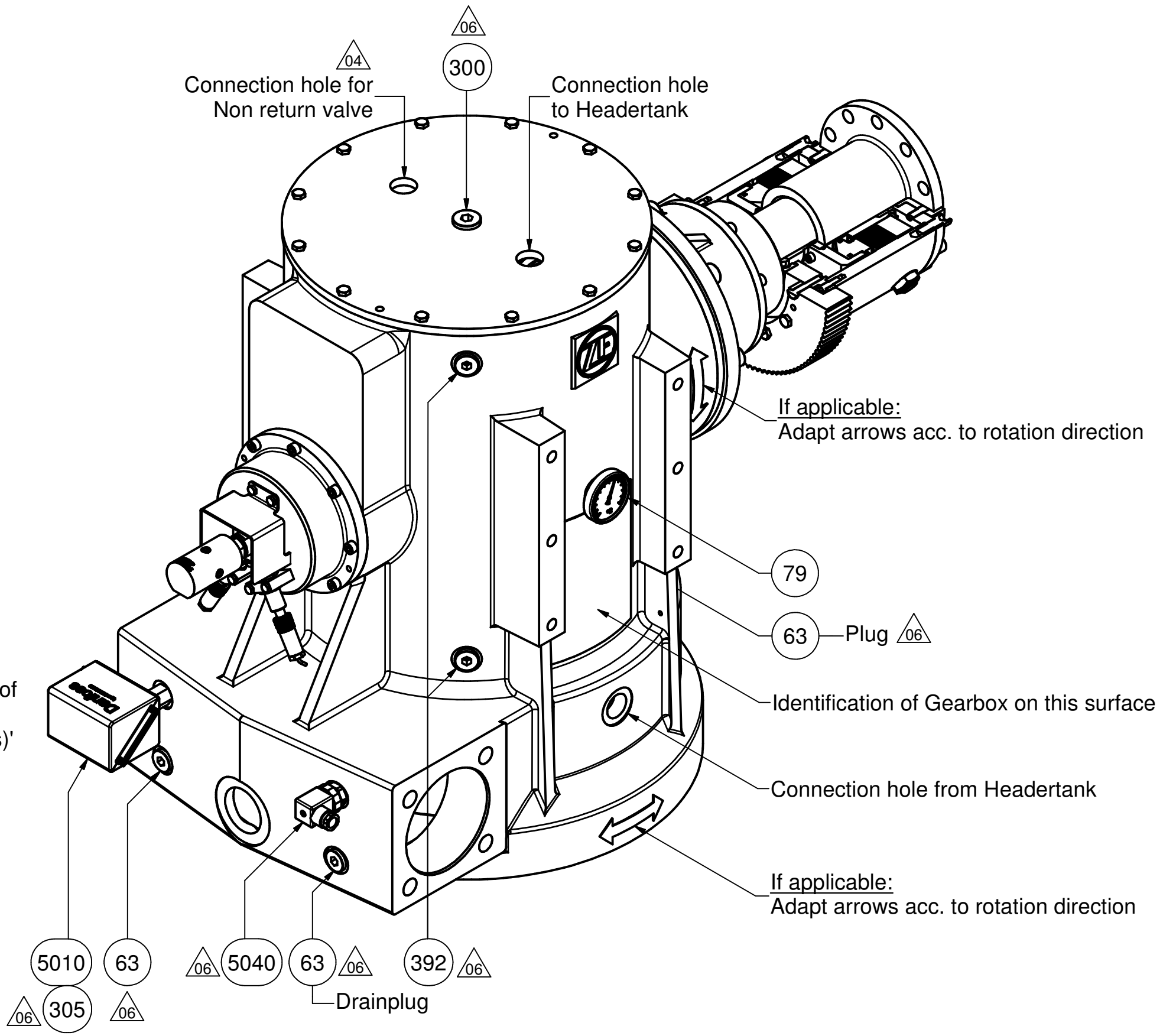
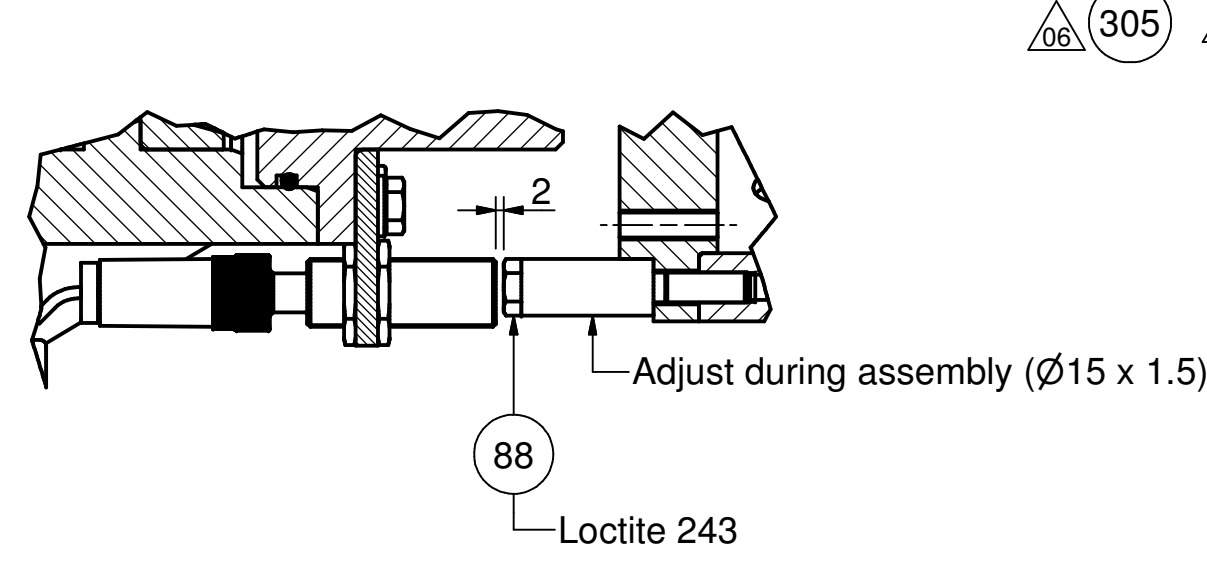
Detail: A

