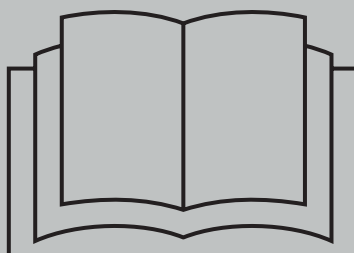


REPAIR MANUAL

H-200/4 SAP



INDEX

HEAD ASSEMBLY	5
SHELL ASSEMBLY	9
TRASMISSION PARTS	14
CONNECTING RODS	18
SELF CENTERING (P-20/P-30)	19
SELF CENTERING (P-32/P-45)	20
SEAL CAGE	21
HEAD SAP (P-20/P-30)	22
HEAD SAP (P-32/P-45)	24
PISTON KIT (P-20)	26
PISTON KIT (P-22)	28
PISTON KIT (P-24)	30
PISTON KIT (P-26)	32
PISTON KIT (P-28)	34
PISTON KIT (P-30)	36
PISTON KIT (P-32)	38
PISTON KIT (P-35)	40
PISTON KIT (P-40)	42
PISTON KIT (P-45)	44

HEAD ASSEMBLY



Head assembly H200/4 SAP.

Fig. 01



Mounting kit repair

Fig. 02



Put O-Ring in Basket Cap.

Fig. 03



Put Bak ring, making sure that it is to the outside as well as the chamfer Bak Ring (indicated with the pen).

Fig. 04



First side.

Fig. 05



Perform the same process on the other hand, stressing attention on the chamfer bak ring.

Fig. 06



Mounted.

Fig. 07



Fit the pressure spring (Pos. 15) in the Pressure Valve.

Fig. 08



Set mounted.

Fig. 09



Place the set in Basket Cap.

Fig. 10



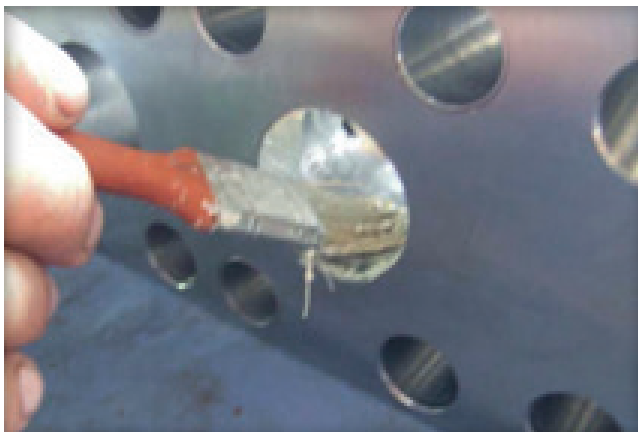
Attach the spring in Basket Cap, with the help of a key to attach it securely.

Fig. 11



Set mounted.

Fig. 12



Skip desingripante grease on the head with a brush.

Fig. 13



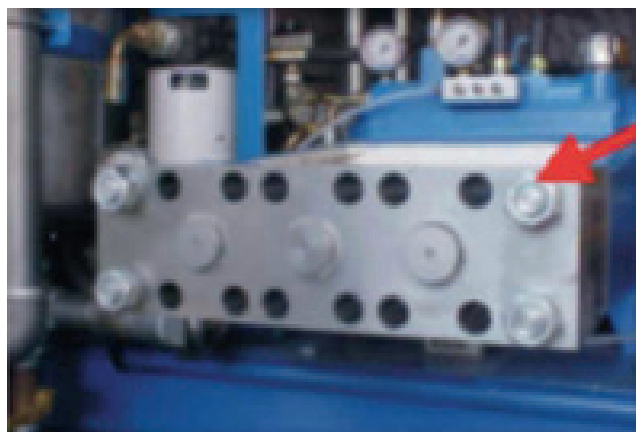
Pass desingripante grease also in Basket cap and place it on the head.

Fig. 14



Place the Basket cap on the head with the help of Nylon beater.

Fig. 15



Fix using the nuts with a torque of 320 Nm.

Fig. 16



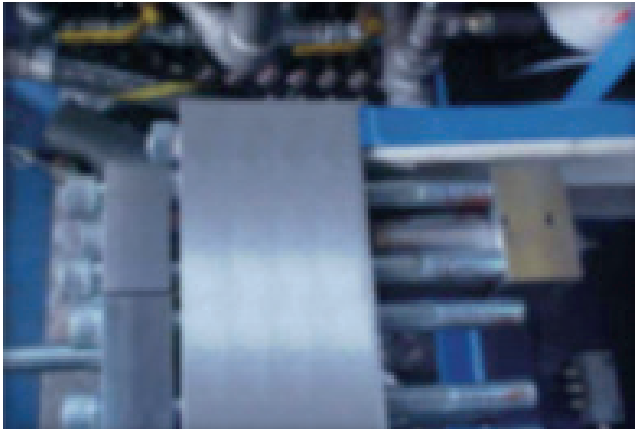
Position the flanges.

Fig. 17



Fit the flange to the head.

Fig. 18



Auto Centering mount and Piston Kit.

Fig. 19



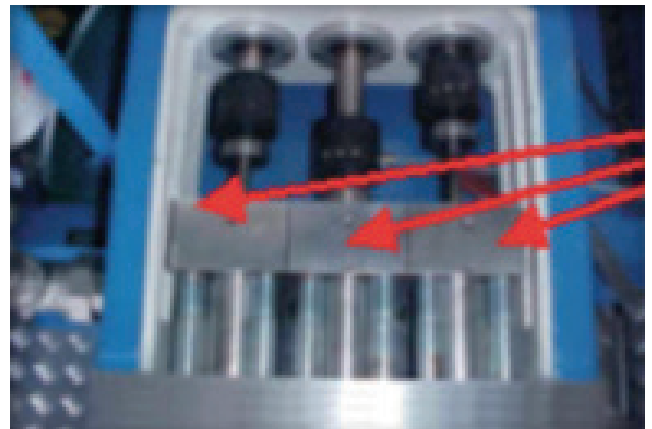
With the Assistance of an allen key, pull the screws, pressing the "X".

Fig. 20



a) With the aid of a torque wrench, tighten the screws "X", with torque of 320 Nm.
b) With the Assistance of an allen Wrench, pull the grub screws in "X".

Fig. 21



Chek alignment

M24x375 screws have capacity of 20 torques, after this amount may lose their mechanical characteristics.

Fig. 22

SHELL ASSEMBLY

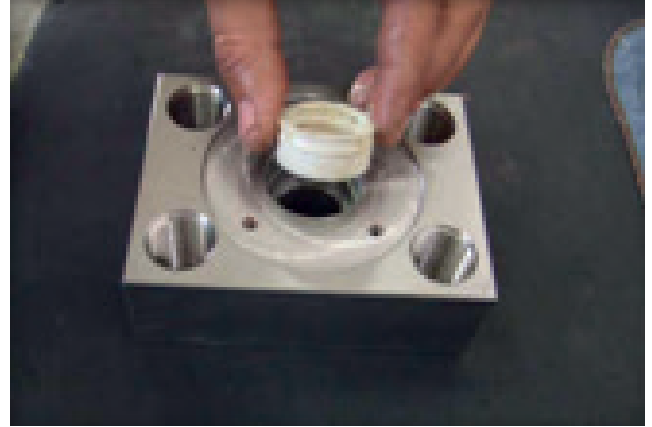
For fitting shirt SAP separate the following items:

1. Piston - 2. Allen screws (12 pcs) - 3. Disk Support - 4. Vedaseal - 5. Straight Connection
6. Flange - 7. Seal Metallic - 8. O-ring - 9. Sliding Sleeve - 10. O-ring - 11. Shirt - 12. Support ring infer.
13. Scraper ring - 14. Lamela Kevlar - 15. Lamela Rami - 16. Super support ring - 17. Spring
18. Support sleeve - 19. Seal top Metallic



1° - Piston SAP dismantled.

Fig. 23



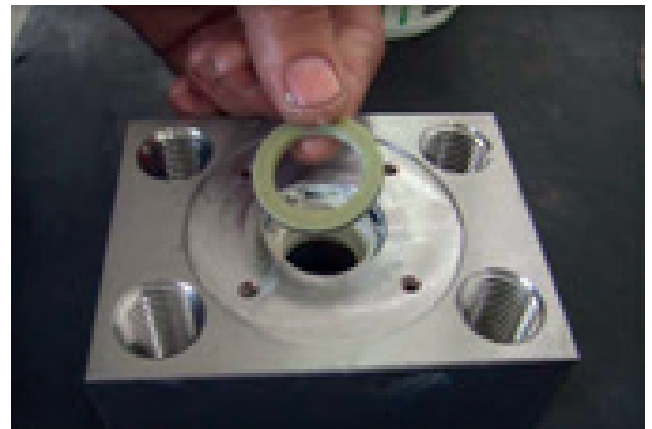
2° - Insert the Sliding Sleeve in Flange.

Fig. 24



3° - Overlap with the O-ring.

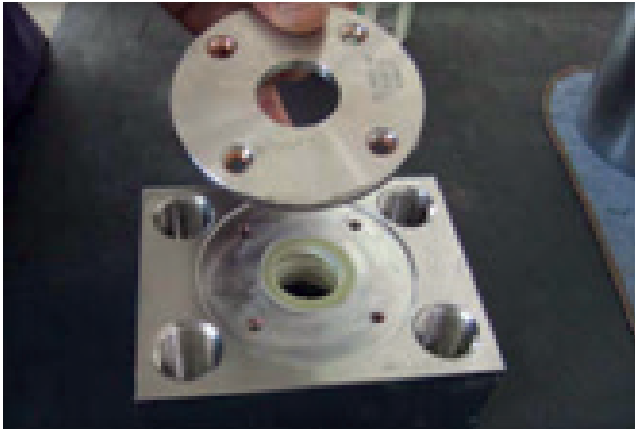
Fig. 25



4° - Enter the Vedaseal with the opening facing shirt use grease "Rocol" type for better sealing.

Fig. 26

(continues on the next page)



5° - Cover the pool using the Disk Support.

Fig. 27



6° - Screw Disk Support "X".

Fig. 28



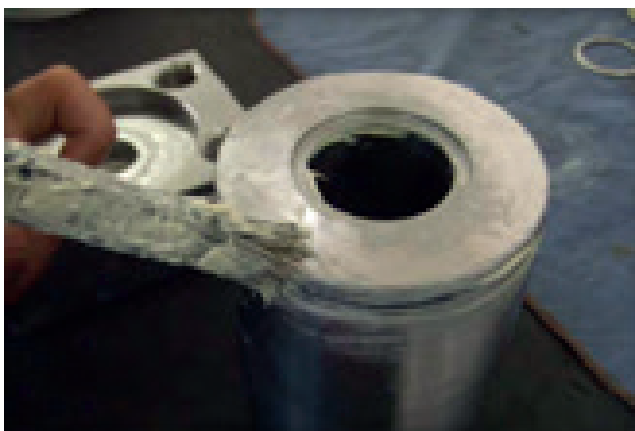
7° - Enter the O-Ring on tear shirt.

Fig. 29



8° - When installing the shirt with the flange, the O-ring will be placed in recess.

Fig. 30



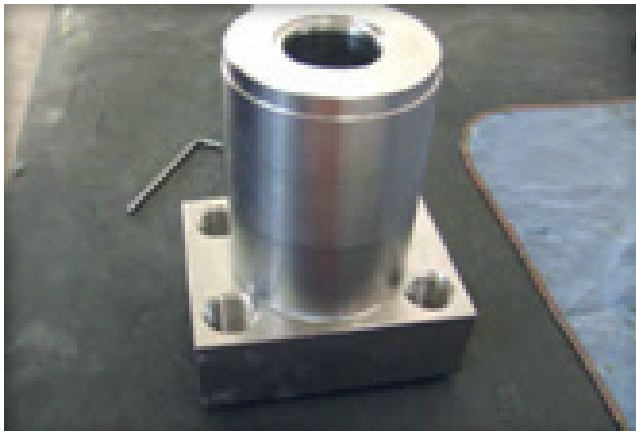
9° - Use grease type "Rocol" for better sealing.

Fig. 31



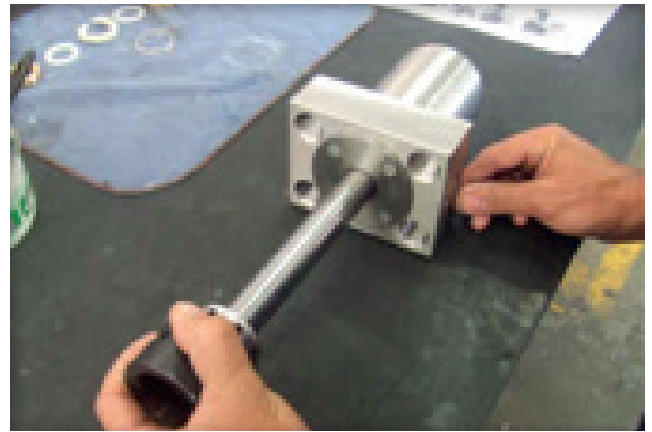
10° - Mount the shirt on SAP Flange.

Fig. 32



11°

Fig. 33



12° - Insert the piston in the set.

Fig. 34



13° - Turn the complete unit and enter the Lower support ring with the bevel facing down.

Fig. 35



14° - Use a Nylon beater to pull the components.

Fig. 36



15° - Insert the first scraper ring.

Fig. 37



16° - Use a Nylon beater to pull the components.

