

神戸三菱UEディーゼル

KOBE DIESEL-MITSUBISHI

UE Diesel Engines

6UEC45LSE-B2

CODE BOOK

KOBE DIESEL CO., LTD.

神戸発動機株式会社

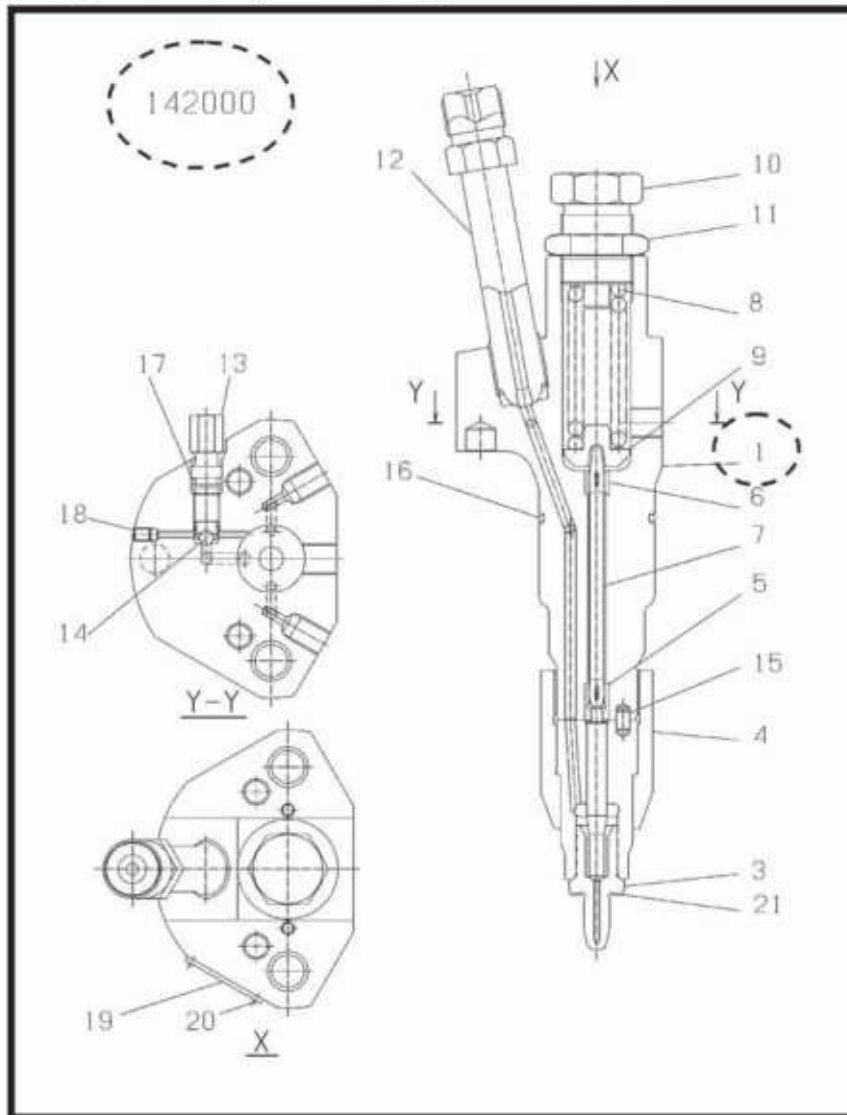
A REQUEST FOR ORDER OF ENGINE PARTS

御注文時にはコードブックの
イラストレーションの番号
KEY No. と部品名でお願い
します。

We would like you to describe
parts name in combination with
illustration No.(Key No.) in the
code book for order from now on.

(例) 燃料弁 本体 . . . 142001

(Example) Fuel injection body . . . 142001



※現在KEY No. 及び品名にて
御注文いただいております各位殿
におかれましては引き続きお願い
申し上げます。

※For those clients ordering with
Key No. and parts name a present.
please continue such an ordering
style.


KOBE DIESEL CO., LTD.

神戸発動機株式会社

**REQUEST TO CUSTOMERS
WHEN
ORDERING OF SPARE PARTS**

FOR PREVENTING OF MIS-UNDERSTANDING AND MIS-DELIVERY,
CUSTOMER WILL KINDLY FILL UP THE FOLLOWING ITEMS WHEN
ORDERING OF SPARE PARTS.

ITEMS TO BE FILLED UP;

- | | | |
|-------------------------------------|---|---------|
| (1) Name of vessel | : | |
| (2) Engine type | : | |
| (3) Engine No. | : | UE-○○○○ |
| (4) Ship No. | : | |
| (5) Parts No.(Key No.) & Parts name | : | |

Key No. is according with this CODE BOOK

Code No.	Item	Page
100	CROSS-SECTION	1
100	LONGITUDINAL-SECTION	2
100	GENERAL ARRANGEMENT (MAINTENANCE KIT)	3
111	BED PLATE	4,5
111	LUB. OIL OUTLET	6,7
114	MAIN BEARING	8,9
114	DRIVING END MAIN BEARING	10,11
116	THRUST BEARING	12-14
121	COLUMN	15-17
121	FREE END COVER	18,19
124	TIE BOLT	20,21
126	COLUMN DOOR AND SAFETY VALVE	22-25
132	CYLINDER JACKET	26,27
133	PISTON ROD STUFFING BOX	28,29
134	CYLINDER LINER	30-32
134	INLET BRANCH PIPE OF CYLINDER COOLING WATER	33,34
134	BYPASS PIPE OF CYLINDER COOLING WATER	35,36
141	CYLINDER COVER	37,38
142	FUEL VALVE	39,40
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143	EXHAUST VALVE AIR SPRING PIPE	45,46
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144	STARTING AIR VALVE	49,50
145	CYLINDER SAFETY VALVE	51,52
146	INDICATOR VALVE	53,54
161	AIR DUCT	55-57
161	DRAIN SEPARATOR	58,59
161	SCAVENGING AIR TRUNK	60,61
162	AIR COOLER	62-64
164	SCAVENGING AIR VALVE	65,66
171	EXHAUST PIPE	67-70
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235	CONNECTING ROD AND BEARING	75,76
235	CROSSHEAD	77,78
245	PISTON	79,80
246	PISTON COOLING SYSTEM	81,82
255	CAMSHAFT	83,84
256	CAMSHAFT DRIVE	85-88
256	CAMSHAFT GEAR	89,90

1-U1-0C062/-, 1-U1-0C050/T1

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264	EXHAUST VALVE DRIVING GEAR, UPPER PART	99,100
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313	FUEL INJECTION PUMP DRIVING GEAR	117,118
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331	TURNING GEAR	122-124
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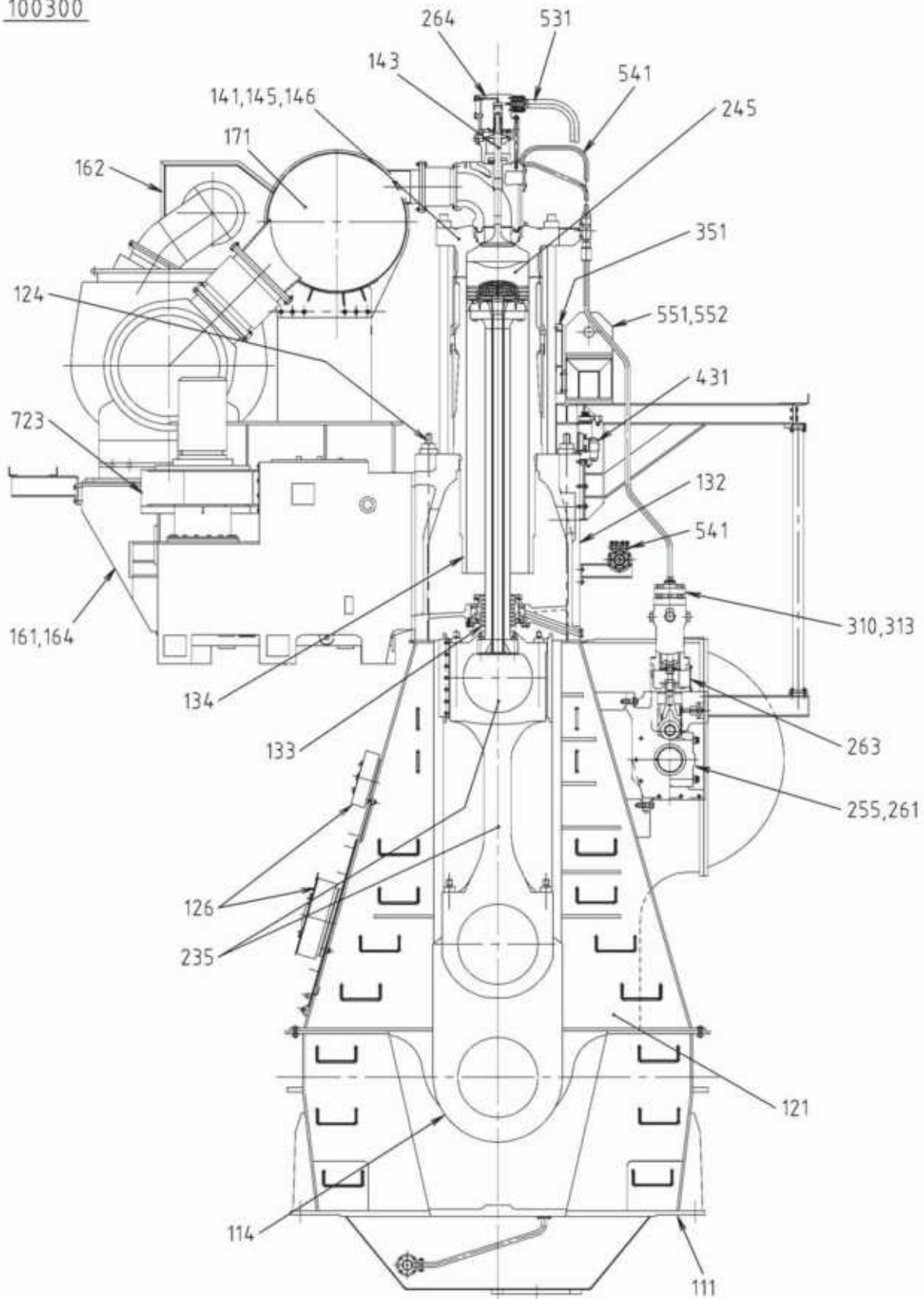
1-U1-0C062/-, 1-U1-0C050/T1

Code No.	Item	Page
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1-U1-0C062/-, 1-U1-0C050/T1

