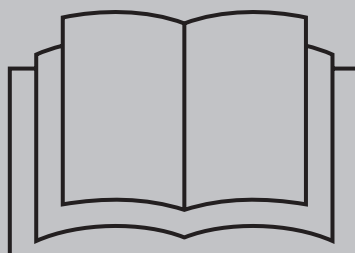


REPAIR MANUAL

H-300/4 UAP

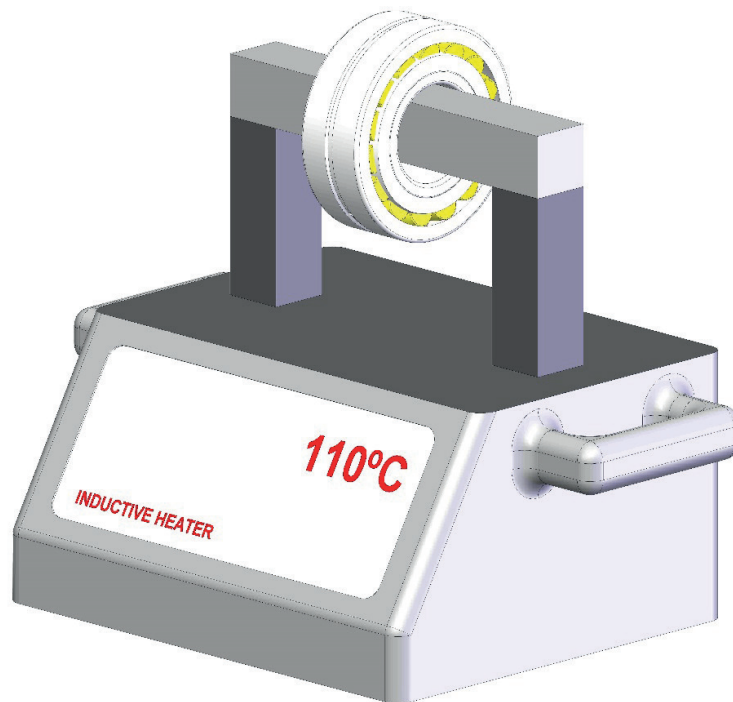
IV GENERATION



INDEX

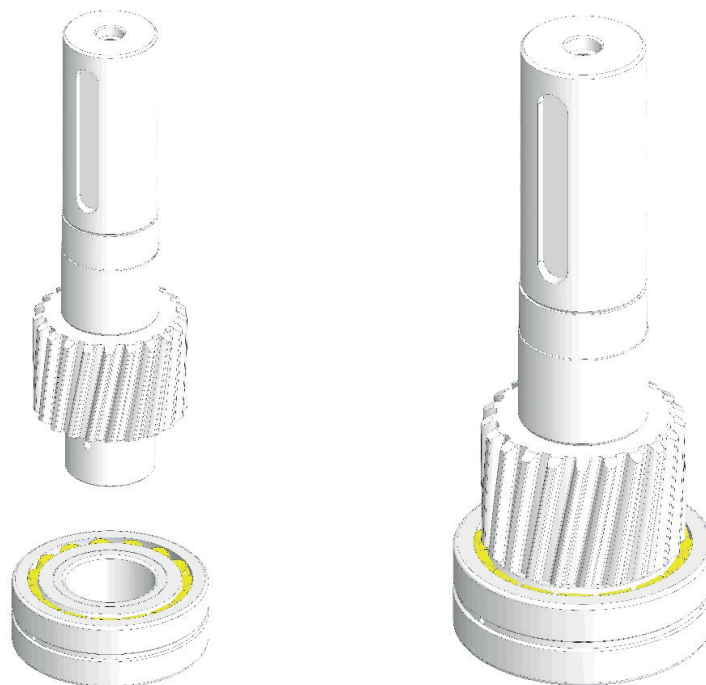
ASSEMBLING THE H-300 PUMP POWER END	4
ASSEMBLING THE UAP G-IV PLUNGER KIT (P-20)	19
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ASSEMBLING THE H-300 PUMP POWER END



HEAT THE FIRST BEARING OF THE GEAR SHAFT FOR 10 MINUTES AT 110°C.

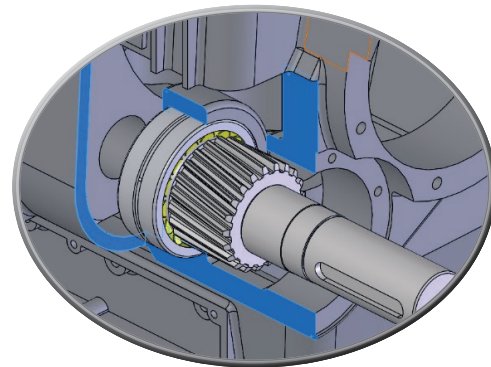
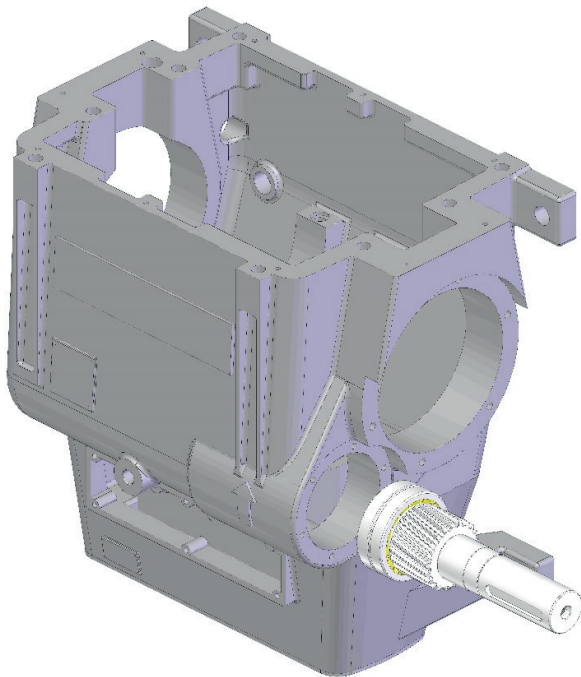
Fig. 01



MOUNT THE FIRST BEARING IN THE GEAR SHAFT WHILE IT IS WARM.

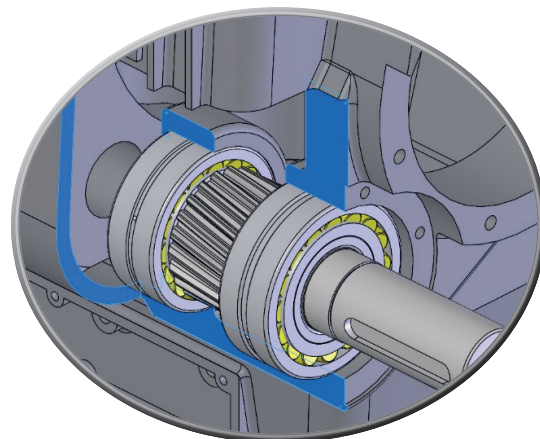
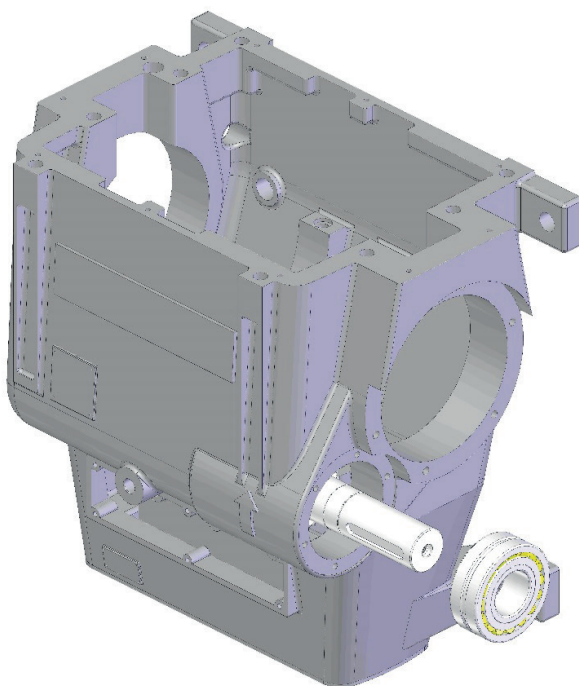
Fig. 02

ASSEMBLING THE H-300 PUMP POWER END



INSERT THE GEAR SHAFT INTO THE HOUSING.

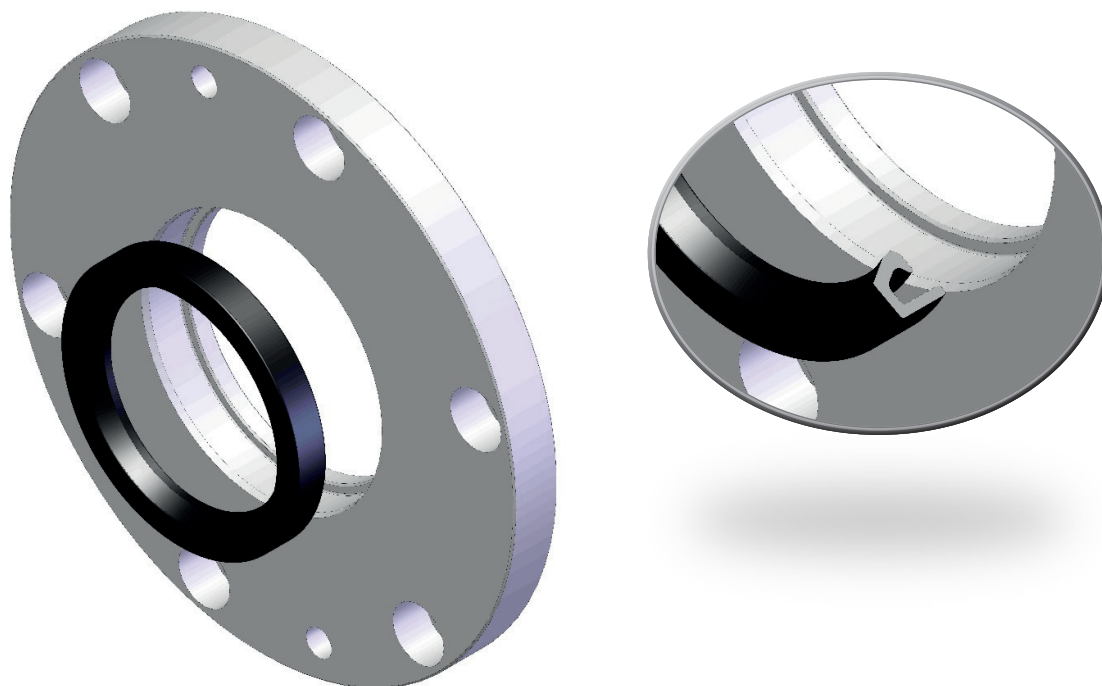
Fig. 03



MOUNT THE SECOND BEARING.
IT WILL BE NECESSARY TO HEAT THE BEARING FOR 10 MINUTES AT 110°C
BEFORE MOUNTING (SEE FIG. 01).

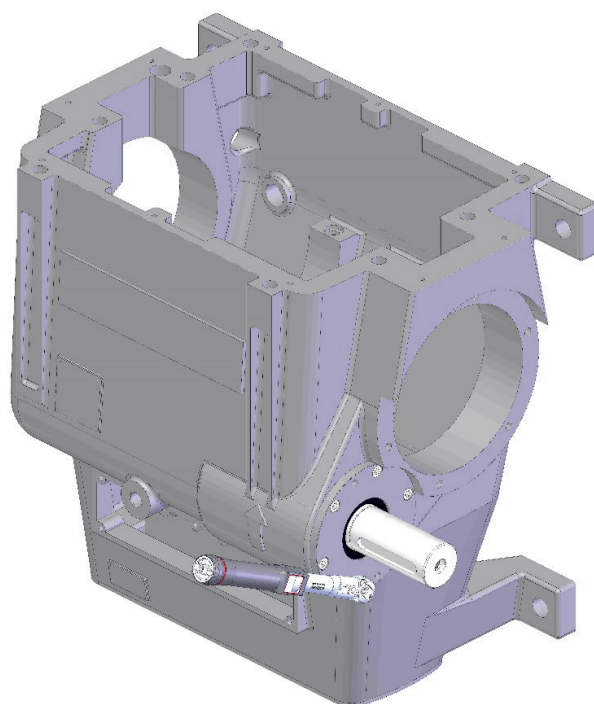
Fig. 04

ASSEMBLING THE H-300 PUMP POWER END



MOUNT THE OIL SEAL ON THE GEAR SHAFT FLANGE AND ENSURE THAT THE SEAL APERTURE IS INWARDS.

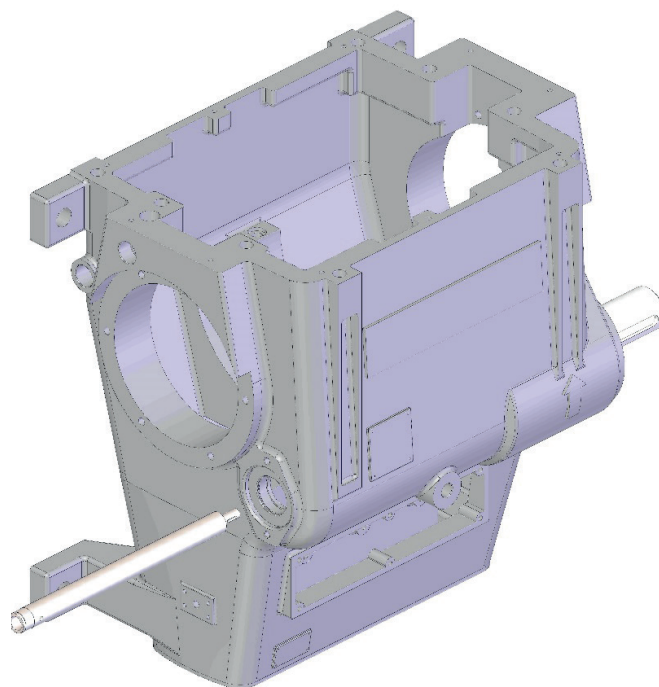
Fig. 05



USE COPPER GREASE TO COVER THE THREAD OF THE M10 SCREWS FIXING THE ALIGNMENT CRANKCASE FLANGE. TIGHT TO "X" TO TORQUE OF 64 Nm.

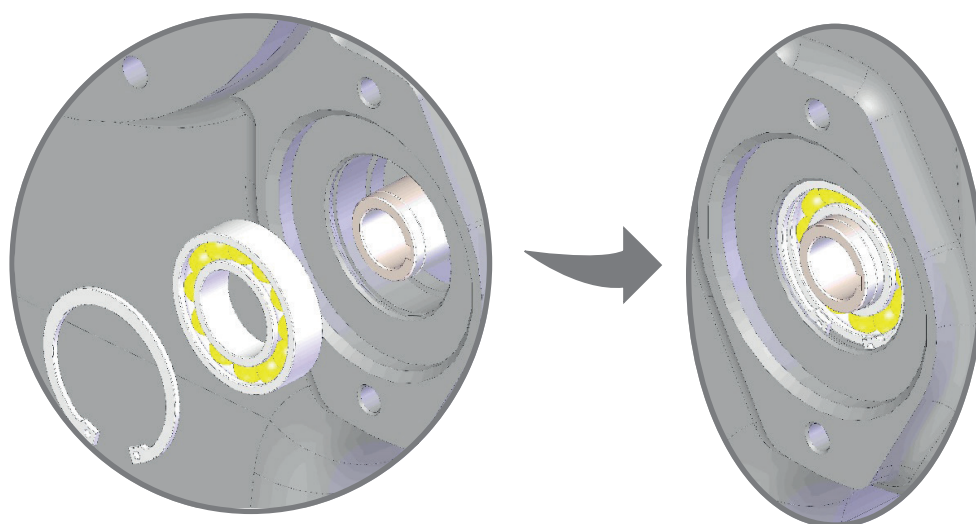
Fig. 06

ASSEMBLING THE H-300 PUMP POWER END



INSERT THE SHAFT EXTENSION WITH ITS KEY AND FIX IT ON THE SHAFT.

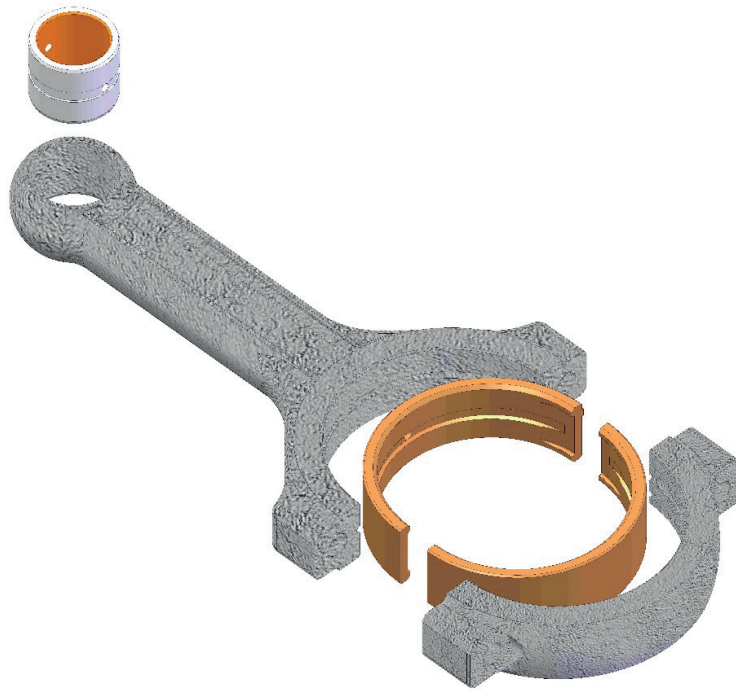
Fig. 07



INSERT THE BEARING AND THE SEEGER RING.

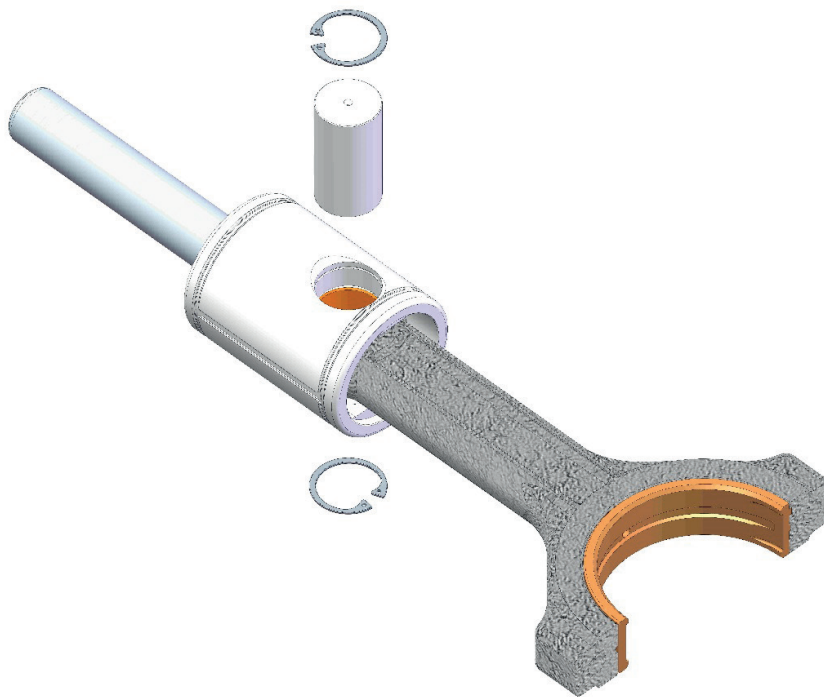
Fig. 08

ASSEMBLING THE H-300 PUMP POWER END



MOUNT THE BUSHING AND THE BEARING SHELLS INTO THE CONNECTING ROD.
ATTENTION: MOUNT THE PAIR OF BEARING SHELLS CONTAINED IN THE BOX.