Fig. 38



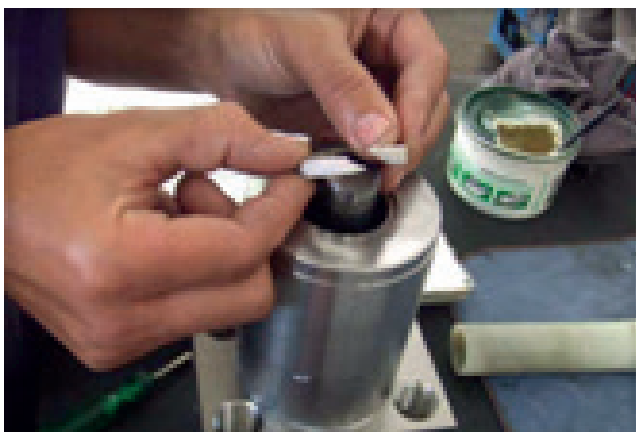
17° - Enter Lamela Klever.

Fig. 39



18° - Use a Nylon beater to pull the components.

Fig. 40



19° - Enter Rami slide, taking care to leave 180° away from the rip and tear this the anterior lamella.

Fig. 41



20° - Use a Nylon beater to pull the components.

Fig. 42



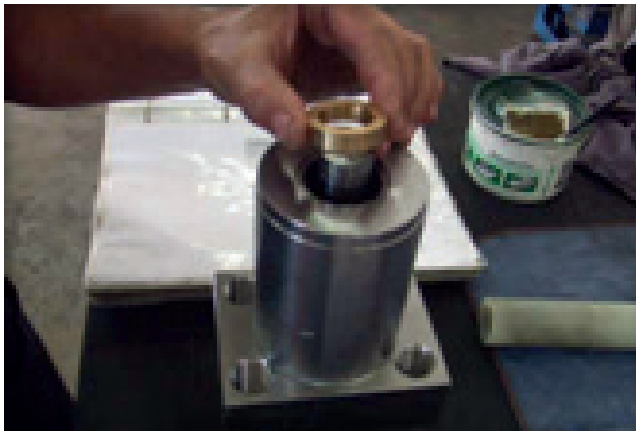
21° - Insert the other scraper ring.

Fig. 43



22° - Use a Nylon beater to pull the components.

Fig. 44



23° - Place the upper support ring (no bevel).

Fig. 45



24° - Use a Nylon beater to pull the components.

Fig. 46



25° - Insert the spring.

Fig. 47



26° - Insert the bushing Support.

Fig. 48



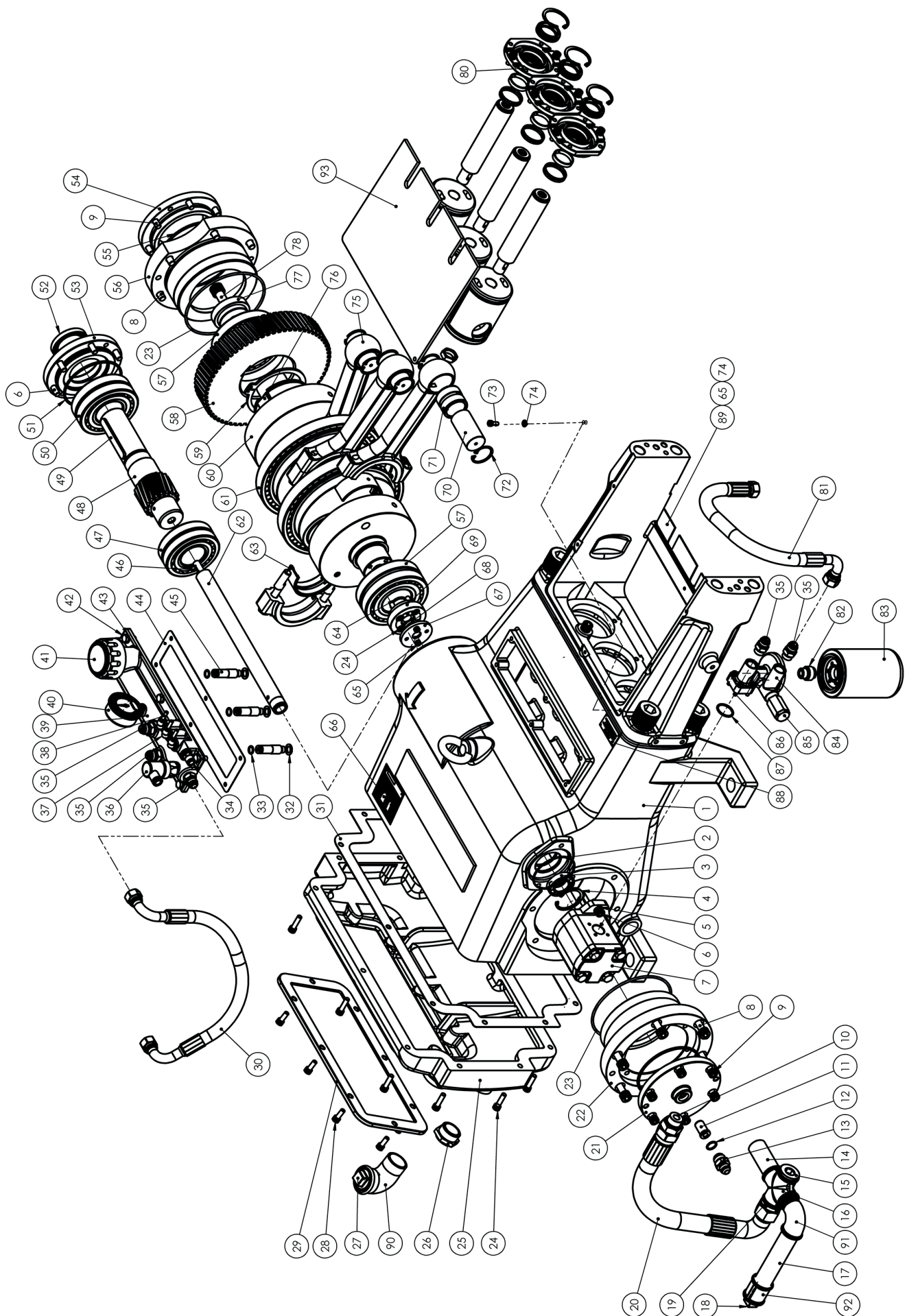
27° - Insert the upper metal seal.

Fig. 49



28° - Mounted piston.

Fig. 50

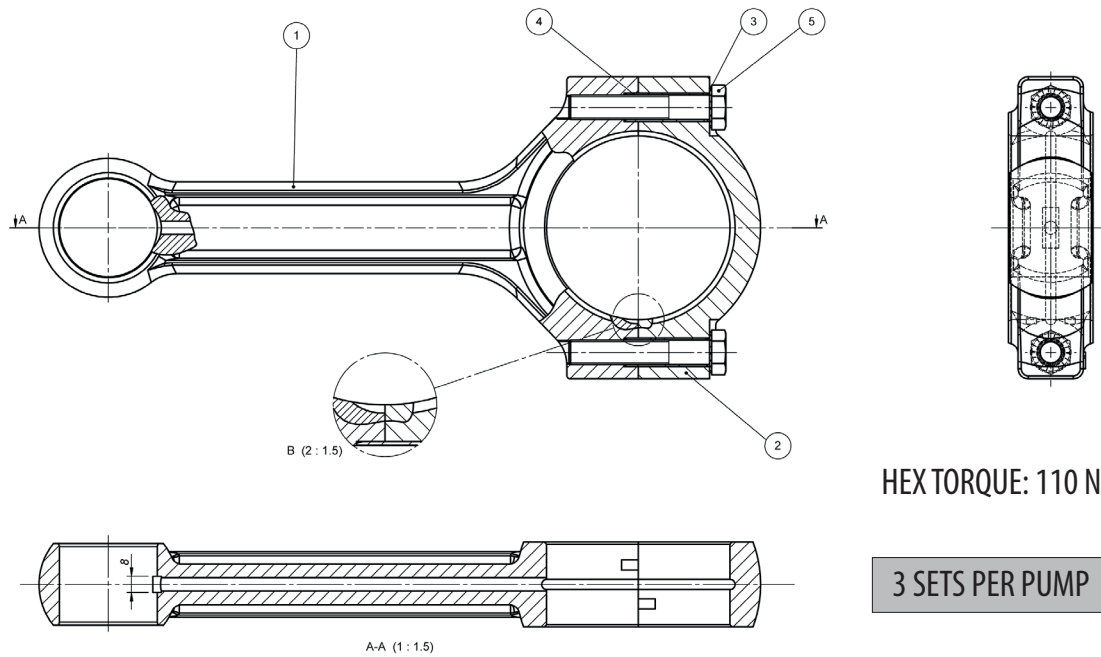


TRANSMISSION PARTS LIST H 200-4 - CODE 1010.01025.1			
ITEM	CODE	DESCRIPTION	QTY.
1	1010.01201.0	HULL L200-4	1
2	1300.00582.0	O-RING	1
3	1700.00195.0	RIGID BALL BEARING	1
4	1200.00826.0	ELASTIC RING	1
5	1200.00103.0	PRESSURE WASHER M10	2
6	1200.00140.0	ALLEN BOLT M10X25mm	8
7	3000.01773.0	LUBRICATION PUMP	1
8	1200.00184.0	ALLEN SCREW M12x30mm	12
9	1200.00229.0	ALLEN SCREW M10x20mm	12
10	2320.00992.0	NETWORK NIPPLE 1.5/16" UNF JIC X 1/16" VNF PL	1
11	1110.02304.0	GLYD ROTOR SHAFT	1
12	1300.00848.0	O-RING	1
13	2320.00778.0	M22 X 1.5 PL X 3/4" UNF JIC REDUCING NIPPLE	1
14	2370.00501.0	SCH 40 150mm PIPE	1
15	2320.01677.0	BMA 1" BSP MAGNETIC PLUG	1
16	2320.00237.0	1" BSP YOKE	1
17	2370.00501.0	SCH 40 150mm PIPE	1
18	2320.00214.0	1" BSP PLUG	1
19	2320.00667.0	1" BSP X 1.5/16" UNF NIPPLE	1
20	1010.00792.0	PUMP-OIL PUMP CONNECTION HOSE	1
21	1110.02263.0	CRANKSHAFT COVER	1
22	1110.00722.0	BEARING BOX RG L200/4	1
23	1300.00382.0	O-RING	2
24	1200.00268.0	ALLEN SCREW M8X30mm	14
25	1110.02616.0	COVER L200-4	1
26	3000.00208.0	OIL LEVEL SIGHT GLASS	1
27	2320.01611.0	1.1/4" BSP PLUG	1
28	1200.00550.0	ALLEN SCREW M8X20mm	8
29	1110.00717.0	INSPECTION HOLE COVER	1
30	1010.00731.0	DUCT-CRANKSHAFT CONNECTION HOSE	1
31	1300.00819.0	JUNTA COVER L200-4	1
32	1300.00176.0	COPPER RING	3
33	1300.00213.0	O-RING	3
34	2320.00563.0	STRAIGHT CONNECTION 1/4"x10mm	1
35	2320.00283.0	NIPPLE 3/4" UNF PI x 3/4" UNF JIC	5
36	1010.01074.0	PRESSURE SWITCH	1
37	2320.00309.0	ADJUSTABLE L CONNECTION 1/4"x6mm	3
38	2370.00605.0	HOSE PU Ø6mm	1
39	1110.03092.0	LUBRICATION DUCT	1
40	3000.00321.0	PRESSURE GAUGE	1
41	3000.00119.0	BREATHER 1" BSP	1
42	1200.00828.0	HEX SCREW M8x20mm	6