100 CROSS-SECTION OF UEC45LSE-B2

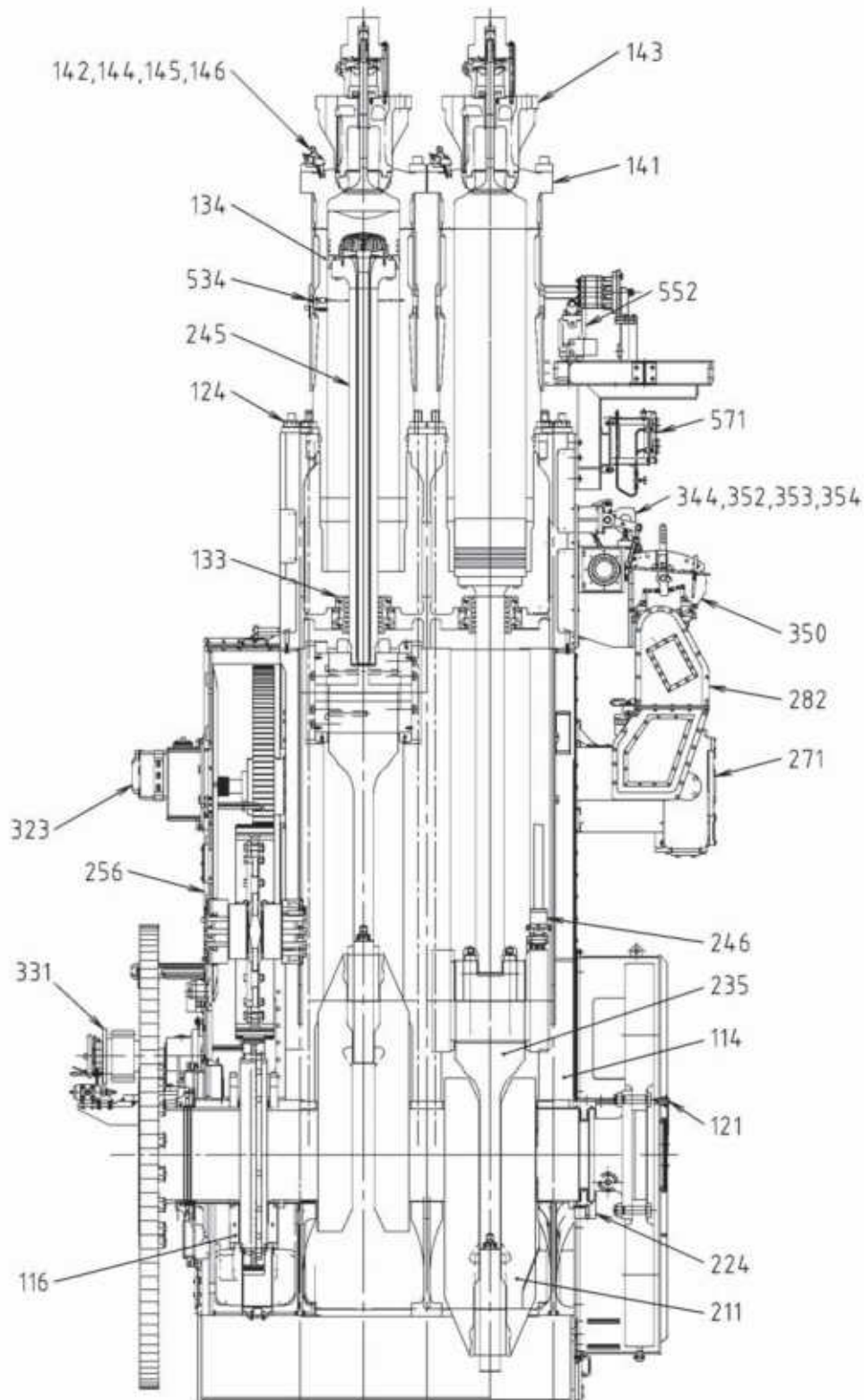
100300



1-U1-0C062/-
00-00

100 LONGITUDINAL-SECTION OF UEC45LSE-B2

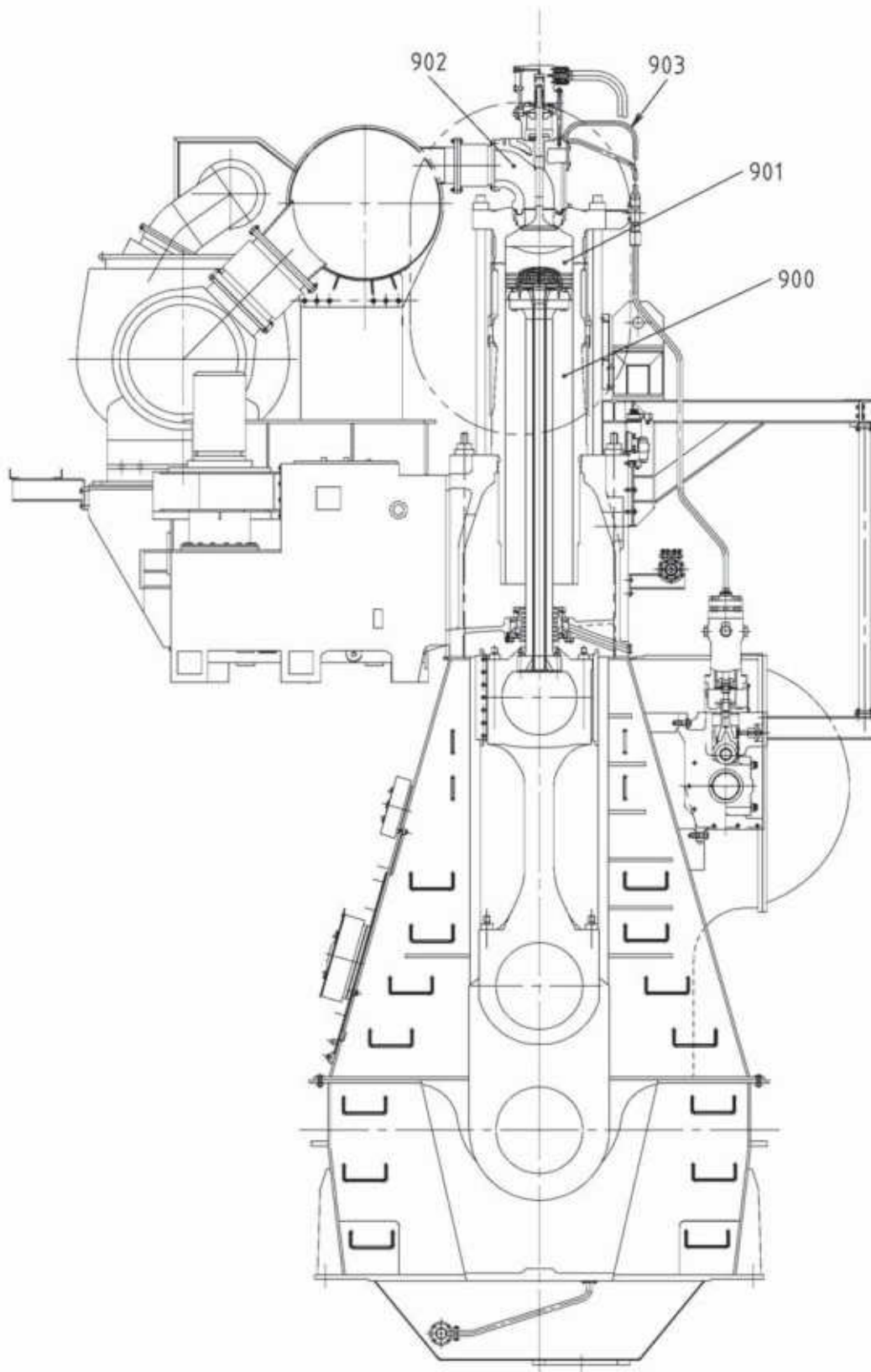
100300



1-U1-0C050/T1
00-00

100 GENERAL ARRANGEMENT (MAINTENANCE KIT)

100300



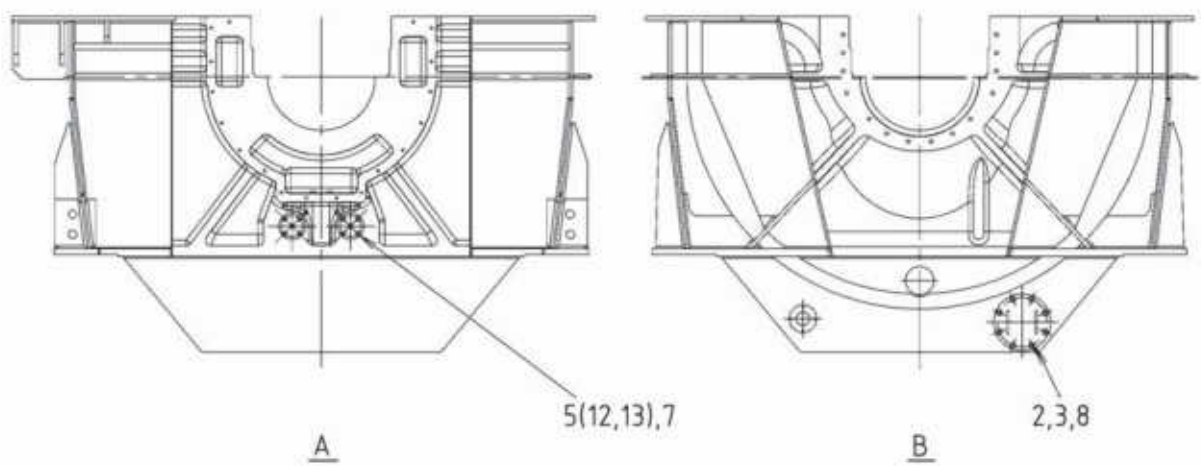
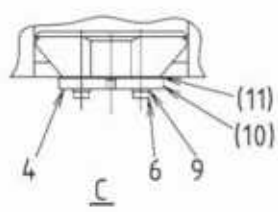
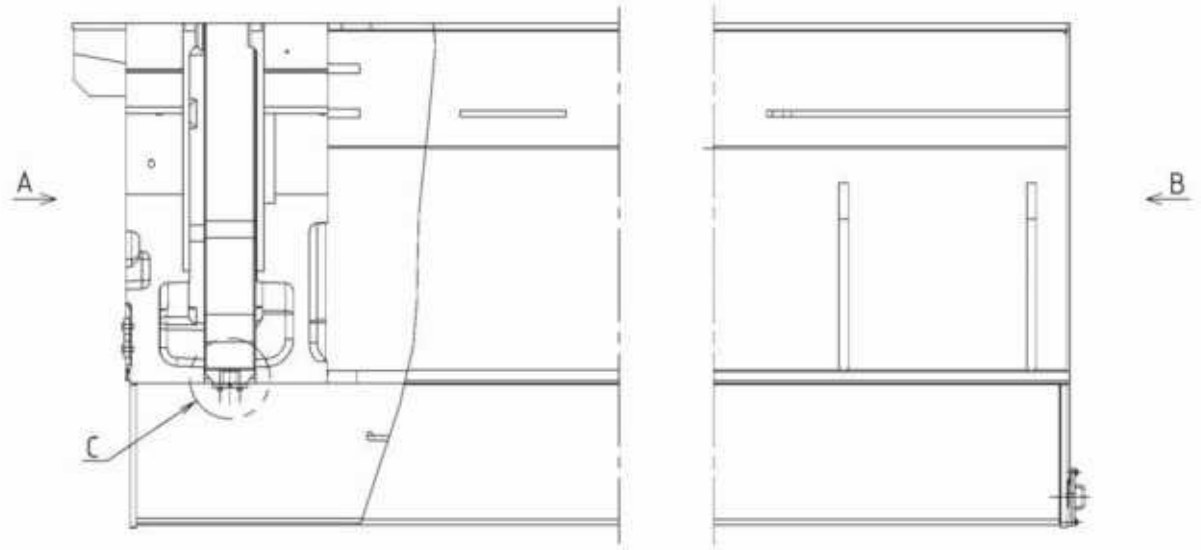
1-U1-0C062/-
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45LSE-B2

100

111 BED PLATE

111300



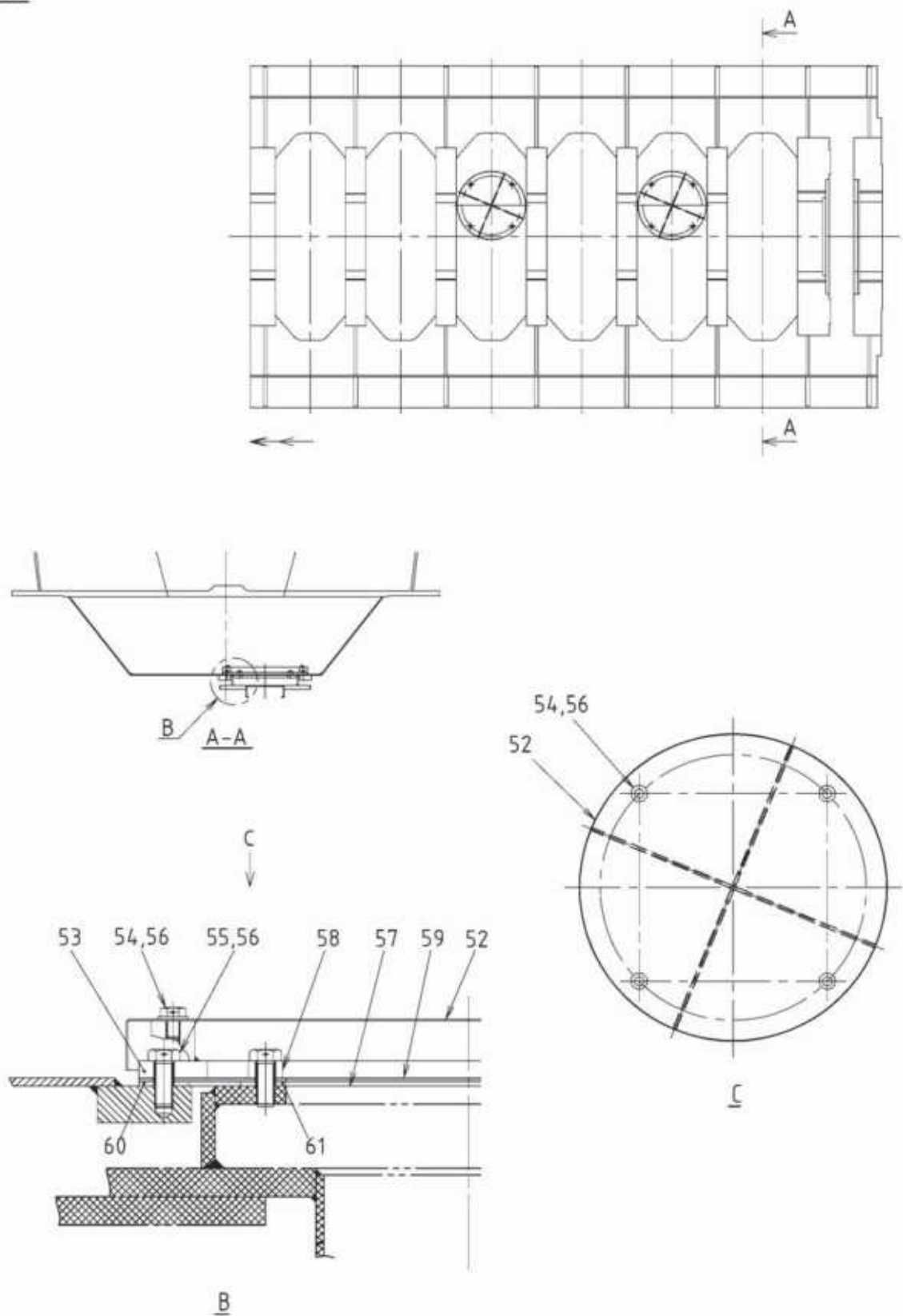
2-K1-1C179/-
52-01

Key No.	Description
111300	Bed plate
2	Blind flange assembly
3	Full-face gasket
4	Flange assembly (Consist of 111310, 111311)
5	Flange assembly (Consist of 111312, 111313)
6	Bolt
7	Bolt
8	Bolt
9	Spring washer
10	Flange
11	Gasket
12	Flange
13	Gasket

2-K1-1C179/-

111 LUB. OIL OUTLET

111350



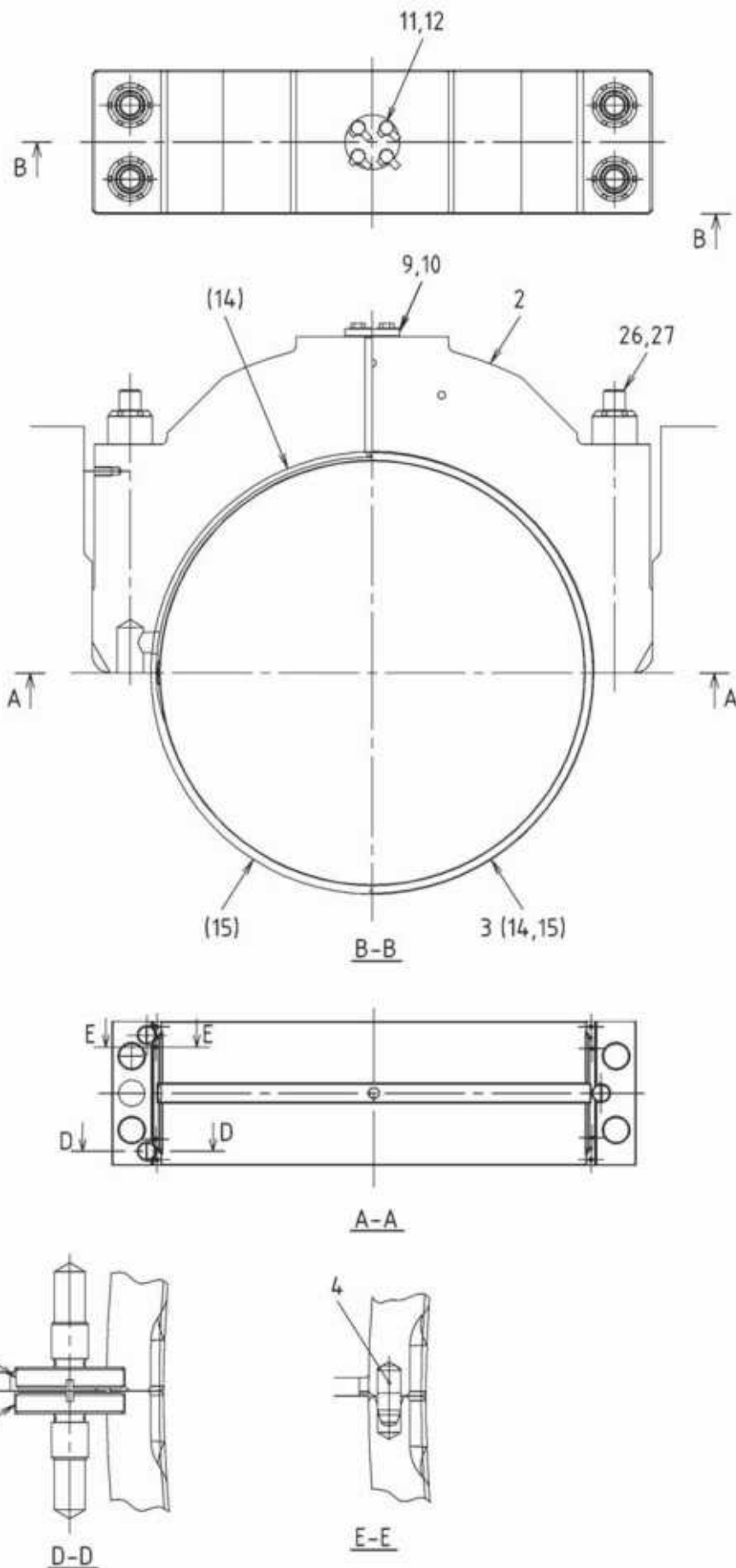
2-K1-1C138/-
52-01

Key No.	Description
111350	Lub. oil outlet
52	Filter
53	Retaining ring
54	Hexagon bolt with wire hole
55	Hexagon bolt with wire hole
56	Wire
57	pipe
58	Retaining ring
59	Stainless steel pipe
60	Rubber packing
61	Rubber packing

2-K1-1C179/-

114 MAIN BEARING

114.000



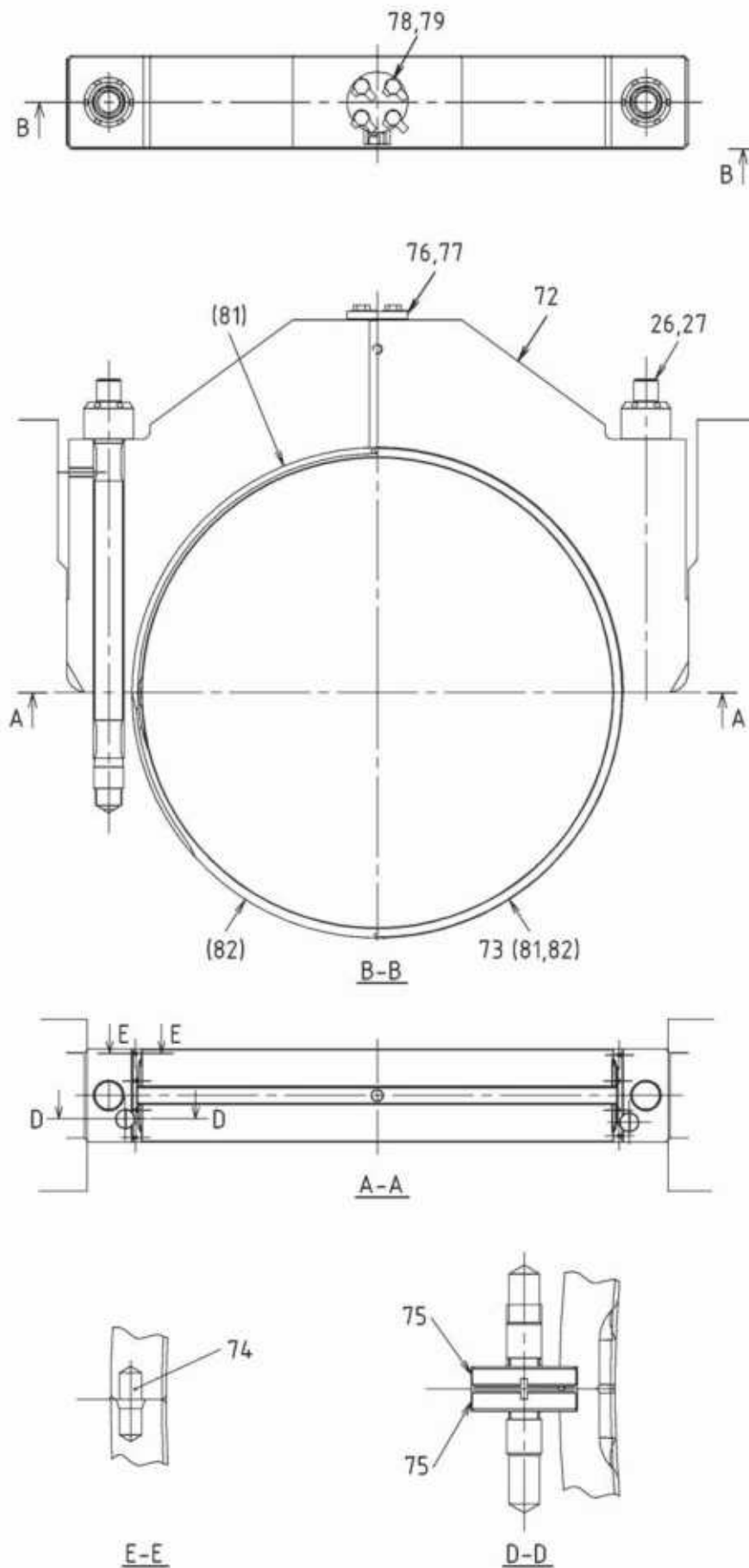
1-K1-2C012 T3
52-06

45LSE

Key No.	Description
114000	Main bearing assembly for main bearing
2	Main bearing cap
3	Main bearing metal (Consist of 114014 and 114015)
4	Knock pin
8	Stopper bolt
9	Blind flange
10	Full-face gasket
11	Bolt
12	Double tongued washer
14	Upper metal
15	Lower metal
26	Stud bolt for main bearing
27	Nut for main bearing