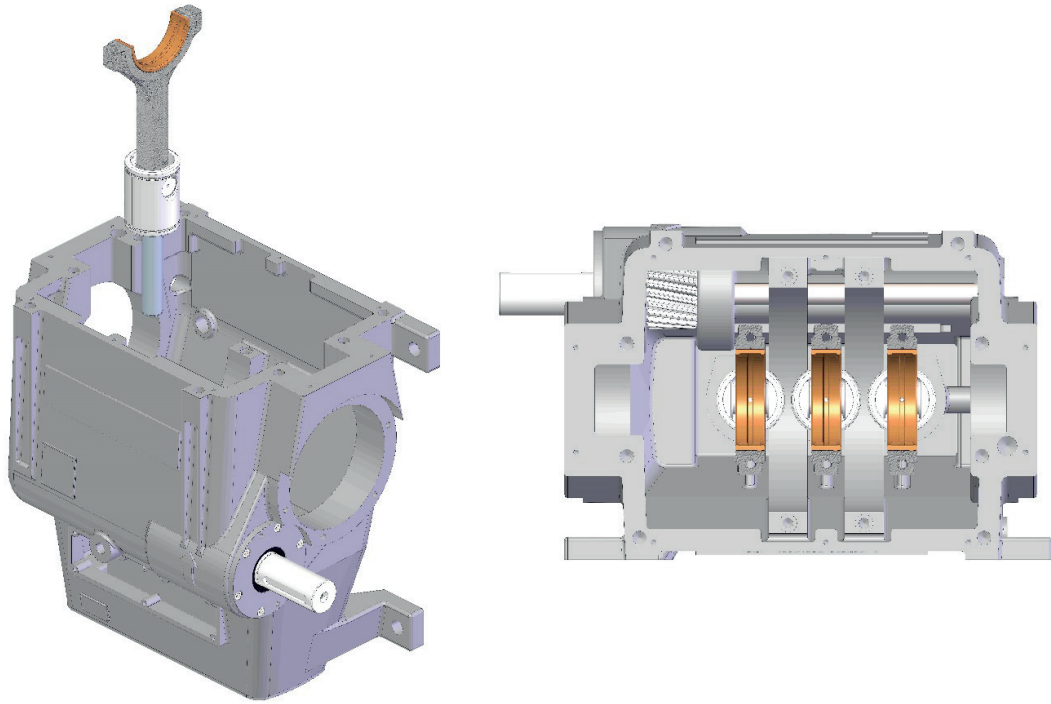
Fig. 09



ASSEMBLE THE GUIDE PISTON WITH THE CONNECTING ROD USING THE PIN AND SEEGER RINGS. REPEAT THE PROCESS FOR THE OTHER PAIR OF CONNECTING RODS AND GUIDE PISTON.

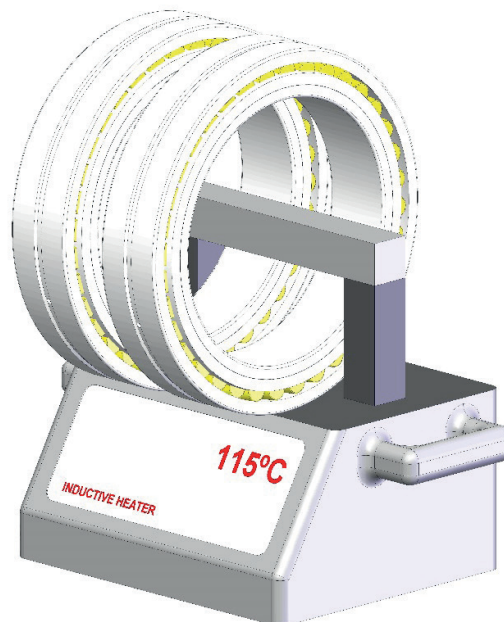
Fig. 10

ASSEMBLING THE H-300 PUMP POWER END



INSERT THE KIT INTO THE HOUSING. REPEAT THE PROCESS FOR THE OTHER 2 KITS.

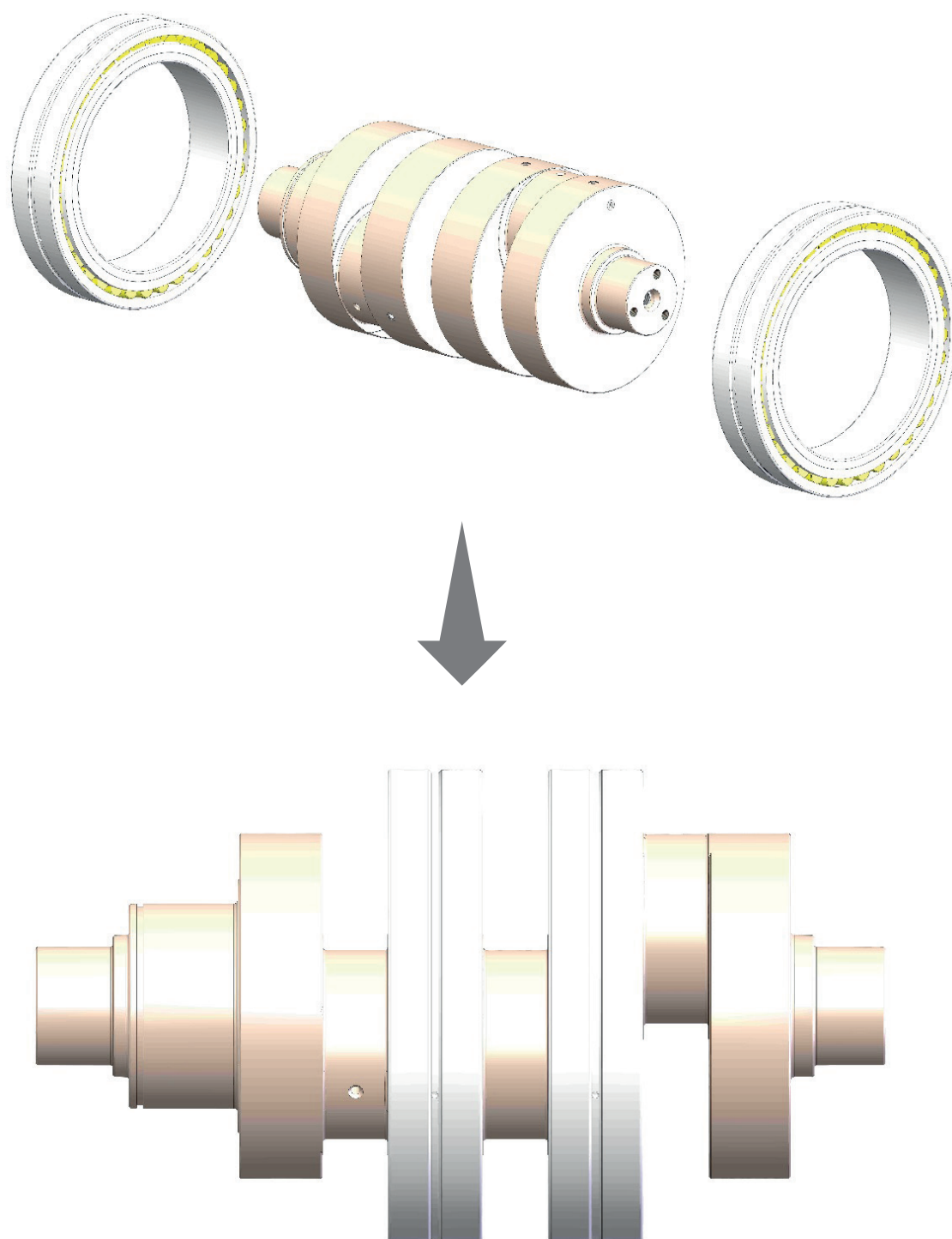
Fig. 11



HEAT THE PAIR OF CRANKSHAFT BEARINGS AT 115°C FOR 10 MINUTES.

Fig. 12

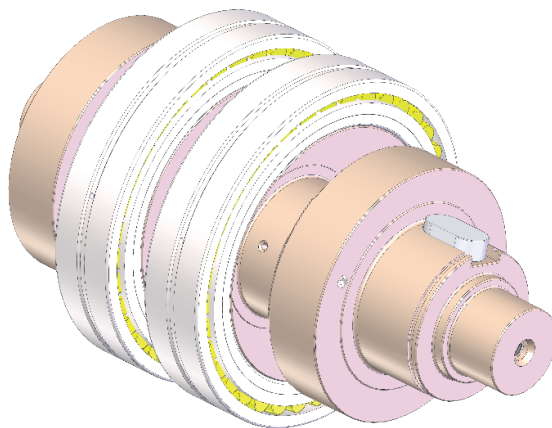
ASSEMBLING THE H-300 PUMP POWER END



MOUNT THE BEARINGS ON THE CRANKSHAFT WHILE THEY ARE STILL WARM.

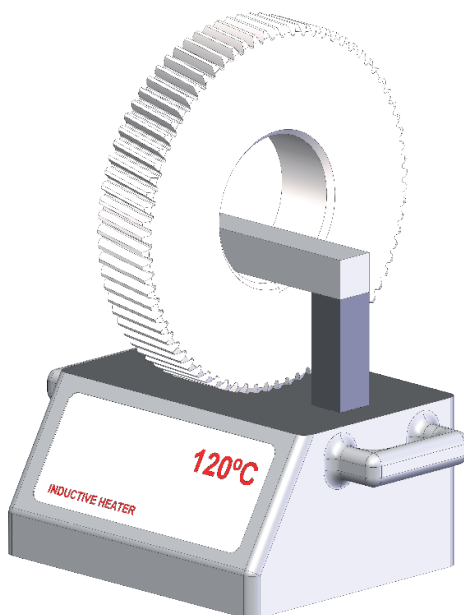
Fig. 13

ASSEMBLING THE H-300 PUMP POWER END



MOUNT THE CRANKSHAFT KEY.

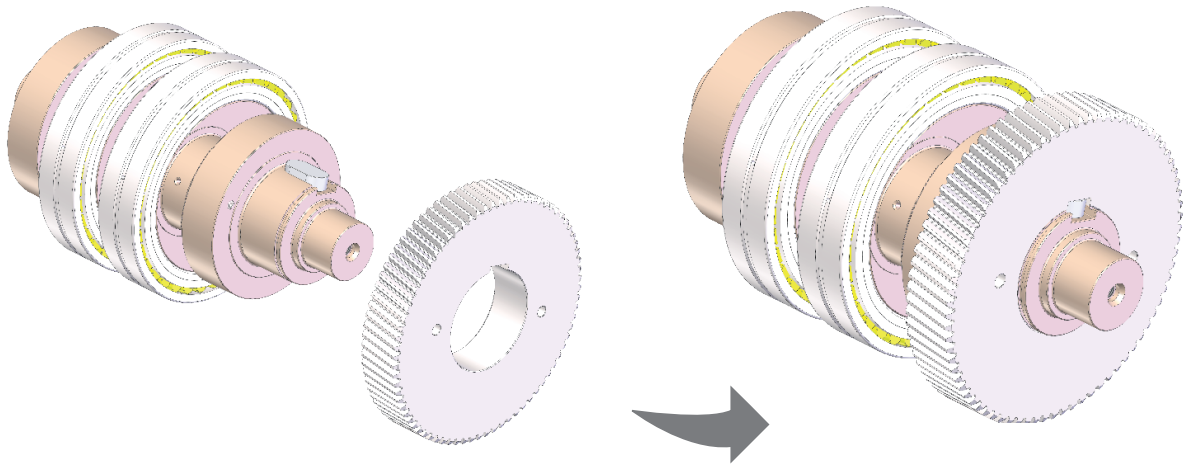
Fig. 14



HEAT THE CROWN GEAR AT 120°C FOR 10 MINUTES.

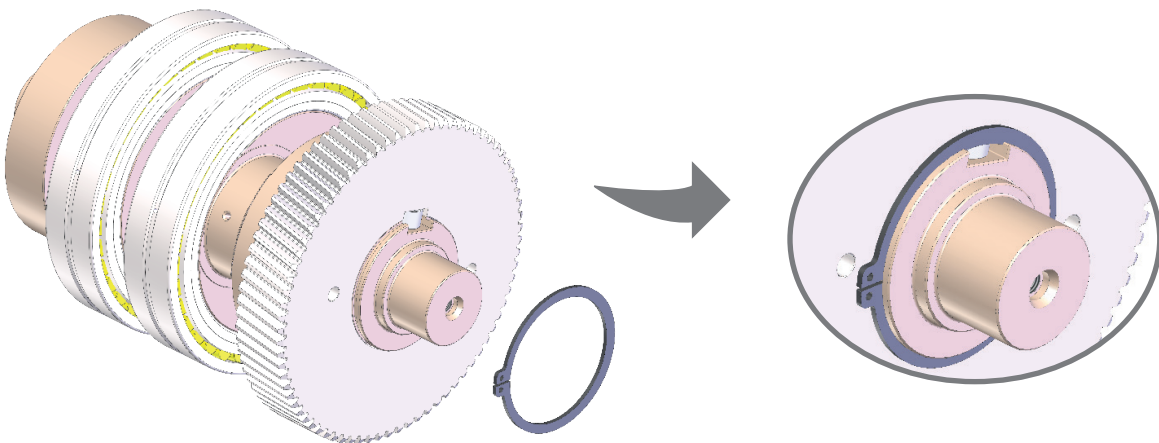
Fig. 15

ASSEMBLING THE H-300 PUMP POWER END



MOUNT THE CROWN GEAR IN THE CRANKSHAFT WHILE IT IS WARM WITH THE THREADS FACING OUT.

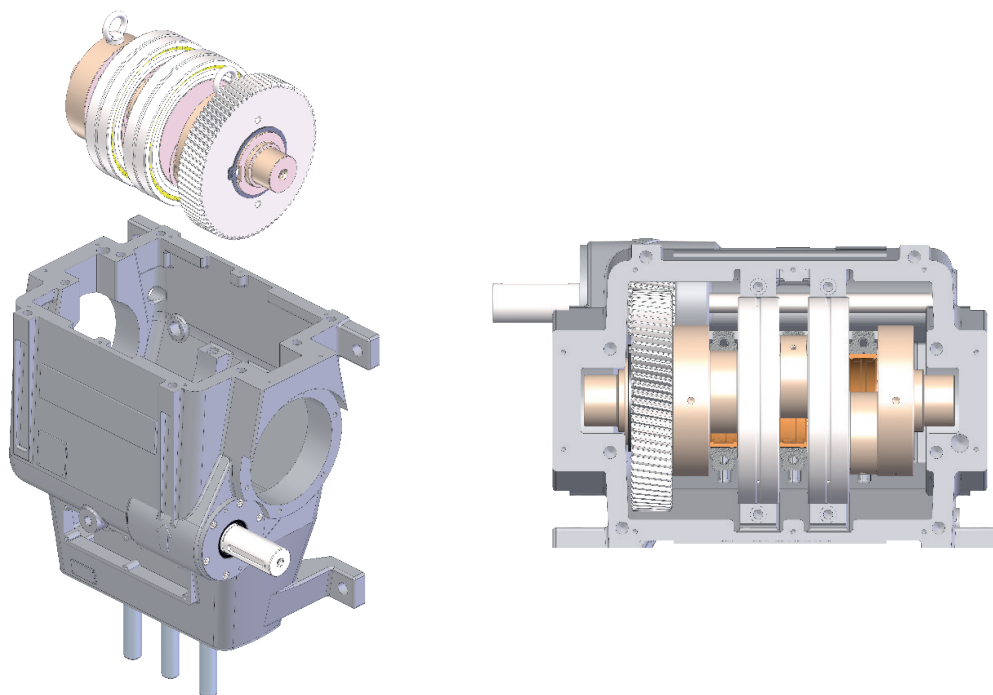
Fig. 16



MOUNT THE SEEGER RING.

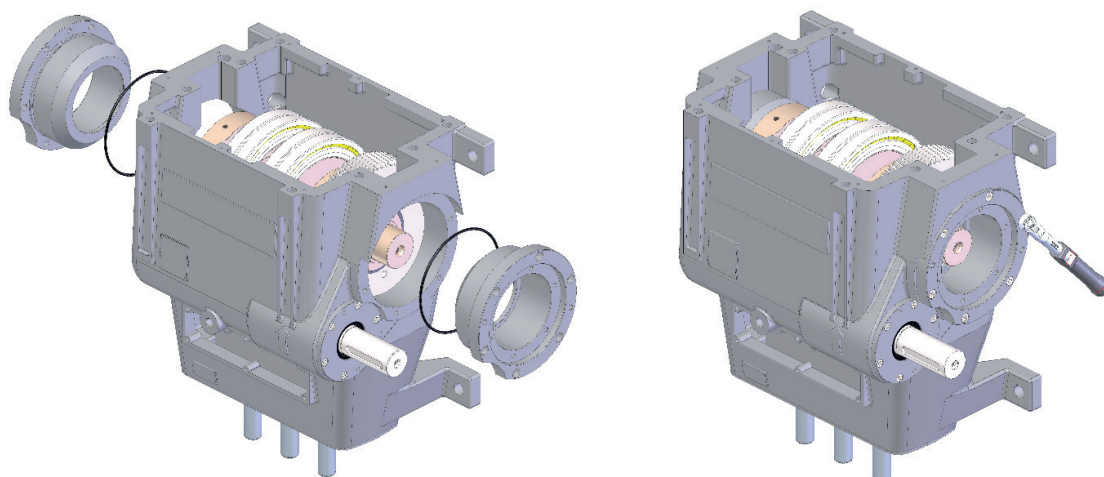
Fig. 17

ASSEMBLING THE H-300 PUMP POWER END



LIFT THE CRANKSHAFT USING LIFTING EYES APPLIED ON THE APPROPRIATE THREADS. THE GEAR CROWN MUST BE POSITIONED FACING THE SHAFT GEAR SIDE.

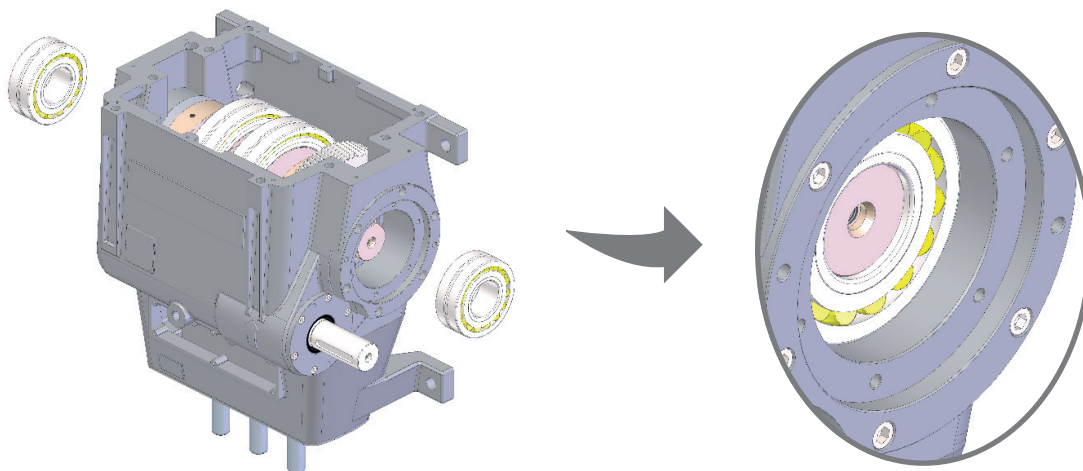
Fig. 18



MOUNT O-RINGS (APPLY "ROCOL" TYPE GREASE TO SEAL) AND THE BEARING FLANGES WITH THE "HALF-MOON" RAY IN THE POSITION SHOWN (SYMMETRICALLY). APPLY COPPER GREASE ON THE THREAD OF THE M12 SCREWS THAT FIX THE ALIGNMENT CRANKCASE FLANGES. TIGHT "X" TO A TORQUE OF 112 Nm.