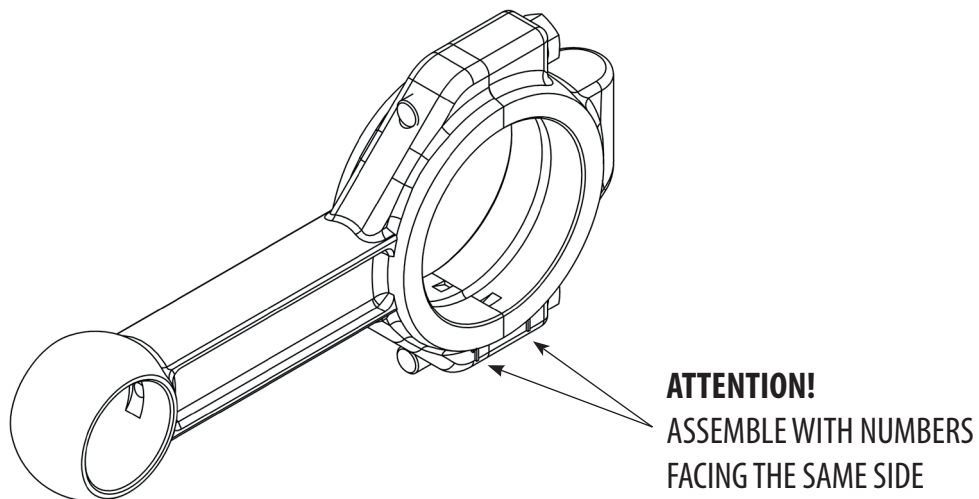
TRANSMISSION PARTS LIST H 200-4 - CODE 1010.01025.1			
ITEM	CODE	DESCRIPTION	QTY.
43	1200.00402.0	FLAT WASHER M8	6
44	1300.00224.0	OIL DUCT GASKET	1
45	1110.02620.0	DUCT CONNECTING PIPE	3
46	1200.00300.0	WOODRUFF KEY	1
47	1700.00138.0	BEARING	1
48	1110.02433.0	PINION L200-4	1
49	1200.00853.0	COAT HANGER	1
50	1700.00131.0	ROTO GLYD BACKBOARD BEARING	1
51	1300.00820.0	O-RING	1
52	1300.00336.0	BEARING	1
53	1110.02630.0	TRANSMISSION AXIS	1
54	1110.00697.0	CRANKSHAFT COVER	1
55	1300.00381.0	O-RING	2
56	1110.00917.0	BEARING BOX L200/4	1
57	1700.00115.0	ROTO GLYD BACKBOARD BEARING	2
58	1110.02214.0	CRANKSHAFT GEAR L200-4	1
59	1200.00181.0	ELASTIC RING E-110	1
60	1010.00772.0	CRANKSHAFT L200-4	1
61	1700.00128.0	BEARING	2
62	1110.02621.0	EXPANDER	1
63	1700.00125.0	BEARING SHELL	3
64	1300.00254.0	O-RING	1
65	1200.00161.0	ALLEN SCREW M6X12mm	5
66	3000.00120.0	NAMEPLATE	1
67	1110.01104.0	ROTO GLYD COVER	1
68	1300.00502.0	ROTO GLYD	1
69	1110.02270.0	BEARING SUPPORT L200-4	1
70	1100.00196.0	ROD PIN	3
71	1700.00135.0	ROD BUSHING	3
72	1200.00278.0	ELASTIC RING 1-39	6
73	1200.00265.0	ALLEN SCREW M6X15mm	1
74	1200.00191.0	FLAT WASHER M6	4
75	1010.01098.0	ROD L200-4	3
76	1200.00178.0	LINCHPIN	1
77	1110.00368.0	BEARING RING	1
78	1200.00186.0	ALLEN SCREW M16X40mm	1
79	1010.00885.0	GUIDE PISTON	3
80	1010.01097.0	SEAL CAGE	3
81	1010.01489.0	MANIFOLD-DUCT CONNECTION HOSE	1
82	2320.01708.0	3/4" BSP X 3/4" UNF REDUCING NIPPLE	1
83	3000.02147.0	OIL FILTER	1

TRANSMISSION PARTS LIST H 200-4 - CODE 1010.01025.1			
ITEM	CODE	DESCRIPTION	QTY.
84	1110.03036.0	LUBRICATION MANIFOLD	1
85	3000.01020.0	RELIEF VALVE	1
86	1200.00222.0	ALLEN SCREW M6X25mm	4
87	1300.00256.0	O-RING	1
88	3000.01794.0	TORQUE NAMEPLATE	1
89	1110.03223.0	PISTON COVER	1
90	2320.01610.0	1.1/4" BSP ELBOW	1
91	2320.00229.0	MF 1" BSP ELBOW	1
92	2320.00924.0	1" BSP SLEEVE	1
93	1110.00840.0	PISTION COVER	1

CONNECTING RODS - CODE 1010.01098.0

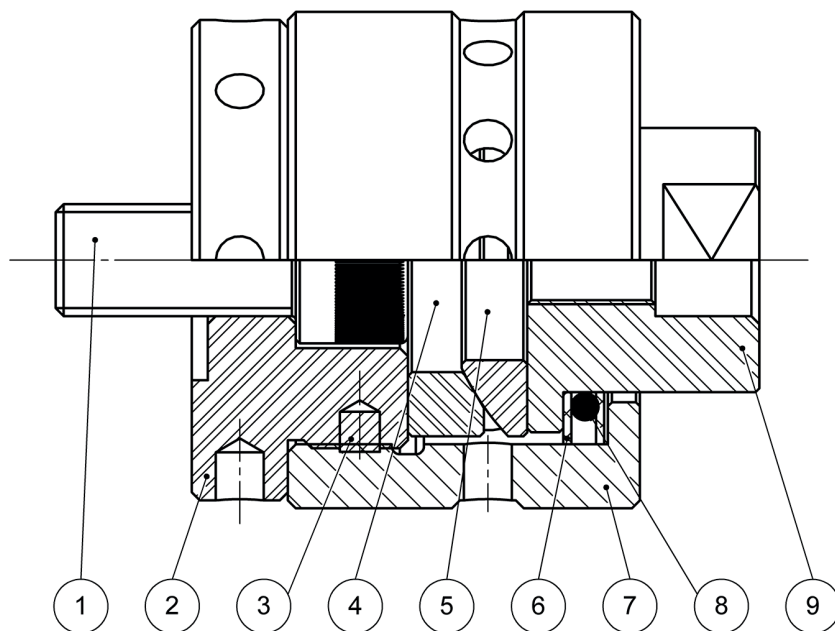


ITEM	CODE	DESCRIPTION	QTY.
1	1110.02212.0	ARM OF CONNECTING ROD + ROD CAP	1
2			
3	1200.00190.0	TOOTHED WASHER M12	2
4	1200.00881.0	ELASTIC GUIDE BUSHING	2
5	1200.00187.0	HEX BOLT M12X70	2



⚠ 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.



ITEM	CODE	DESCRIPTION	QTY.
1	1200.00297.0	ALLEN SCREW M14x30 DIN 919	1
2	1110.00719.0	SELF CENTERING P-14 / P-30	1
3	2380.01467.0	SPIGOT	1
4	1110.00631.0	SPHERICAL RING	1
5	1110.00630.0	SPHERICAL RING	1
6	1110.00724.0	BACK UP RING	2
7	1110.00721.0	SELF CENTERING SCREW	1
8	1300.00361.0	O-RING	1
9	1110.00820.0	CONECT BUSHING	1

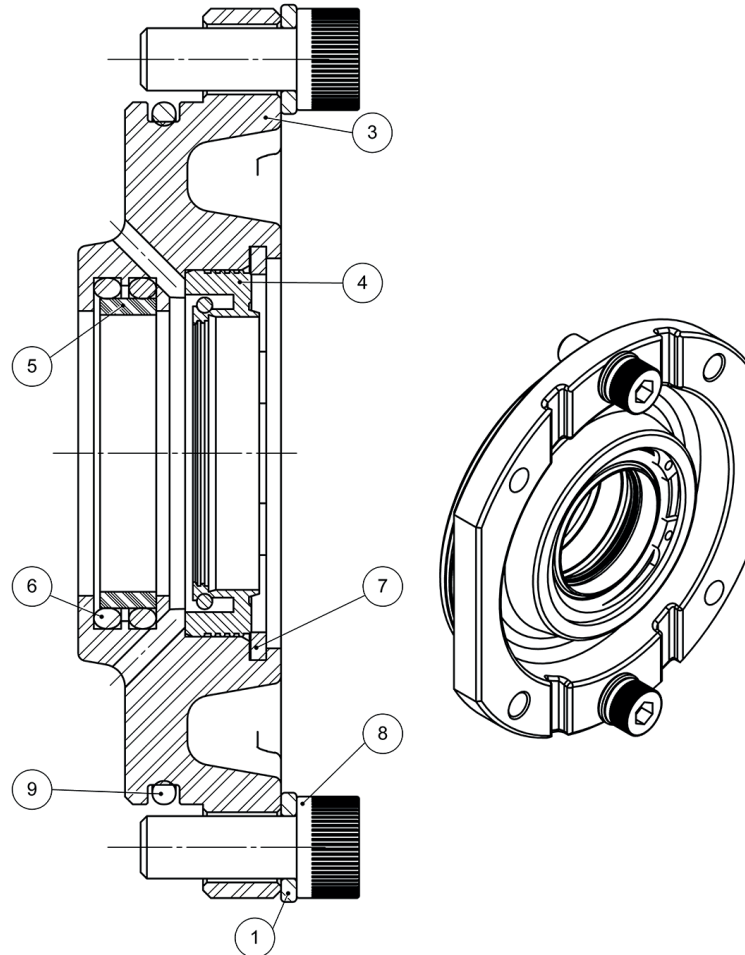
This diagram illustrates the exploded view of a mechanical assembly, showing 11 numbered components arranged in a linear sequence from left to right. The components are:

- 1**: A large circular flange with four mounting holes.
- 8**: A small cylindrical pin or spacer.
- 11**: A long cylindrical shaft with a threaded end and a black O-ring seal.
- 9**: A circular flange with a central hole.
- 10**: A circular flange with a central hole.
- 6**: A circular flange with a central hole.
- 7**: A circular flange with a central hole.
- 6**: A circular flange with a central hole.
- 4**: A large circular flange with four mounting holes, similar to component 1.

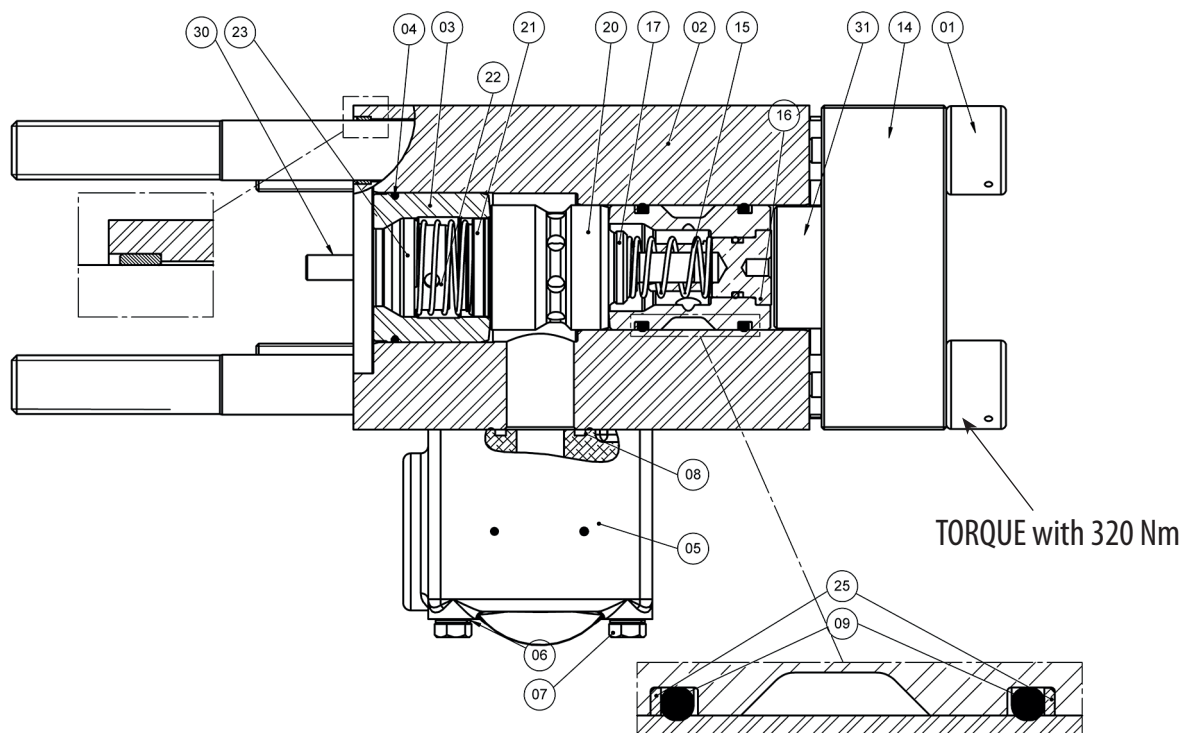
The diagram uses dashed lines to indicate the alignment and assembly path of the components.

20

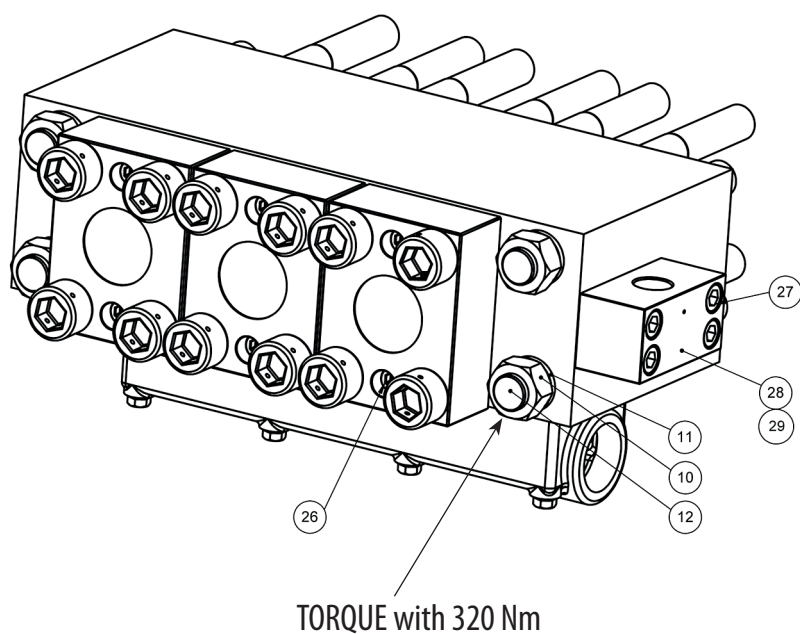
SEAL CAGE - CODE 1010.01097.0



*	ITEM	CODE	DESCRIPTION	QTY.
	1	1200.00107.0	PRESSURE WASHER	2
* Note: Common wear parts or disposable				
	3	1110.02618.0	SEAL CAGE	1
	4	1300.00750.0	SEAL	1
	5	1300.00751.0	SLIDING RING	1
	6	1300.00191.0	O-RING	2
	7	1200.00154.0	ELASTIC RING	1
	8	1200.00550.0	ALLEN SCREW M8X20mm	2
	9	1300.00117.0	O-RING	1