114 DRIVING END MAIN BEARING

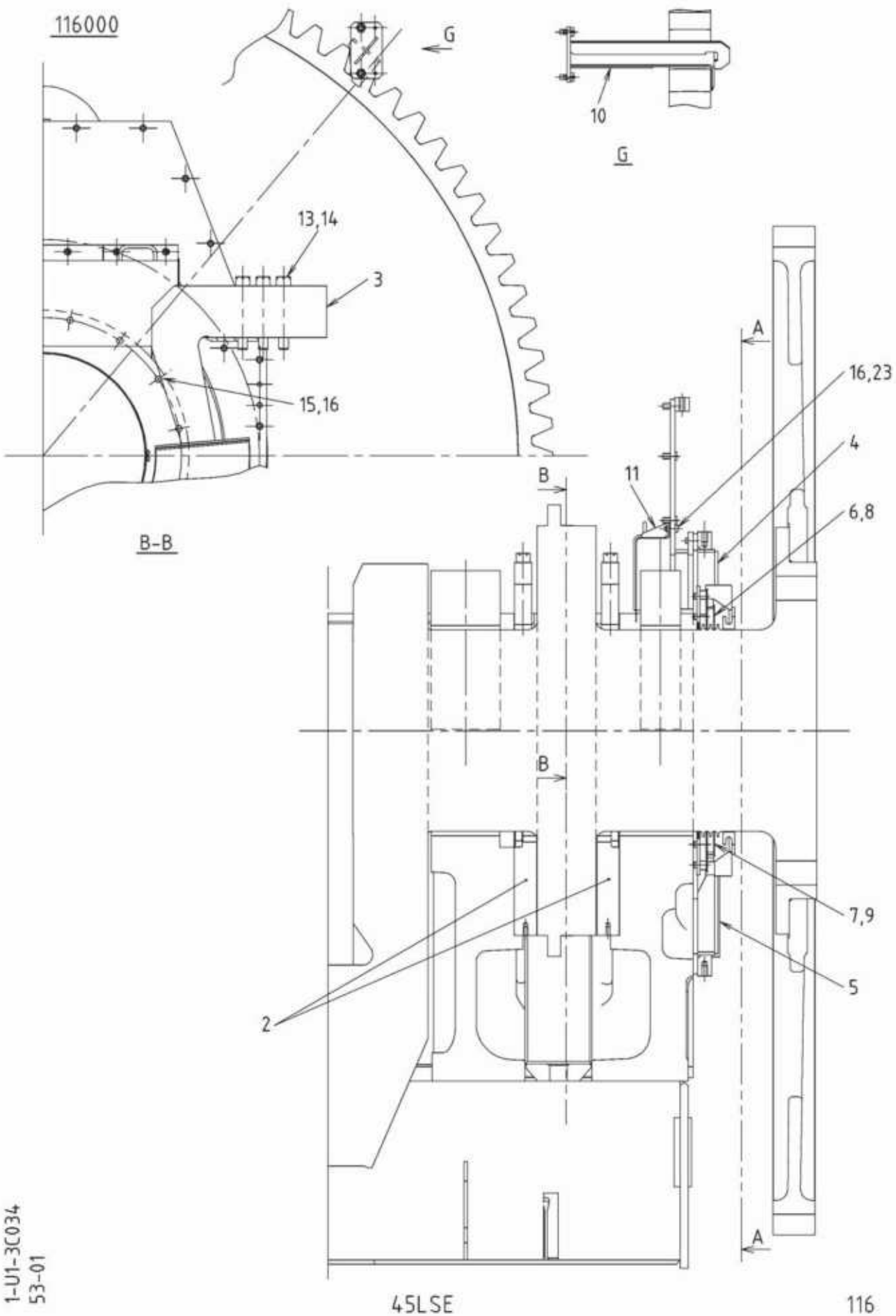
114070



1-K1-2C013 T3
52-06

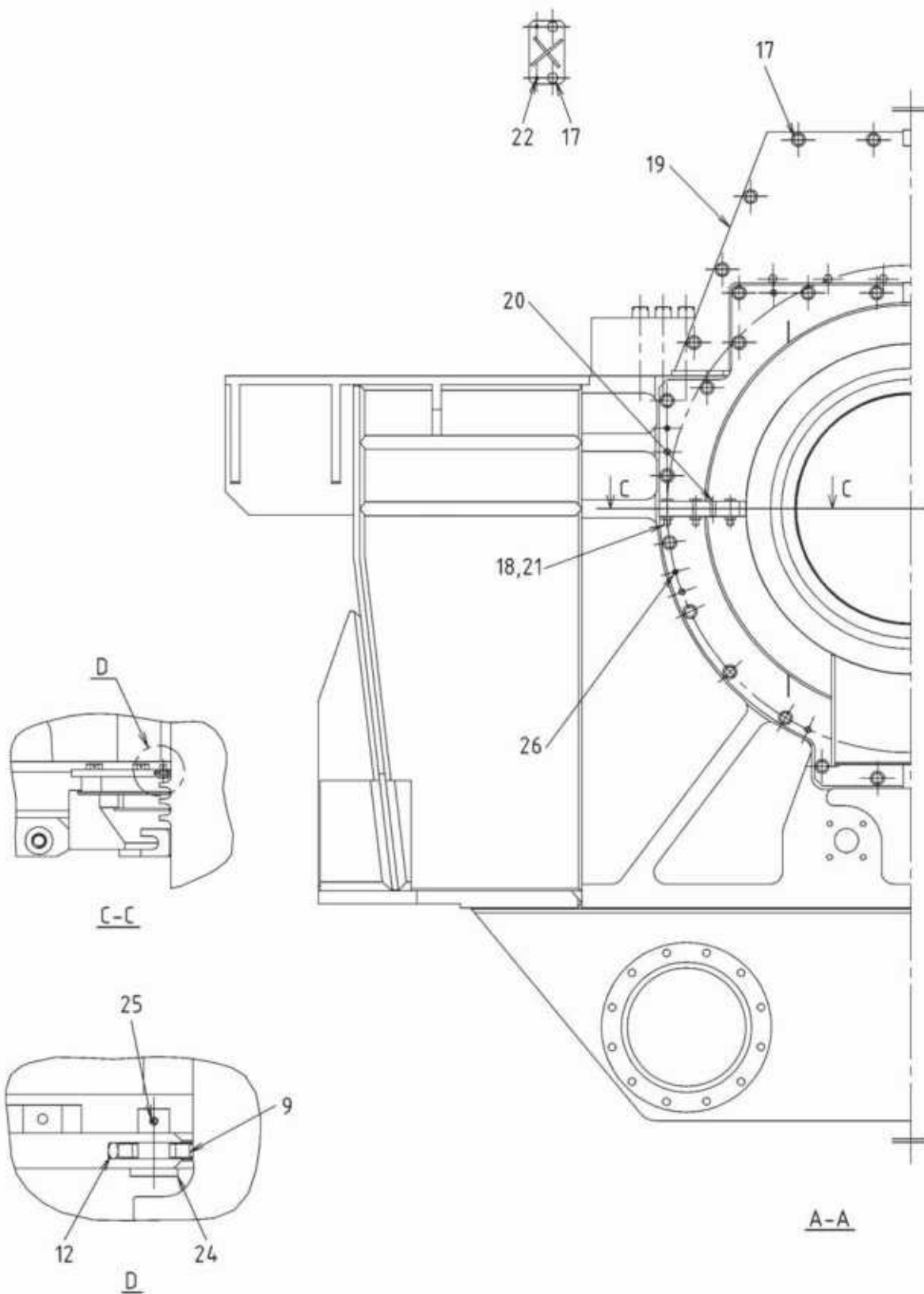
Key No.	Description
114070	Driving end main bearing assembly for main bearing
72	Driving end bearing cap
73	Driving end main bearing metal (Consist of 114081 and 114082)
74	Knock pin
75	Stopper bolt
76	Blind flange
77	Full-face gasket
78	Bolt
79	Double tongued washer
81	Upper metal
82	Lower metal

116 THRUST BEARING



116 THRUST BEARING

116000

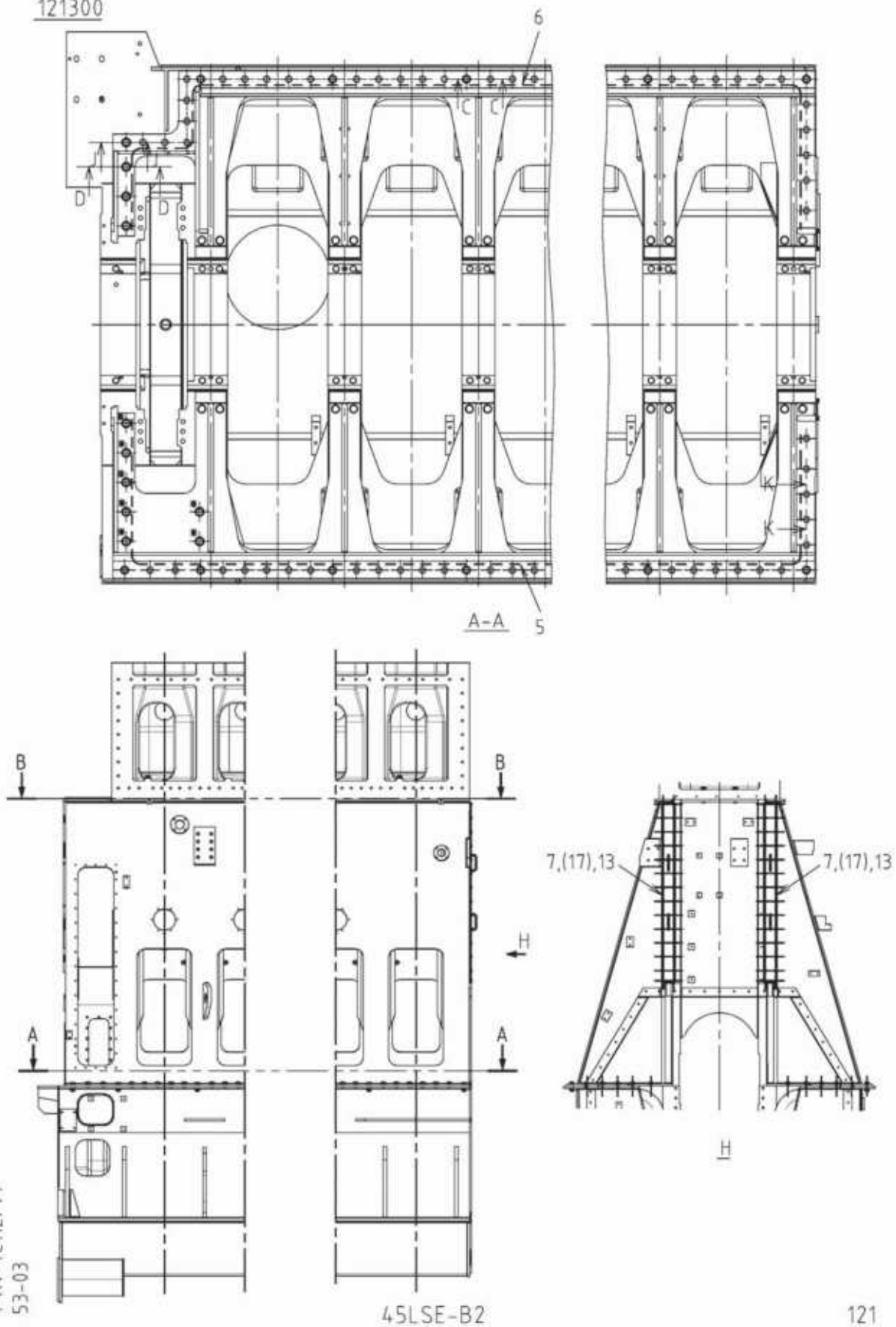


1-U1-3C034
53-01

Key No.	Description
116000	Thrust bearing assembly
2	Thrust pad
3	Thrust pad holder (5,6cyl)
4	End cover (upper)
5	End cover (lower)
6	Oil scraper (upper)
7	Oil scraper (lower)
8	Ring (upper)
9	Ring (lower)
10	Pointer
11	Oil scraper
12	O-ring
13	Hexagon socket head cap screw
14	Wire
15	Hexagon head bolts with wire hole
16	Wire
17	Bolt
18	Bolt
19	Cover
20	Thread end taper pin
21	Nut
22	Thread end taper pin
23	Hexagon head bolts with wire hole
24	Gibheaded pin
25	Split pin
26	Thread end taper pin

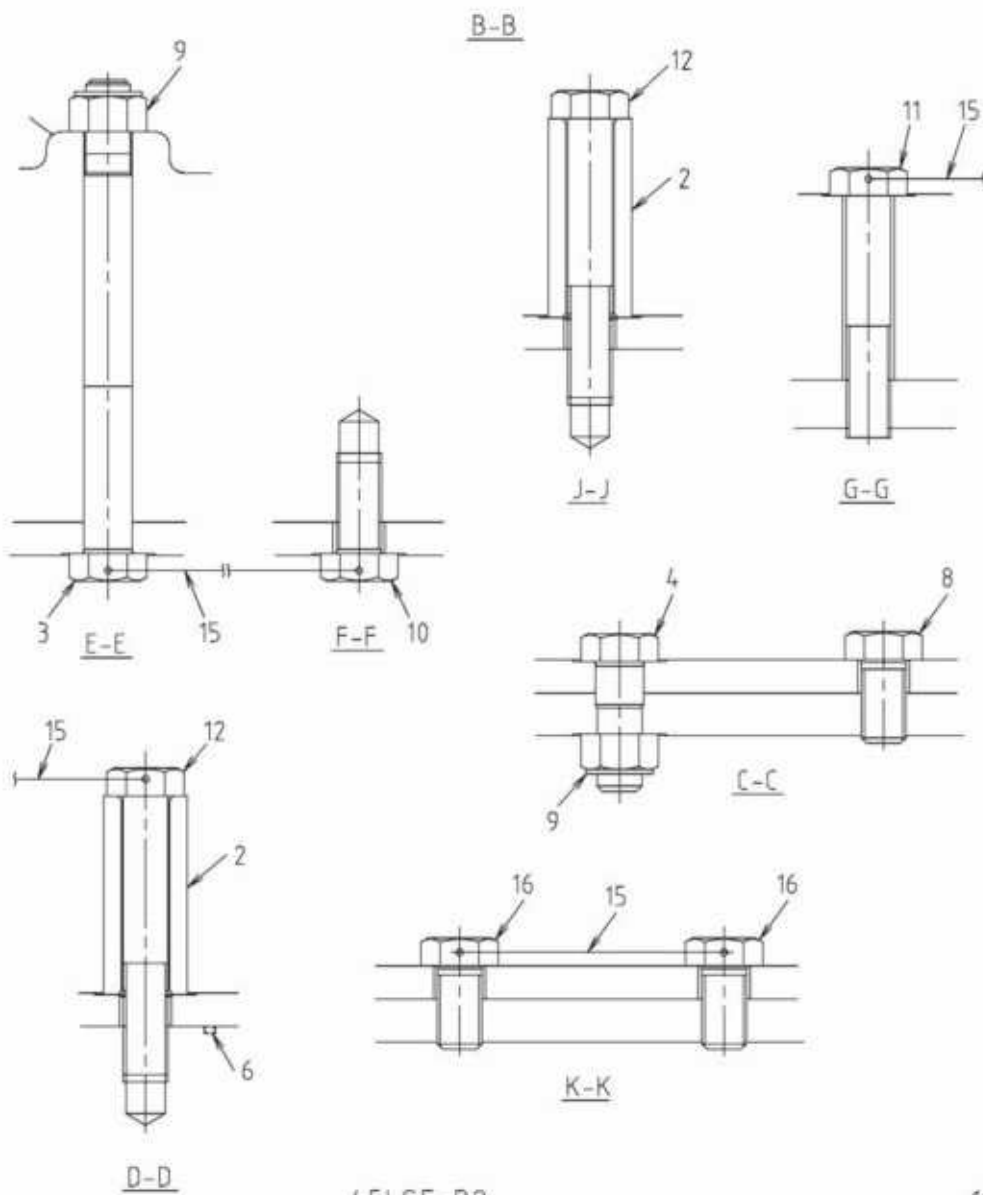
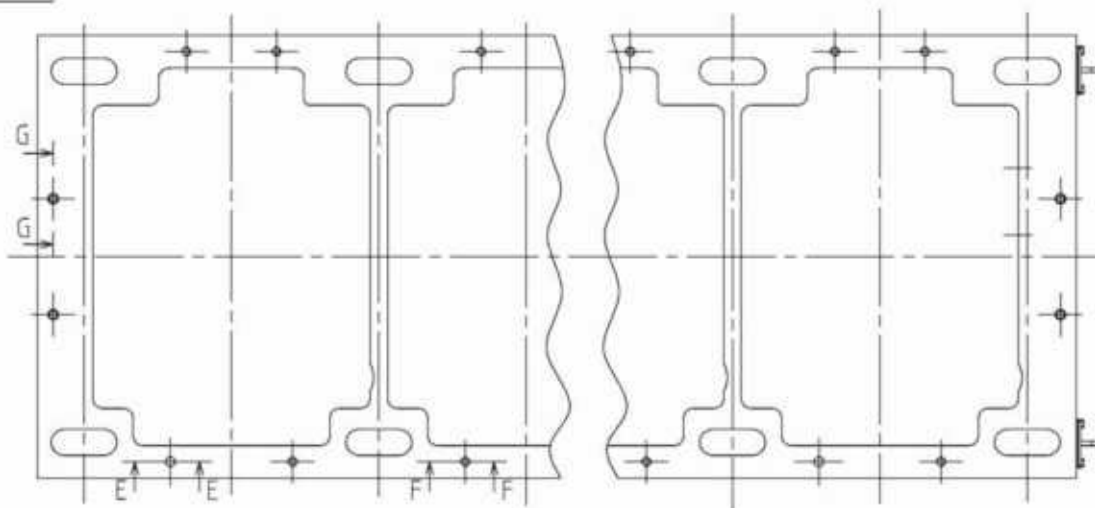
121 COLUMN

121300



121 COLUMN

121300



1-K1-4C112/T1
53-03

45LSE-B2

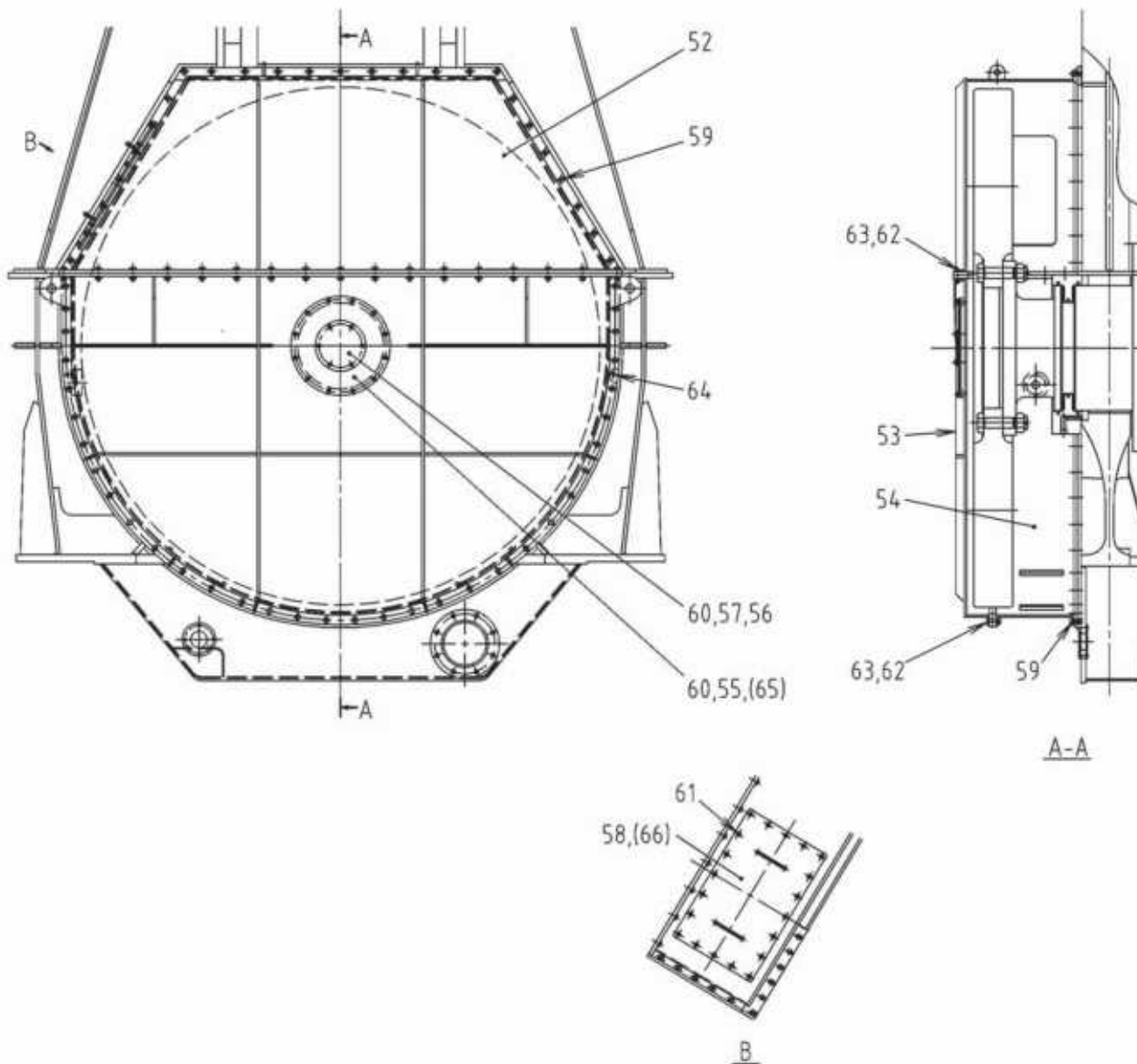
121

Key No.	Description
121300	Column
2	Distance piece
3	Reamer bolt
4	Reamer bolt
5	O-ring
6	O-ring
7	Tie bolt cover (Consist of 121317)
8	Bolt
9	U-nut
10	Bolt
11	Bolt
12	Bolt
13	Bolt
15	Wire
16	Bolt
17	Gasket