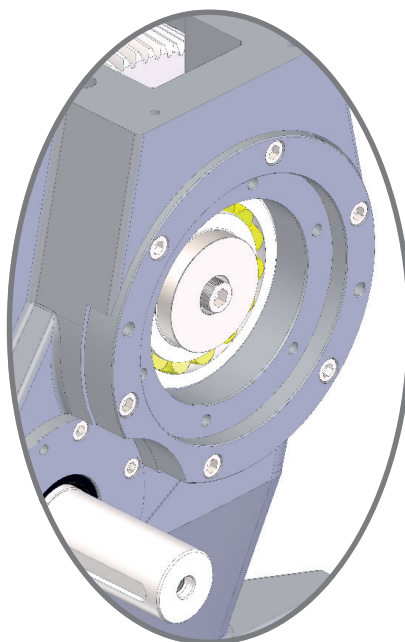
Fig. 19

ASSEMBLING THE H-300 PUMP POWER END



MOUNT BEARINGS ON BOTH CRANKSHAFT SIDES.

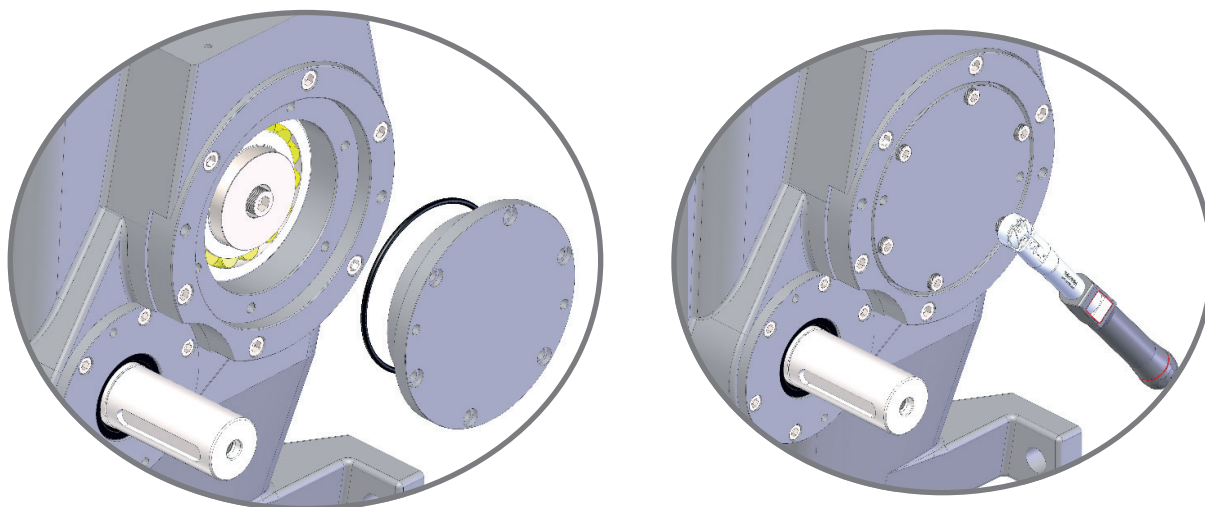
Fig. 20



MOUNT THE SLEEVE ON THE CRANKSHAFT (PINION SIDE). APPLY LOCTITE 577 ON THE THREAD OF THE M16 SCREWS TO A TORQUE OF 232 Nm.

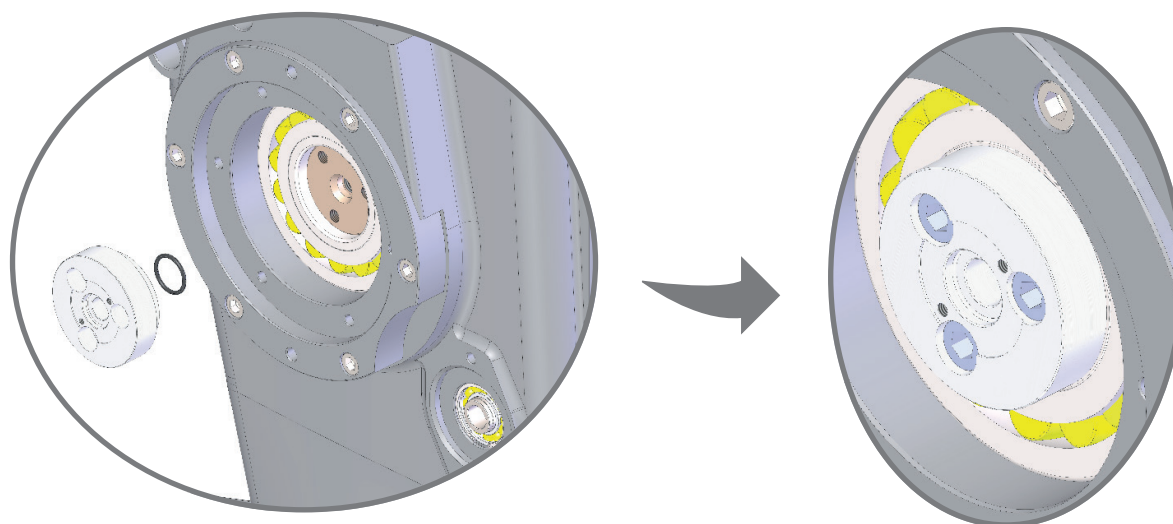
Fig. 21

ASSEMBLING THE H-300 PUMP POWER END



MOUNT THE O-RING (USE "ROCOL" TYPE GREASE TO SEAL) AND FIX THE CRANKSHAFT COVER (PINION SIDE). APPLY GREASE ON THE THREAD OF THE M10 SCREWS. TIGHT "X" TO A TORQUE OF 64 Nm.

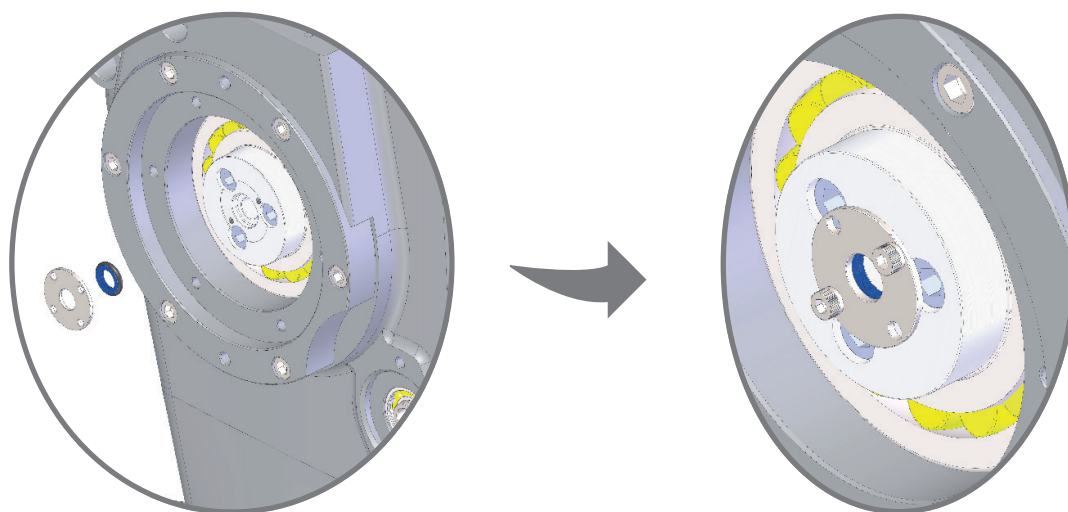
Fig. 22



MOUNT THE O-RING AND THE BEARING SEAT ON THE CRANKSHAFT. TIGHT THE M12 SCREWS TO A TORQUE OF 100 Nm. (PAY ATTENTION: DO NOT USE GREASE OR ANYTHING SIMILAR).

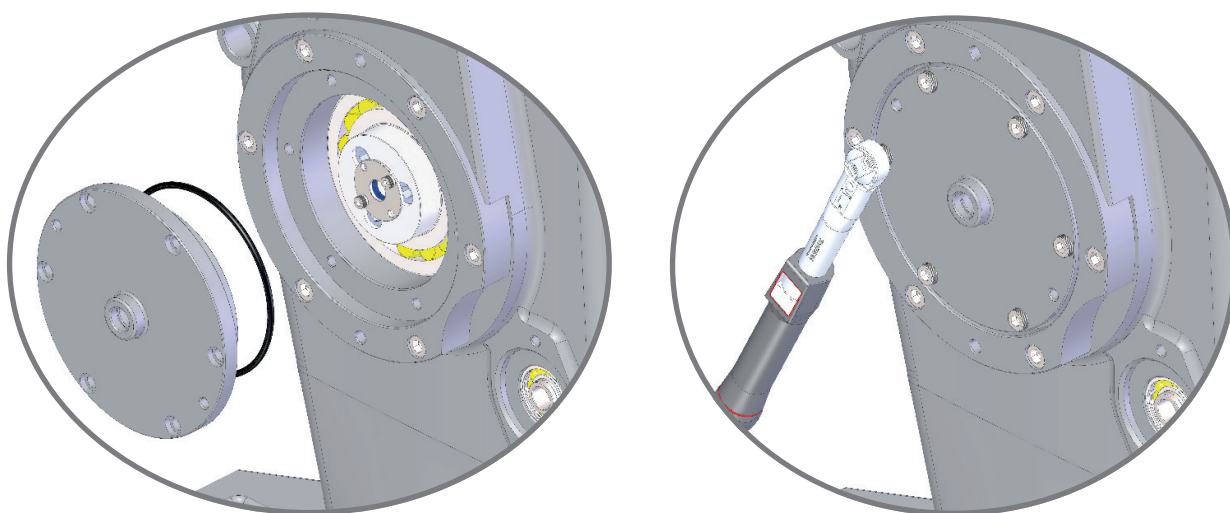
Fig. 23

ASSEMBLING THE H-300 PUMP POWER END



MOUNT THE ROTO GLYD AND ITS COVER ON THE BEARING SEAT. TIGHT THE M6 SCREWS TO A TORQUE OF 13 Nm. (PAY ATTENTION: DO NOT USE GREASE OR ANYTHING SIMILAR).

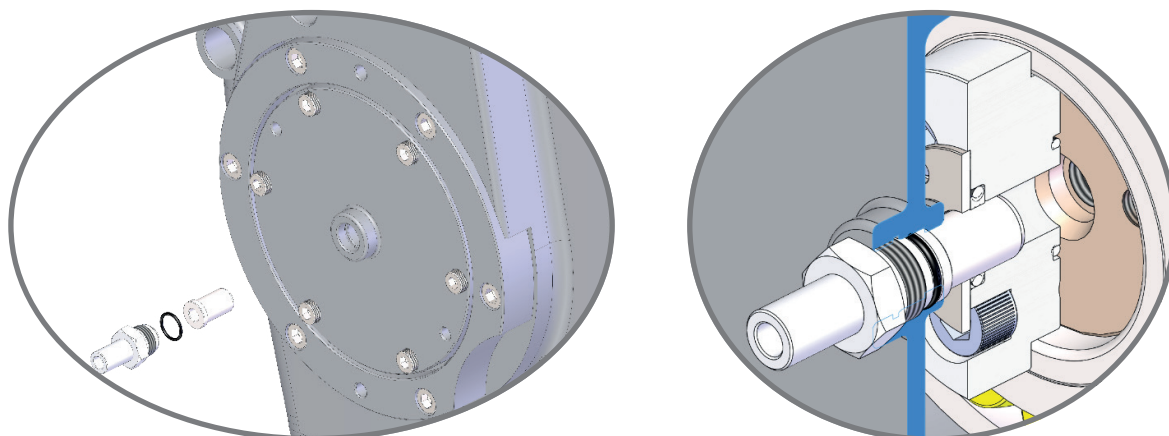
Fig. 24



MOUNT THE O-RING (APPLY "ROCOL" TYPE GREASE TO SEAL) AND FIX THE CRANKSHAFT COVER (SHAFT SIDE). USE GREASE ON THE THREAD OF THE M10 SCREWS. TIGHT "X" TO A TORQUE OF 64 Nm.

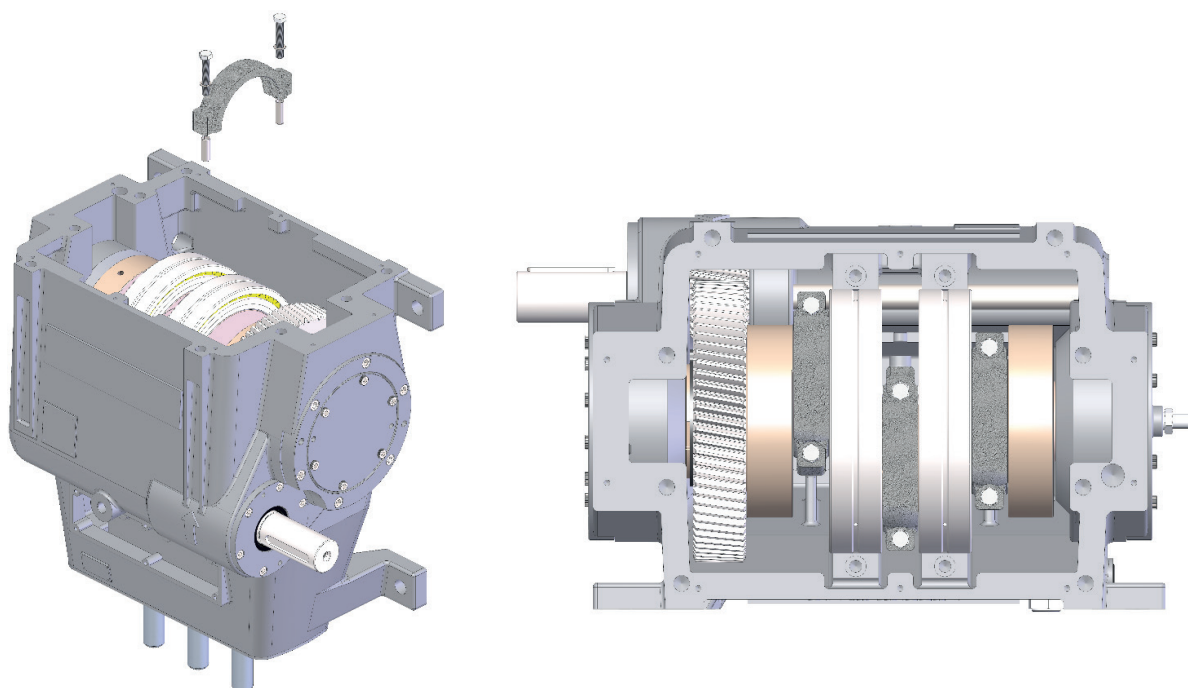
Fig. 25

ASSEMBLING THE H-300 PUMP POWER END



MOUNT THE ADAPTOR, THE O-RING AND THE ROTO GLYD ALIGNMENT IN THE CRANKSHAFT COVER. TIGHT THE ADAPTOR TO A TORQUE OF 60 Nm. (PAY ATTENTION: DO NOT USE GREASE OR ANYTHING SIMILAR).

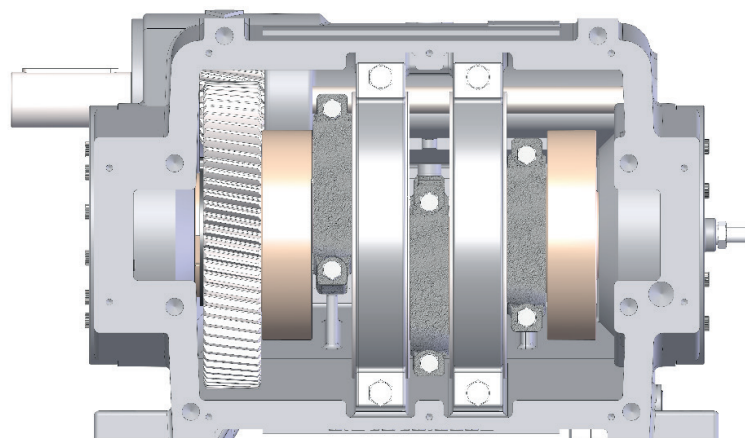
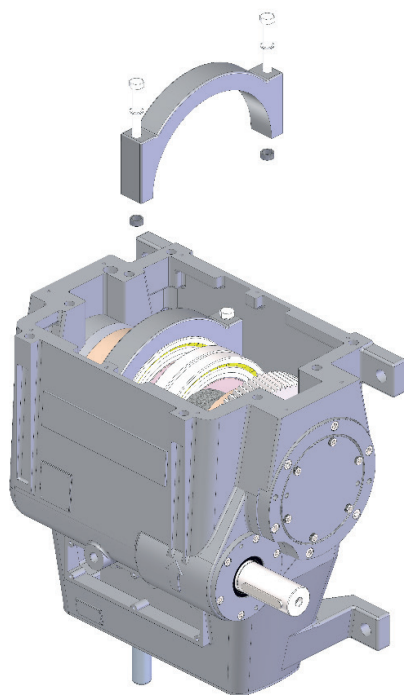
Fig. 26



MOUNT THE FIRST ROD CAP (PINION SIDE). TIGHT THE M12 SCREWS TO A TORQUE OF 100 Nm. (PAY ATTENTION: DO NOT USE GREASE OR ANYTHING SIMILAR). TURN THE SHAFT TO ENSURE A PERFECT FIX BETWEEN COMPONENTS. REPEAT THE PROCESS FOR THE OTHER 2 RODS, IN SEQUENCE ALWAYS TURNING THE SHAFT AND CHECKING THE ASSEMBLY.

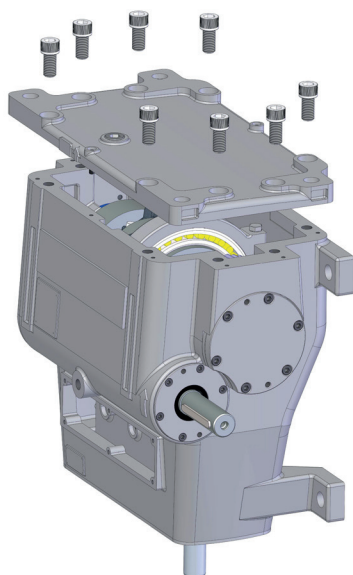
Fig. 27

ASSEMBLING THE H-300 PUMP POWER END



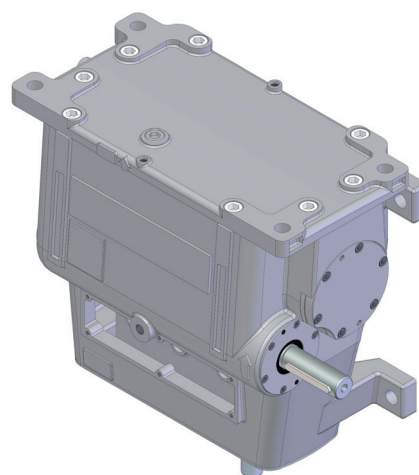
MOUNT THE FIRST BEARING CAP (PINION SIDE). TIGHT THE M16 SCREWS TO A TORQUE OF 232 Nm. (PAY ATTENTION: DO NOT USE GREASE OR ANYTHING SIMILAR). TURN THE SHAFT TO ENSURE A PERFECT FIX BETWEEN COMPONENTS. REPEAT THE PROCESS FOR THE OTHER 2 BEARINGS, ALWAYS TURNING THE SHAFT AND CHECKING THE ASSEMBLY.

Fig. 28



APPLY LOCTITE 598 BLACK SILICONE ON ALL THE CRANKCASE SURFACE (AREA WHERE THE COVER WILL BE PRESSED AGAINST). PLACE THE COVER ON THE CRANKCASE, ALIGN IT AND INSERT THE GUIDING SCREWS (M8 X 30MM ALLEN)

Fig. 29

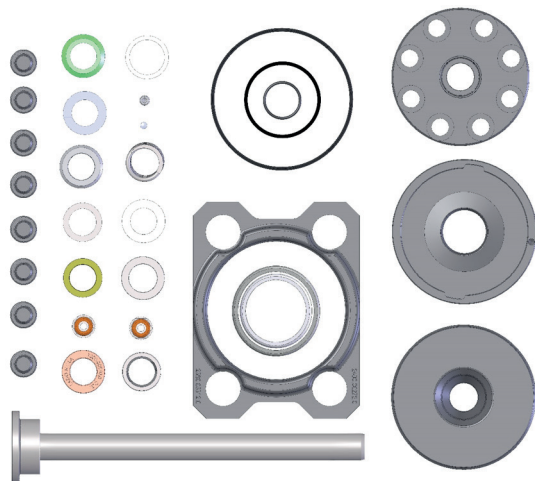


MOUNT THE M20 ALLEN SCREWS UNTIL THEY TOUCH THE SURFACE. TIGHT THE SCREWS IN "X" TO A TORQUE OF 350 NM.