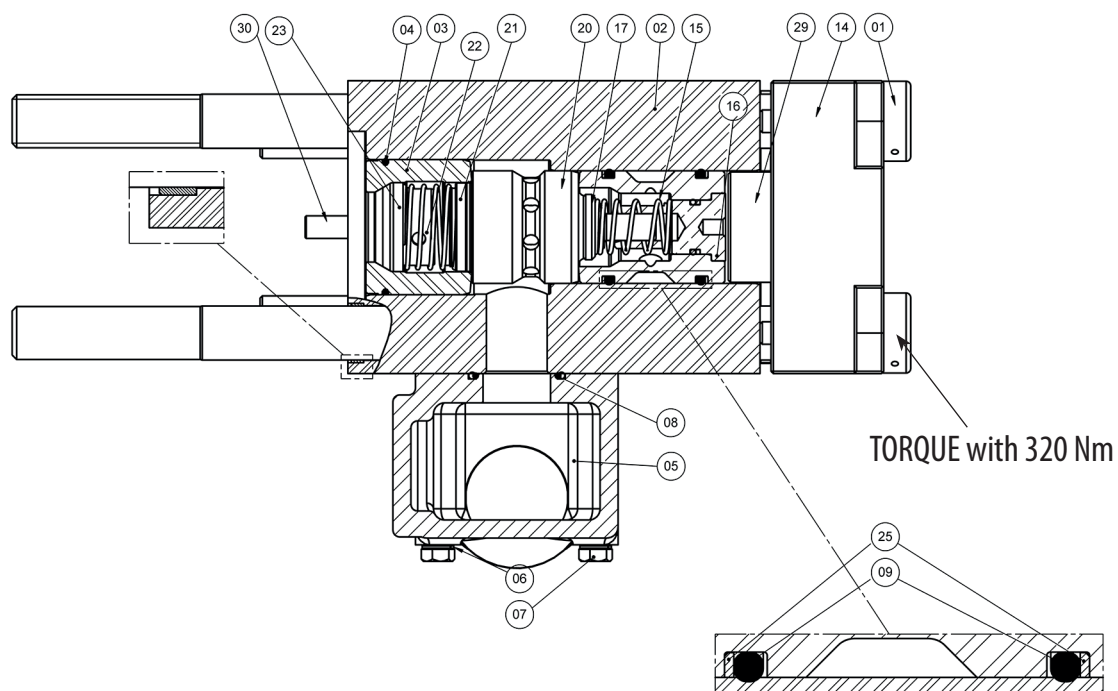
ASSEMBLE THE BACK RING (POS.25).
PUT THE CHAMFER ACCORDING TO DETAILS ABOVE.



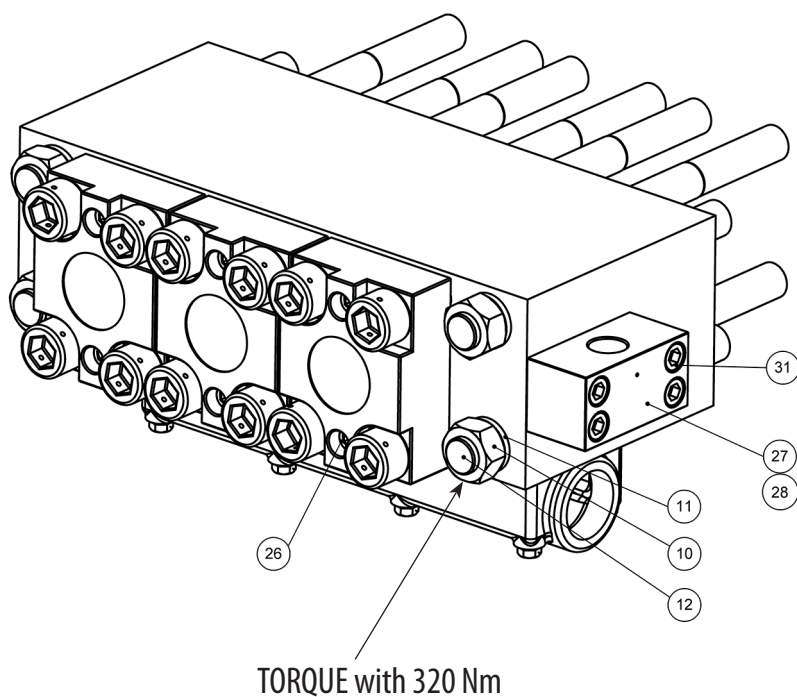
HEAD SAP (P-20/P-30) PARTS LIST H 200-4 - CODE 1010.00316.0				
NOTE	ITEM	CODE	DESCRIPTION	QTY.
*	1	1200.00360.0	ALLEN SCREW	12
	2	1010.00759.0	HEAD	1
	3	1110.00872.0	SAP INTERMEDIATE	3
*	4	REPAIR KIT	O-RING	3
*	5	1110.01677.0	SUCTION DUTE	1
	6	1200.00107.0	PRESSURE WASHER	8
*	7	1200.00701.0	ALLEN SCREW	8
*	8	1300.00193.0	O-RING	3
*	9	REPAIR KIT	O-RING	6
	10	1200.00149.0	NUT	4
	11	1200.00363.0	PRESSURE WASHER	4
	12	1200.00359.0	THREADED STUD	4
	14	1110.01111.0	FLANGE	3
*	15	1500.00104.0	PRESSURE SPRING	3
*	16	1010.00104.0	SIX COVER	3
*	17	1100.00107.0	PRESSURE VALVE	3
*	20	1100.00108.0	DOUBLE SEAT	3
*	21	1100.00109.0	SUCTION VALVE	3
*	22	1500.00105.0	SUCTION SPRING	3
*	23	1110.01022.0	GUIDE SPRING	3
	25	REPAIR KIT	BACK RING	6
	26	1200.00163.0	ALLEN SCREW	6
	27	1200.00171.0	ALLEN SCREW	4
	28	1110.00948.0	RUPTURE DISC BLOCK	1
	29	1300.00106.0	O-RING	1
	30	1200.00369.0	GUIDE PIN	2
	31	1110.01339.0	DISTANCE PIN	3

Note: * Common wear parts.

Note: ** 10 torque lifecycle (320 Nm) or 300 work hours (ITEM 27).



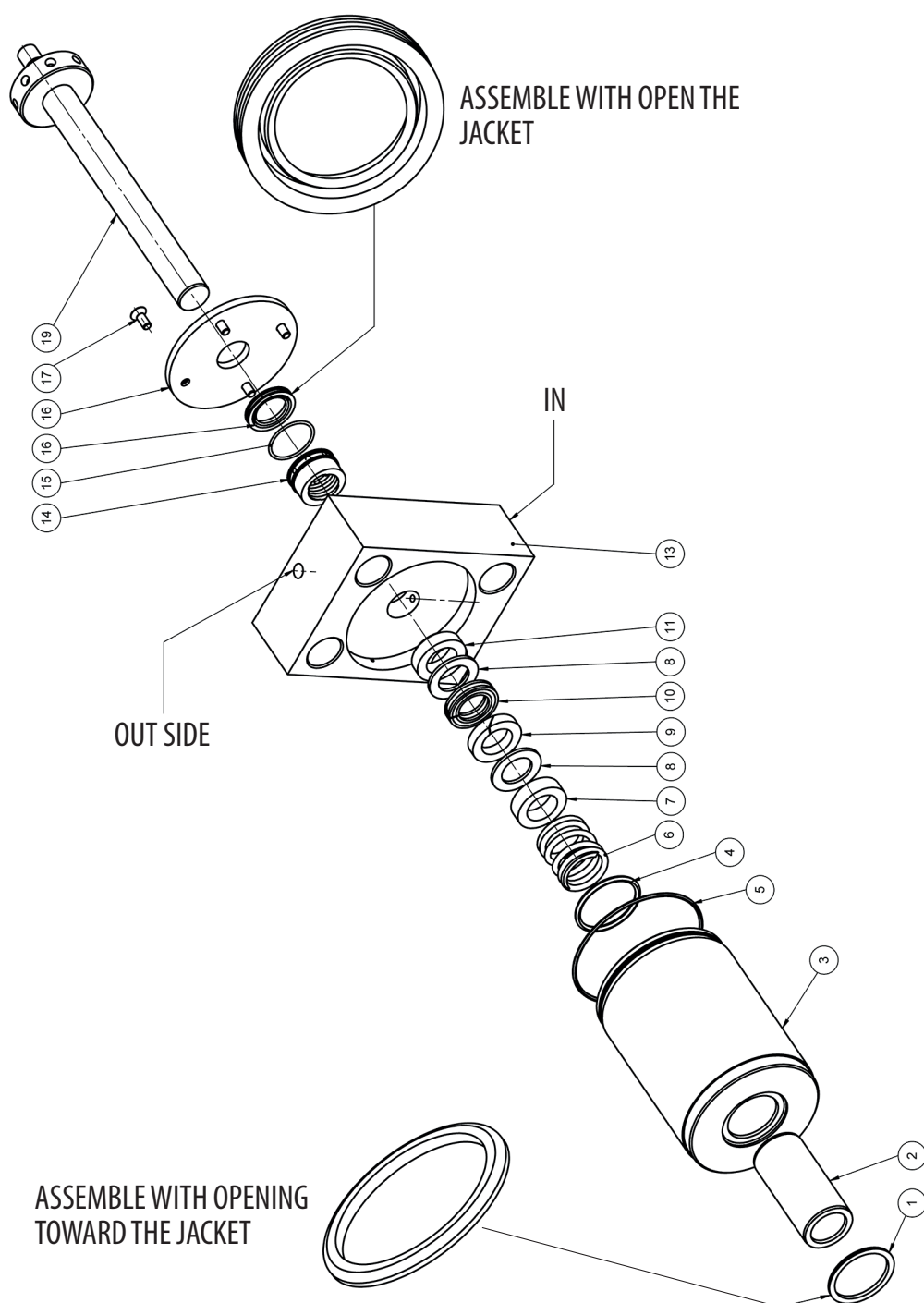
ASSEMBLE THE BACK RING (POS.25).
PUT THE CHAMFER ACCORDING TO DETAILS ABOVE.



HEAD SAP (P-32/P-45) PARTS LIST H 200-4 - CODE 1010.00420.0				
NOTE	ITEM	CODE	DESCRIPTION	QTY.
*	1	1200.00360.0	ALLEN SCREW	12
	2	1010.00759.0	HEAD	1
	3	1110.00872.0	SAP INTERMEDIATE	3
*	4	REPAIR KIT	O-RING	3
*	5	1110.01677.0	SUCTION DUTE	1
	6	1200.00107.0	PRESSURE WASHER	8
*	7	1200.00701.0	ALLEN SCREW	8
*	8	1300.00193.0	O-RING	3
*	9	REPAIR KIT	O-RING	6
	10	1200.00149.0	NUT	4
	11	1200.00363.0	PRESSURE WASHER	4
	12	1200.00359.0	THREADED STUD	4
	14	1110.01338.0	FLANGE	3
*	15	1500.00104.0	PRESSURE SPRING	3
*	16	1010.00104.0	SIX COVER	3
*	17	1100.00107.0	PRESSURE VALVE	3
*	20	1100.00108.0	DOUBLE SEAT	3
*	21	1100.00109.0	SUCTION VALVE	3
*	22	1500.00105.0	SUCTION SPRING	3
*	23	1110.01022.0	GUIDE SPRING	3
	25	REPAIR KIT	BACK RING	6
	26	1200.00163.0	ALLEN SCREW	6
	27	1110.00948.0	RUPTURE DISC BLOCK	1
	28	1300.00106.0	O-RING	1
	29	1110.01339.0	DISTANCE PIN	3
	30	1200.00369.0	GUIDE PIN	2
	31	1200.00171.0	ALLEN SCREW	4

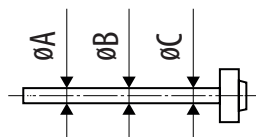
Note: * Common wear parts.

Note: ** 10 torque lifecycle (320 Nm) or 300 work hours (ITEM 31).



REPLACE SEAL KIT EVERY 500 HOURS TO ENSURE SMOOTH EQUIPMENT OPERATION

NOTE: THE WATER QUALITY DIRECTLY INFLUENCES SEAL LIFECYCLE AND CHANGING TIME MUST BE REDUCED.



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

ANALYSE PISTON DIMENSIONS WHEN CHANGING THE SEALS OR EVERY 500 HOURS RESPECT THE WEAR LIMIT.

PISTON KIT P-20 PARTS LIST H 200-4 - CODE 1010.00360.0				
NOTE	ITEM	CODE	DESCRIPTION	QTY.
*	2	1110.01207.0	SUPPORT BUSHING P-20	3
	3	1110.01626.0	JACKET P-20	3
	5	1300.00242.0	O-RING	3
***	6	1500.00107.0	SPRING P-20	3
	12	2320.00303.0	STRAIGHT CONNECT	6
	13	1110.00120.0	FLANGE P-20	3
***	14	1110.01625.0	BEARING BUSHING P-20	3
	17	1110.00855.0	SUPPORT DISC P-20	3
	18	1200.00327.0	ALLEN SCREW	12
*	19	1010.00241.0	PISTION P-20	3
		1020.00220.0	SEAL KIT P-20	1

Note: * Common wear parts.