1-K1-4C112/T1

121 FREE END COVER

121150

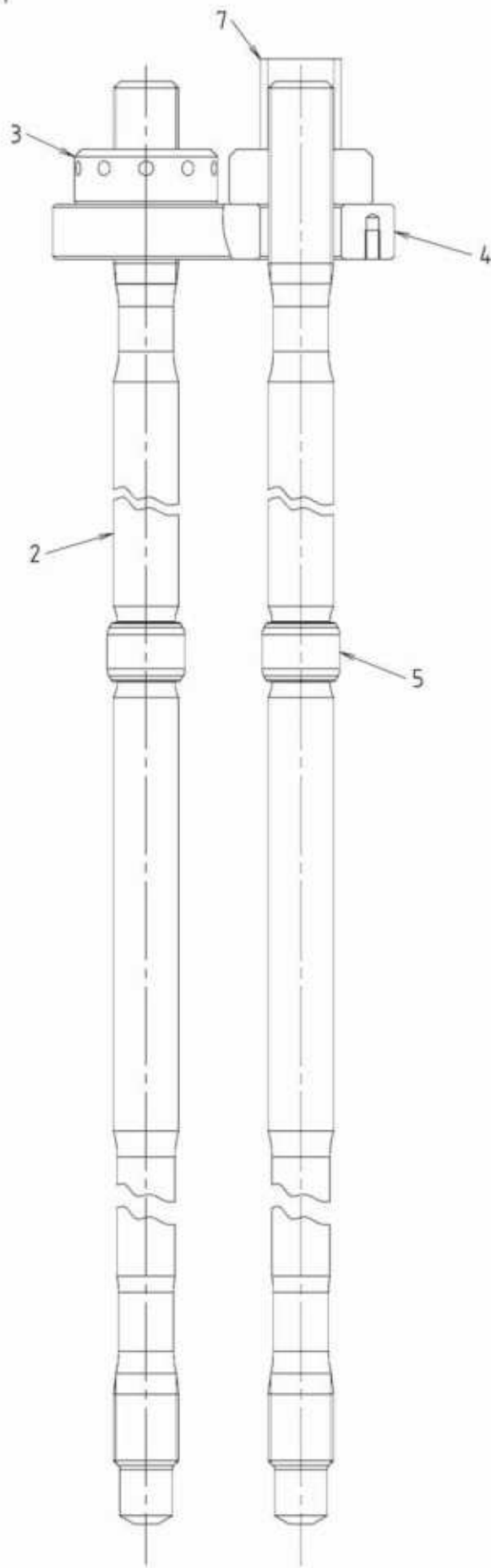


1-K1-4C14:1
53-10

Key No.	Description
121150	Free end cover
52	Free end cover assembly
53	Free end cover assembly
54	Free end cover assembly
55	Cover (Consist of 121165)
56	Blind flange
57	Gasket
58	Cover (Consist of 121166)
59	Bolt
60	Bolt
61	Bolt
62	Bolt
63	Nut
64	Thread end taper pin
65	Gasket
66	Gasket

124 TIE BOLT

124000



1-U1-5C721/T4
54-02

45LSE/-Eco-B2

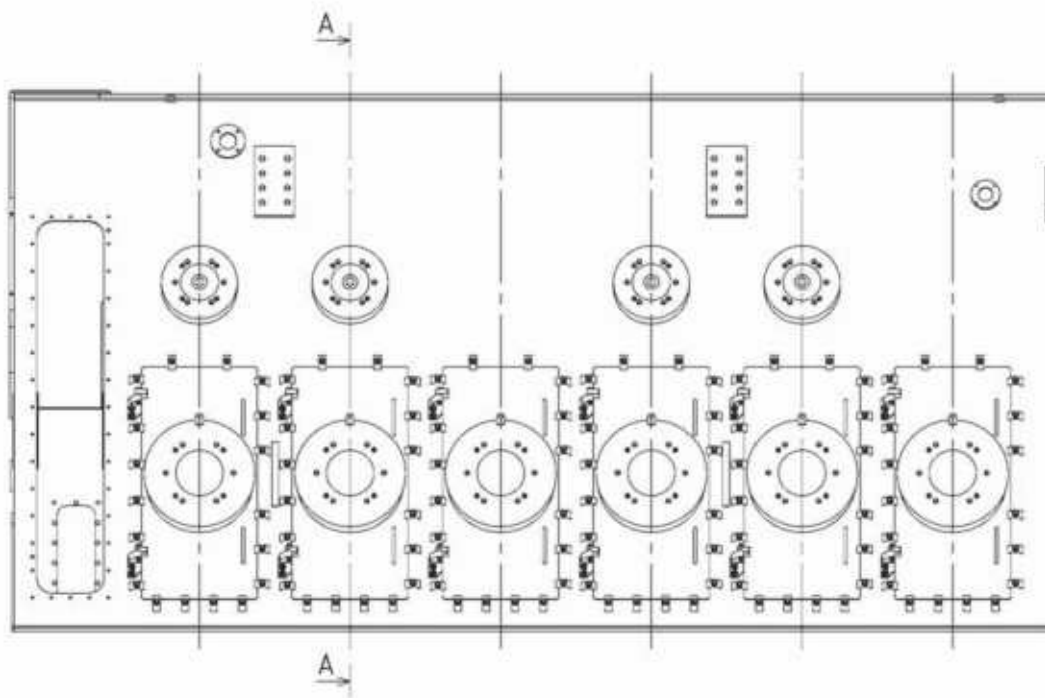
124

Key No.	Description
124000	Tie bolt assembly
2	Tie bolt
3	Nut
4	Upper washer
5	Bush
7	Upper cover

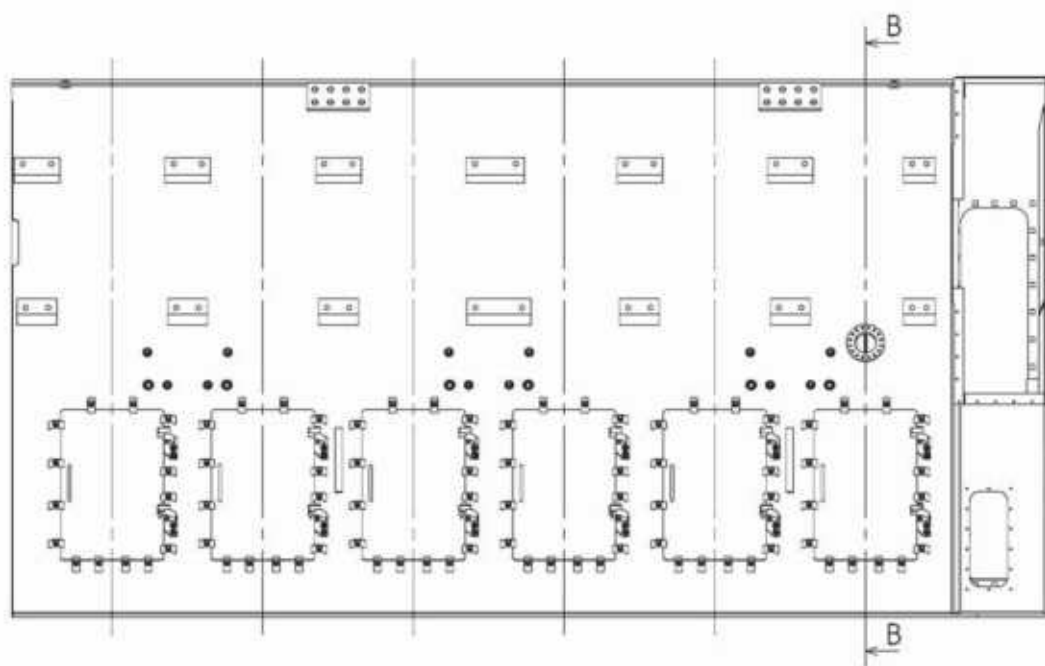
1-U1-5C721/T4

126 COLUMN DOOR AND SAFETY VALVE

126000



Exhaust side

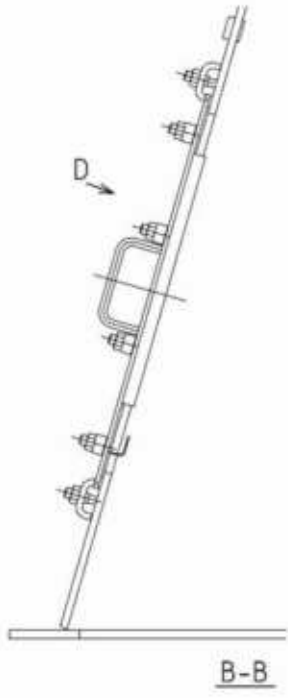
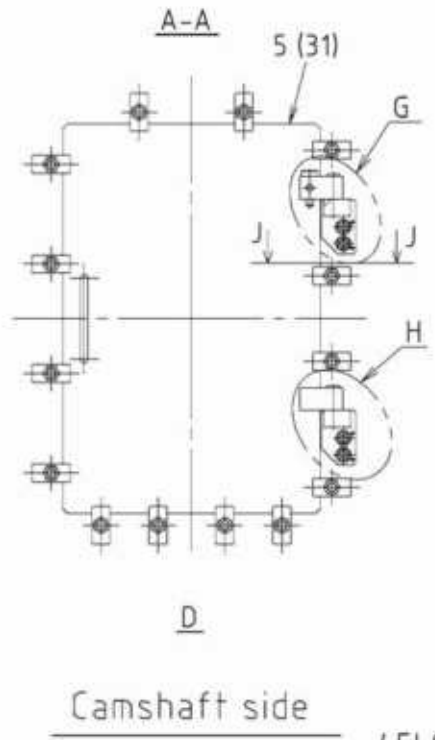
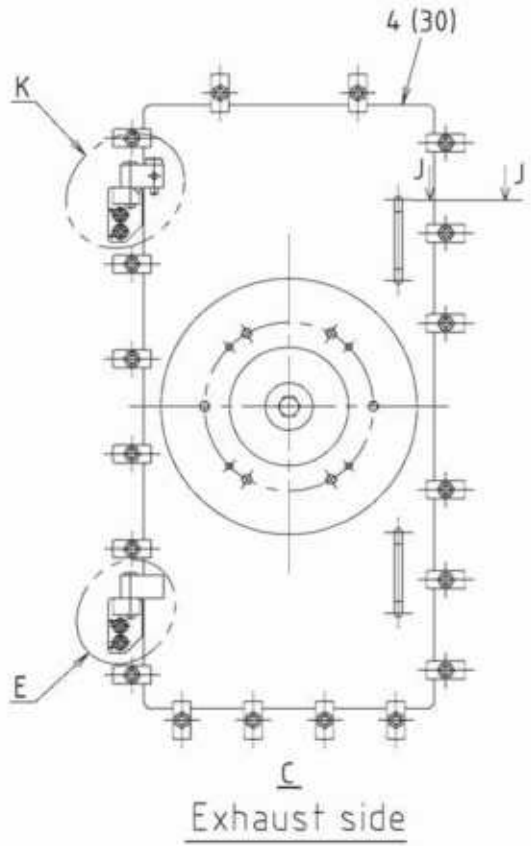
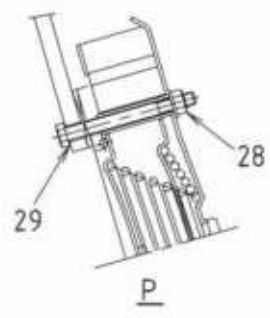
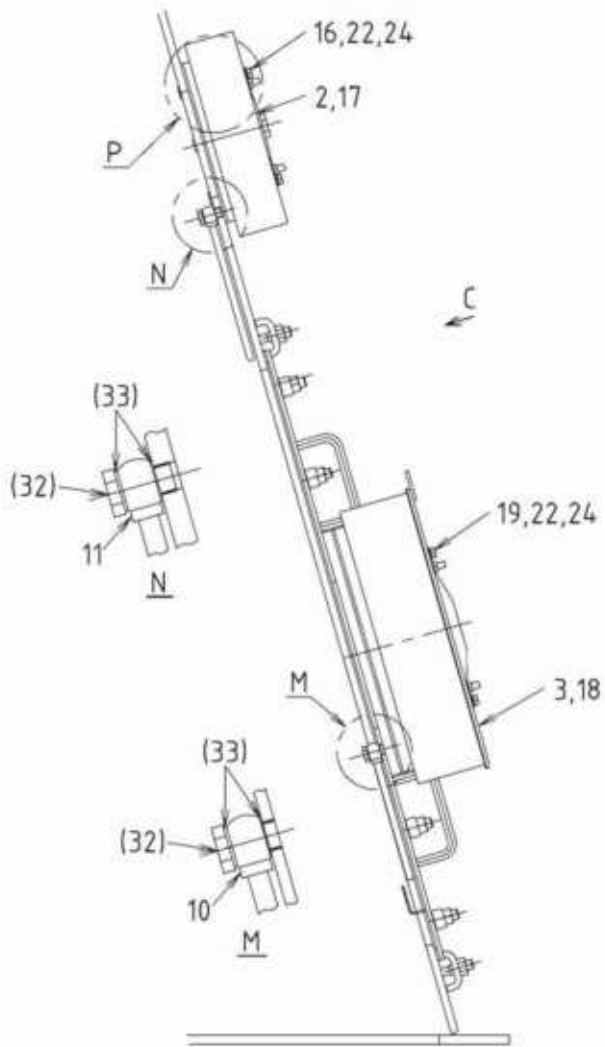


Camshaft side

1-K1-4C097/T1
53-07

126 COLUMN DOOR AND SAFETY VALVE

126000



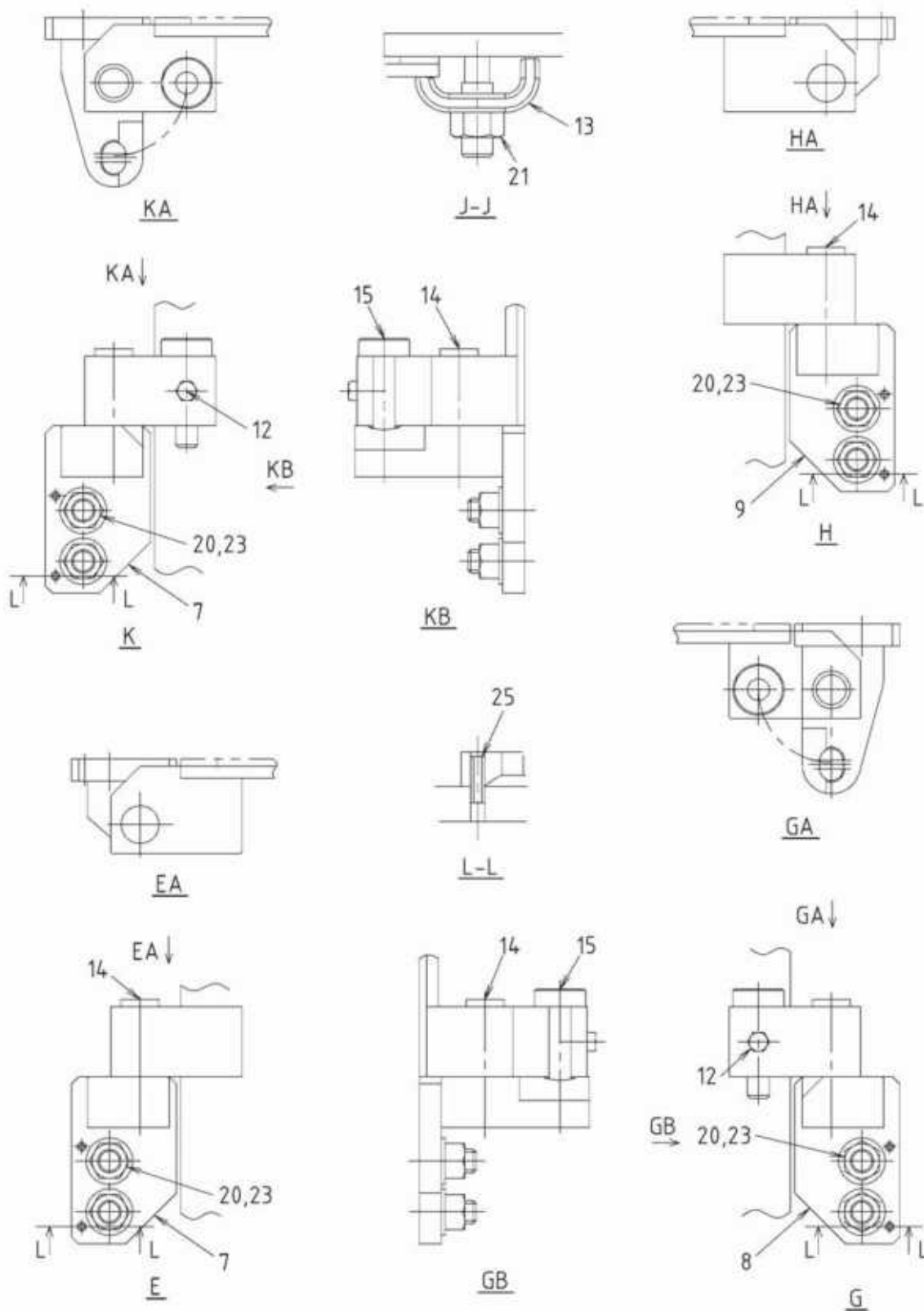
1-K1-4C097/T1
53-07

45LSE-B2

126

126 COLUMN DOOR AND SAFETY VALVE

126000



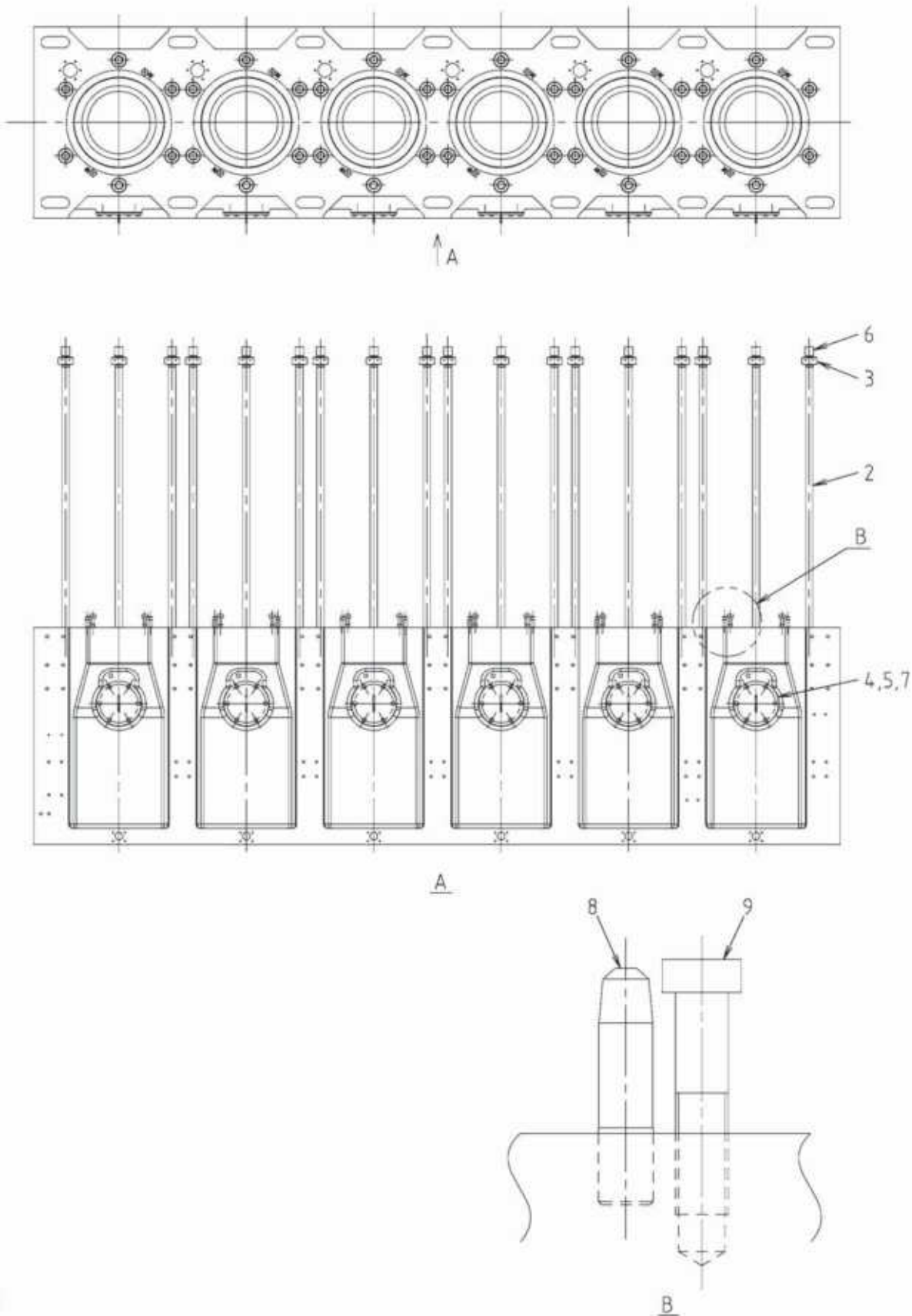
1-K1-4C097/T1
53-07

Key No.	Description
126000	Column door and safety valve
2	Column safety valve
3	Column safety valve
4	Column door (Consist of 126030)
5	Column door (Consist of 126031)
6	Hinge complete
7	Hinge complete
8	Hinge complete
9	Hinge complete
10	Assembly of drain pipe (Consist of 126032,126033)
11	Assembly of drain pipe (Consist of 126032,126033)
12	Stopper screw
13	Stopper
14	Headed pin
15	Headed pin
16	Bolt
17	Gasket
18	Gasket
19	Bolt
20	Nut
21	Nut
22	Plane washer
23	Plane washer
24	Spring washer
25	Spring pin
28	U nut
29	Copper gasket
30	Gasket
31	Gasket
32	Elbow fitting
33	Gasket