Fig. 30

ASSEMBLING THE UAP G-IV PLUNGER KIT

PLUNGER KIT – ASSEMBLY STEPS – UAP IV (P-20)



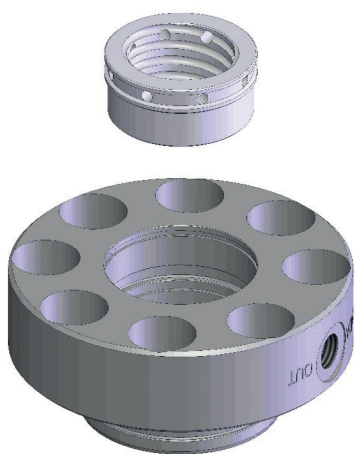
ARRANGE ALL PLUNGER KIT COMPONENTS ON THE WORK BENCH.

Fig. 01



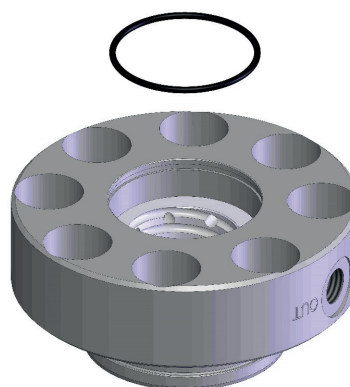
SEPARATE ALL SUPPORT FLANGE COMPONENTS ON THE WORK BENCH.

Fig. 02



INSERT THE SLIDING BUSH INTO THE SUPPORT FLANGE.

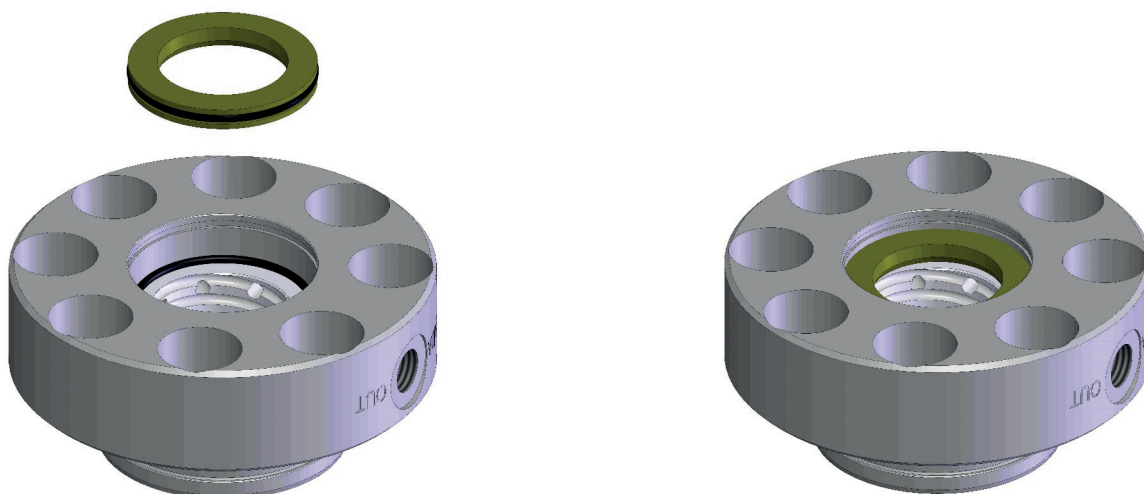
Fig. 03



OVERLAP THE O-RING.

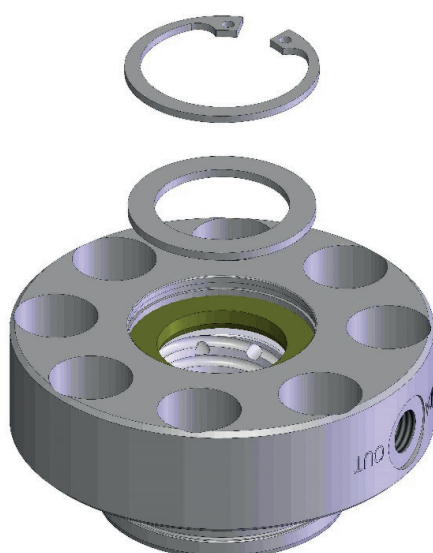
Fig. 04

PLUNGER KIT – ASSEMBLY STEPS – UAP IV (P-20)



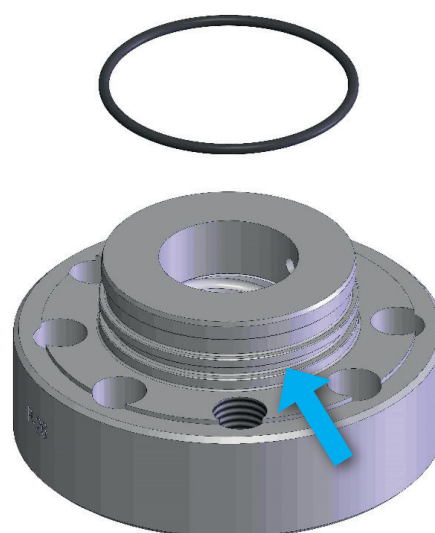
INSERT THE LOW PRESSURE SEAL WITH THE OPENED SIDE TURNED TO THE SUPPORT FLANGE (APPLY "ROCOL" TYPE GREASE TO SEAL).

Fig. 05



INSERT THE SPACER AND THE SEEGER RING TO FIX THE ASSEMBLED PARTS.

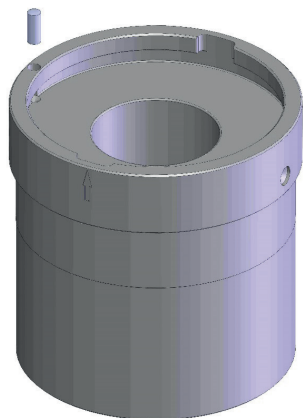
Fig. 06



INSERT THE O-RING INTO THE SUPPORT FLANGE SEAT (SEE THE PICTURE).
APPLY "ROCOL" TYPE GREASE TO SEAL.

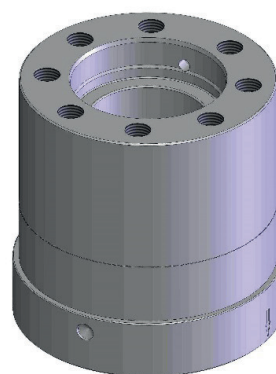
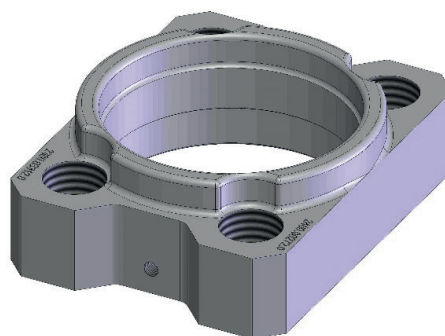
Fig. 07

PLUNGER KIT – ASSEMBLY STEPS – UAP IV (P-20)



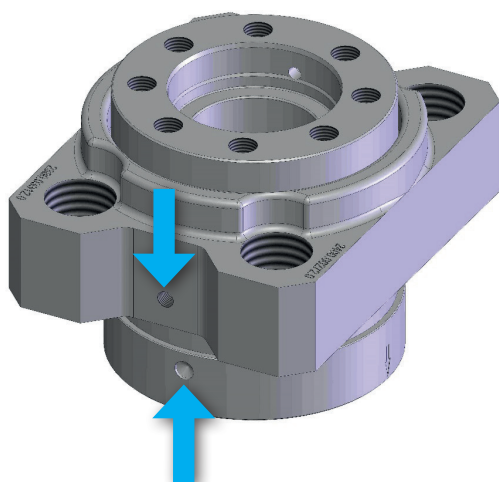
INSERT THE GUIDE PIN INTO THE SLEEVE
(SOME MODELS COULD BE SUPPLIED WITH PIN
ALREADY MOUNTED).

Fig. 08



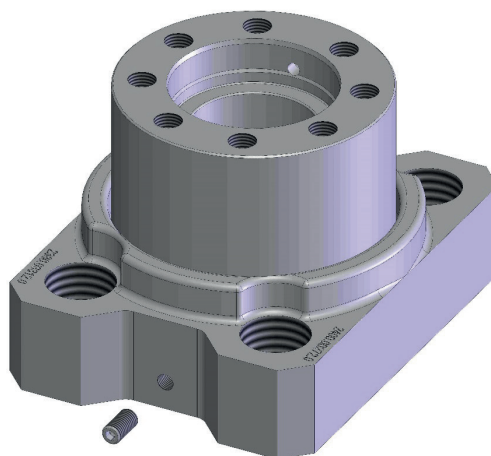
MOUNT THE SUPPORT FLANGE ON THE SLEEVE.

Fig. 09



CHECK HOLE ALIGNMENT.

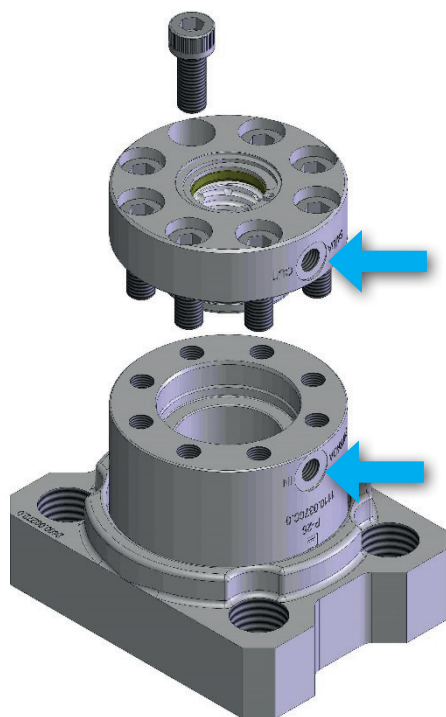
Fig. 10



INSERT THE ALLEN SCREW WITHOUT HEAD
AND FIX IT.

Fig. 11

PLUNGER KIT – ASSEMBLY STEPS – UAP IV (P-20)



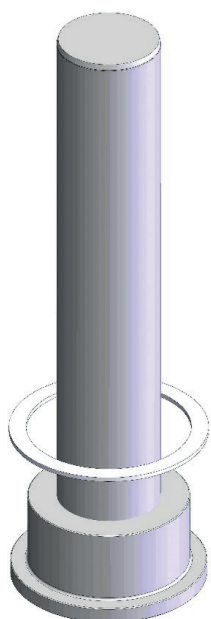
APPLY "ROCOL" TYPE GREASE ON THE THREAD OF THE M10 SCREWS THAT FIX THE SUPPORT FLANGE WITH THE SLEEVE, TIGHT "X" TO A TORQUE OF 60Nm.

Fig. 12



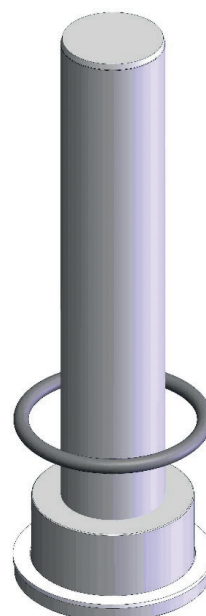
ARRANGE THE PLUNGER, THE BACK RING, THE O-RING AND THE G-IV SELF-CENTERING ADAPTER.

Fig. 13



INSERT THE FIRST BACK RING ON THE PLUNGER.

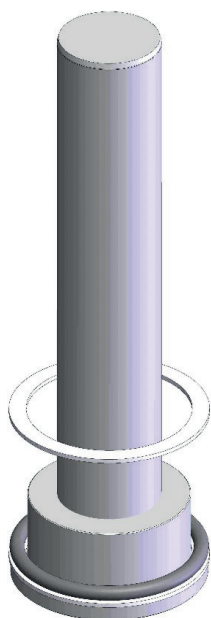
Fig. 14



INSERT THE O-RING ON THE PLUNGER.

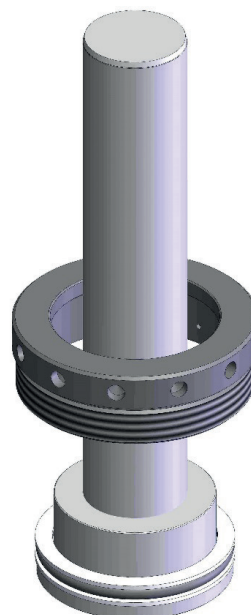
Fig. 15

PLUNGER KIT – ASSEMBLY STEPS – UAP IV (P-20)



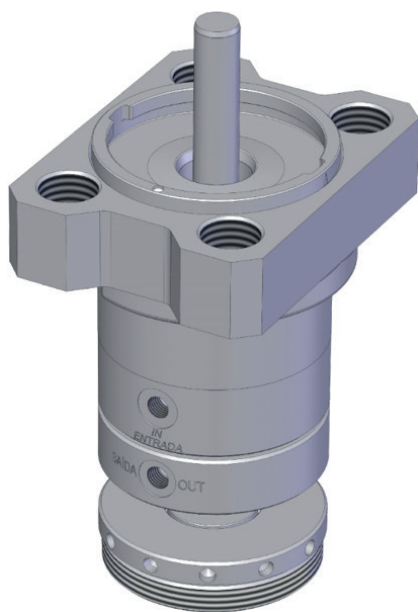
INSERT THE SECOND BACK RING ON THE PLUNGER.

Fig. 16



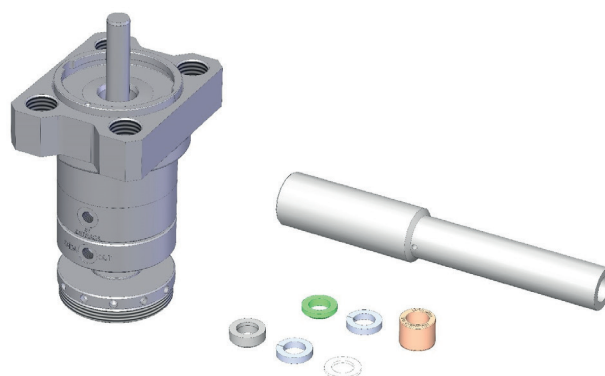
INSERT THE G-IV SELF-CENTERING ADAPTER ON THE SET.

Fig. 17



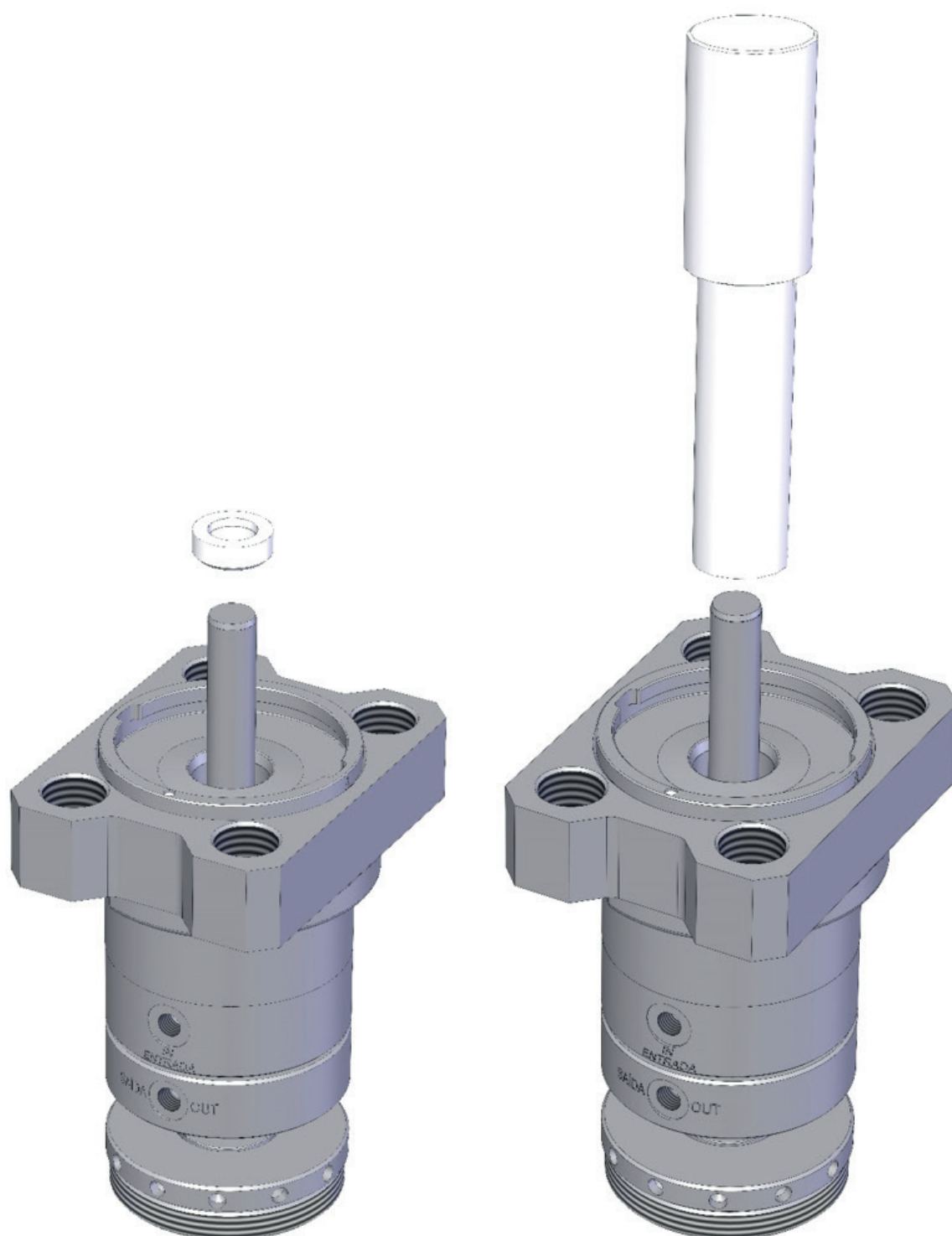
INSERT THE SLEEVE ASSEMBLED WITH THE FLANGE INTO THE PLUNGER UNTIL IT REACHES THE PLUNGER HEAD.