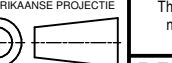


Detail: B



Detail: C



R0144- Cover Pos. 389; plugs 300714	SCALE: 1 : 2	REMARKS:
R0070- New DOC added	DATE: 13-4-2007	
New drawing: double sensors; 030212	NAME: CGvdK	
Pump/house deleted	CHECKED:	
Parts added on Options	MATERIAL:	
New drawing: Pump/wheel del. 170908	WEIGHT: ±450 kg	
Pump add.: Pos. 03 changed 260308	TITLE:	
REV SUBJECT	ZF 4000 Upper gearbox - CW	
	FORMERLY KNOWN AS: HOP TRUETTER SYSTEM BV	
	VOOR AMETINGEN ZONDER OPGEGEVEN TOLERANTIES GELDT IF NOT SPECIFIED, ALL DIMENSION TOLERANCES	
	ZF Marine Krimpen BV	
	Zaag 27 P.O. Box 2020 2930 AA Krimpen aan de Lek The Netherlands	
	Site: www.zf.com Phone: +31 (0)180-331000 Fax: +31 (0)180-331099	
	 	
	AI 0602z400	
	DRAWING No.: 0602z400	
	ORDER No.: 06	
	SCHEPPE KANTEN BREKEN (SH) CHAMFER (SWP) (CORNERS) OPWERPLAATTE RUWED. (SURFACE ROUGHNESS) ☒ max 3,2	
	This drawing remains the property of ZF Marine Krimpen and may not be multiplied without the written permission of the owner. It may only be used for the part ordered or for parts that are identical.	