1-K1-4C097/T1

132 CYLINDER JACKET

132000



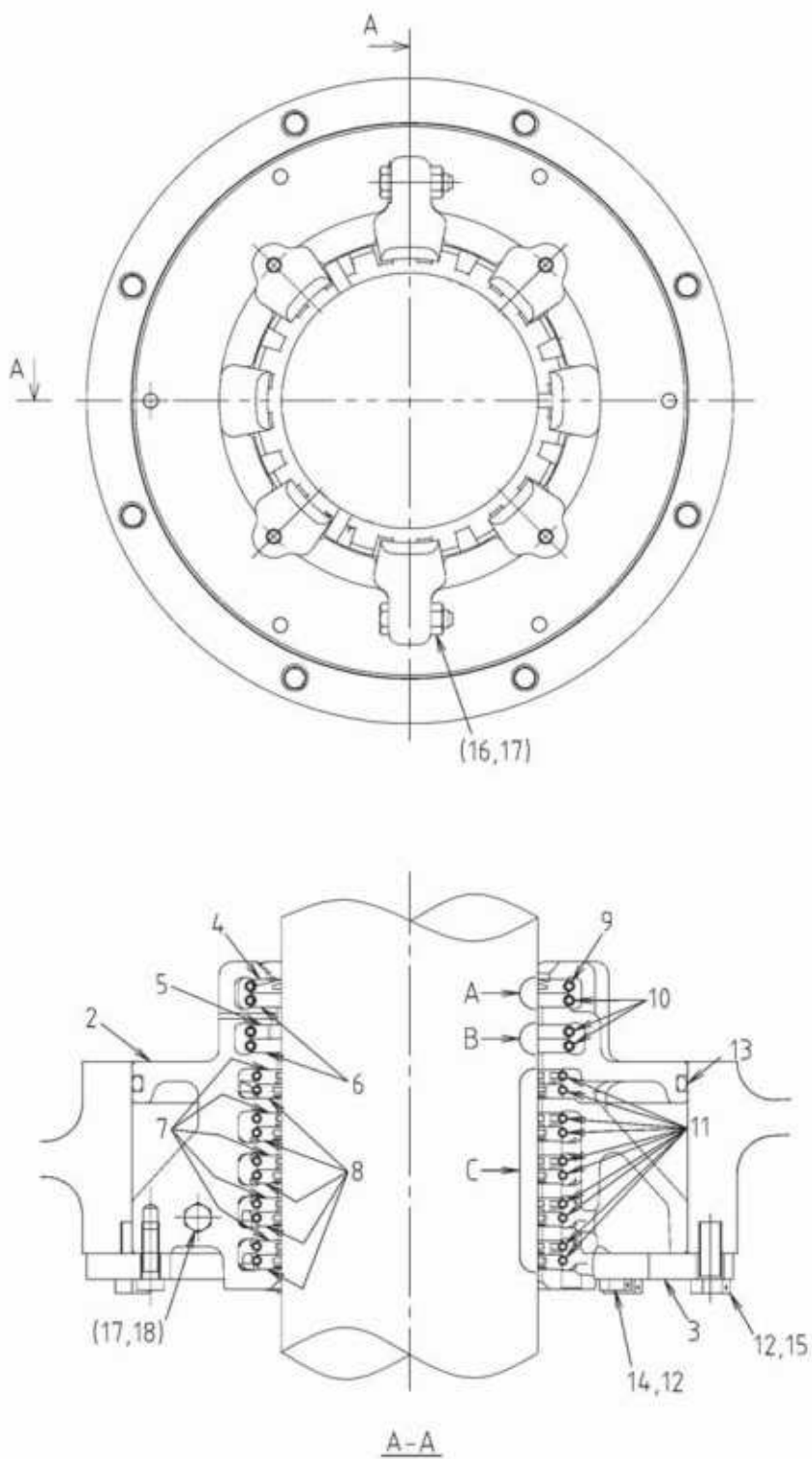
1-U1-5C032/T1
54-01

Key No.	Description
132000	Cylinder jacket
2	Stud bolt
3	Nut
4	Blind cover
5	Gasket
6	Cap
7	Bolt
8	Parallel pin
9	Bolt

1-U1-5C032/T1

133 PISTON ROD STUFFING BOX

133000

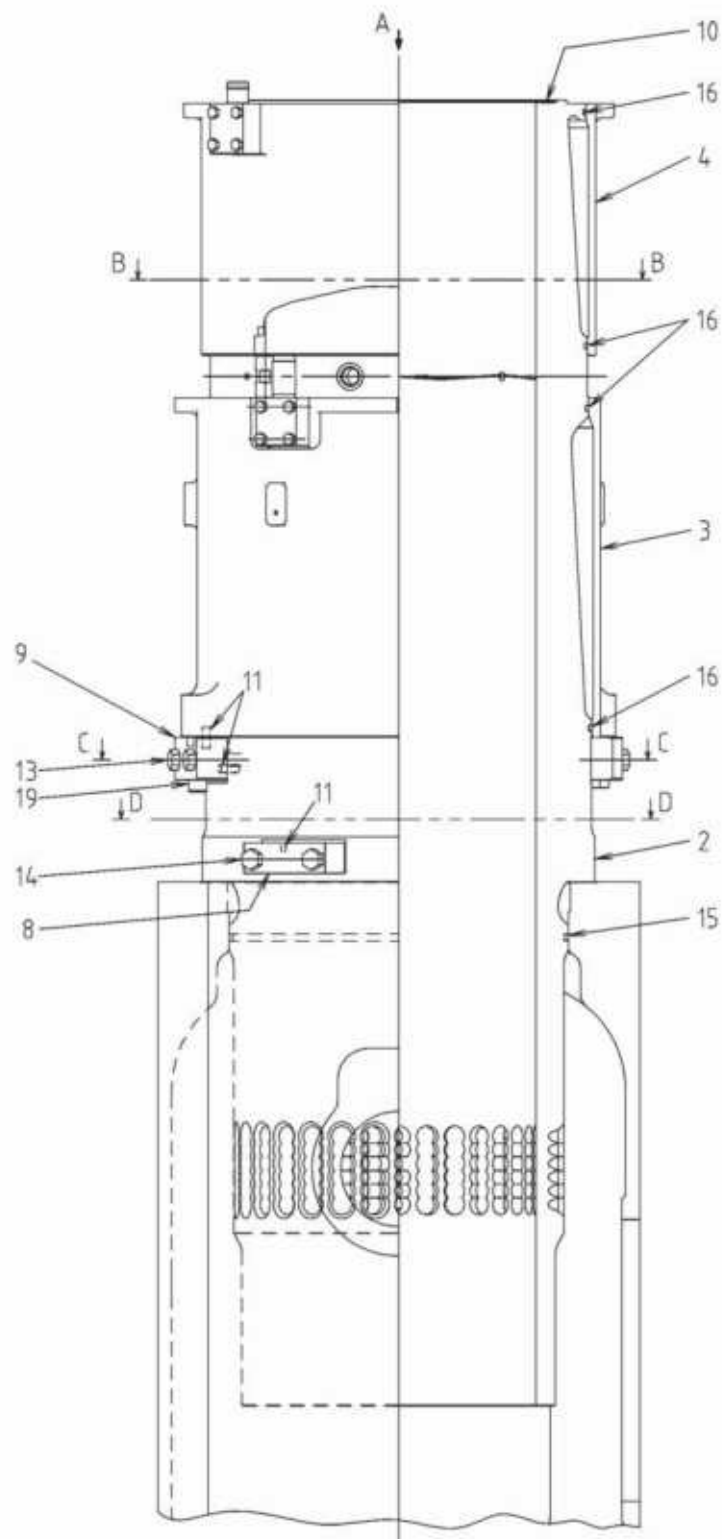
1-K1-8C015/T2
55-01

Key No.	Description
133000	Piston rod stuffing box complete
2	Box body (Consist of 133016~133018)
3	Support
4	Top ring
5	Tight ring
6	Tight ring
7	Oil scraper ring
8	Oil scraper ring
9	Tension spring
10	Tension spring
11	Tension spring
12	Wire
13	O-ring
14	Hexagon head bolts with wire hole
15	Hexagon head bolts with wire hole
16	Reamer bolt
17	U-nut
18	Bolt
	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">Components</div>
A	(4, 6, 9, 10) 1st stage
B	(5, 6, 10) 2nd stage
C	(7, 8, 11) 3rd, 4th, 5th, 6th, 7th stage

1-K1-8C015/TZ

134 CYLINDER LINER

134600



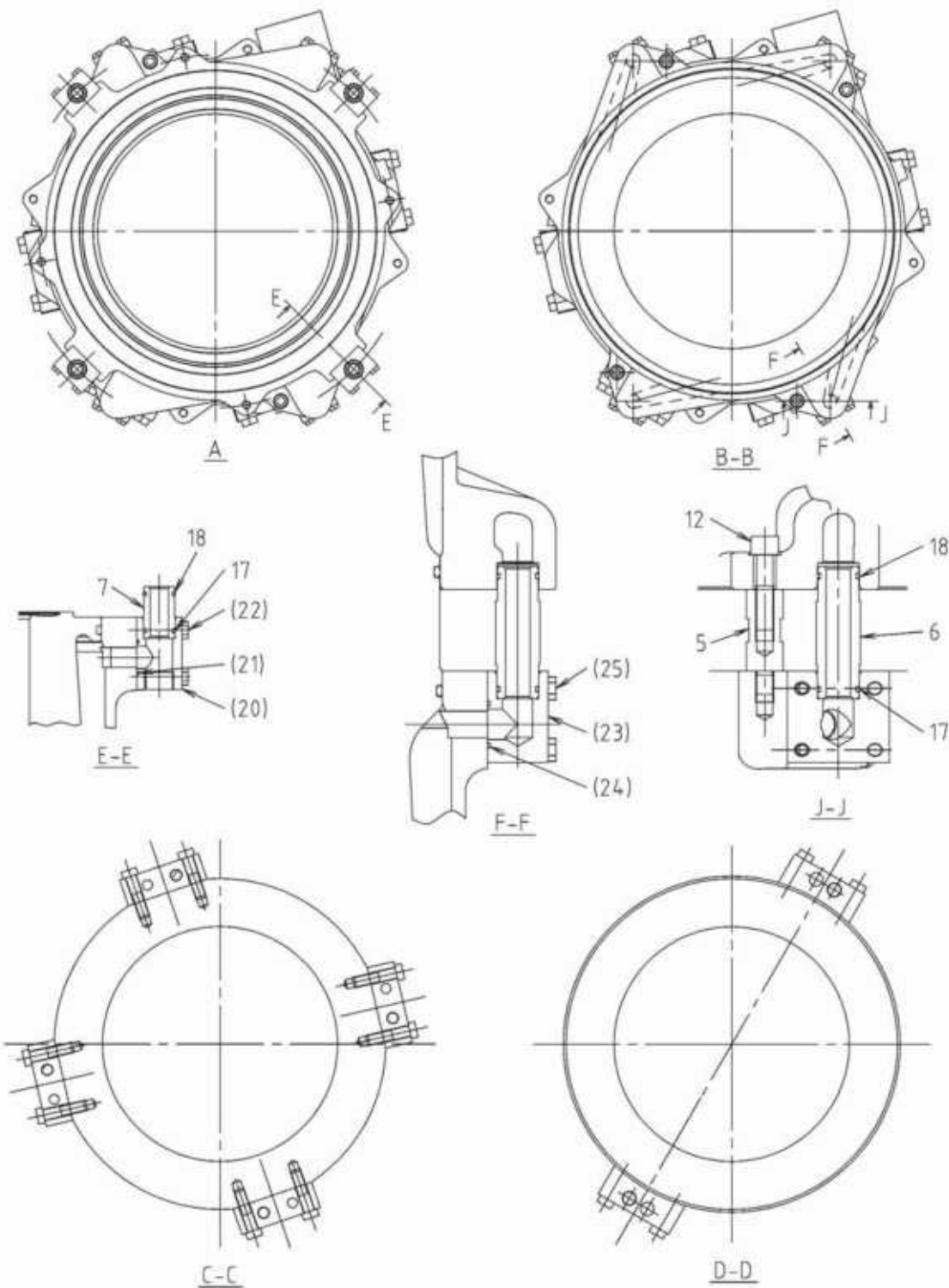
1-K1-6C022 / T7
54-05

45LSE-B2

134

134 CYLINDER LINER

134600



1-K1-6C022 / T7
54-05

45LSE-B2

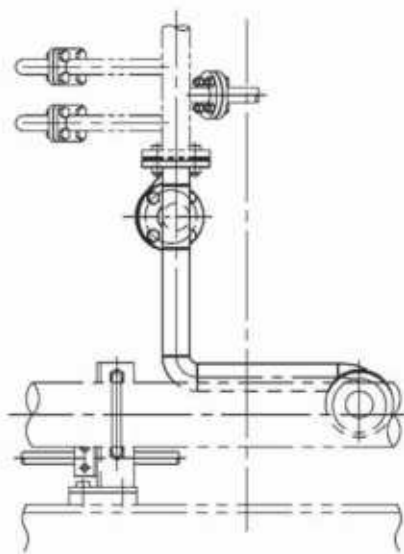
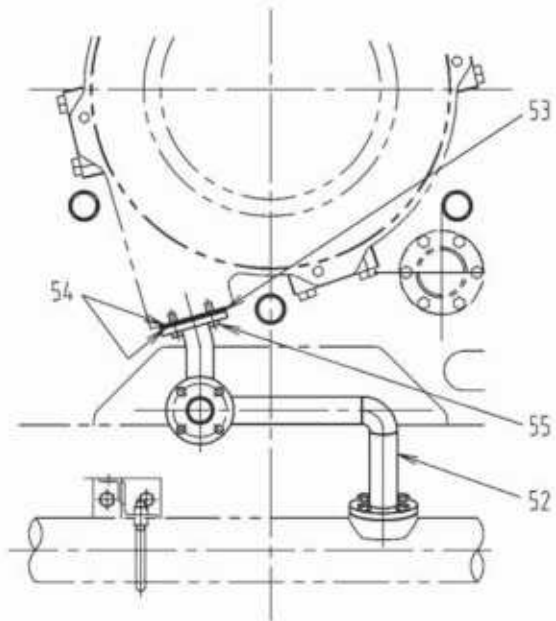
134

Key No.	Description
134600	Cylinder liner assembly
2	Cylinder liner
3	Cooling water jacket (lower) (Consist of 134620~134622)
4	Cooling water jacket (upper) (Consist of 134623~134625)
5	Supporter
6	Cooling water connecting piece
7	Cooling water connecting piece
8	Piece
9	Piece
10	Gasket
11	Parallel pin
12	Hexagon socket head cap screw
13	Bolt
14	Bolt
15	O-ring
16	O-ring
17	O-ring
18	O-ring
19	Hexagon socket head cap screw
20	Joint piece
21	O-ring
22	Bolt
23	Joint piece
24	O-ring
25	Bolt