Fig. 18



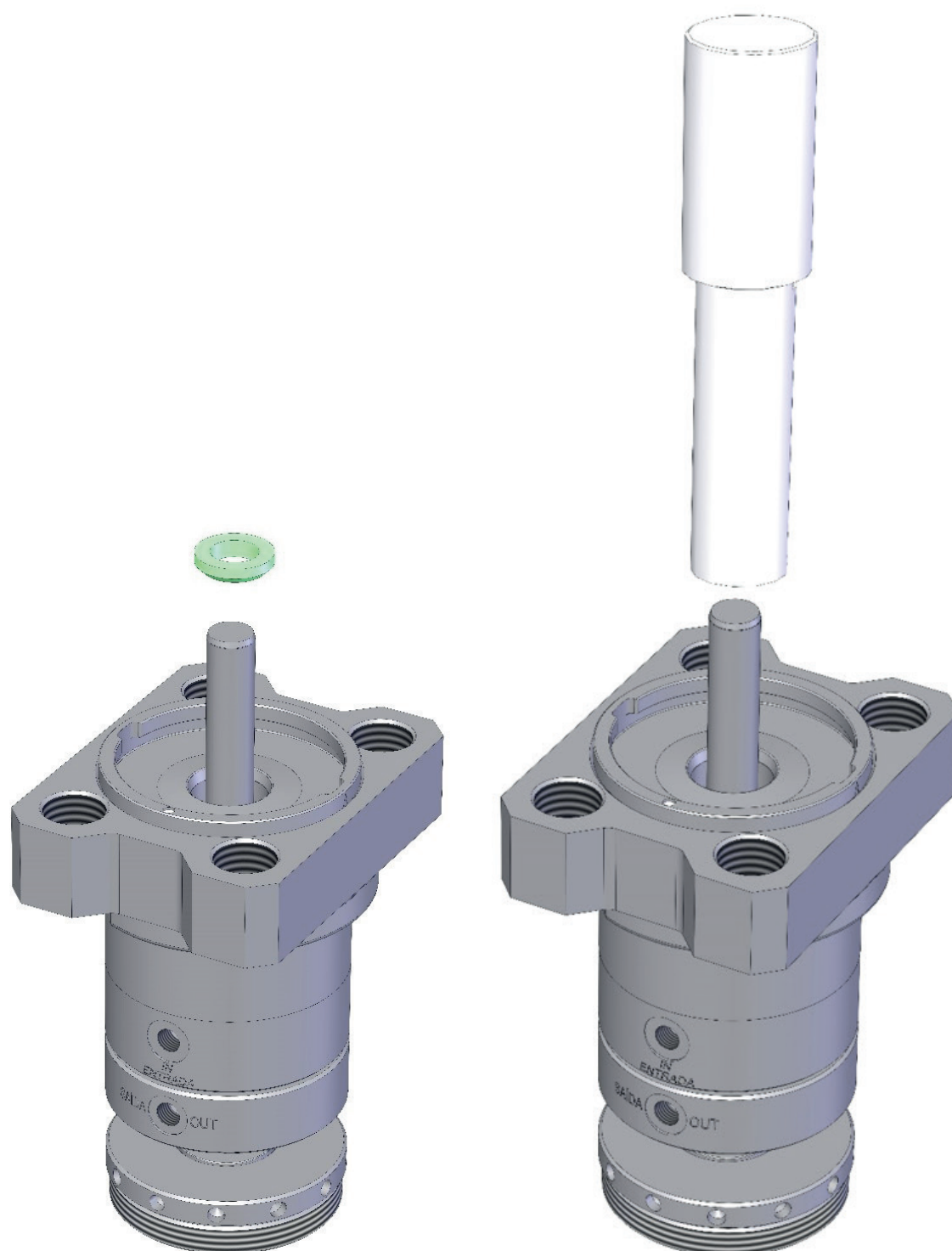
ARRANGE THE SEALING KIT ON THE WORK BENCH.

Fig. 19



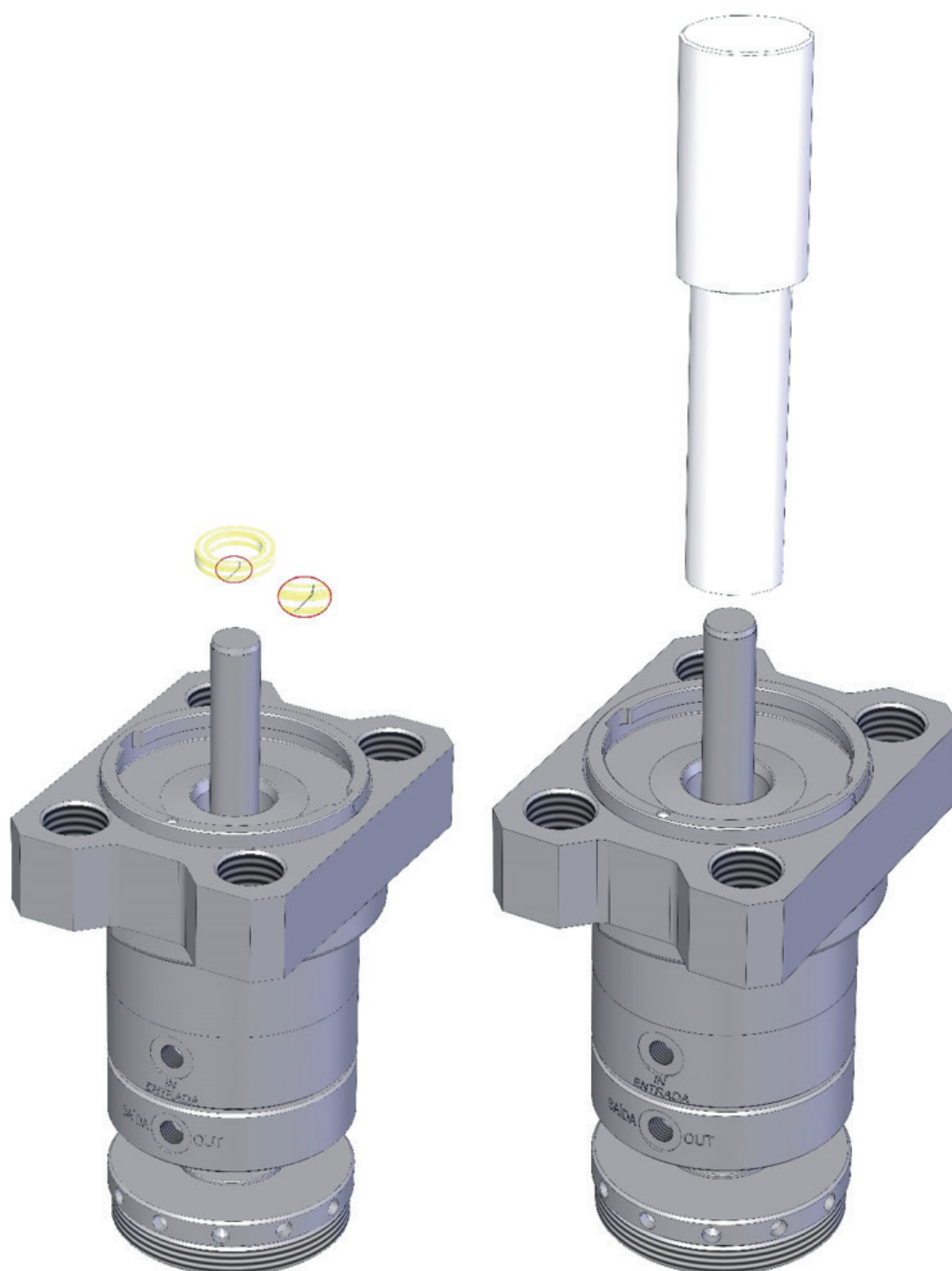
INSERT THE LOWER SUPPORTING RING (WITH THE EXTERNAL FILLET FACING DOWN) AND USE A NYLON TOOL AND A HAMMER TO PUSH IT UNTIL IT REACHES THE BOTTOM.

Fig. 20



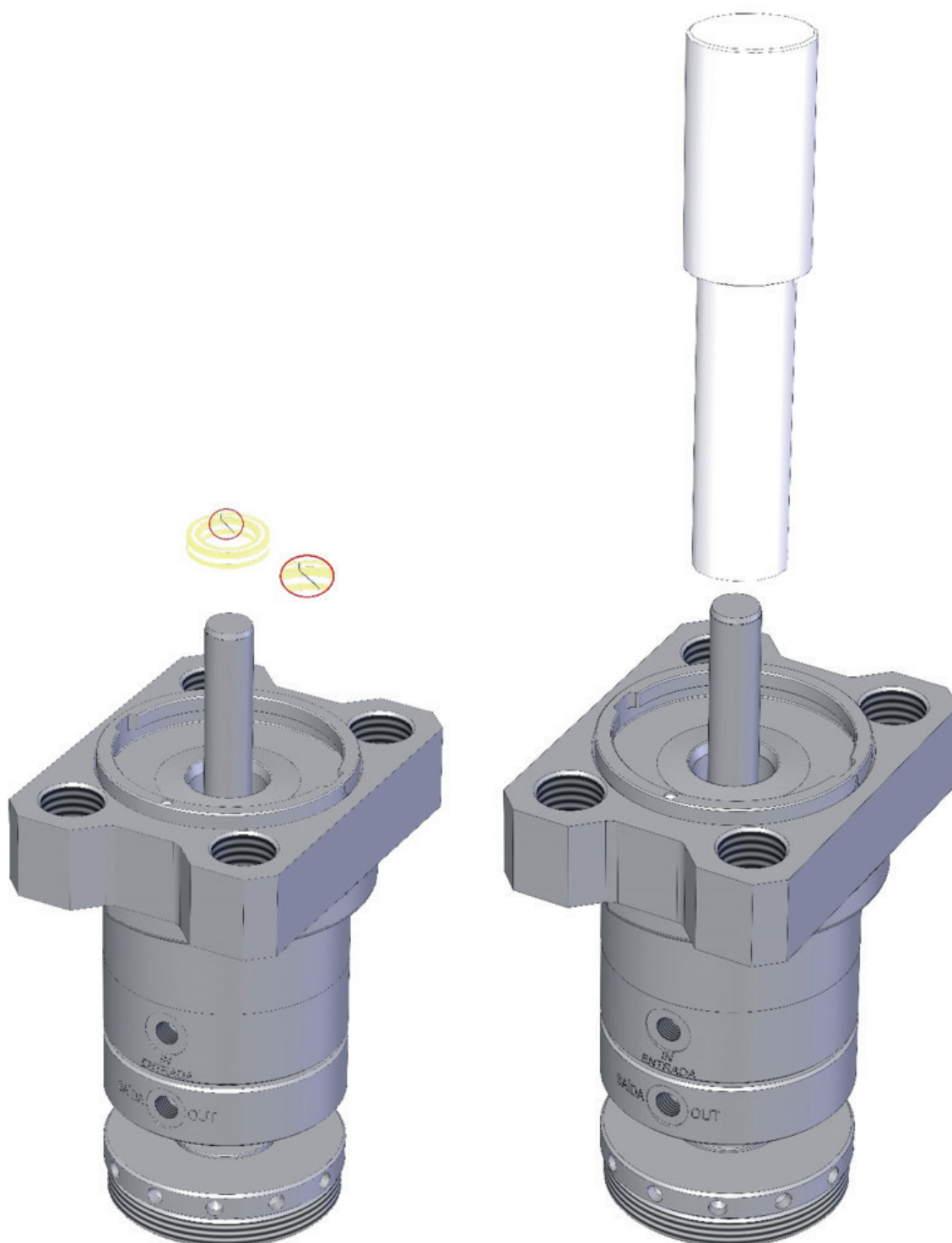
INSERT THE V SEALING RING AND USE THE NYLON TOOL AND A HAMMER TO PUSH IT TO THE BOTTOM.

Fig. 21



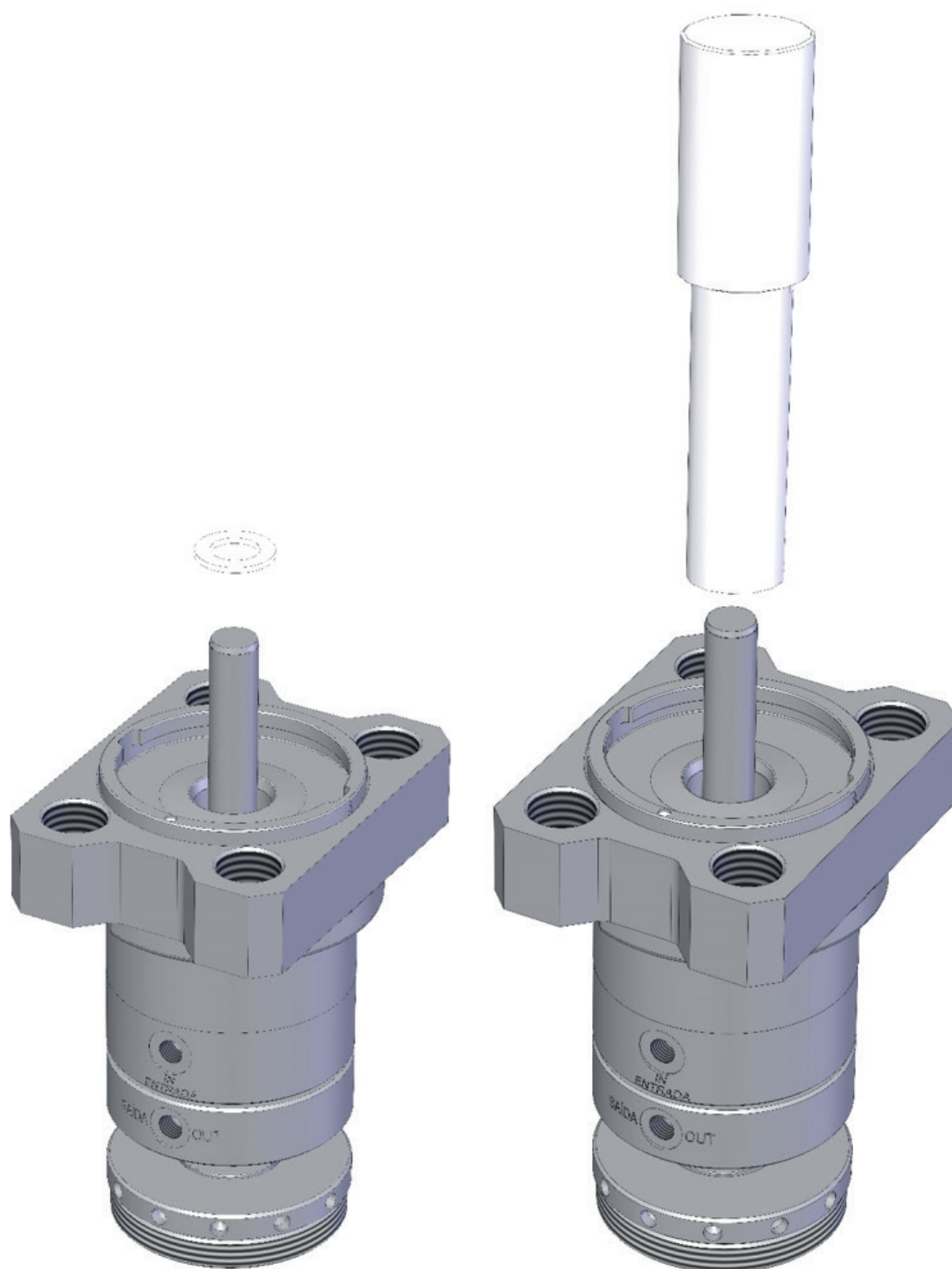
INSERT THE BRAIDED PACKING AND USE THE NYLON TOOL AND A HAMMER TO PUSH IT TO THE BOTTOM.

Fig. 22



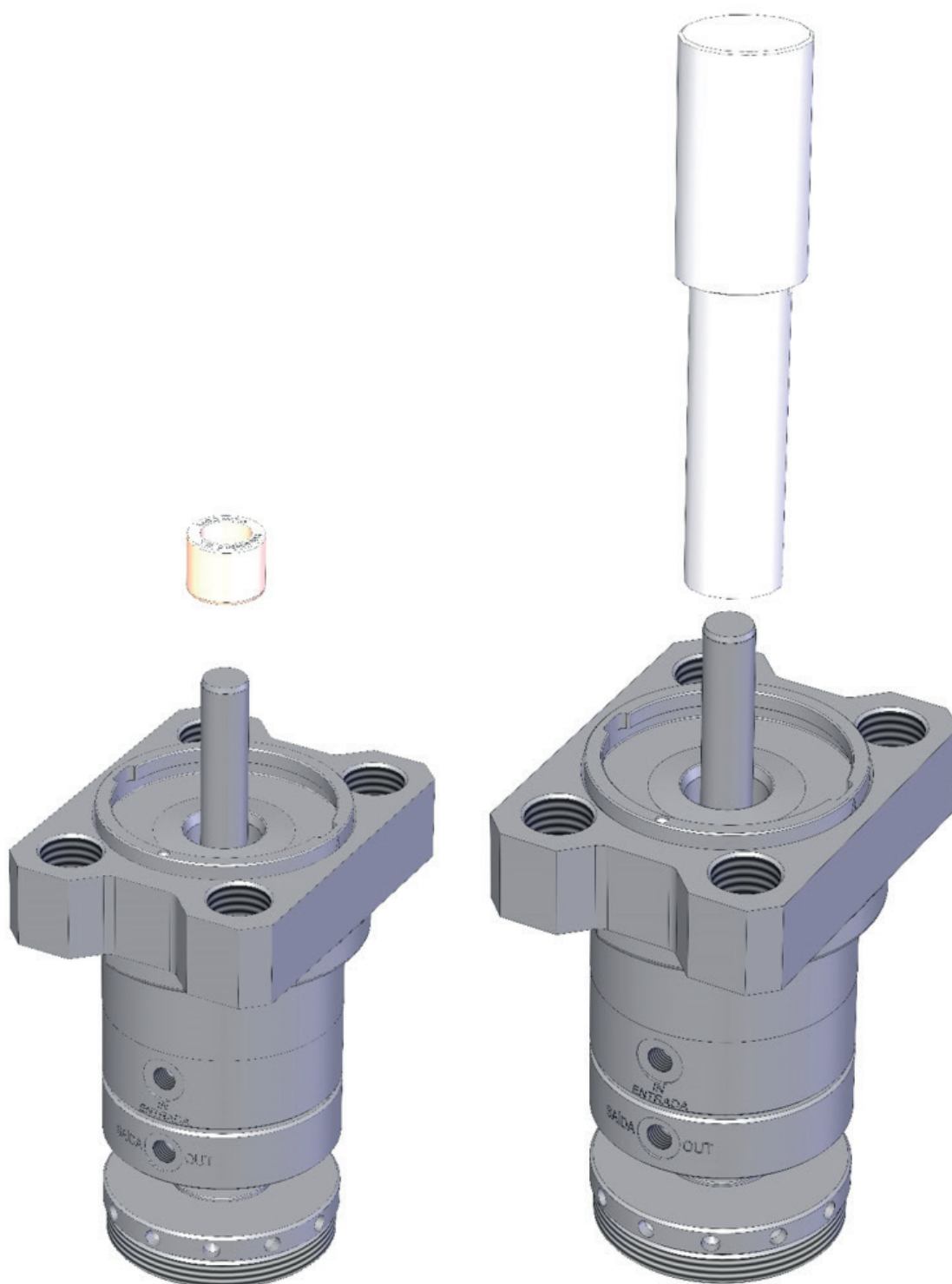
INSERT THE BRAIDED PACKING PAYING ATTENTION TO KEEP ITS CHANFER AT A 180° WITH RESPECT TO THE KEVLAR SEALING. USE THE NYLON TOOL AND A HAMMER TO PUSH IT TO THE BOTTOM.

Fig. 23



INSERT THE SCRAPER RING AND USE THE NYLON TOOL TO PUSH IT TO THE BOTTOM.

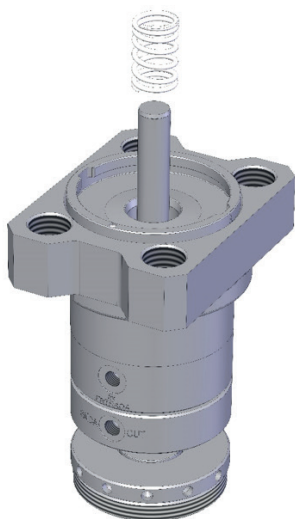
Fig. 24



INSERT THE UPPER SUPPORTING RING AND USE THE NYLON TOOL TO PUSH IT TO THE BOTTOM.

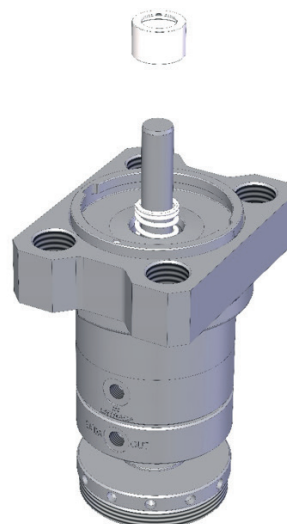
Fig. 25

PLUNGER KIT – ASSEMBLY STEPS – UAP IV (P-20)



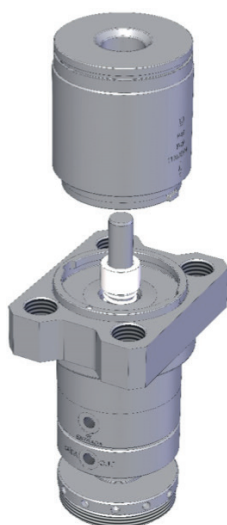
INSERT THE SPRING

Fig. 26



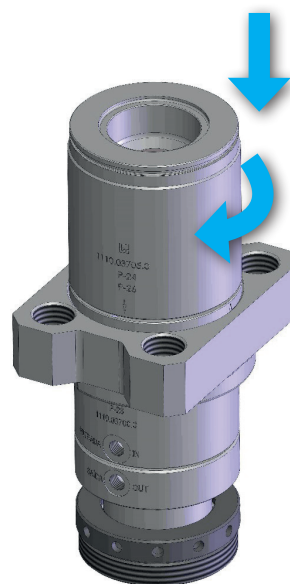
INSERT THE SPRING GUIDE

Fig. 27



ASSEMBLE THE FRONTAL SLEEVE ON THE PLUNGER USING THE ARROWS AS REFERENCE FOR ASSEMBLY ALIGNMENT.