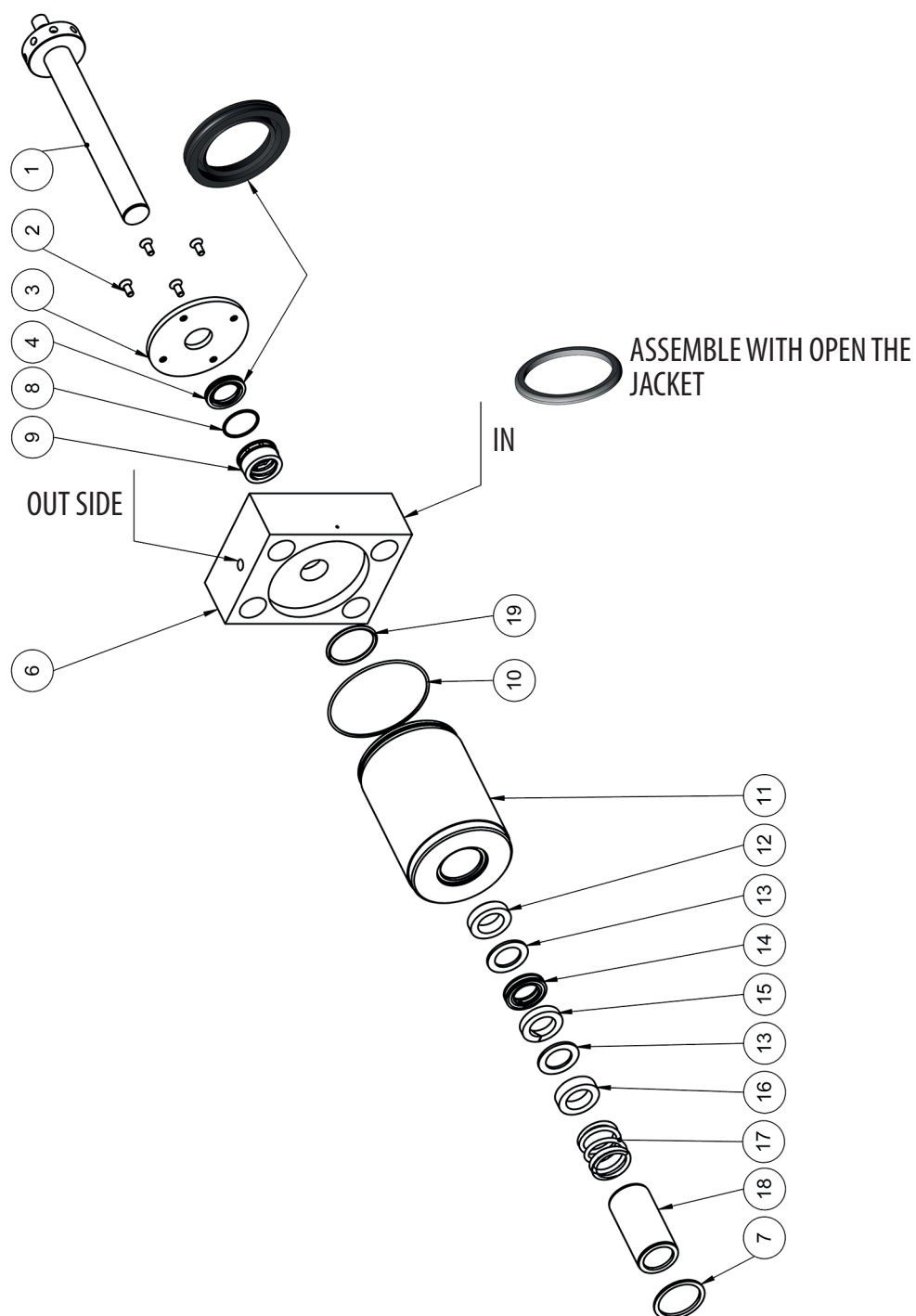
Note: ** Replace with 1000h.

Note: *** Replace with 500h, or with wear parts.

SEAL KIT P-20 PARTS LIST H 200-4 - CODE 1020.00220.0			
NOTE	ITEM	DESCRIPTION	QTY.
*	1	METALIC SEAL	3
*	4	O-RING	3
*	7	UPPER SUPPORT RING P-20	3
*	8	SCRAPER RING P-20	6
*	9	LAMELA P-20	3
*	10	LAMELA P-20	3
*	11	LOWER SUPPORT RING P-20	3
*	15	O-RING	3
*	16	VEDASEAL	3

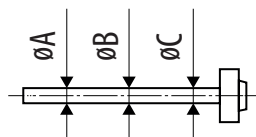
CAUTION!

ALL SEAL KITS INCLUDE VEDASEAL (CODE 1300.00589.0L) HOWEVER; THIS ITEM (16) MAY BE PURCHASED SEPARATELY.



REPLACE SEAL KIT EVERY 500 HOURS TO ENSURE SMOOTH EQUIPMENT OPERATION

NOTE: THE WATER QUALITY DIRECTLY INFLUENCES SEAL LIFECYCLE AND CHANGING TIME MUST BE REDUCED.



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

ANALYSE PISTON DIMENSIONS WHEN CHANGING THE SEALS OR EVERY 500 HOURS RESPECT THE WEAR LIMIT.

PISTON KIT P-22 PARTS LIST H 200-4 - CODE 1010.00378.0				
NOTE	ITEM	CODE	DESCRIPTION	QTY.
*	1	1010.00504.0	PISTON P-22	3
	2	1200.00327.0	ALLEN SCREW	12
	3	1110.00856.0	DISCO DE APOIO P-22	3
	5	2320.00303.0	STRAIGHT CONNECT	6
	6	1110.01252.0	FLANGE P-22	3
***	9	1110.01528.0	BEARING BUSHING P-22	3
	10	1300.00242.0	O-RING	6
	11	1110.01529.0	JACKET P-22	3
**	17	1500.00108.0	SPRING P-22	3
	18	1110.01251.0	SUPPORT BUSHING	3
		1020.00222.0	SEAL KIT P-22 SAP III	1

Note: * Common wear parts.

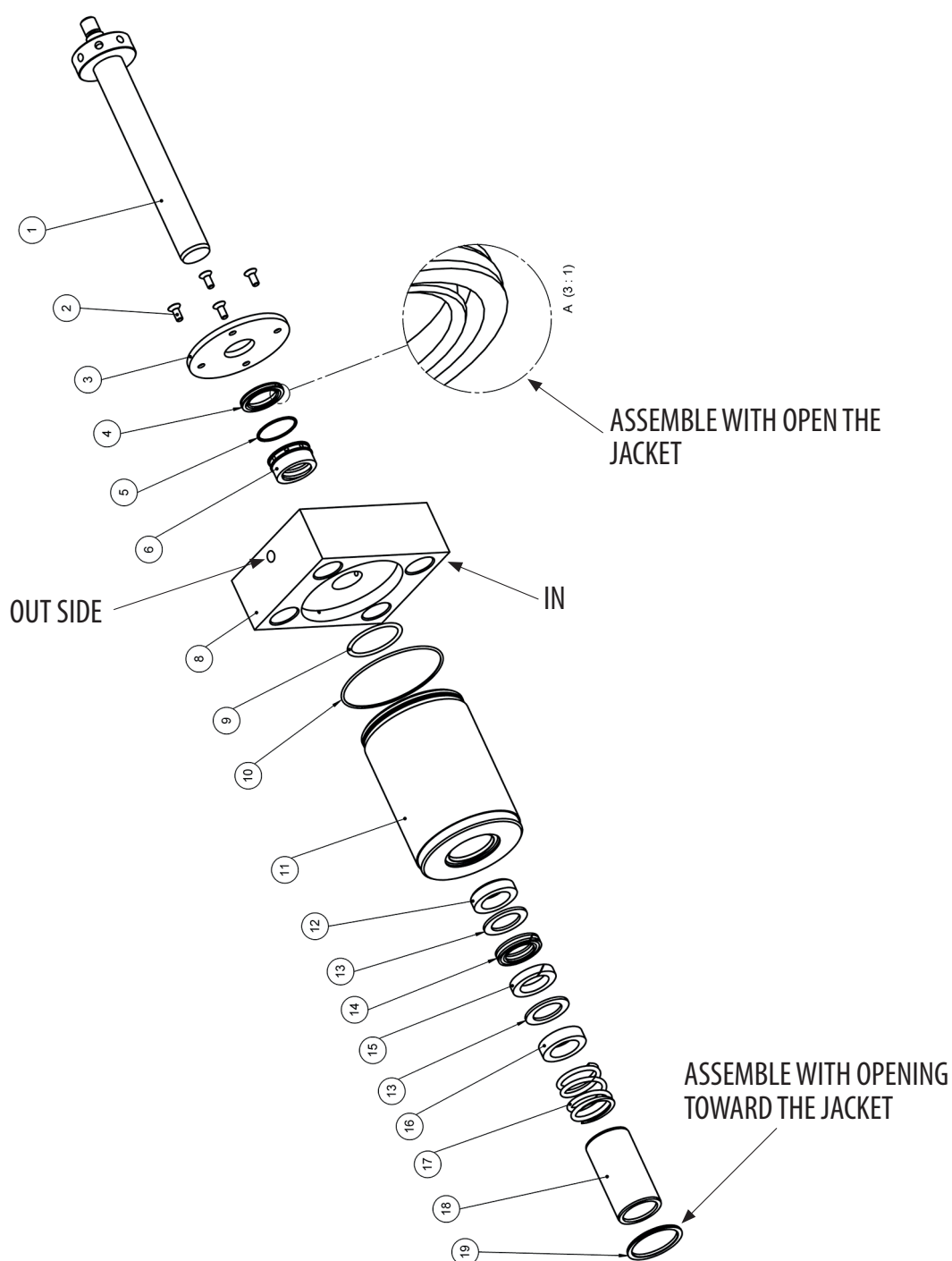
Note: ** Replace with 1000h.

Note: *** Replace with 500h, or with wear parts.

SEAL KIT P-22 PARTS LIST H 200-4 - CODE 1020.00222.0			
NOTE	ITEM	DESCRIPTION	QTY.
*	4	VEDASEAL P-22	3
*	7	METALIC SEAL P-22	3
*	8	O-RING	3
*	12	LOWER SUPPORT RING P-22	3
*	13	SCRAPER RING P-22	6
*	14	LAMELA P-22	3
*	15	LAMELA P-22	3
*	16	UPPER SUPPORT RING P-22	3
*	19	O-RING	3

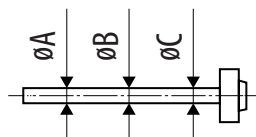
CAUTION!

ALL SEAL KITS INCLUDE VEDASEAL (CODE 1300.00590.0L) HOWEVER; THIS ITEM (04) MAY BE PURCHASED SEPARATELY.



REPLACE SEAL KIT EVERY 500 HOURS TO ENSURE SMOOTH EQUIPMENT OPERATION

NOTE: THE WATER QUALITY DIRECTLY INFLUENCES SEAL LIFECYCLE AND CHANGING TIME MUST BE REDUCED.



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

ANALYSE PISTON DIMENSIONS WHEN CHANGING THE SEALS OR EVERY 500 HOURS RESPECT THE WEAR LIMIT.

PISTON KIT P-24 PARTS LIST H 200-4 - CODE 1010.00169.0				
NOTE	ITEM	CODE	DESCRIPTION	QTY.
*	1	1010.00257.0	PISTON KIT	3
	2	1200.00327.0	ALLEN SCREW	12
	3	1110.00857.0	SUPPORT DISC P-24	3
***	6	1110.02208.0	BEARING BUSHING P-24	3
	7	2320.00303.0	STRAIGHT CONNECT	6
	8	1110.02628.0	FLANGE P-24	3
	10	1300.00242.0	O-RING	6
	11	1110.02209.0	JACKET P-24	3
**	17	1500.00109.0	SPRING P-24	3
	18	1110.00868.0	SUPPORT BUSHING	3
		1020.00224.0	SEAL KIT P-24 SAP III	1

Note: * Common wear parts.

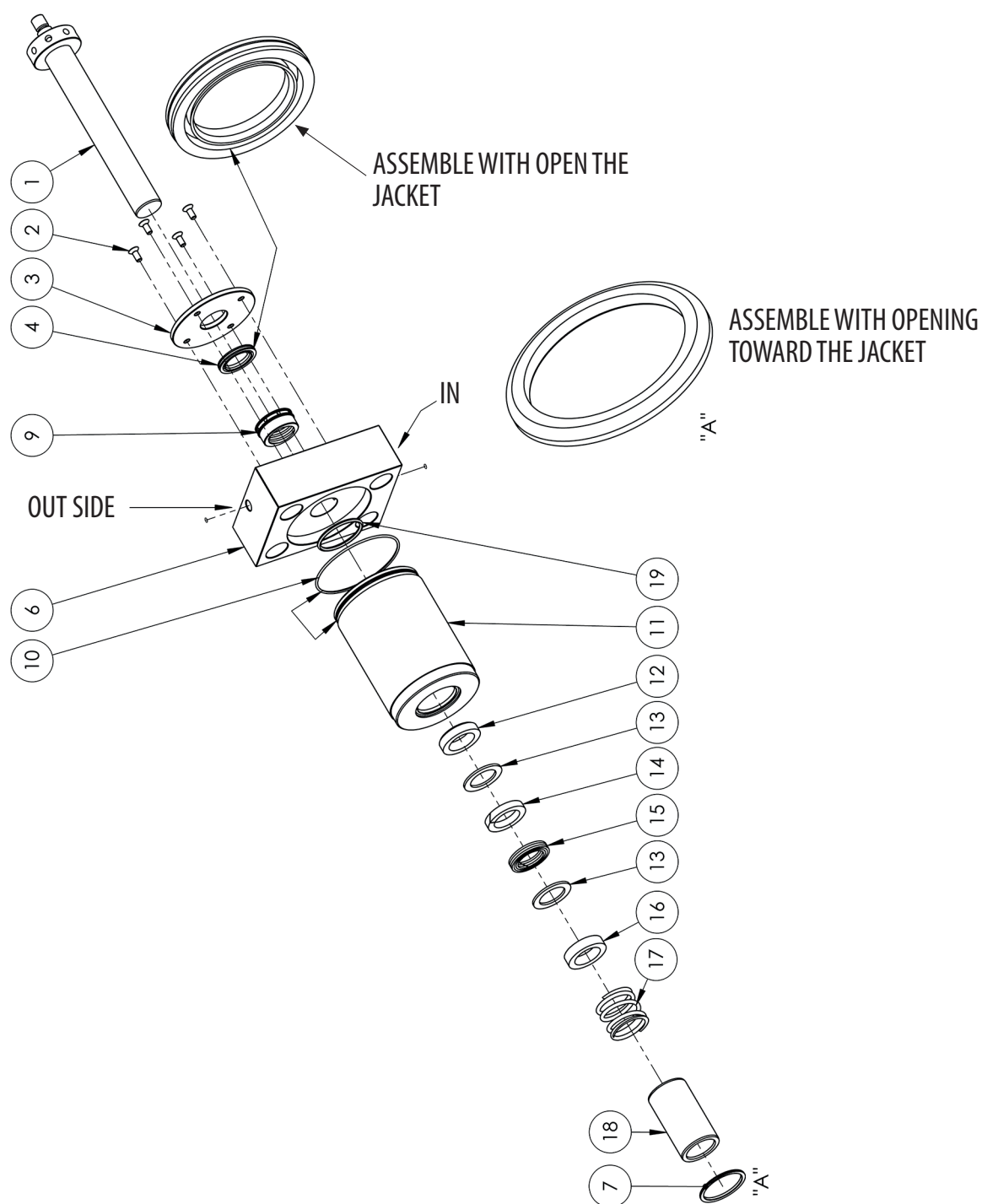
Note: ** Replace with 1000h.