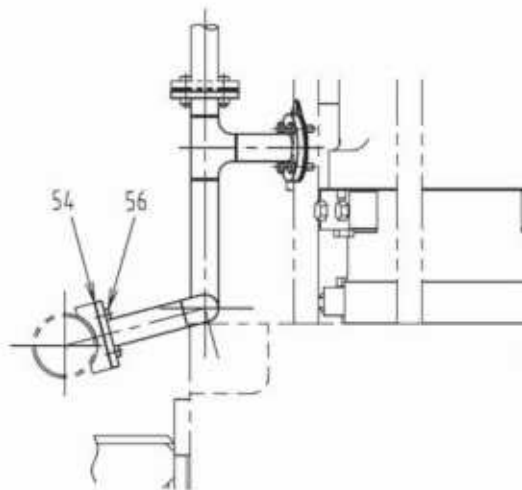
1-K1-6C022/I7

134 INLET BRANCH PIPE OF CYLINDER COOLING WATER

134650



Exhaust side



Free end side

2-K7-4C156/T1
67-05

45LSE-B2

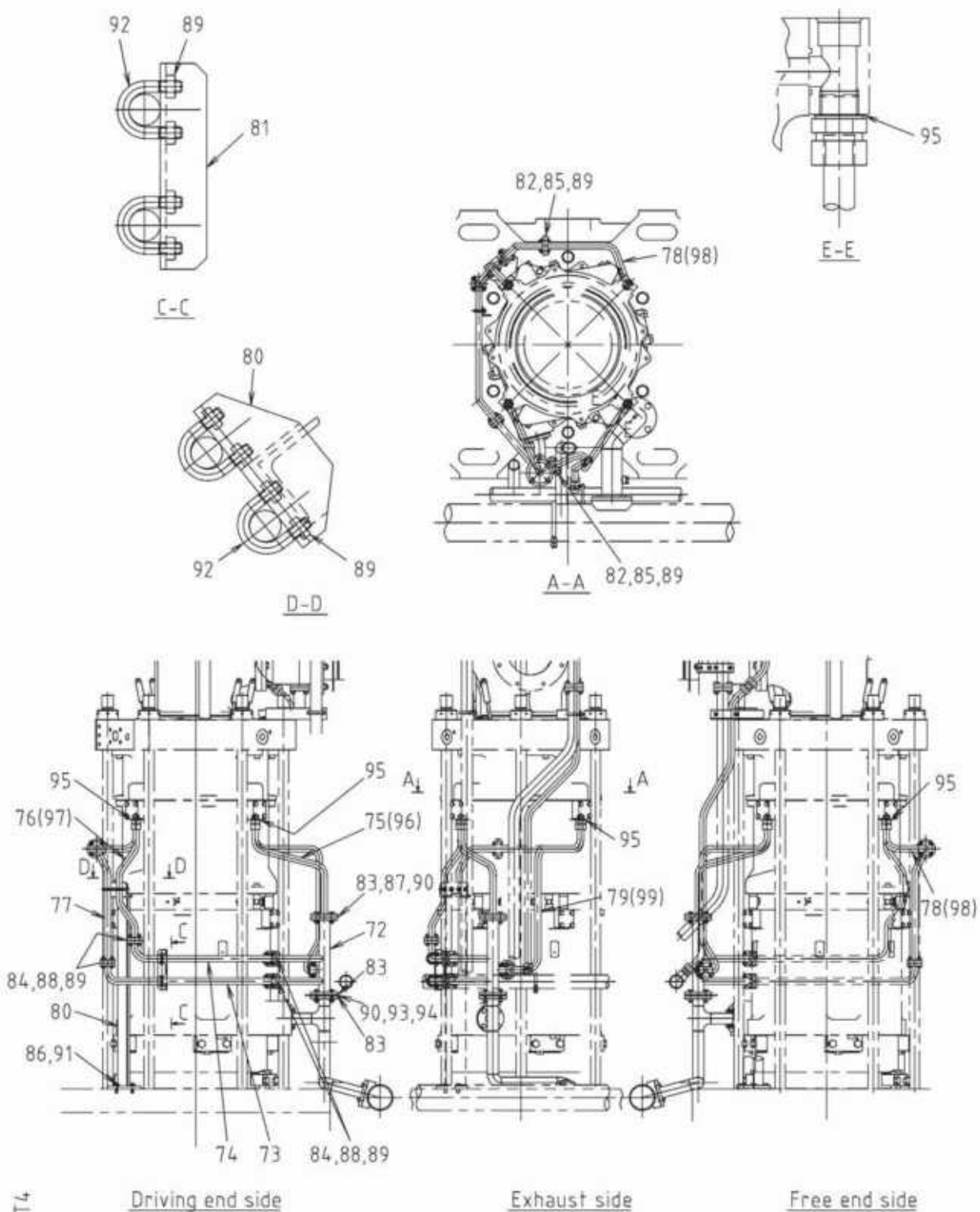
134

Key No.	Description
134650	Inlet branch pipe of cylinder cooling water
52	Pipe
53	Orifice
54	Full-face gasket
55	Bolt
56	Bolt

2-K7-4C156/T1

134 BYPASS PIPE OF CYLINDER COOLING WATER

134670



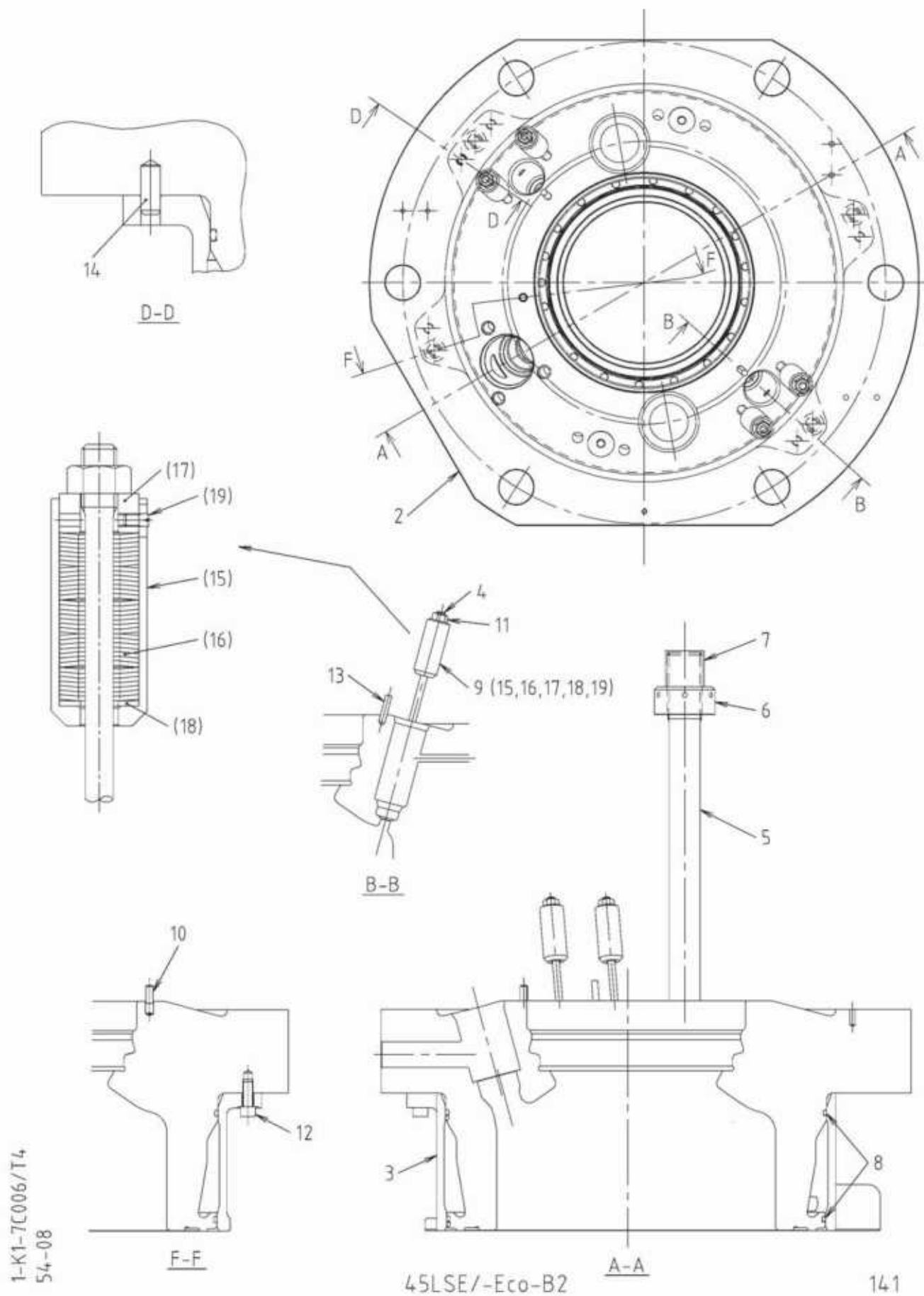
1-U7-4C117/T4
67-05

Key No.	Description
134670	Bypass pipe of cylinder cooling water
72	Pipe
73	Pipe
74	Pipe
75	Pipe (Consist of 134696)
76	Pipe (Consist of 134697)
77	Pipe
78	Pipe (Consist of 134698)
79	Pipe (Consist of 134699)
80	Pipe support
81	Pipe support
82	Full-face gasket
83	Full-face gasket
84	Square gasket
85	Bolt
86	Bolt
87	Bolt
88	Bolt
89	Nut
90	Nut
91	Plain washer
92	U bolt
93	Orifice
94	Bolt
95	Copper gasket
96	Bite type fitt.
97	Bite type fitt.
98	Bite type fitt.
99	Bite type fitt.

1-U7-4C117/T4

141 CYLINDER COVER

141000

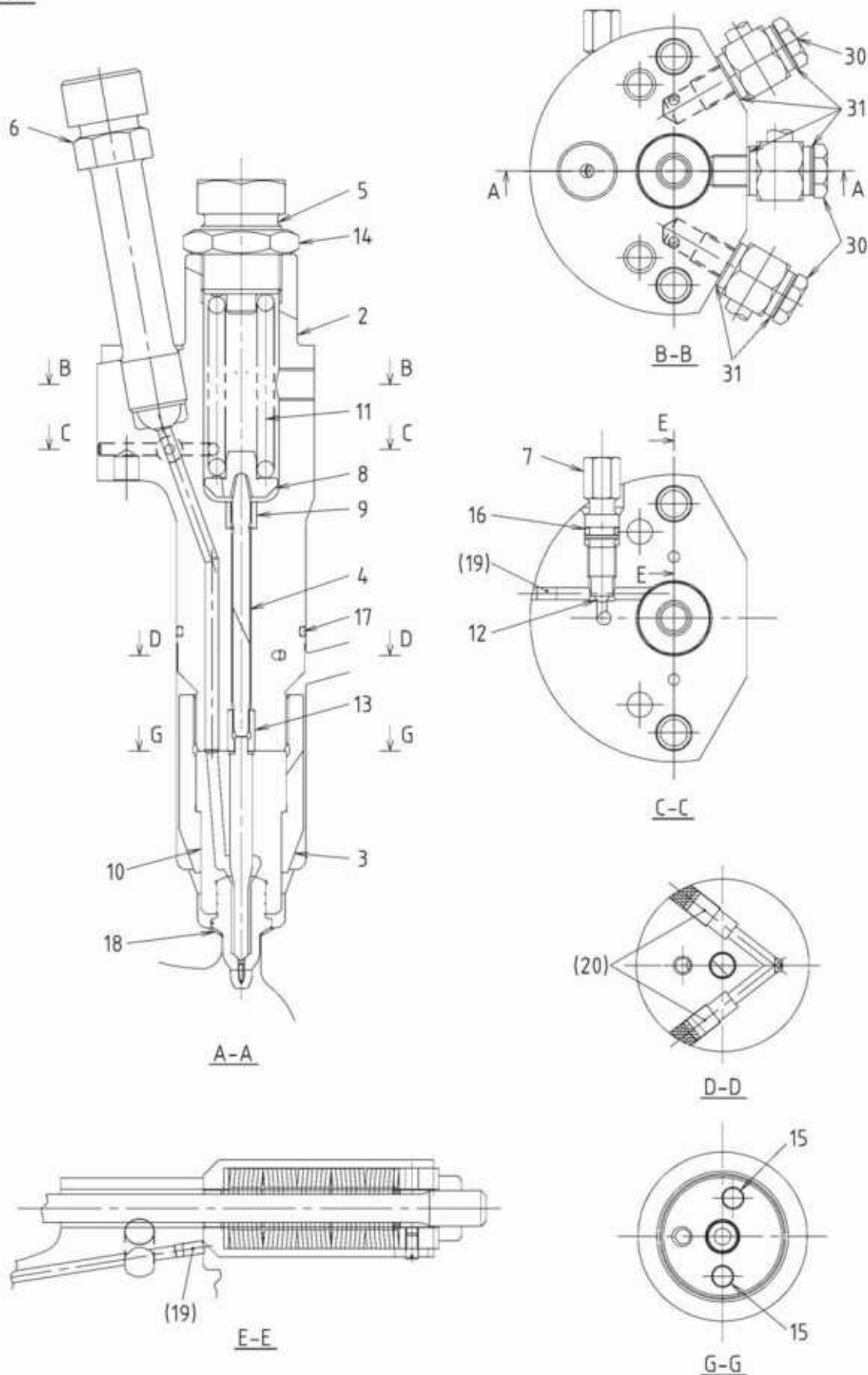


Key No.	Description
141000	Cylinder cover assembly
2	Cylinder cover
3	Cooling water jacket
4	Stud bolt
5	Stud bolt
6	Nut
7	Cap
8	O-ring
9	Spring box assembly (Consist of 141015~141019)
10	Pin
11	Nut
12	Hexagon socket head cap screw
13	Parallel pin
14	Pin (Water guide jacket)
15	Spring box
16	Coned disc spring
17	Washer
18	Washer
19	Slotted set screw

1-K1-7C006/T4

142 FUEL VALVE

142000



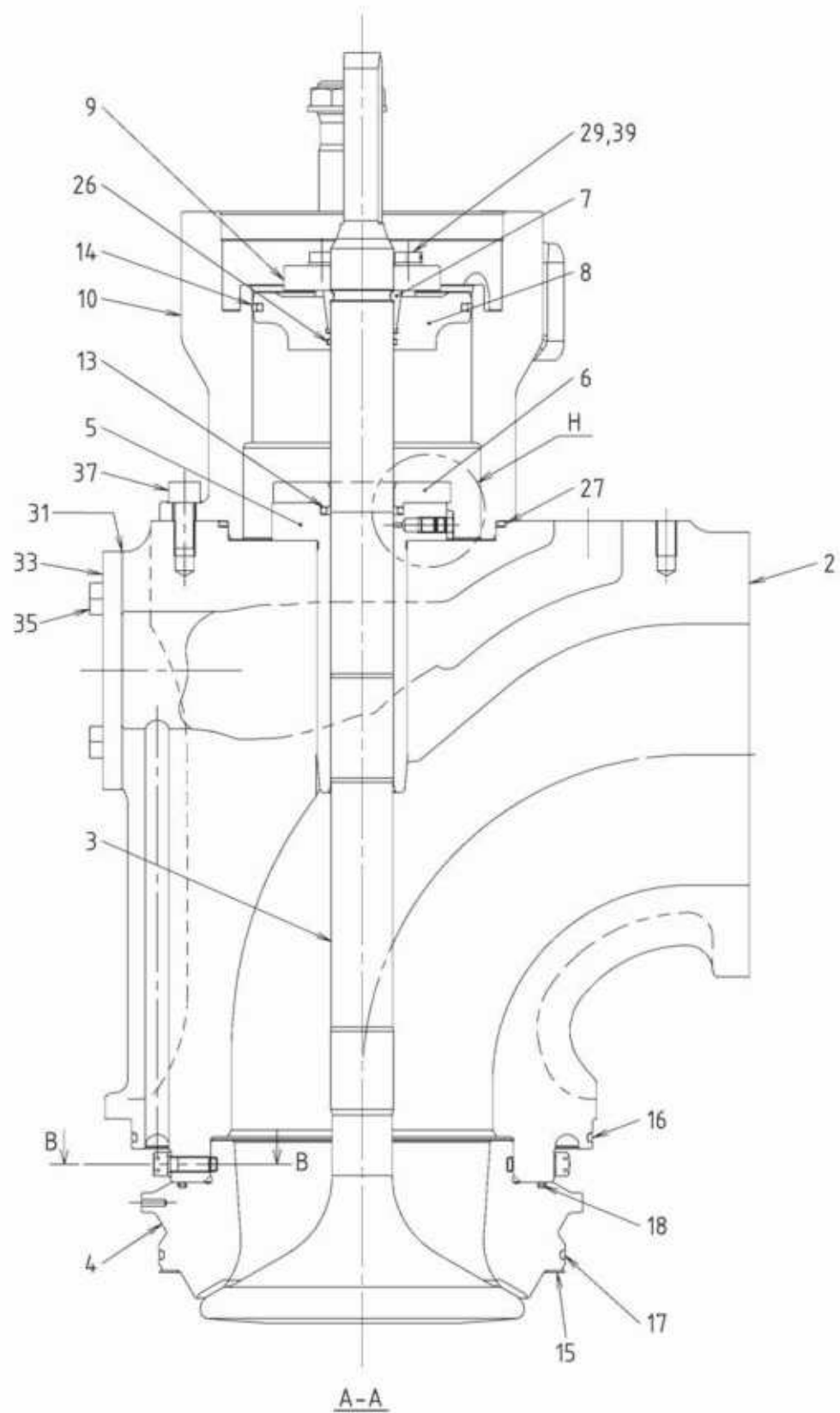
1-U3-5C022/T1, 1-U7-2C121/-, 1-U7-2C183/T1
 57-20 65-09 66-03

Key No.	Description
142000	Fuel valve assembly
2	Nozzle holder (Consist of 142019,142020)
3	Cap nut for nozzle
4	Spindle
5	Adjust bolt
6	Fuel pipe connecting branch
7	Air vent valve
8	Spring retainer (lower)
9	Spindle guide (upper)
10	Nozzle assembly (Consist of fuel valve nozzle, nozzle tip and needle)
11	Spring
12	Steel ball
13	Spindle guide (lower)
14	Nut
15	Pin
16	O-ring
17	O-ring
18	Gasket
19	Headless set screw
20	Plug
30	Terminal bolt
31	Gasket