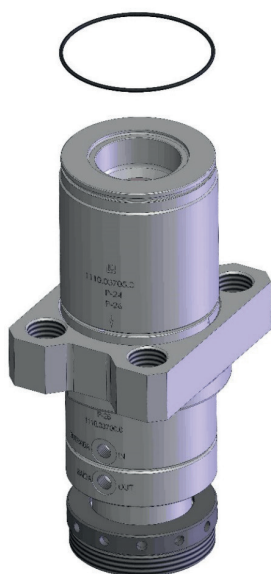
Fig. 28



PRESS IT UNTIL IT REACHES THE BOTTOM AND ROTATE 90° TO LOCK THE FRONTAL SLEEVE IN THE RIGHT POSITION.

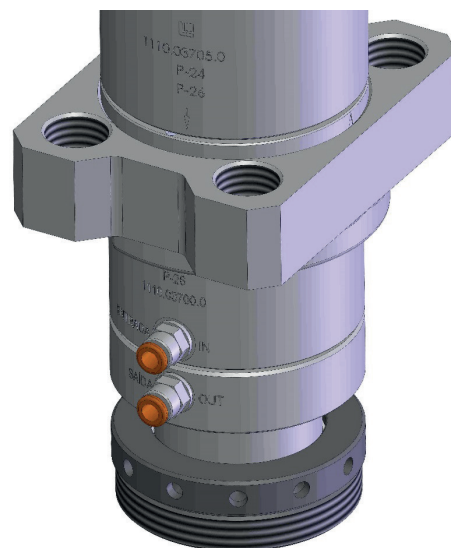
Fig. 29

PLUNGER KIT – ASSEMBLY STEPS – UAP IV (P-20)



INSERT THE O-RING ON THE FRONTAL SLEEVE.

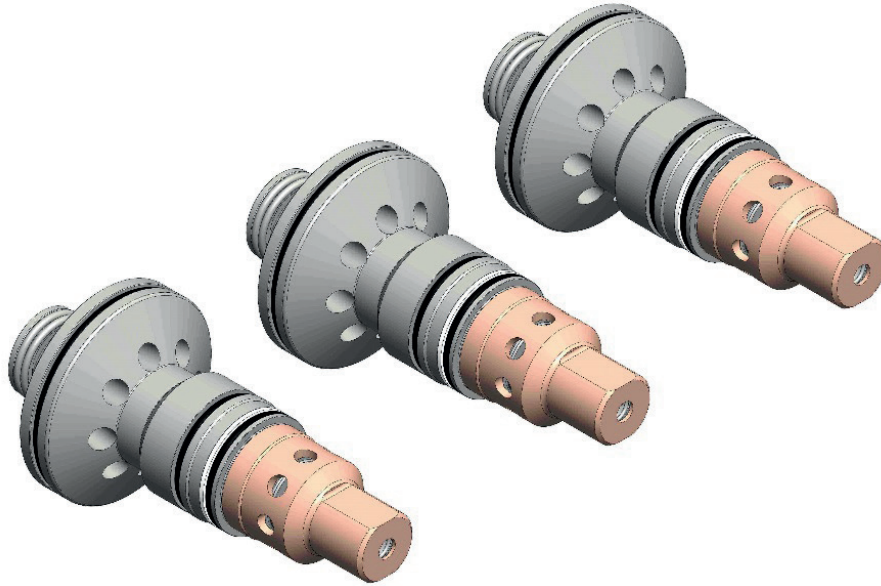
Fig. 30



TIGHT COOLING SYSTEM CONNECTIONS.

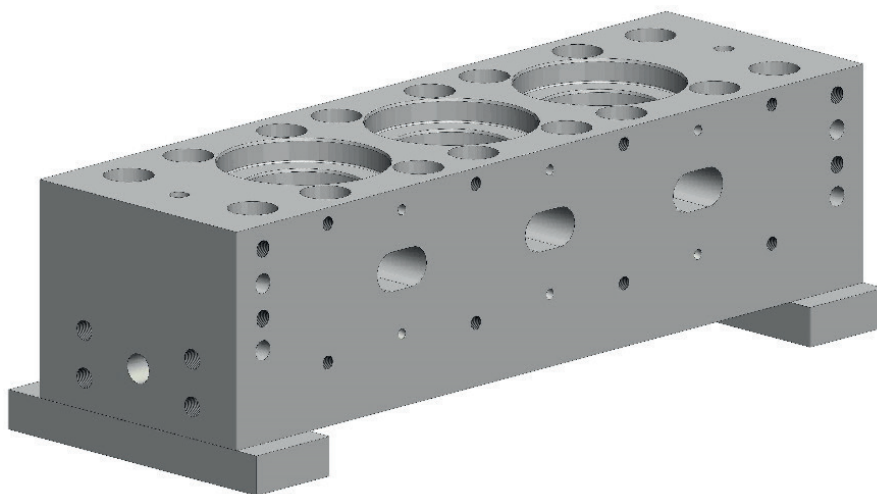
Fig. 31

ASSEMBLING THE UAP G-IV PUMP HEAD



ARRANGE THE INTELLIVALVES.

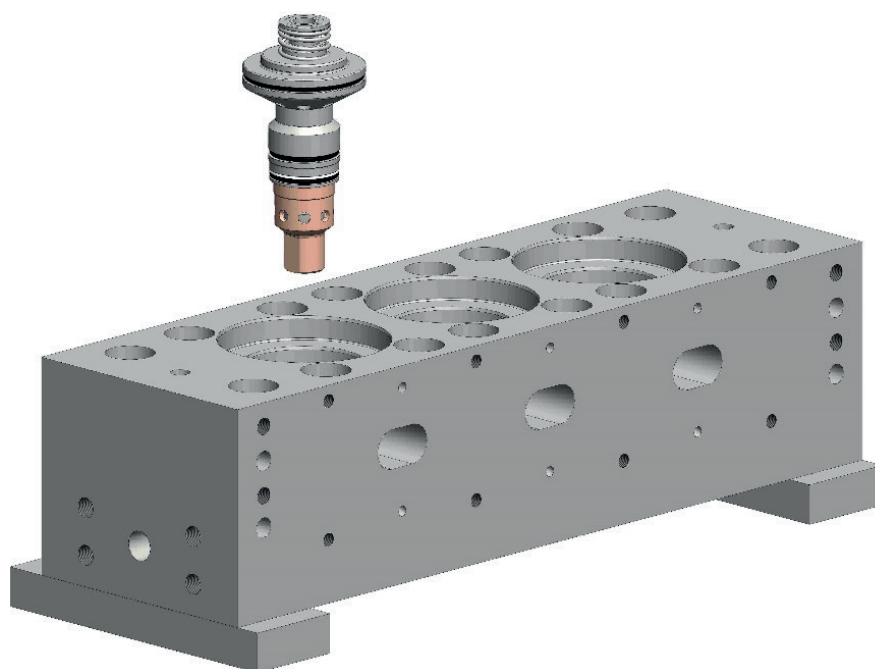
Fig. 01



PUT THE MANIFOLD ON SUPPORTING SHIMS.

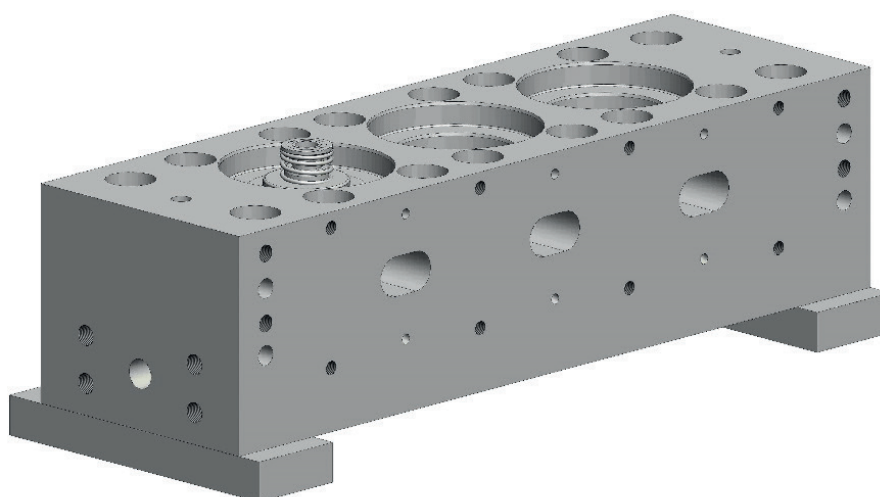
Fig. 02

ASSEMBLING THE UAP G-IV PUMP HEAD



BEFORE INSERTING THE INTELLIVALVE IN THE HOLE, APPLY "ROCOL" TYPE GREASE ON ALL SEAL RINGS TO AVOID DAMAGE DURING ASSEMBLY.

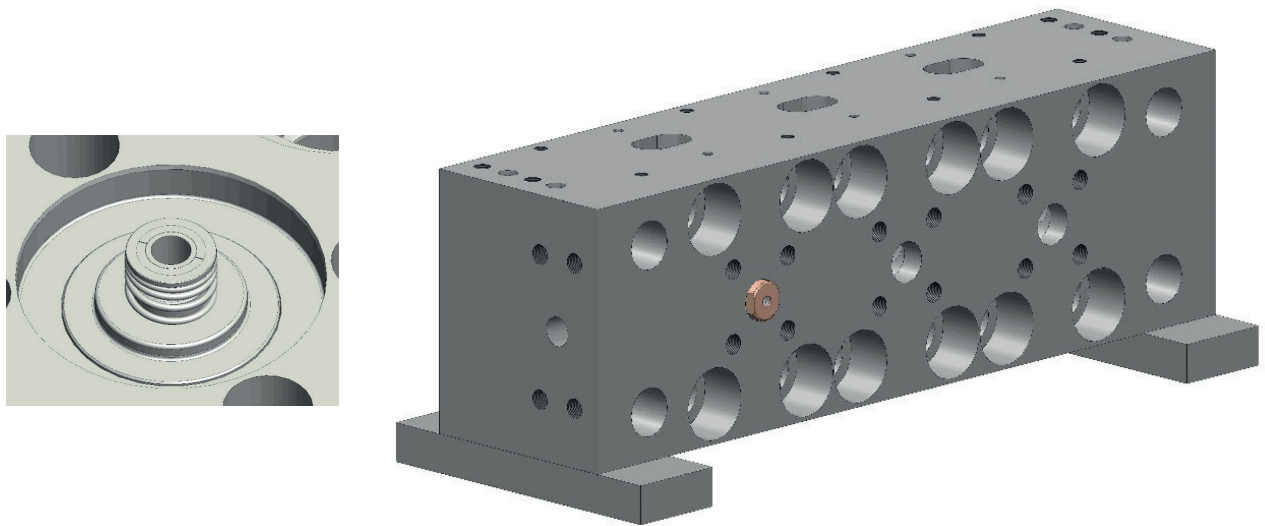
Fig. 03



FIX THE INTELLIVALVE MANUALLY IN THE HOLE.

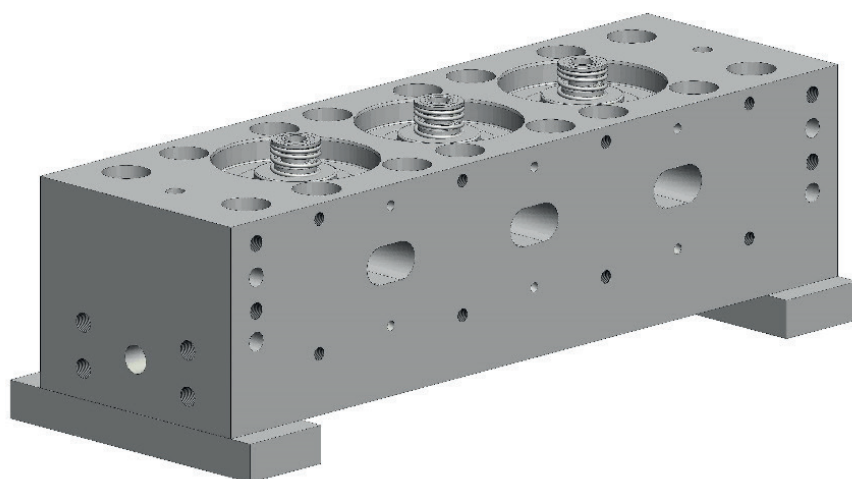
Fig. 04

ASSEMBLING THE UAP G-IV PUMP HEAD



CHECK THE INTELLIVALVE ASSEMBLY: ITS OUTSIDE SURFACE MUST BE A LITTLE BIT FURTHER IN COMPARISON WITH THE PUMP HEAD SURFACE. CHECK IF THE VALVE IS COMPLETELY MOUNTED.

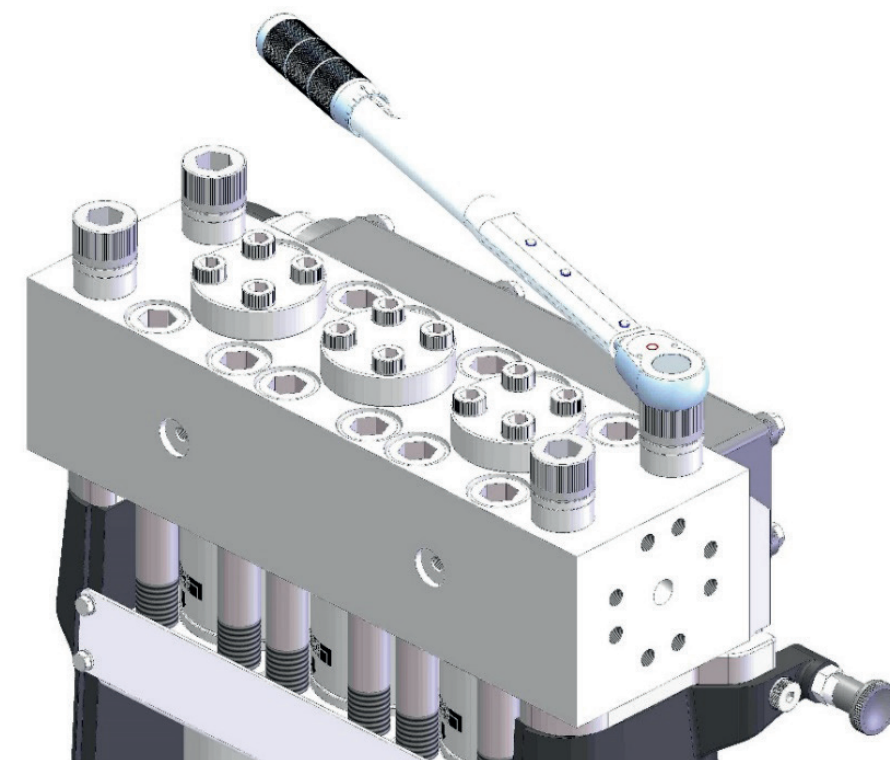
Fig. 05



REPEAT THE PROCESS FOR THE OTHER TWO INTELLIVALVES.

Fig. 06

ASSEMBLING THE UAP G-IV PUMP HEAD



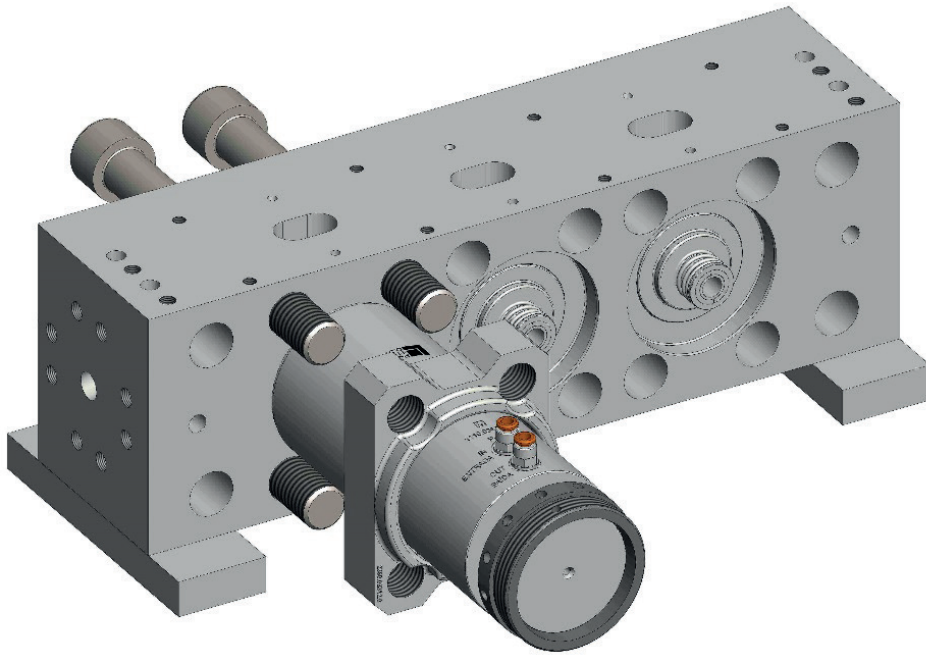
APPLY COPPER GREASE ON THE THREAD OF THE M24 SCREWS THAT FIX THE ASSEMBLED HEAD WITH THE FORK. TIGHT "X" WITH 100Nm, 250Nm AND 400Nm TORQUE STEPS.

PAY ATTENTION!

IN ORDER TO SIMPLIFY THE DRAWING, ON FIG. 8, 9, 10, 11, 12 AND 13 THE FORK AND THE PUMP CRANKCASE ARE NOT SHOWN. HOWEVER, THESE STEPS MUST BE DONE WITH THE HEAD ALREADY FIXED TO THE FORK.

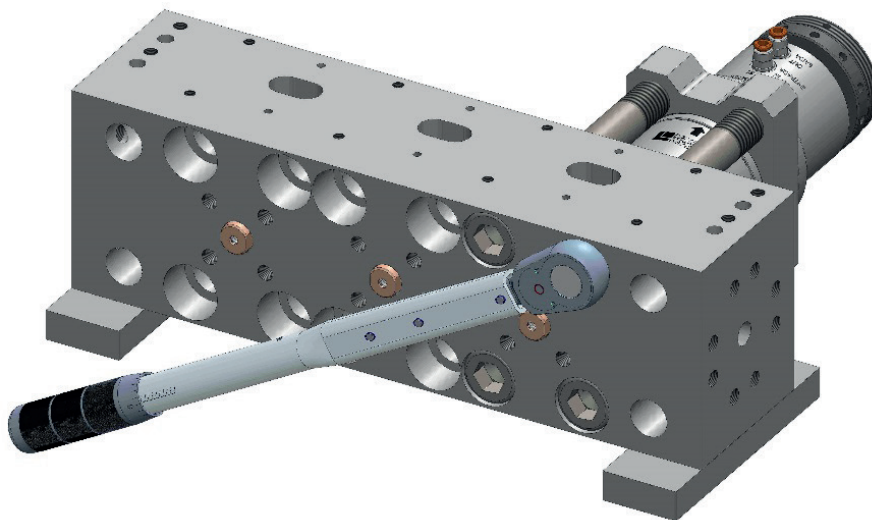
Fig. 07

ASSEMBLING THE UAP G-IV PUMP HEAD



WITH THE PLUNGER KIT ALREADY ASSEMBLED, APPLY "ROCOL" TYPE GREASE TO AVOID SEALS BEING DAMAGED DURING ASSEMBLY. INSERT THE PLUNGER KIT INTO THE MANIFOLD (CHECK CONNECTION PARTS SIDE) AND INSERT SCREWS (APPLY COPPER GREASE ON THREADS).