Note: *** Replace with 500h, or with wear parts.

SEAL KIT P-24 PARTS LIST H 200-4 - CODE 1020.00224.0			
NOTE	ITEM	DESCRIPTION	QTY.
*	4	VEDASEAL P-24	3
*	5	O-RING	3
*	9	O-RING	3
*	12	LOWER SUPPORT RING P-24	3
*	13	SCRAPER RING P-24	6
*	14	LAMELA P-24	3
*	15	LAMELA P-24	3
*	16	UPPER SUPPORT RING P-24	3
*	19	METALIC SEAL P-24	3

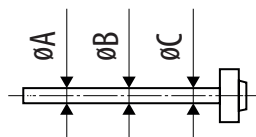
CAUTION!

ALL SEAL KITS INCLUDE VEDASEAL (CODE 1300.00591.0L) HOWEVER; THIS ITEM (04) MAY BE PURCHASED SEPARATELY.



REPLACE SEAL KIT EVERY 500 HOURS TO ENSURE SMOOTH EQUIPMENT OPERATION

NOTE: THE WATER QUALITY DIRECTLY INFLUENCES SEAL LIFECYCLE AND CHANGING TIME MUST BE REDUCED.



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

ANALYSE PISTON DIMENSIONS WHEN CHANGING THE SEALS OR EVERY 500 HOURS RESPECT THE WEAR LIMIT.

PISTON KIT P-26 PARTS LIST H 200-4 - CODE 1010.00485.0				
NOTE	ITEM	CODE	DESCRIPTION	QTY.
*	1	1010.00331.0	PISTON KIT	3
	2	1200.00327.0	ALLEN SCREW	12
	3	1110.00858.0	SUPPORT DISC P-26	3
	5	2320.00303.0	STRAIGHT CONNECT	6
	6	1110.01112.0	FLANGE P-26	3
***	9	1010.01390.0	BEARING BUSHING	3
	10	1300.00242.0	O-RING	3
	11	1110.01513.0	JACKET P-26	3
**	17	1500.00110.0	SPRING P-26	3
	18	1110.01114.0	SUPPORT BUSHING P-26	3
		1020.00226.0	SEAL KIT P-26 SAP III	1

Note: * Common wear parts.

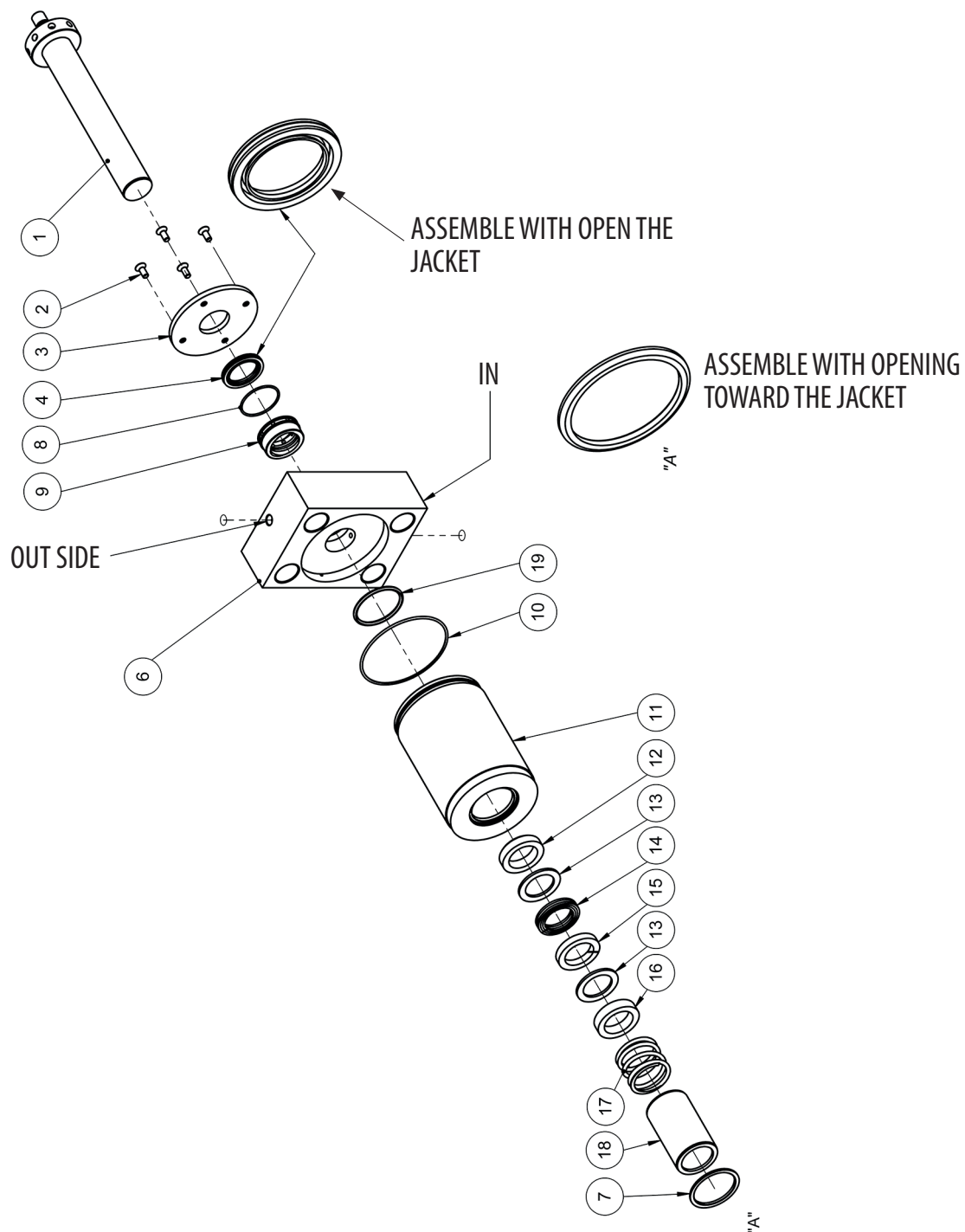
Note: ** Replace with 1000h.

Note: *** Replace with 500h, or with wear parts.

SEAL KIT P-26 PARTS LIST H 200-4 - CODE 1020.00226.0			
NOTE	ITEM	DESCRIPTION	QTY.
*	4	VEDASEAL P-26	3
*	7	METALIC SEAL P-26	3
*	8	O-RING	3
*	12	LOWER SUPPORT RING P-26	3
*	13	SCRAPER RING P-26	6
*	14	LAMELA P-26	3
*	15	LAMELA P-26	3
*	16	UPPER SUPPORT RING P-26	3
*	19	O-RING	3

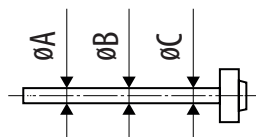
CAUTION!

ALL SEAL KITS INCLUDE VEDASEAL (CODE 1300.00592.0L) HOWEVER; THIS ITEM (04) MAY BE PURCHASED SEPARATELY.



REPLACE SEAL KIT EVERY 500 HOURS TO ENSURE SMOOTH EQUIPMENT OPERATION

NOTE: THE WATER QUALITY DIRECTLY INFLUENCES SEAL LIFECYCLE AND CHANGING TIME MUST BE REDUCED.



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

ANALYSE PISTON DIMENSIONS WHEN CHANGING THE SEALS OR EVERY 500 HOURS RESPECT THE WEAR LIMIT.

PISTON KIT P-28 PARTS LIST H 200-4 - CODE 1010.00448.0				
NOTE	ITEM	CODE	DESCRIPTION	QTY.
*	1	1010.00374.0	PISTON	3
	2	1200.00327.0	ALLEN SCREW	12
	3	1110.00859.0	SUPPORT DISC	3
	5	2320.00303.0	STRAIGHT CONNECT	6
	6	1110.01239.0	FLANGE P-28	3
***	9	1010.01389.0	BEARING BUSHING	3
	10	1300.00242.0	O-RING	3
	11	1110.01336.0	JACKET P-28	3
**	17	1500.00146.0	SPRING P-28	3
	18	1110.01240.0	SUPPORT BUSHING P-28	3
		1020.01240.0	SEAL KIT P-28 SAP III	1

Note: * Common wear parts.

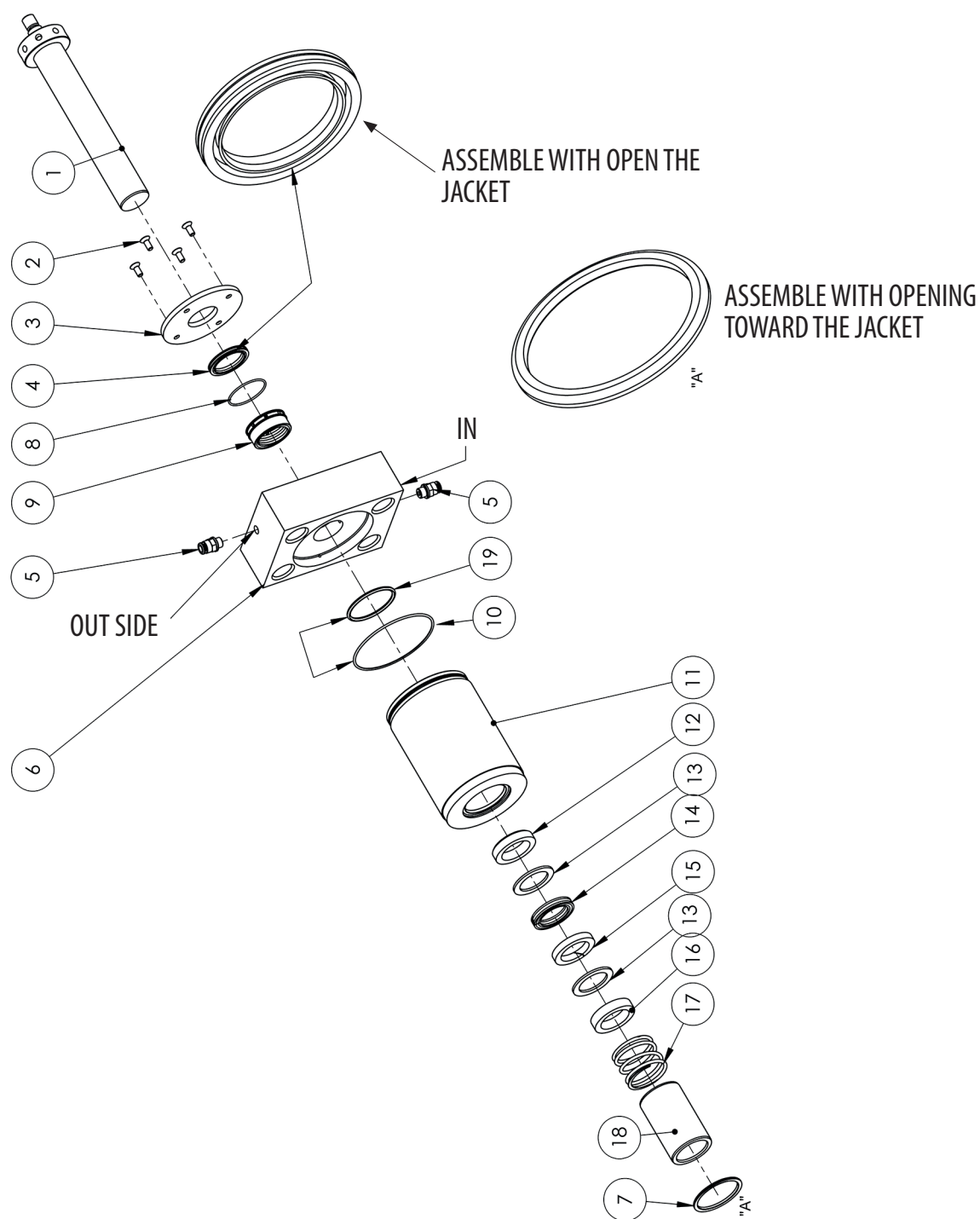
Note: ** Replace with 1000h.