1-U3-5C022/T1, 1-U7-2C121/-, 1-U7-2C183/T1

143 EXHAUST VALVE

143000



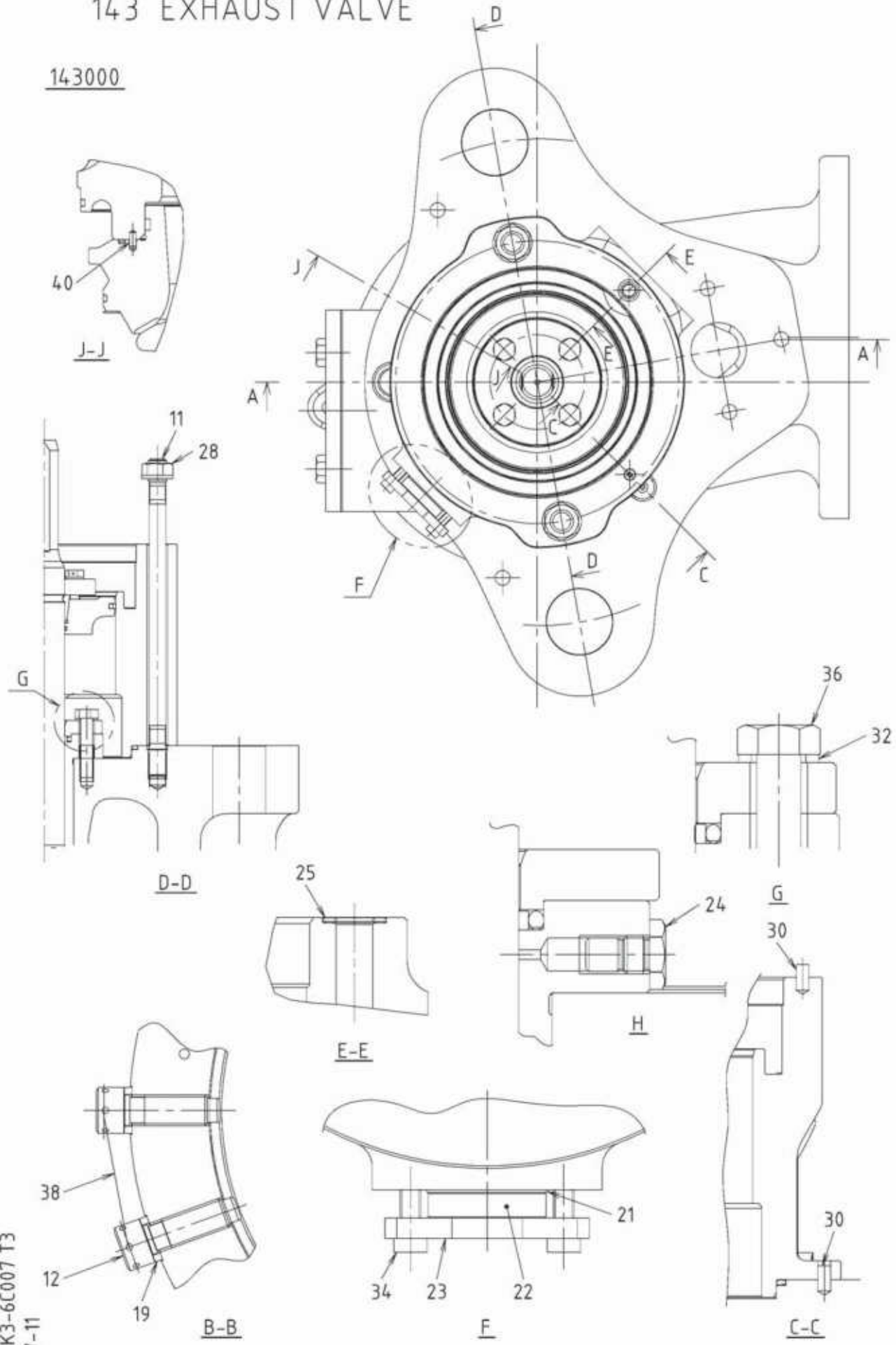
1-K3-6C007 T3
57-11

45LSE

143

143 EXHAUST VALVE

143000



1-K3-6C007 T3
57-11

45LSE

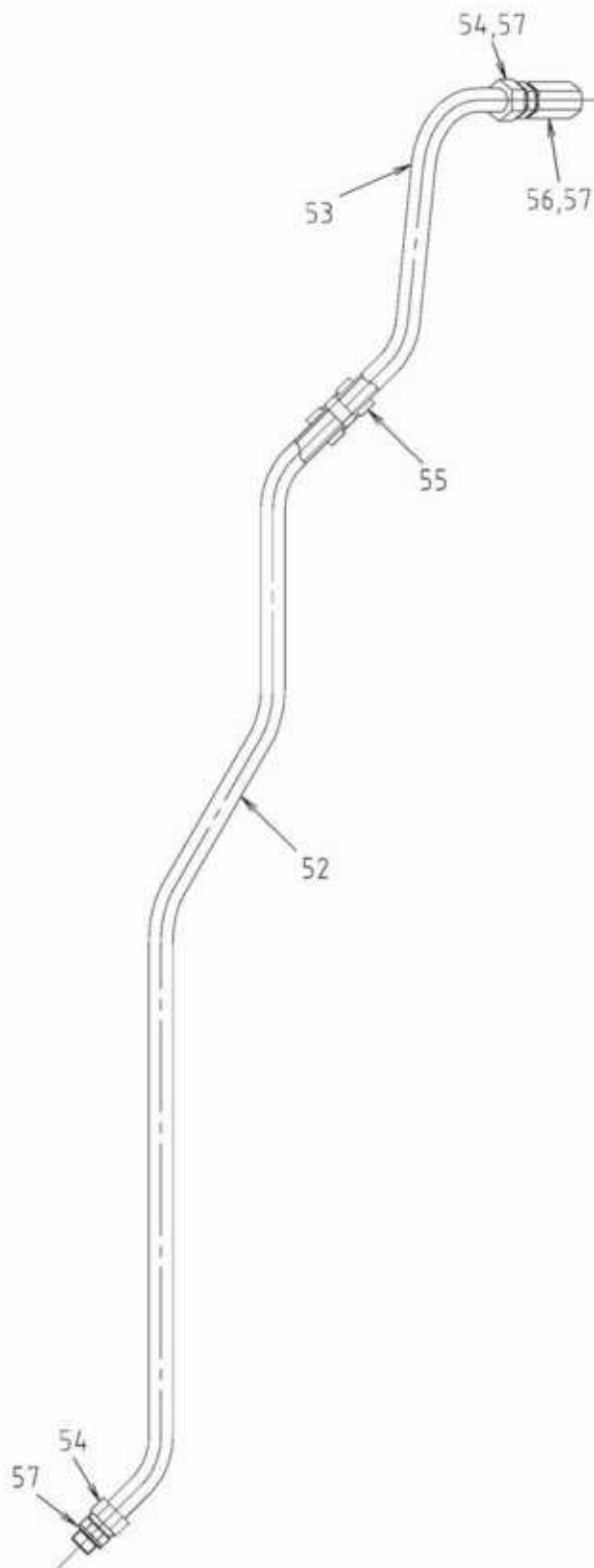
143

Key No.	Description
143000	Exhaust valve assembly
2	Exhaust valve cage
3	Valve stem
4	Valve seat
5	Stem guide
6	Retainer
7	Cotter assembly
8	Air spring piston
9	Retainer
10	Air spring cylinder
11	Stud bolt
12	Special bolt
13	Cap seal
14	Cap seal
15	Gasket
16	O-ring
17	O-ring
18	O-ring
19	Gasket
21	Gasket
22	Sight glass
23	Retainer
24	Throttle piece
25	O-ring
26	O-ring
27	O-ring
28	Washer faced nut
29	Bolts with wire hole
30	Parallel pin
31	Full-face gasket
32	Conical spring washer
33	Blind flange
34	Bolt
35	Bolt
36	Bolt
37	Hexagon socket head cap screw
38	Locking wire

Key No.	Description
143039	Locking wire
40	Spring pin

143 EXHAUST VALVE AIR SPRING PIPE

143050



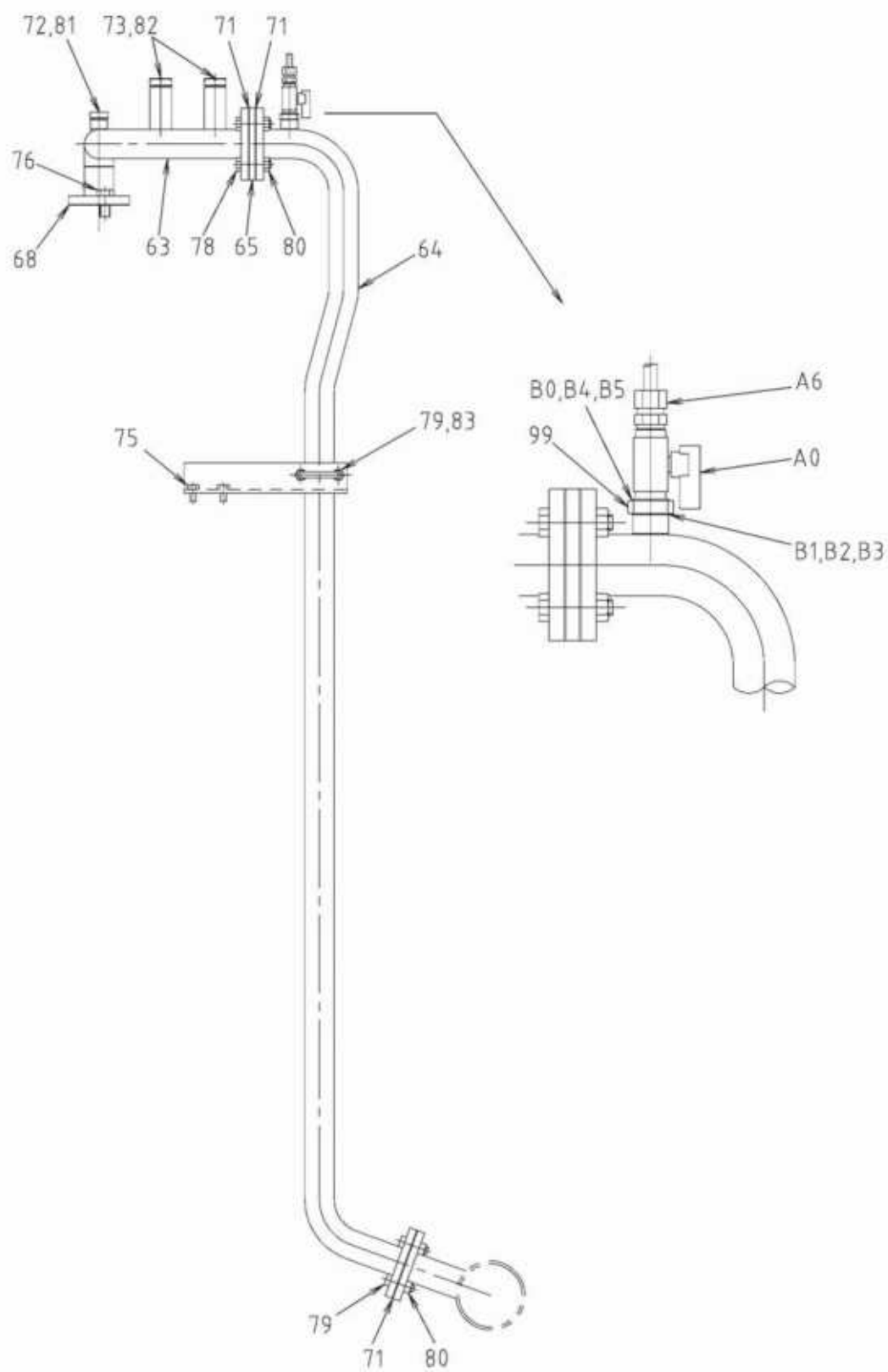
1-U7-1C150/-
69-09

Key No.	Description
143050	Exhaust valve air spring pipe
52	Pipe
53	Pipe
54	Bite type fitt.
55	Bite type fitt.
56	Orifice
57	Copper gasket

1-U7-1C150/-

143 OUT BRANCH PIPE OF CYLINDER COOLING WATER

143160



1-U7-4C139/T3 , 1-U7-4C137/T1
67-05 67-05

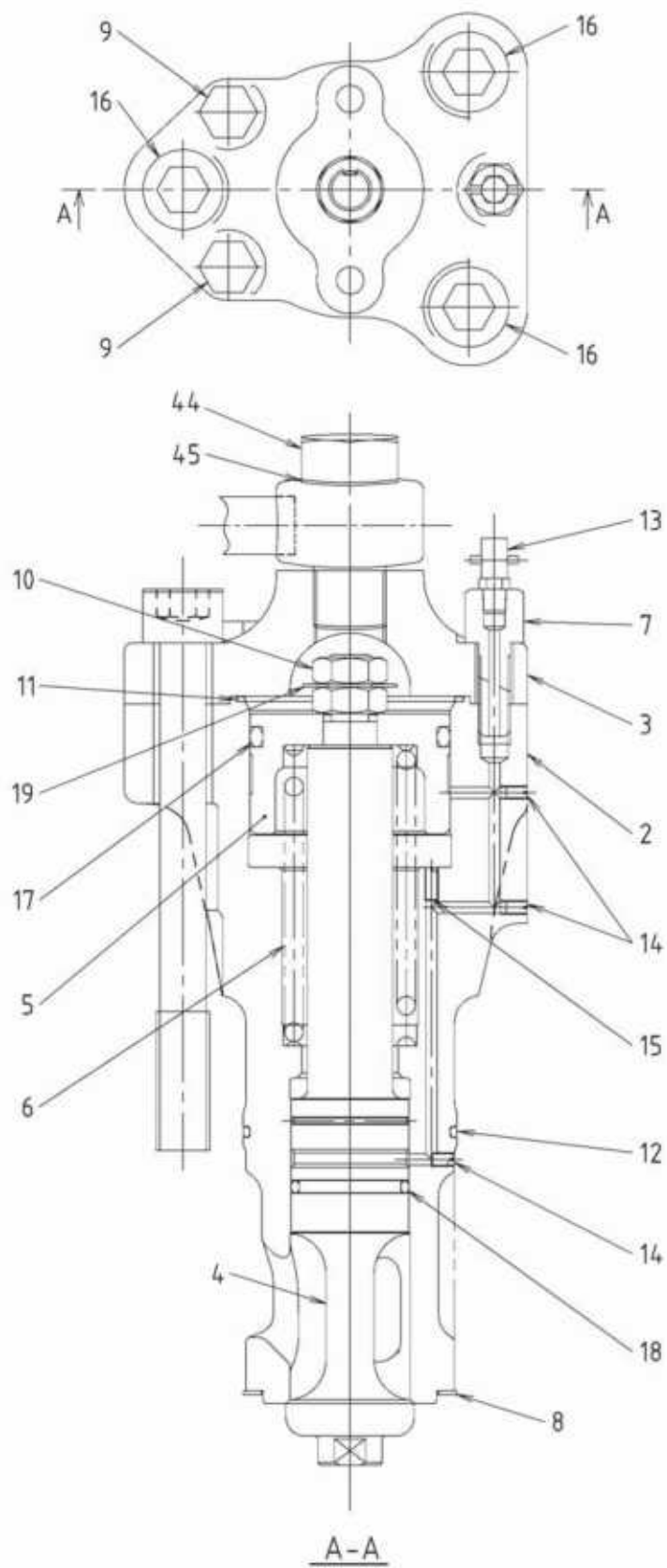
45LSE/-Eco-B2

143

Key No.	Description
143160	Out branch pipe of cylinder cooling water
63	Pipe
64	Pipe
65	Orifice
68	Special gasket
71	Full-face gasket
72	Copper gasket
73	Copper gasket
75	Bolt
76	Bolt
77	Bolt
78	Bolt
79	Nut
80	Nut
81	Plug
82	Plug
83	U bolt
143199	Nipple
A0	Ball valve
A6	Bite type fitt.
B0	Copper gasket
B1	Copper gasket
B2	Copper gasket
B3	Copper gasket
B4	Copper gasket
B5	Copper gasket

1-U7-4C139/T3, 1-U7-4C137/T1

144 STARTING AIR VALVE

144000

1-U3-4C001 T1 / 2-U7-1C104 T1
57-09 65-07

45LSE

144

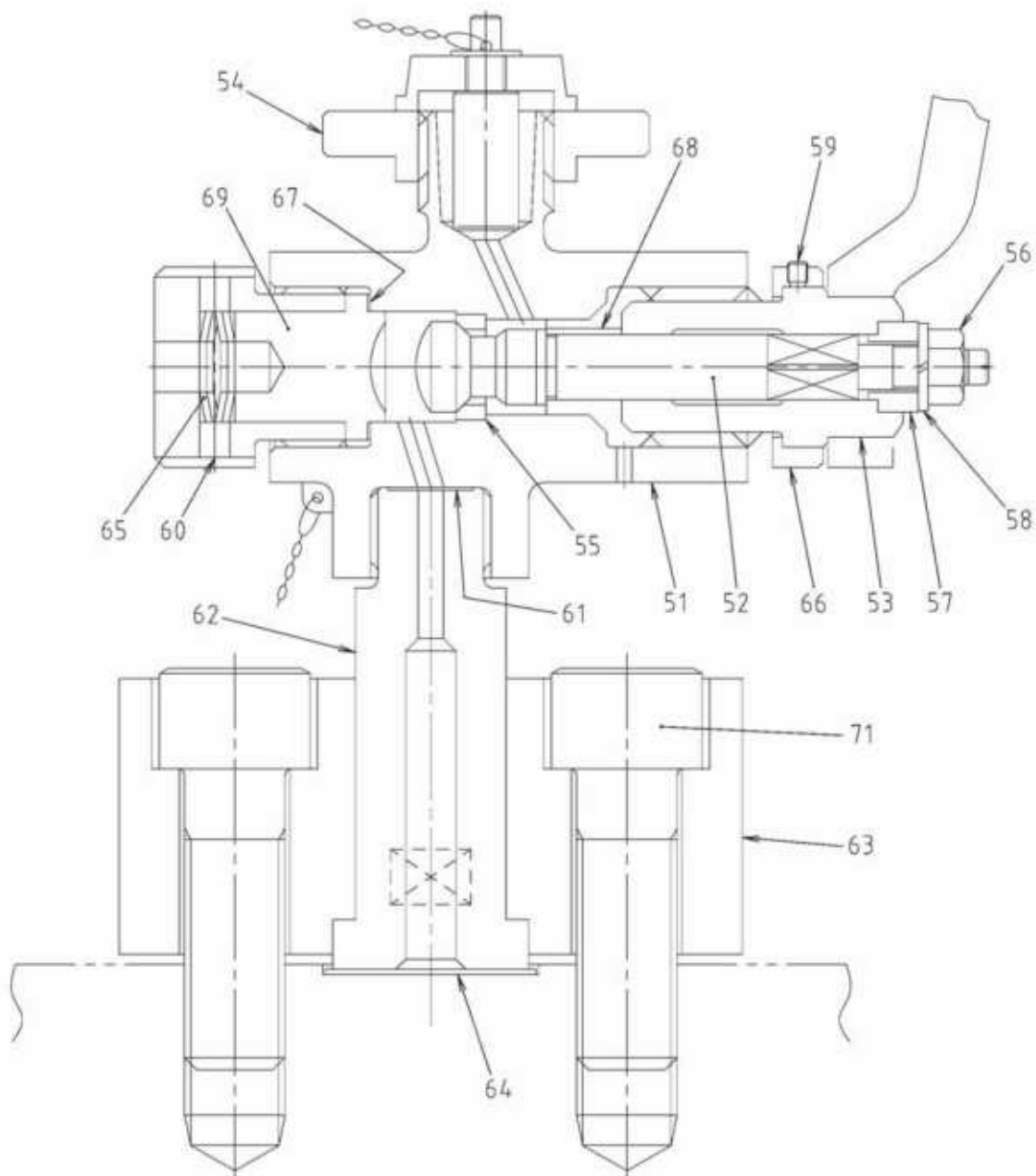
Key No.	Description
144000	Starting air valve assembly
2	Housing
3	Cover
4	Valve stem
5	Piston
6	Spring
7	Special bolt
8	Gasket
9	Bolt
10	Nut
11	O-ring
12	O-ring
13	Grease nipple
14	Slotted set screw
15	Slotted set screw
16	Hexagon socket head cap screw
17	O-ring
18	O-ring
19	Claw washer
44	Bolt
45	Copper gasket

Key No.	Description
145000	Cylinder safety valve assembly
4	Connecting piece
5	Spindle guide
6	Casing
7	Spindle
8	Spring
9	Lock nut
10	Valve
11	Support
12	Gasket
13	Valve seat
14	Gasket
15	Socket head cap bolt