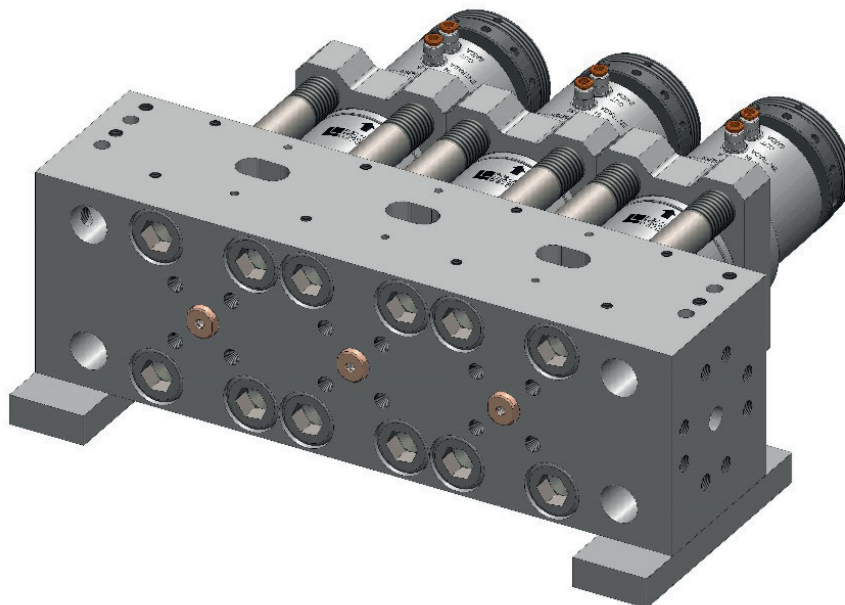
Fig. 08



TIGHT "X" WITH 70Nm, 150Nm AND 350Nm TORQUE STEPS.

Fig. 09

ASSEMBLING THE UAP G-IV PUMP HEAD



REPEAT THE PROCESS FOR THE OTHER TWO PLUNGERS.

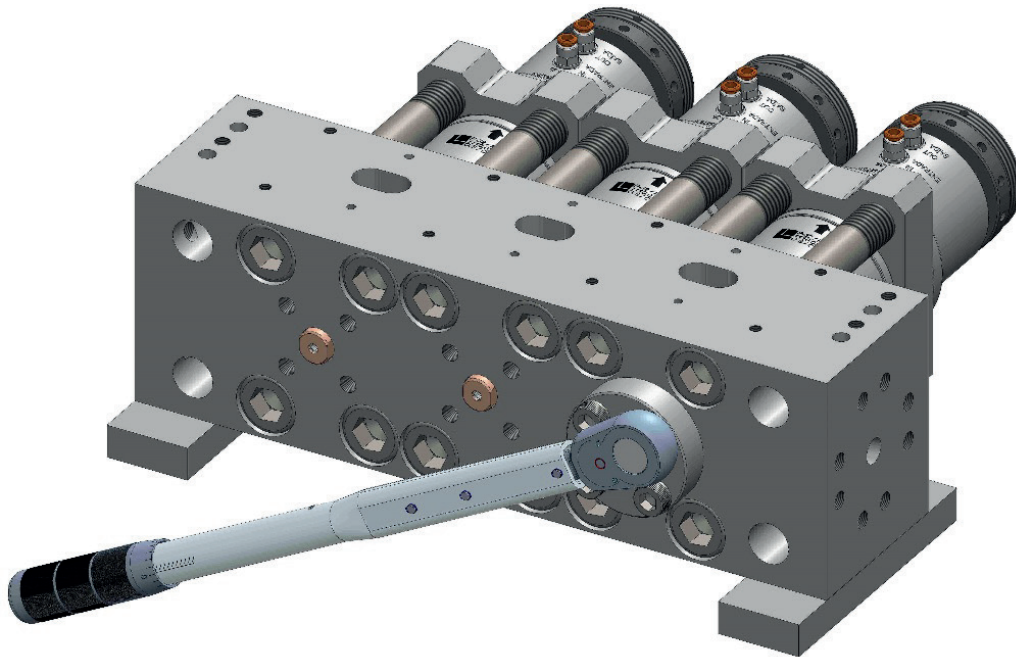
Fig. 10



ASSEMBLE THE O-RING ON THE FRONT FLANGE (APPLY "ROCOL" TYPE GREASE ON THE SEAL).

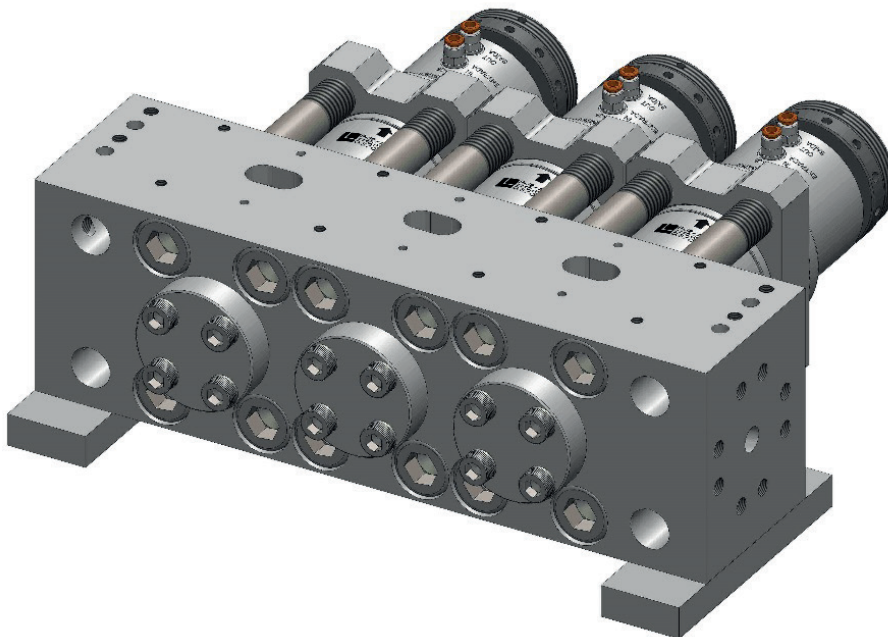
Fig. 11

ASSEMBLING THE UAP G-IV PUMP HEAD



APPLY COPPER GREASE ON THE THREAD OF THE M12 SCREWS THAT FIX THE FRONT FLANGE WITH THE MANIFOLD. TIGHT "X" TO A TORQUE OF 100Nm.

Fig. 12

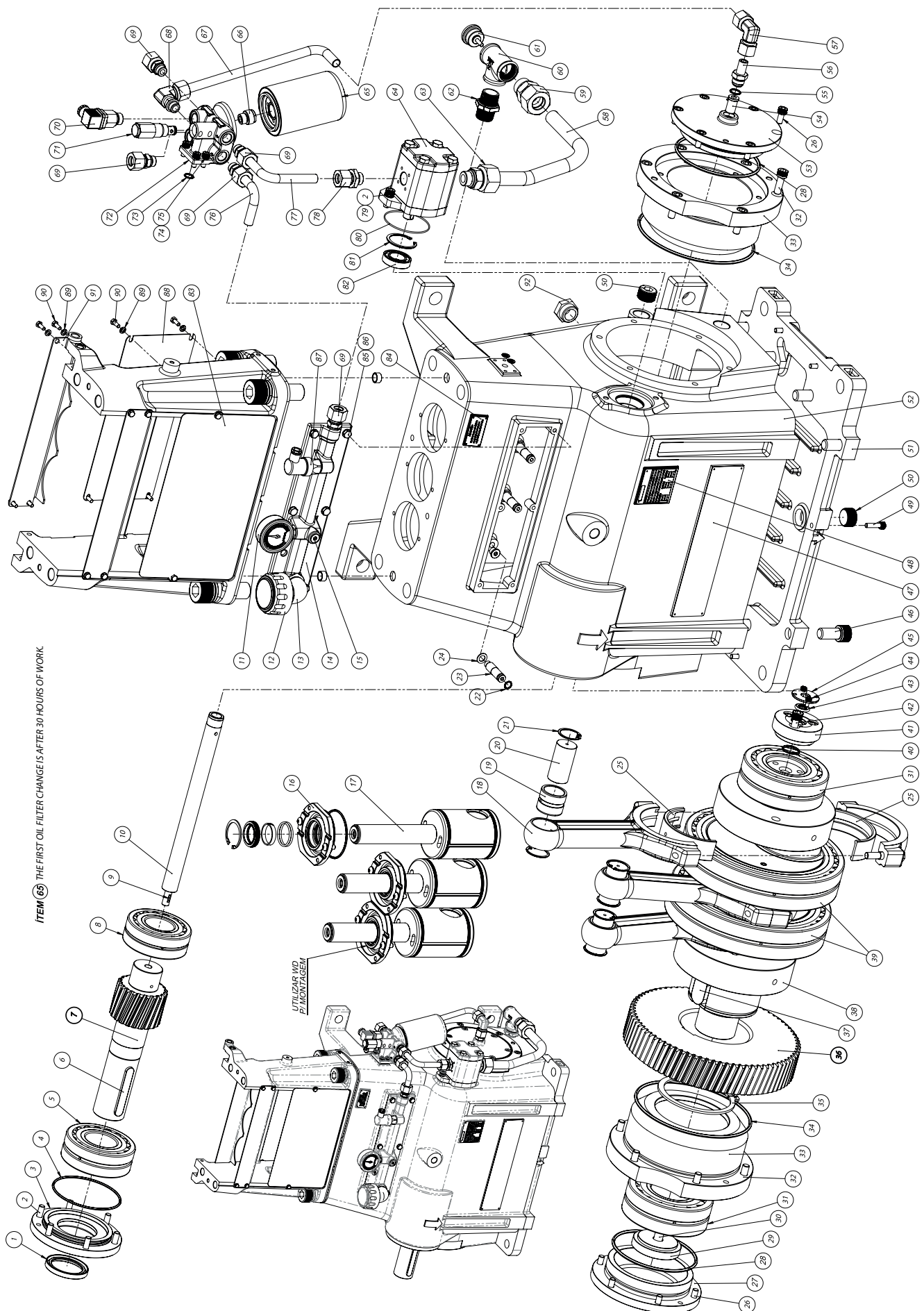


REPEAT THE PROCESS FOR THE OTHER TWO FLANGES.

Fig. 13

POWER END PARTS

(see codes on the next page)



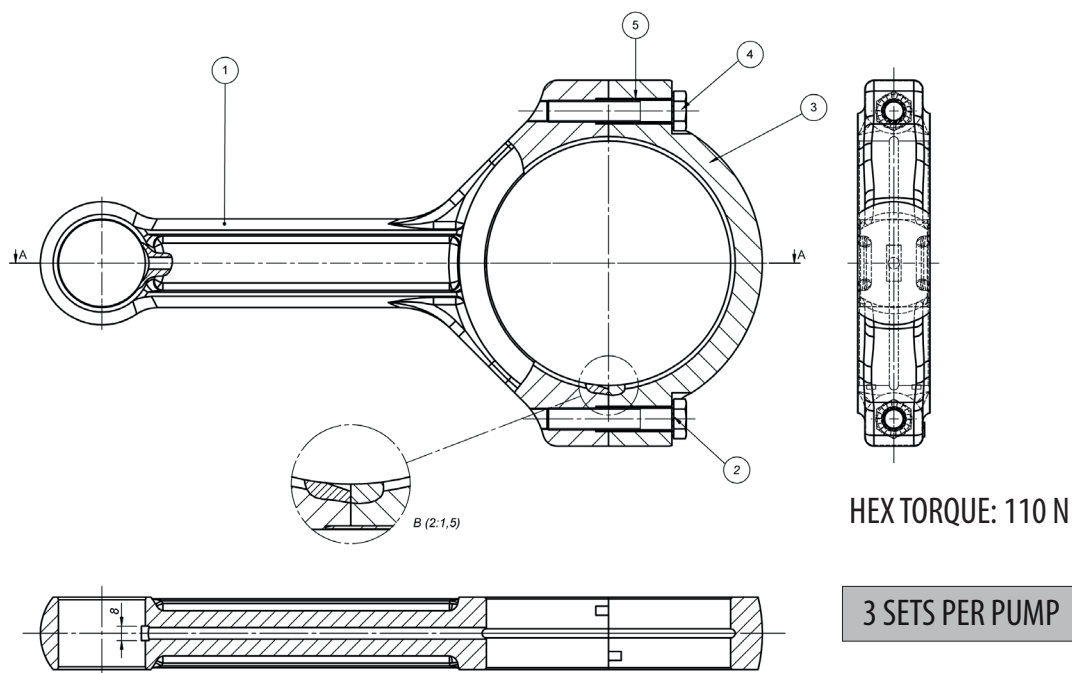
POWER ENDS - H300/4	
CODE	DESCRIPTION
Q231010011075	H300/4 VERTICAL POWER END 1800 RPM (60 Hz)
Q231010011074	H300/4 HORIZONTAL POWER END 1800 RPM (60 Hz)
Q231010011076	H300/4 VERTICAL POWER END 1500 RPM (50 Hz)
Q231010011079	H300/4 HORIZONTAL POWER END 1500 RPM (50 Hz)

POWER END PARTS			
ITEM	CODE	DESCRIPTION	QTY.
1	Q231300004780	OIL SEAL	1
2	Q231200001400	ALLEN SCREW M10x25mm	8
3	Q231110022050	AXIS TRASMISSION FLANGE	1
4	Q231300003810	O-RING	1
5	Q231700001150	BEARING	1
6	Q231200002830	KEY	1
7	Q231110008760	1800 RPM (60 Hz) SHAFT H300-4	1
	Q23 1110016060	1500 RPM (50 Hz) SHAFT H300-4	1
8	Q231700001310	BEARING	1
9	Q231200003000	WOODRUFF KEY	1
10	Q231110026210	SHAFT EXTENSION	1
11	Q233000003210	PRESSURE GAUGE	1
12	Q233000001190	CAP 1" BSP	1
13	Q232320002290	ELBOW 90° MALE-FEMALE 1" BSP	1
14	Q231110036740	LUBRICATE DUCT G-IV	1
15	Q232320005640	PLUG 1/4" BSP	2
16	Q231010010971	OIL SEAL CAGE	3
17	Q231010008850	PISTON GUIDE	3
18	Q231010011130	CONNECTING ROD H300-4	3
19	Q231700001350	PISTON ROD SLEEVE	3
20	Q231100001960	PISTON ROD PIN	3
21	Q231200002780	SEEGER I-39	6
22	Q231300002130	O-RING	3
23	Q231110026200	DUCT UNION HOSE	3
24	Q231300001760	CUPPER RING	3
25	Q231700001340	BEARING CONNECTING ROD	3
26	Q231200002290	ALLEN SCREW M10x20mm	12
27	Q231110008430	CRANKSHAFT COVER H300-4	1
28	Q231300004390	O-RING	2
29	Q231110008480	SLEEVE	1
30	Q231200001860	ALLEN SCREW M16x40mm	1
31	Q231700001330	BEARING	2
32	Q231200002930	ALLEN SCREW M12x35mm	12

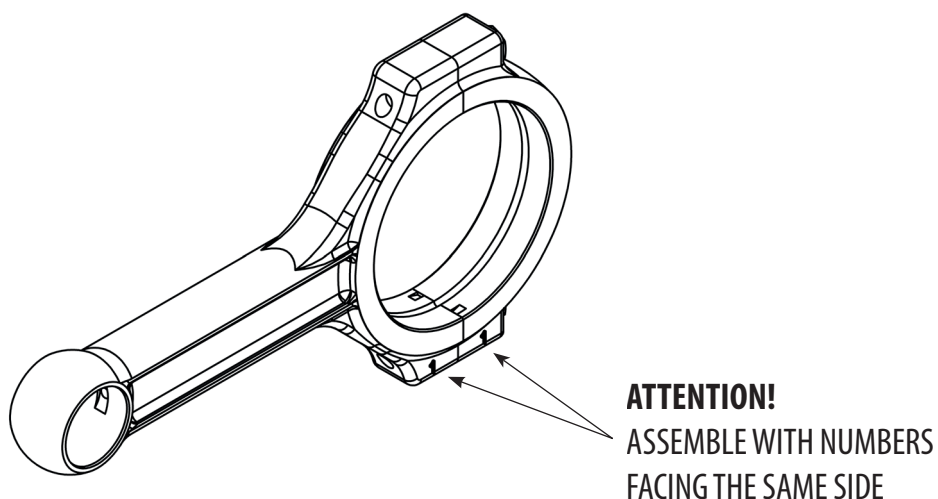
POWER END PARTS			
ITEM	CODE	DESCRIPTION	QTY.
33	Q231110008450	BEARING HOUSING	2
34	Q231300004380	O-RING	2
35	Q231200002850	SEEGER	1
36	Q231110008770	1800 RPM (60 Hz) CROWN H300-4	1
	Q23 1110016080	1500 RPM (50 Hz) CROWN H300-4	1
37	Q231200002840	KEY	1
38	Q231010007730	CRANKSHAFT H300-4	1
39	Q231700001320	BEARING	2
40	Q231300002540	O-RING	1
41	Q231110010090	BEARING SLEEVE	1
42	Q231200001840	ALLEN SCREW M12x30mm	3
43	Q231300005020	ROTO GLYD	1
44	Q231200001610	ALLEN SCREW M6x12mm	2
45	Q231110030640	GLYD COVER H120-H200-H300	1
46	Q231200010120	ALLEN SCREW M20X40MM DIN 912	8
47	Q233000024900	BRAND PLATE	2
48	Q233000001200	TECHNICAL DATA PLATE	1
49	Q231200002680	ALLEN SCREW M8x30mm	6
50	Q232320018050	HEXAGONAL CAP 1"BSP	2
51	Q231110034670	H300/4 COVER (VERTICAL PUMPS)	1
	Q231110022060	H300/4 COVER (HORIZONTAL PUMPS)	1
	Q231110007170	H300/4 INSPECTION COVER (HORIZONTAL PUMPS)	1
52	Q231010016930	CASE H300-4 (VERTICAL / HORIZONTAL)	1
53	Q231110022640	CRANKSHAFT COVER H300-4	1
54	Q231110023040	AXIS ROTO GLYD	1
55	Q231300008480	O-RING	1
56	Q231110035790	ADAPT. M22x1,5 Ø16mm	1
57	Q232320018070	COUPLING 90° AC16 X M24X1.5	1
58	ON REQUEST	HOSE Ø25mm - SUCTION PUMP	1
59	Q232320018100	COUPLING AC25 X 1" BSP	1
60	Q232320002280	T ADAPTOR 1" BSP	1
61	Q232320016770	MAGNETIC CAP BMA 1"BSP	1
62	Q232320007140	NIPLE 1" BSP	1
63	Q232320018140	COUPLING AC25 X 1.1/16" UNF	1
64	Q231110036650	LUBRICATE PUMP	1
65	Q233000021470	OIL FILTER	1
66	Q232320017080	REDUCTION 3/4" BSP x 3/4" UNF	1
67	ON REQUEST	HOSE Ø16mm - CRANKSHAFT PUMP (H300/4 VERT.)	1
68	ON REQUEST	COUPLING 90° AC16 X 3/4" UNF	1
69	Q232320018110	COUPLING AC16 X 3/4" UNF	5
70	Q233000027750	THERMAL PROTECTION 85°C	1
71	Q233000010200	RELIEF VALVE	1

POWER END PARTS			
ITEM	CODE	DESCRIPTION	QTY.
72	Q231110036750	LUBRICATE MANIFOLD G-IV	1
73	Q231300001060	O-RING	1
74	Q231200001980	LOCK WASHER M6	4
75	Q231200001500	ALLEN SCREW M6x20mm	4
76	ON REQUEST	HOSE Ø16mm - INLET PUMP (H300/4 VERT.)	1
77	ON REQUEST	HOSE Ø16mm - OUTLET PUMP (H300/4 VERT.)	1
78	Q232320018680	COUPLING AC16 X 7/8" UNF	1
79	Q231200001030	LOCK WASHER M10	2
80	Q231300005820	O-RING	1
81	Q231200008260	SEEGER I-52	1
82	Q231700001950	BEARING	1
83	Q231110044970	PISTON FRONT COVER	1
84	Q233000017940	METAL PLATE TORQUE IDENTIFICATION	1
85	Q231200008280	SCREW HEXAGONAL HEAD M8x20mm	6
86	Q231200004020	WASHER M8	6
87	Q231010010740	PRESSURE SWITCH	1
88	Q232380029570	PISTON REAR COVER	1
89	Q231200001910	WASHER M6	6
90	Q231200001890	HEXAGONAL SCREW M6x16mm	6
91	Q232380029580	JACKET COVER	2
92	Q233000010080	VISUAL OIL CAP 1"BSP	1