Note: *** Replace with 500h, or with wear parts.

SEAL KIT P-28 PARTS LIST H 200-4 - CODE 1020.01240.0			
NOTE	ITEM	DESCRIPTION	QTY.
*	4	VEDASEAL P-28	3
*	7	METALIC SEAL P-28	3
*	8	O-RING	3
*	12	LOWER SUPPORT RING P-28	3
*	13	SCRAPER RING P-28	6
*	14	LAMELA P-28	3
*	15	LAMELA P-28	3
*	16	UPPER SUPPORT RING P-28	3
*	19	O-RING	3

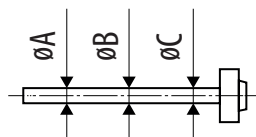
CAUTION!

ALL SEAL KITS INCLUDE VEDASEAL (CODE 1300.00593.0L) HOWEVER; THIS ITEM (04) MAY BE PURCHASED SEPARATELY.



REPLACE SEAL KIT EVERY 500 HOURS TO ENSURE SMOOTH EQUIPMENT OPERATION

NOTE: THE WATER QUALITY DIRECTLY INFLUENCES SEAL LIFECYCLE AND CHANGING TIME MUST BE REDUCED.



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

ANALYSE PISTON DIMENSIONS WHEN CHANGING THE SEALS OR EVERY 500 HOURS RESPECT THE WEAR LIMIT.

PISTON KIT P-30 PARTS LIST H 200-4 - CODE 1010.00424.0				
NOTE	ITEM	CODE	DESCRIPTION	QTY.
*	1	1010.00468.0	PISTON KIT	3
	2	1200.00327.0	ALLEN SCREW	12
	3	1110.00860.0	SUPPORT DISC P-30	3
	5	2320.00303.0	STRAIGHT CONNECT	6
	6	1110.01357.0	FLANGE P-30	3
***	9	1010.01055.0	BEARING BUSHING	3
	10	1300.00242.0	O-RING	3
	11	1110.01353.0	JACKET P-30	3
**	17	1500.00111.0	SPRING P-30	3
	18	1110.01358.0	SUPPORT BUSHING P-30	3
		1020.00230.0	SEAL KIT P-30 SAP III	1

Note: * Common wear parts.

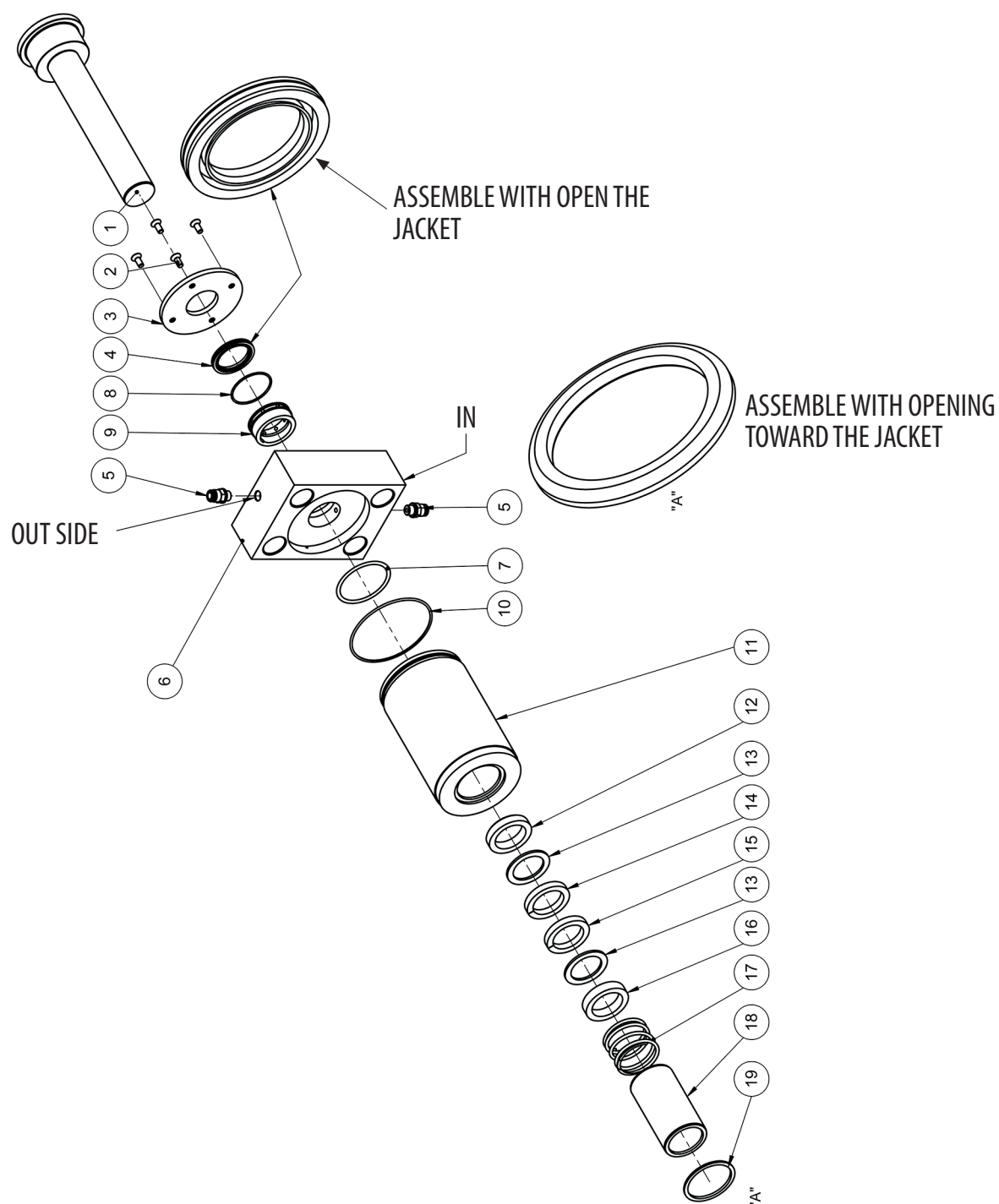
Note: ** Replace with 1000h.

Note: *** Replace with 500h, or with wear parts.

SEAL KIT P-30 PARTS LIST H 200-4 - CODE 1020.00230.0			
NOTE	ITEM	DESCRIPTION	QTY.
*	4	VEDASEAL P-30	3
*	7	METALIC SEAL P-30	3
*	8	O-RING	3
*	12	LOWER SUPPORT RING P-30	3
*	13	SCRAPER RING P-30	6
*	14	LAMELA P-30	3
*	15	LAMELA P-30	3
*	16	UPPER SUPPORT RING P-30	3
*	19	O-RING	3

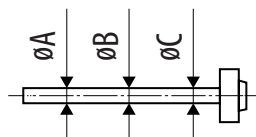
CAUTION!

ALL SEAL KITS INCLUDE VEDASEAL (CODE 1300.00594.0L) HOWEVER; THIS ITEM (04) MAY BE PURCHASED SEPARATELY.



REPLACE SEAL KIT EVERY 500 HOURS TO ENSURE SMOOTH EQUIPMENT OPERATION

NOTE: THE WATER QUALITY DIRECTLY INFLUENCES SEAL LIFECYCLE AND CHANGING TIME MUST BE REDUCED.



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

ANALYSE PISTON DIMENSIONS WHEN CHANGING THE SEALS OR EVERY 500 HOURS RESPECT THE WEAR LIMIT.

PISTON KIT P-32 PARTS LIST H 200-4 - CODE 1010.00433.0				
NOTE	ITEM	CODE	DESCRIPTION	QTY.
*	1	1010.00434.0	PISTON KIT	3
	2	1200.00327.0	ALLEN SCREW	12
	3	1110.00931.0	SUPPORT DISC P-32	3
	5	2320.00303.0	STRAIGHT CONNECT	6
	6	1110.01348.0	FLANGE P-32	3
***	9	1010.01042.0	BEARING BUSHING	3
	10	1300.00242.0	O-RING	3
	11	1110.01422.0	JACKET P-32	3
**	17	1500.00148.0	SPRING P-32	3
	18	1110.00933.0	SUPPORT BUSHING P-32	3
		1020.00232.0	SEAL KIT P-32 SAP III	1

Note: * Common wear parts.

Note: ** Replace with 1000h.

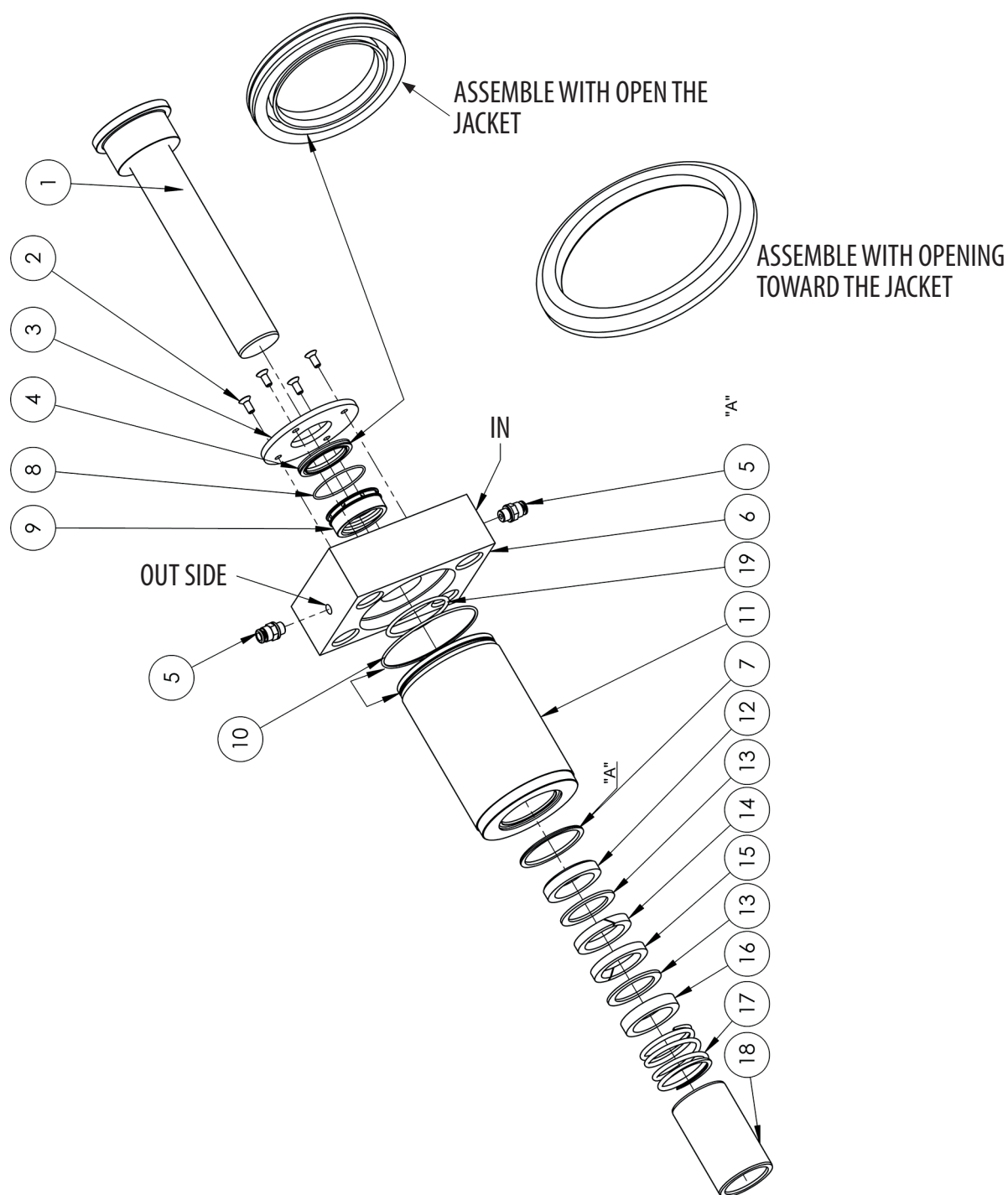
Note: *** Replace with 500h, or with wear parts.

SEAL KIT P-32 PARTS LIST H 200-4 - CODE 1020.00232.0			
NOTE	ITEM	DESCRIPTION	QTY.
*	4	VEDASEAL P-32	3
*	7	O-RING	3
*	8	O-RING	3
*	12	LOWER SUPPORT RING P-32	3
*	13	SCRAPER RING P-32	6
*	14	LAMELA P-32	3
*	15	LAMELA P-32	3
*	16	UPPER SUPPORT RING P-32	3
*	19	METALIC SEAL P-32	3

CAUTION!

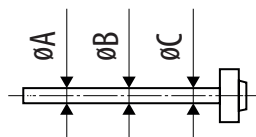
ALL SEAL KITS INCLUDE VEDASEAL (CODE 1300.00595.0L) HOWEVER; THIS ITEM (04) MAY BE PURCHASED SEPARATELY.

PISTON KIT (P-35) - CODE 1010.00417.0



REPLACE SEAL KIT EVERY 500 HOURS TO ENSURE SMOOTH EQUIPMENT OPERATION

NOTE: THE WATER QUALITY DIRECTLY INFLUENCES SEAL LIFECYCLE AND CHANGING TIME MUST BE REDUCED.