CONNECTING RODS - CODE Q231010011130



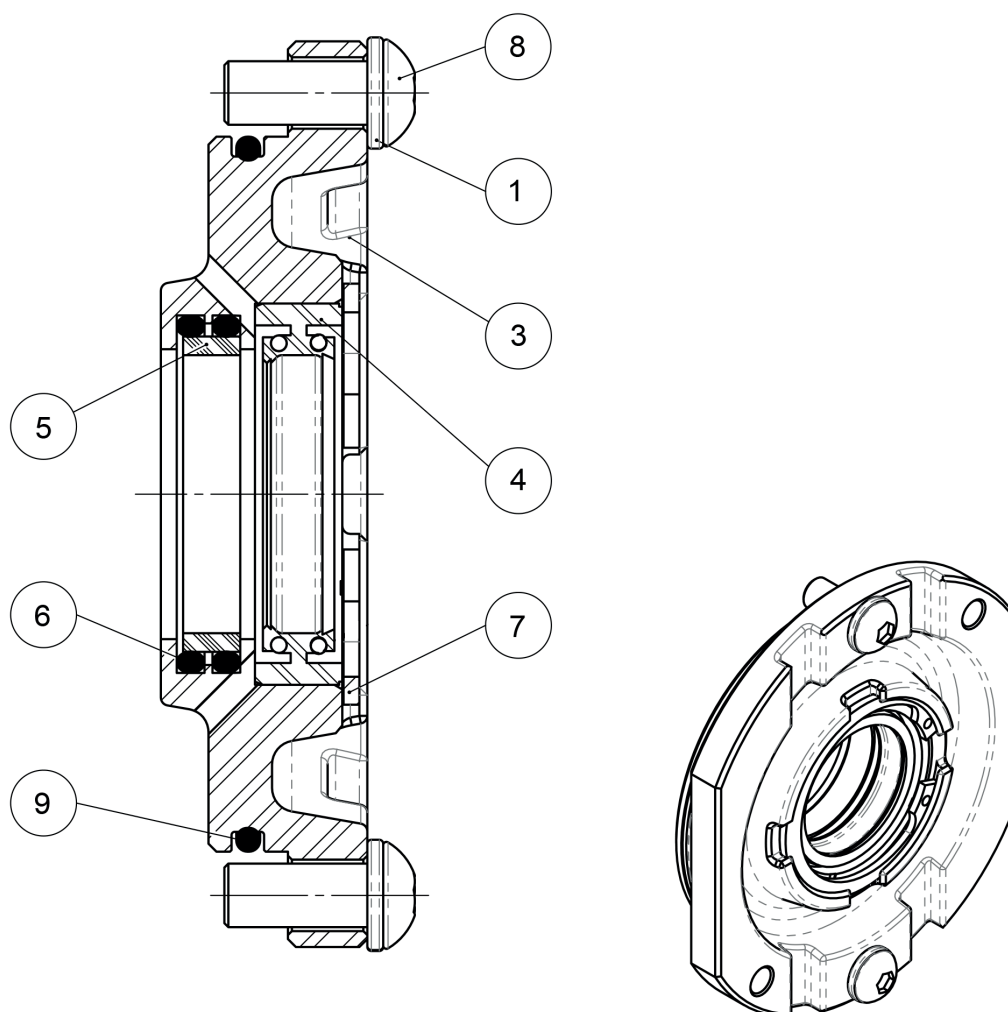
ITEM	CODE	DESCRIPTION	QTY.
1	Q231110022070	CONNECTING ROD ARM	1
2	Q231200001900	TOOTHED WASHER M12	2
3	Q231110022100	CONNECTING ROD CAP	1
4	Q231200001870	HEX BOLT M12X70	2
5	Q231200008810	ELASTIC GUIDE BUSHING	2



⚠ Attention!

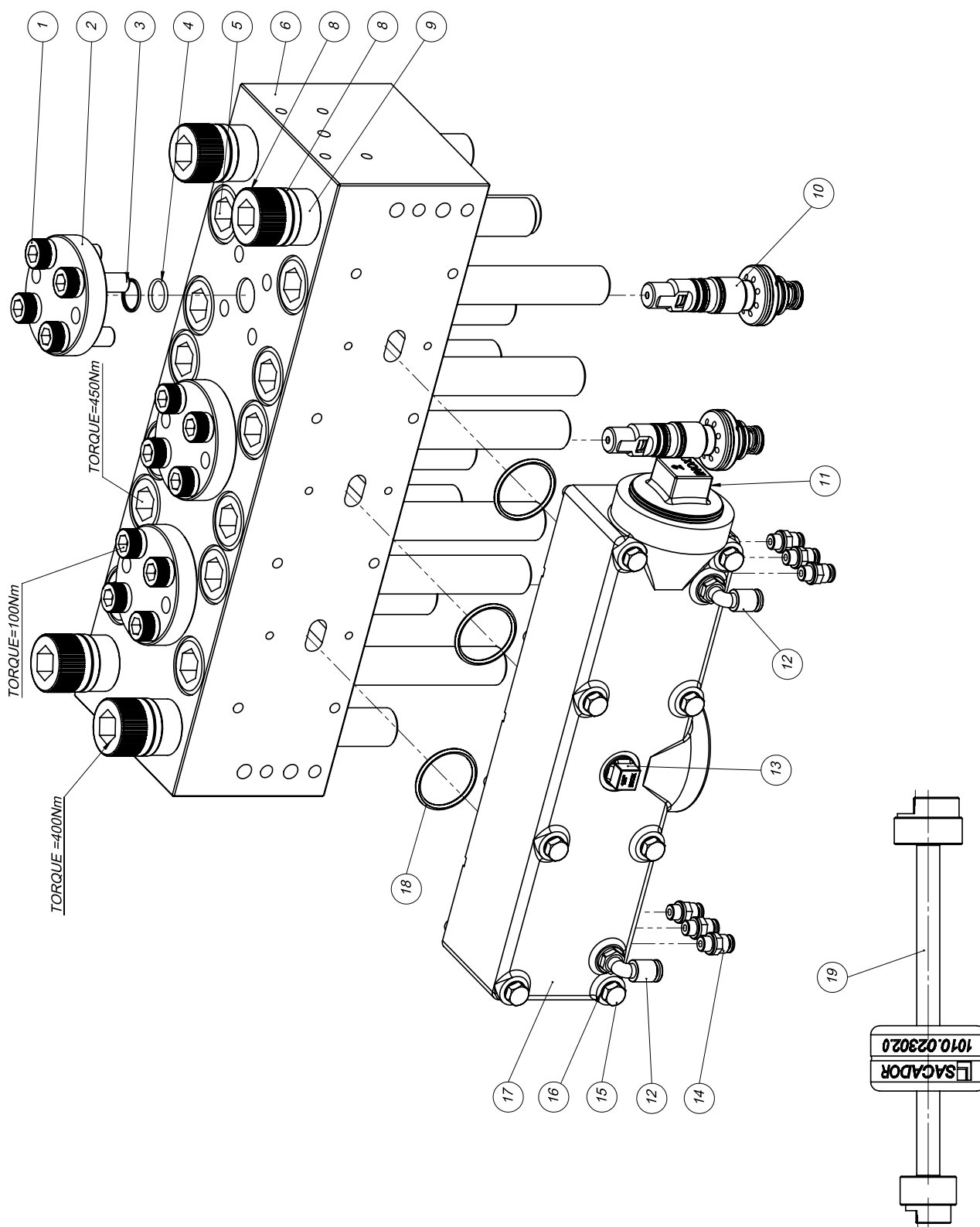
- ▶ All connecting rods are numbered.
- ▶ Always assemble arm and bearing of the connecting rod so that the unsequenced number is shown.
- ▶ Never replace arms and bearing by a connecting rod from a different set.

OIL SEAL CAGE - CODE Q231010010971



*	ITEM	CODE	DESCRIPTION	QTY.
	1	Q231200001070	WASHER	2
* Note: Common wear parts or disposable				
	3	Q231110044260	OIL SEAL CAGE	1
	4	Q231300011340	OIL SEAL	1
	5	Q231300011210	SLIDING RING	1
	6	Q231300001910	O-RING	2
	7	Q231200001540	SEEGER RING	1
	8	Q231200007960	SCREW M8X20mm	2
	9	Q231300001170	O-RING	1

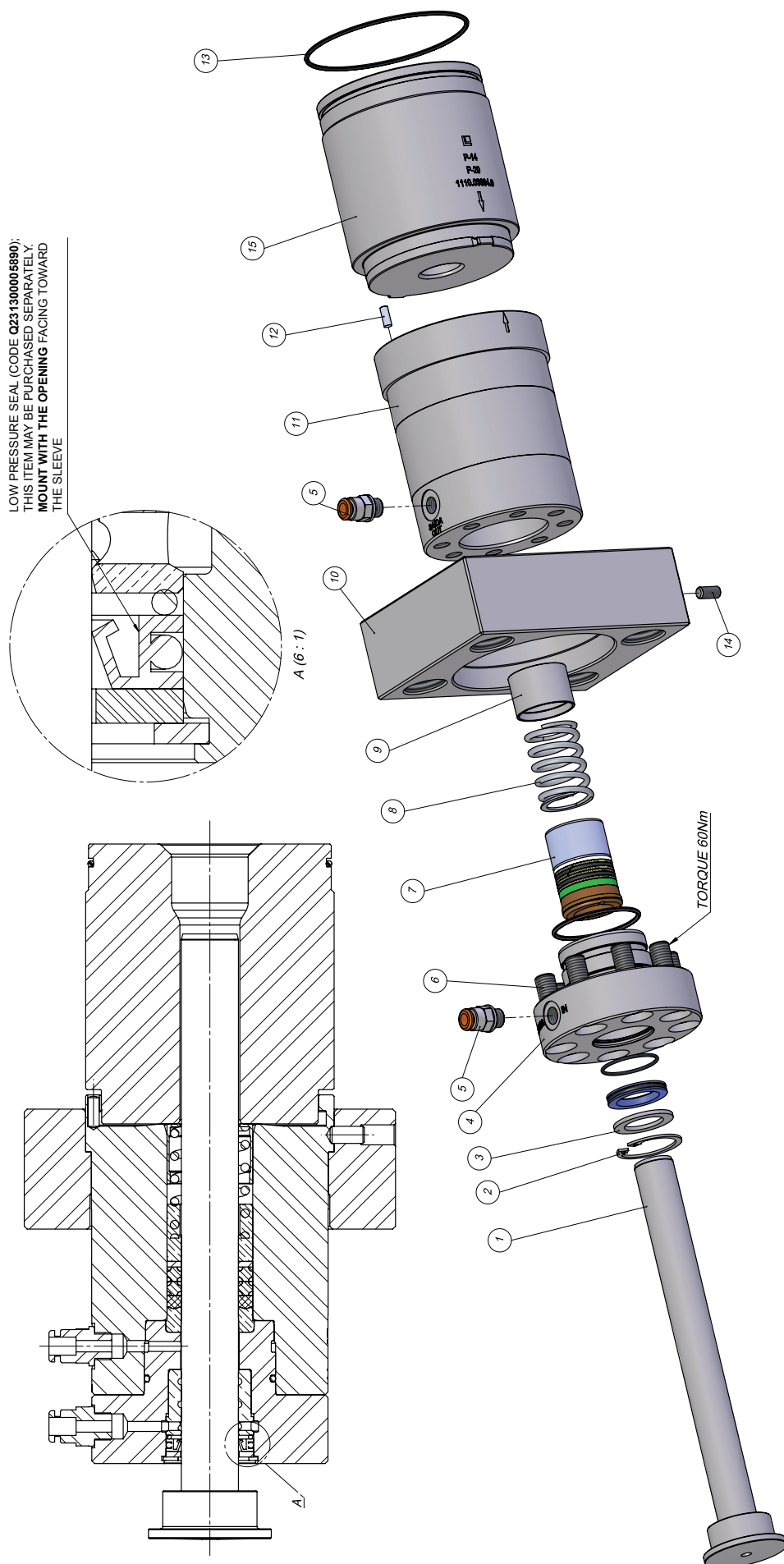
PUMP HEAD - CODE Q231010017210



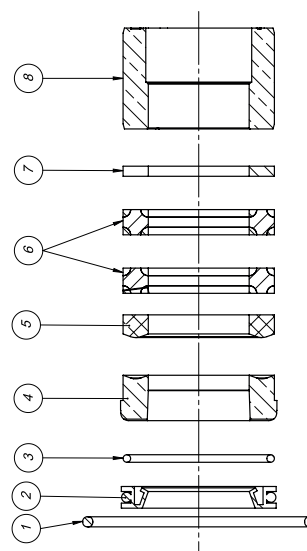
PUMP HEAD - CODE Q231010017210			
ITEM	CODE	DESCRIPTION	QTY.
1	Q231200002930	ALLEN SCREW M12x35mm	12
2	Q231110036680	FRONTAL FLANGE UAP IV	3
3	Q231300010630	BACK RING	3
4	Q231300008790	O-RING	3
5	Q231200009410	ALLEN SCREW M24x200mm	12
6	Q231110034230	MANIFOLD UAP IV	1
8	Q231200009980	ALLEN SCREW M24x180mm	4
8	Q231200003630	SPRING WASHER M24	4
9	Q231110036920	SPACING BUSHING G-IV	4
10	Q231010017100	INTELLIVALVE UAP IV	3
11	Q232320018770	INOX CAP 2" BSP	1
12	Q232320003770	COUPLING 1/4"x8mm	2
13	Q232320009440	INOX CAP 1/2" BSP	1
14	Q232320003030	COUPLING 1/8"x6mm	6
15	Q231200007260	HEXAGONAL HEAD SCREW M8x90mm	8
16	Q231200001070	SPRING WASHER M8	8
17	Q231110016770	SUCTION DUCT	1
18	Q231300001930	O-RING	3
19	Q231010023020	DISASSEMBLING TOOL	1

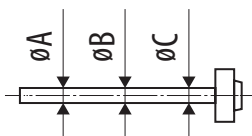
PLUNGER KIT (P-20) - CODE Q231010017200

LOW PRESSURE SEAL (CODE Q231300005890):
THIS ITEM MAY BE PURCHASED SEPARATELY.
MOUNT WITH THE OPENING FACING TOWARD
THE SLEEVE



SEALING KIT (P-20) CODE Q231020002204





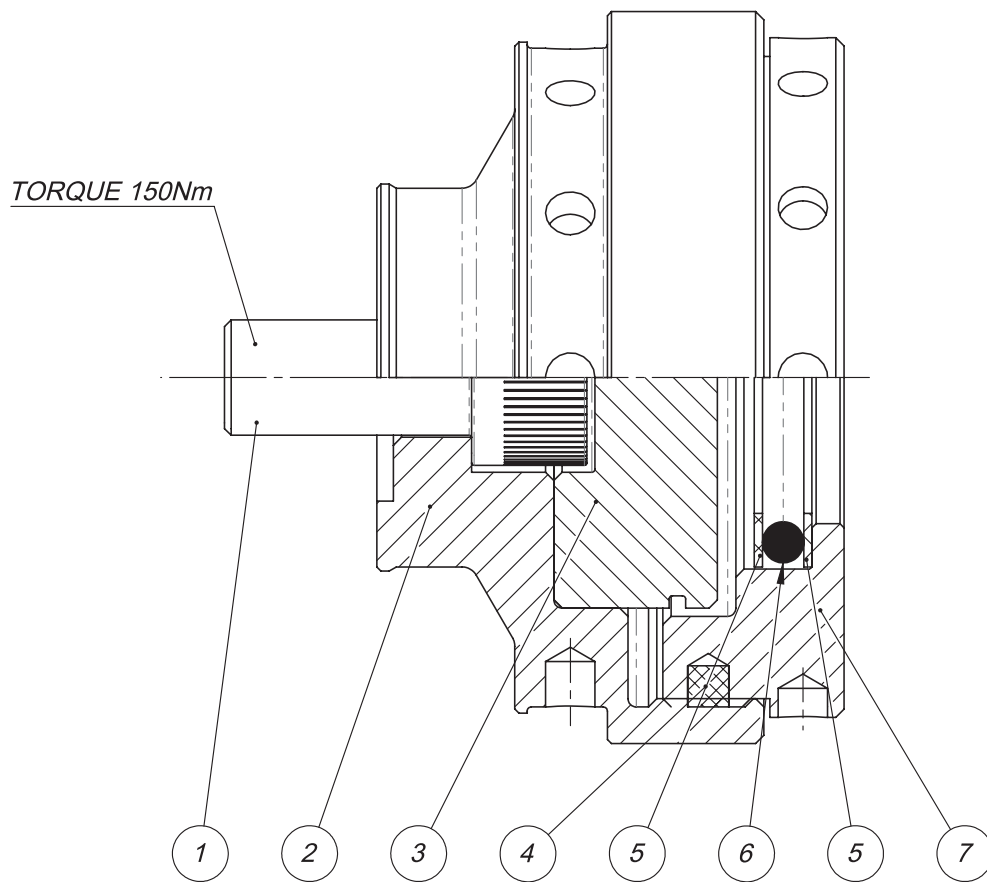
Ø Nominal	Appropriate	Critical	Change
20 mm	-0,01	-0,07	-0,1
	-0,06	-0,09	

ANALYSE PLUNGER DIMENSIONS WHEN CHANGING THE SEALS OR EVERY 200 HOURS RESPECT THE WEAR LIMIT.

PLUNGER KIT (P-20) - CODE Q231010017200			
ITEM	CODE	DESCRIPTION	QTY.
1	Q231010017221	PLUNGER D.20 UAP IV	3
2	Q231200010580	ELASTIC RING	4
3	Q231110037690	BACK RING P-20	3
4	Q231010022120	SUP. FLANGE W/ SLIDE SLEEVE P-20	3
5	Q232320003030	COUPLING 1/8"x6mm	6
6	Q231200001400	ALLEN SCREW M10x25mm	24
7	Q231020002204	SEALING KIT P-20 UAP IV	1 (*)
8	Q231500002060	SPRING P-20 UAP IV	3
9	Q231110034300	SEALING SPRING GUIDE P-20	3
10	Q231110041100	FLANGE G-IV	1
11	Q231110034290	SLEEVE P-20 UAP IV	3
12	Q231200007530	GUIDE PIN Ø4x10mm	3
13	Q231300002420	O-RING	3
14	Q231200002640	ALLEN SCREW WITHOUT HEAD M6x12mm	3
15	Q231110036840	P-14 TO P-20 UAP IV FRONTAL SLEEVE	3

(*) SEALING KIT (P-20) - CODE Q231020002204			
ITEM	CODE	DESCRIPTION	QTY.
1	Q231300001370	O-RING	3
2	Q231300005890	LOW PRESSURE SEAL P-20	3
3	Q231300006660	O-RING	3
4	Q231300010881	LOWER SUPPORT RING P-20	3
5	Q231300010840	V SEALING P-20	3
6	Q231300008360	BRAIDED PACKING P-20	6
7	Q231300008370	RING P-20	3
8	Q231300009190	UPPER SUPPORT RING P-20	3

SELF CENTERING G-IV (FROM P-12 TO P-20) - CODE Q231010016940



ITEM	CODE	DESCRIPTION	QTY.
1	Q231200002970	ALLEN SCREW M14x30mm	1
2	Q231110036110	CONNECTION BUSHING (G-IV)	1
3	Q231110040020	SELF CENTERING SUPPORT (G-IV)	1
4	Q231110010280	NYLON CYLINDER	1
5	Q231110007240	BACK UP RING (G-IV)	2
6	Q231300003610	O-RING	1
7	Q231110038030	SELF CENTERING UPPER SUPPORT (G-IV)	1



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