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

ANALYSE PISTON DIMENSIONS WHEN CHANGING THE SEALS OR EVERY 500 HOURS RESPECT THE WEAR LIMIT.

PISTON KIT P-35 PARTS LIST H 200-4 - CODE 1010.00417.0				
NOTE	ITEM	CODE	DESCRIPTION	QTY.
*	1	1010.00406.0	PISTON KIT	3
	2	1200.00327.0	ALLEN SCREW	12
	3	1110.00969.0	SUPPORT DISC P-35	3
	5	2320.00303.0	STRAIGHT CONNECT	6
	6	1110.01337.0	FLANGE P-35	3
***	9	1010.01043.0	BEARING BUSHING	3
	10	1300.00242.0	O-RING	3
	11	1110.01421.0	JACKET P-35	3
**	17	1500.00151.0	SPRING P-35	3
	18	1110.00970.0	SUPPORT BUSHING P-35	3
		1020.00235.0	SEAL KIT P-35 SAP III	1

Note: * Common wear parts.

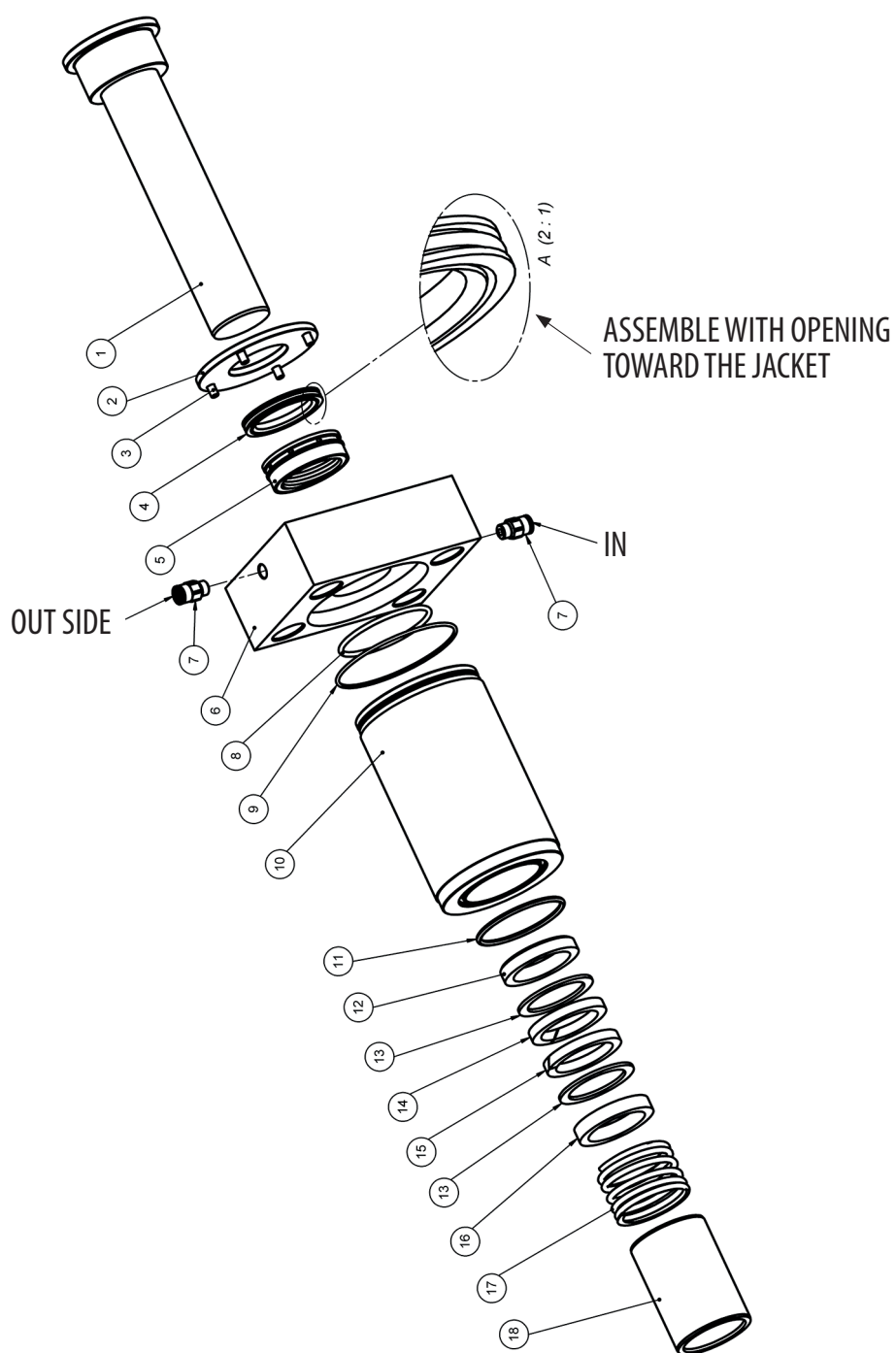
Note: ** Replace with 1000h.

Note: *** Replace with 500h, or with wear parts.

SEAL KIT P-35 PARTS LIST H 200-4 - CODE 1020.00235.0			
NOTE	ITEM	DESCRIPTION	QTY.
*	4	VEDASEAL P-35	3
*	7	METALIC SEAL P-35	3
*	8	O-RING	3
*	12	LOWER SUPPORT RING P-35	3
*	13	SCRAPER RING P-35	6
*	14	LAMELA P-35	3
*	15	LAMELA P-35	3
*	16	UPPER SUPPORT RING P-35	3
*	19	O-RING	3

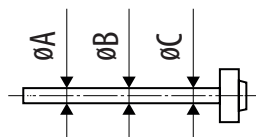
CAUTION!

ALL SEAL KITS INCLUDE VEDASEAL (CODE 1300.00596.0L) HOWEVER; THIS ITEM (04) MAY BE PURCHASED SEPARATELY.



REPLACE SEAL KIT EVERY 500 HOURS TO ENSURE SMOOTH EQUIPMENT OPERATION

NOTE: THE WATER QUALITY DIRECTLY INFLUENCES SEAL LIFECYCLE AND CHANGING TIME MUST BE REDUCED.



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

ANALYSE PISTON DIMENSIONS WHEN CHANGING THE SEALS OR EVERY 500 HOURS RESPECT THE WEAR LIMIT.

PISTON KIT P-40 PARTS LIST H 200-4 - CODE 1010.01375.0				
NOTE	ITEM	CODE	DESCRIPTION	QTY.
*	1	1010.00626.0	PISTON KIT	3
	2	1110.01587.0	SUPPORT DISC P-40	3
	3	1200.00327.0	ALLEN SCREW	12
***	5	1010.00596.0	BEARING BUSHING	3
	6	1110.01578.0	FLANGE P-40	3
	7	2320.00303.0	STRAIGHT CONNECT	6
	9	1300.00242.0	O-RING	3
	10	1110.02909.0	JACKET P-40	3
**	17	1500.00165.0	SPRING P-40	3
	18	1110.02910.0	SUPPORT BUSHING P-40	3
		1020.00240.1	SEAL KIT P-40 SAP III	1

Note: * Common wear parts.

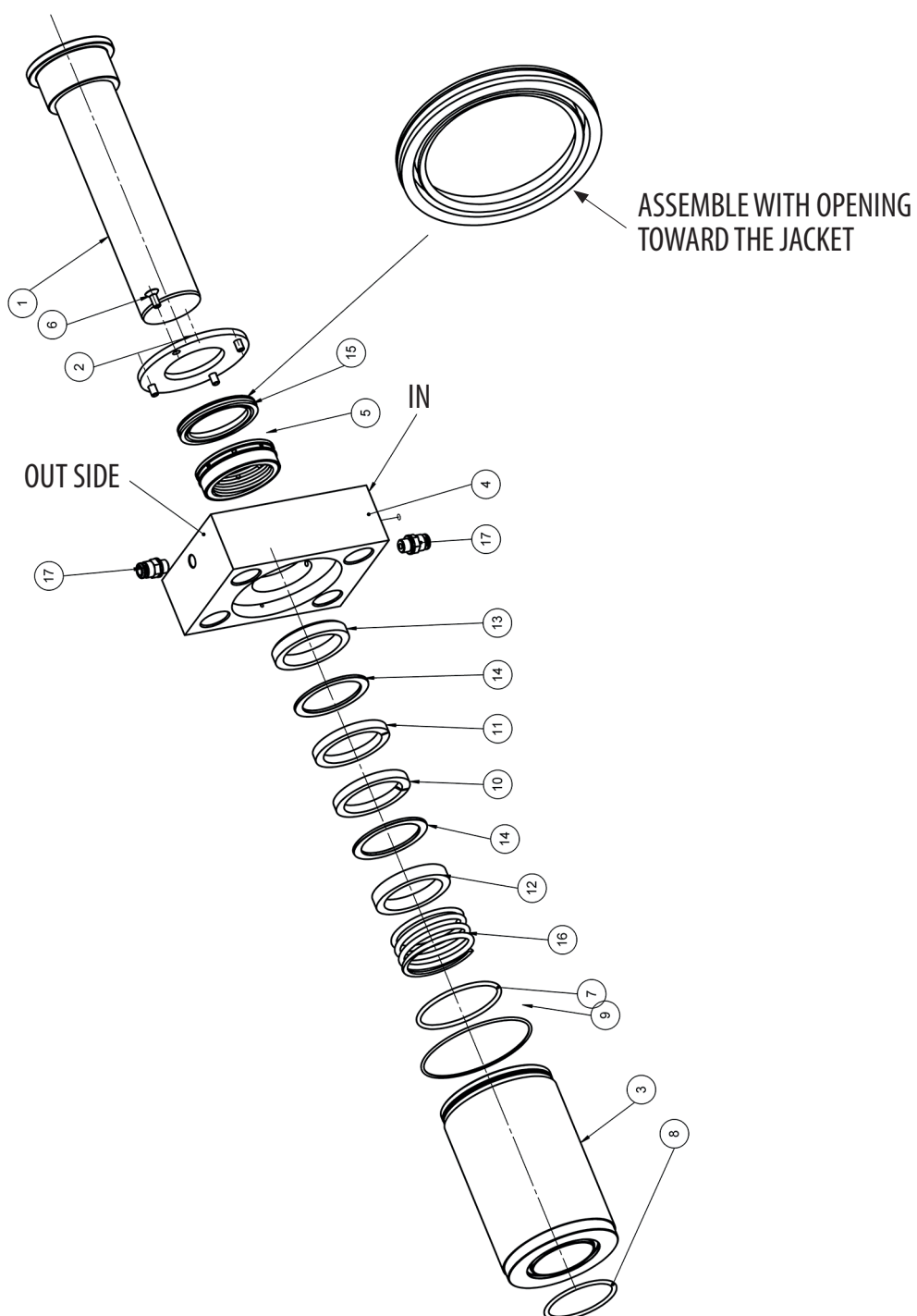
Note: ** Replace with 1000h.

Note: *** Replace with 500h, or with wear parts.

SEAL KIT P-40 PARTS LIST H 200-4 - CODE 1020.00240.1			
NOTE	ITEM	DESCRIPTION	QTY.
*	4	VEDASEAL P-40	3
*	8	O-RING	3
*	11	O-RING	3
*	12	LOWER SUPPORT RING P-40	3
*	13	SCRAPER RING P-40	6
*	14	LAMELA P-40	3
*	15	LAMELA P-40	3
*	16	UPPER SUPPORT RING P-40	3

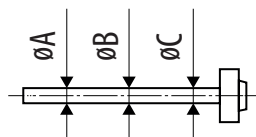
CAUTION!

ALL SEAL KITS INCLUDE VEDASEAL (CODE 1300.00683.0L) HOWEVER; THIS ITEM (04) MAY BE PURCHASED SEPARATELY.



REPLACE SEAL KIT EVERY 500 HOURS TO ENSURE SMOOTH EQUIPMENT OPERATION

NOTE: THE WATER QUALITY DIRECTLY INFLUENCES SEAL LIFECYCLE AND CHANGING TIME MUST BE REDUCED.



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

ANALYSE PISTON DIMENSIONS WHEN CHANGING THE SEALS OR EVERY 500 HOURS RESPECT THE WEAR LIMIT.

PISTON KIT P-45 PARTS LIST H 200-4 - CODE 1010.00869.0

NOTE	ITEM	CODE	DESCRIPTION	QTY.
*	1	1010.00870.0	PISTON	3
	2	1110.01006.0	SUPPORT DISC P-45	3
	3	1110.01494.0	JACKET P-45	3
	4	1110.01495.0	FLANGE P-45	3
***	5	1010.00855.0	BEARING BUSHING	3
	6	1200.00327.0	ALLEN SCREW	12
	9	1300.00242.0	O-RING	3
**	16	1500.00153.0	SPRING P-45	3
	17	2320.00303.0	STRAIGHT CONNECT	6
		1020.00245.0	SEAL KIT P-45 SAP III	1

Note: * Common wear parts.

Note: ** Replace with 1000h.

Note: *** Replace with 500h, or with wear parts.

SEAL KIT P-45 PARTS LIST H 200-4 - CODE 1020.00245.0

NOTE	ITEM	DESCRIPTION	QTY.
*	7	O-RING	3
*	8	O-RING	3
*	10	LAMELA P-45	3
*	11	LAMELA P-45	3
*	12	UPPER SUPPORT RING	6
*	13	LOWER SUPPORT RING	3
*	14	SCRAPER RING	6
*	15	VEDASEAL	3

CAUTION!

ALL SEAL KITS INCLUDE VEDASEAL (CODE 1300.00638.0L) HOWEVER; THIS ITEM (15) MAY BE PURCHASED SEPARATELY.



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