2-K3-7C001/T2

146 INDICATOR VALVE

146000



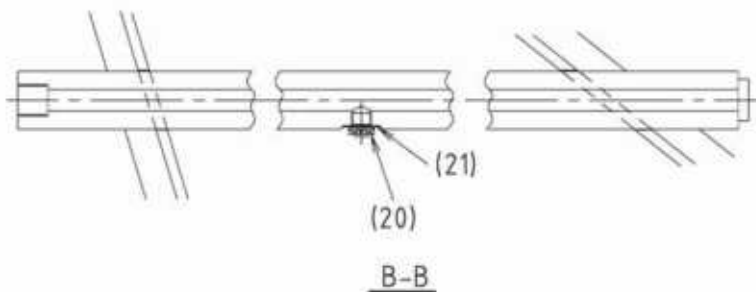
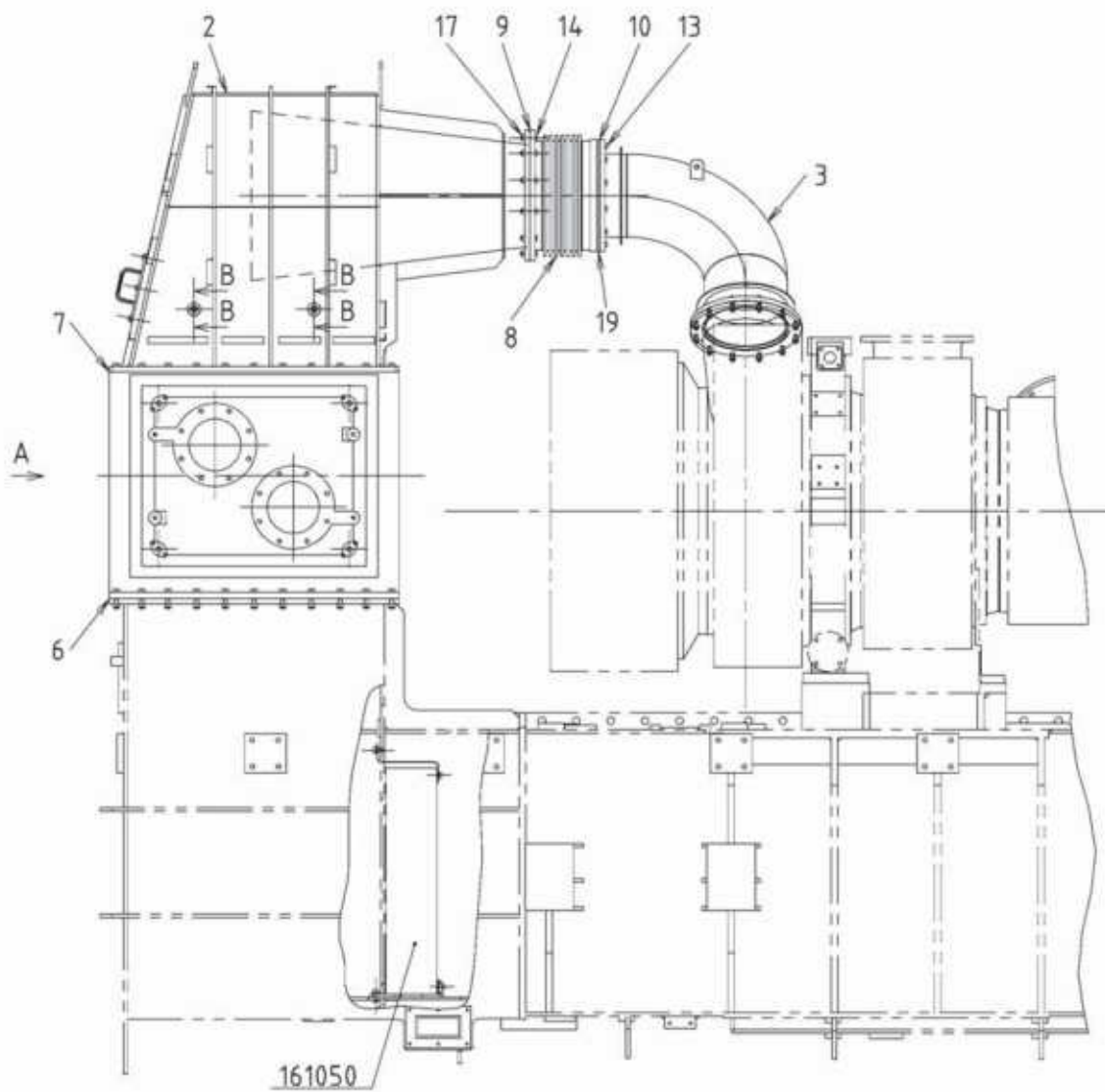
3-U3-71501/T2
58-02

Key No.	Description
146000	Indicator valve assembly
51	Valve body
52	Spindle
53	Spindle guide
54	Cap with chain
55	Valve seat
56	Nut
57	Washer
58	Spring washer
59	Set screw
60	Plug
61	Gasket
62	Connecting piece
63	Support
64	Gasket
65	Conical spring
66	Indication disk
67	Gasket
68	Spindle guide
69	Stopper
71	Socket head cap bolt

3-U3-71501/T2

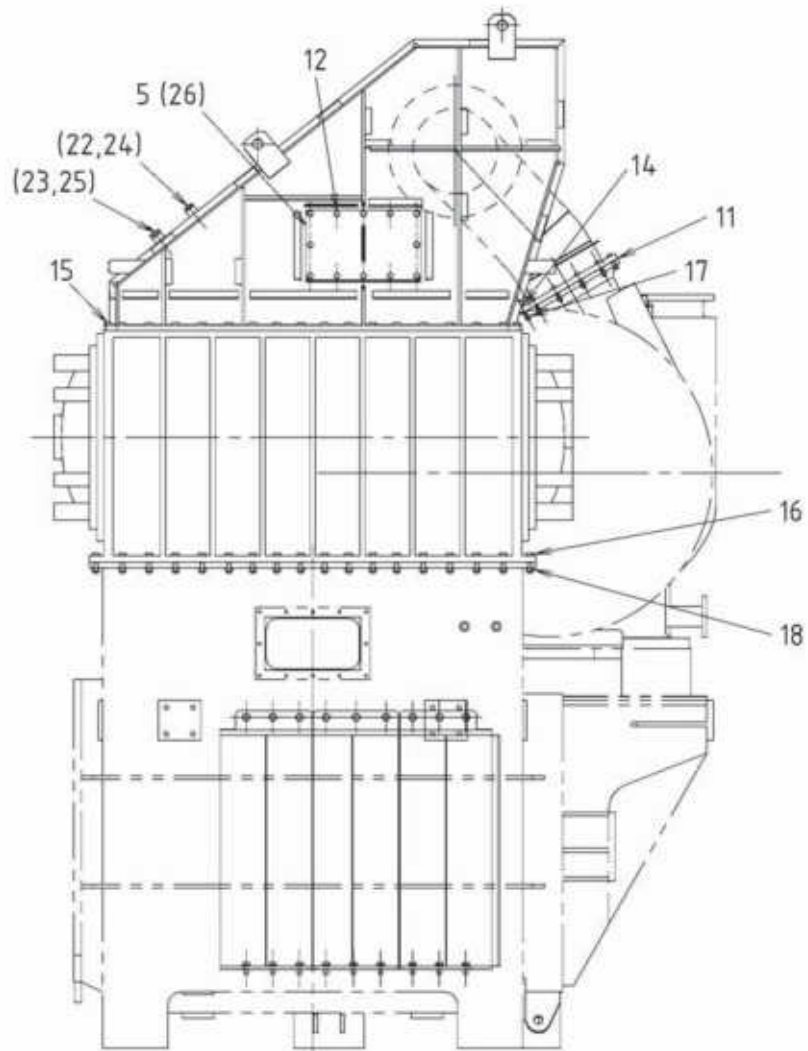
161 AIR DUCT

161100



1-K6-9C029
63-06

161 AIR DUCT

161100A1-K6-9C029
63-06

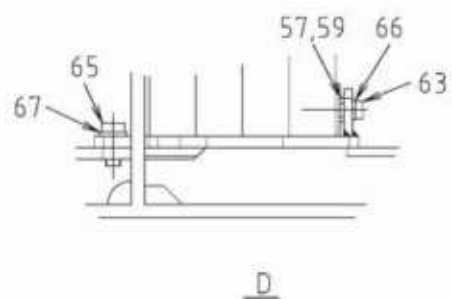
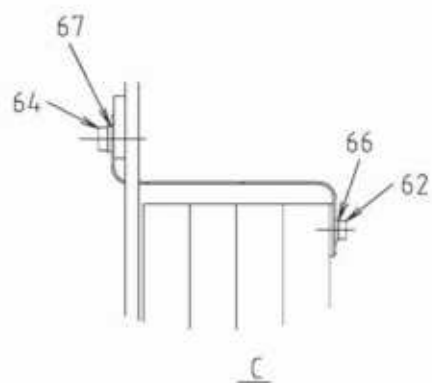
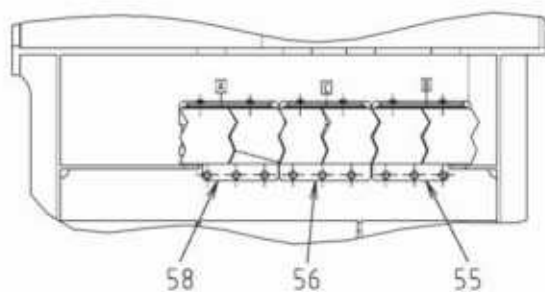
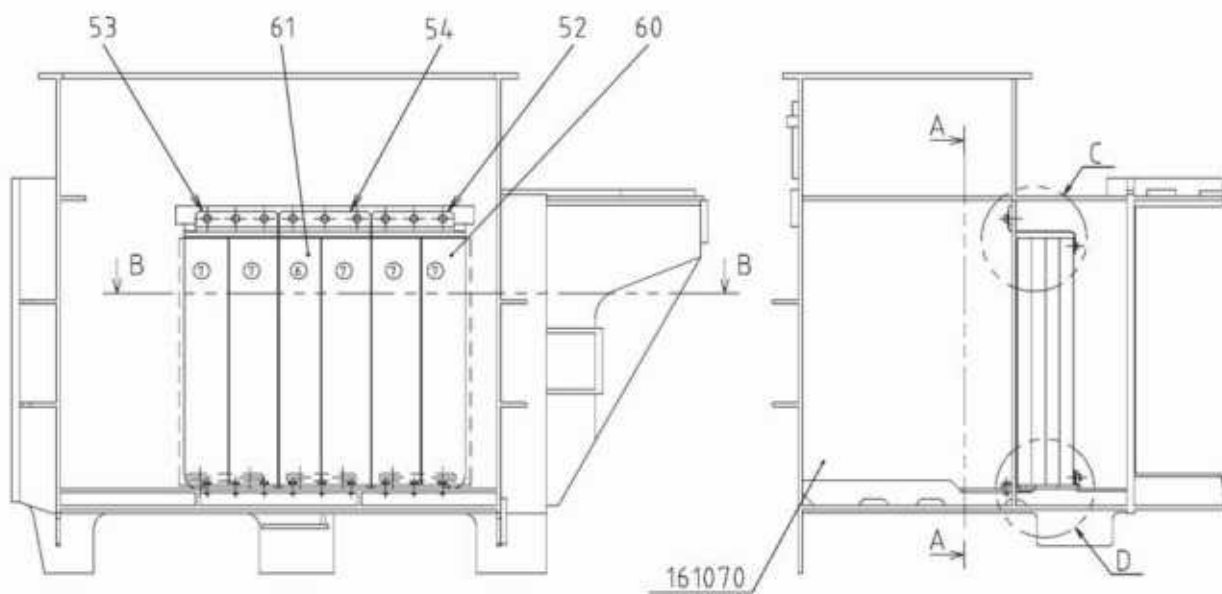
45LSE

161

Key No.	Description
161100	Air duct
2	Air duct (Consist of 161120~161125)
3	Air duct
5	Blind cover (Consist of 161126)
6	Gasket
7	Gasket
8	Expansion joint
9	Gasket
10	Gasket
11	Gasket
12	Bolt
13	Bolt
14	Bolt
15	Bolt
16	Bolt
17	Nut
18	Nut
19	Spacing plate
20	Spray nozzle
21	Locking plate
22	Copper gasket
23	Copper gasket
24	Plug
25	Plug
26	Gasket

161 DRAIN SEPARATOR

161050

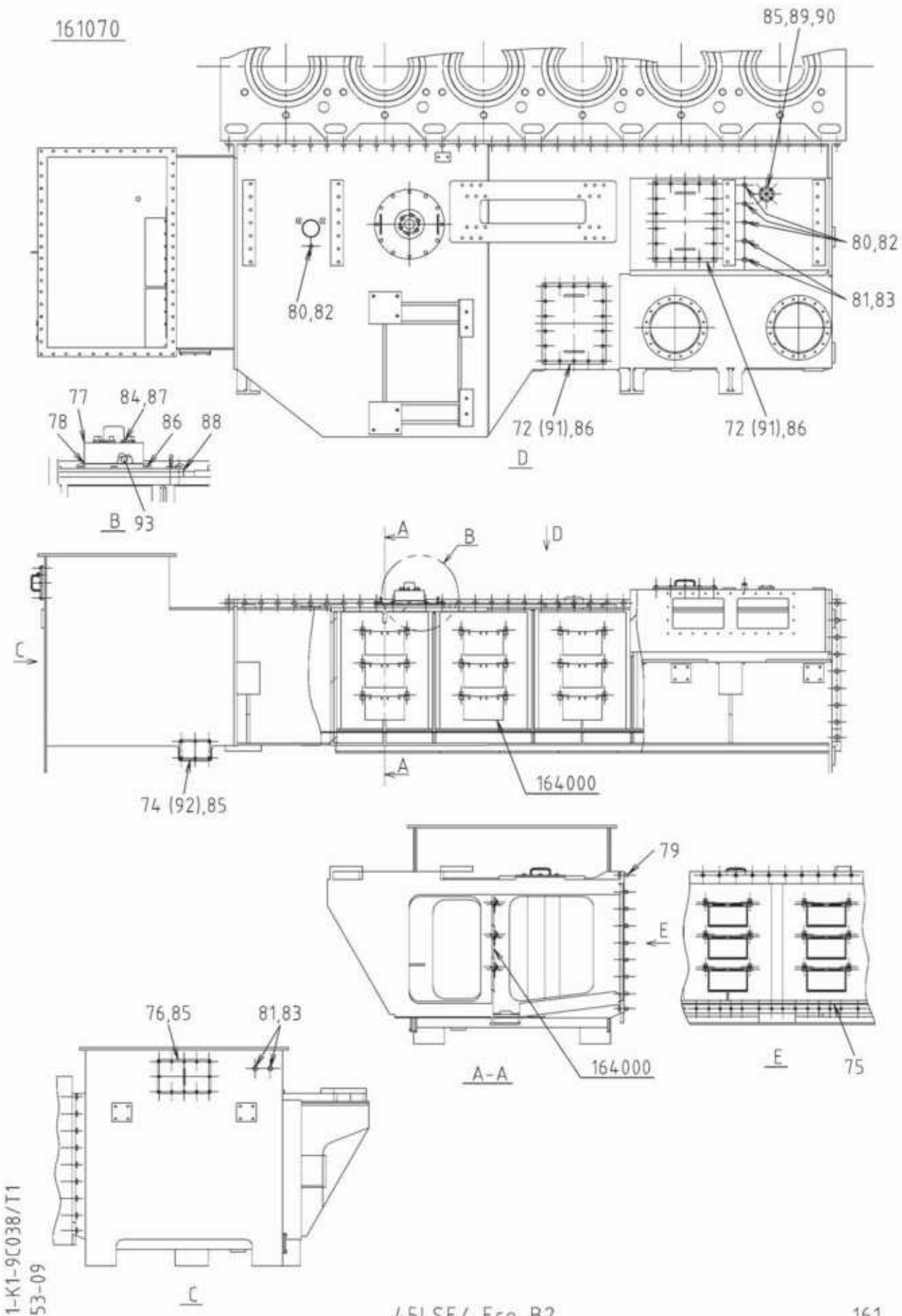


1-U6-9C006/T2
63-06

Key No.	Description
161050	Drain separator complete
52	Bracket
53	Bracket
54	Bracket
55	Bracket
56	Bracket
57	Plate
58	Bracket
59	Plate
60	Drain separator
61	Drain separator
62	Bolt
63	Bolt
64	Bolt
65	Bolt
66	Spring washer
67	Spring washer

1-U6-9C006/T2

161 SCAVENGING AIR TRUNK

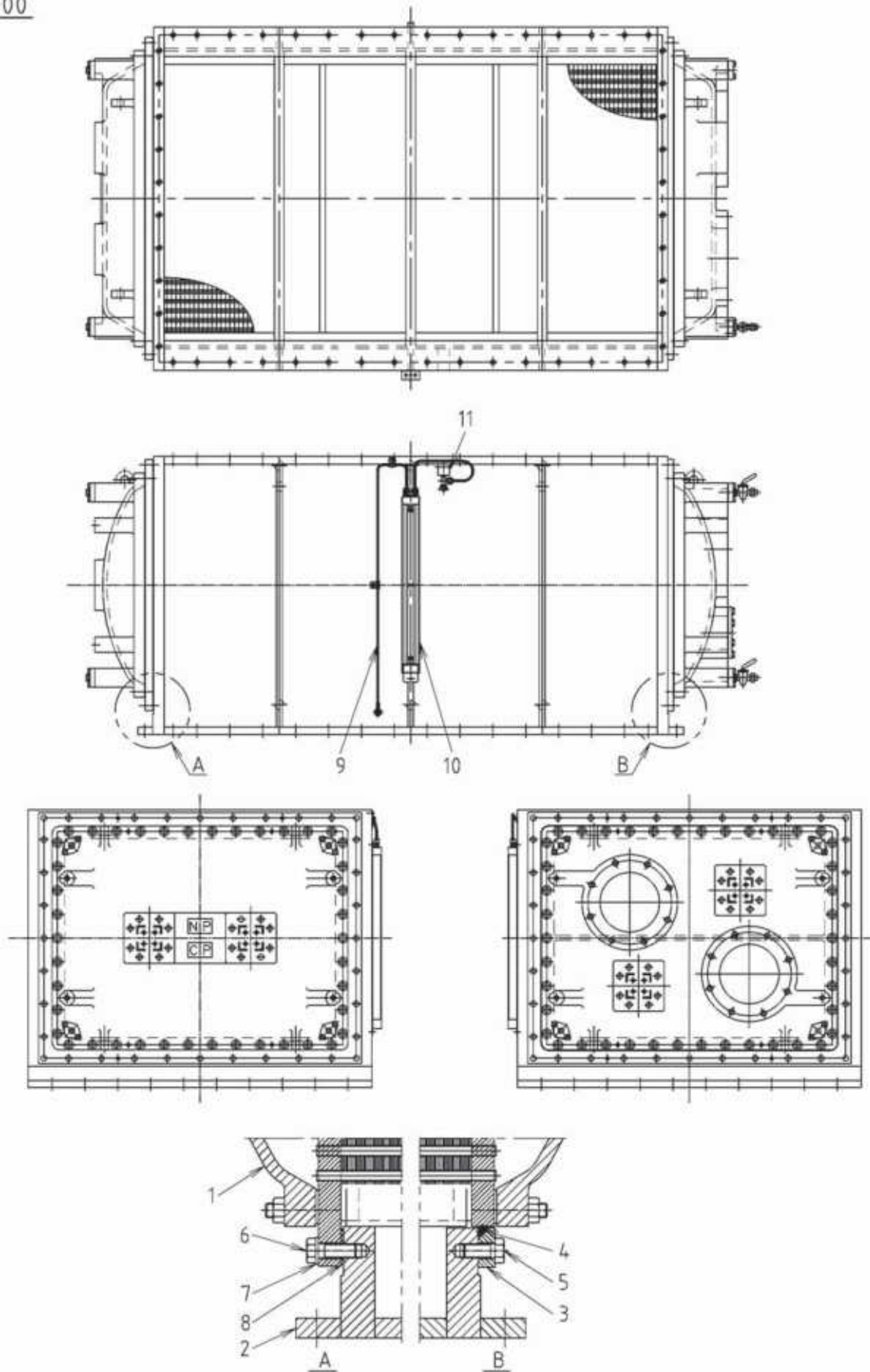


Key No.	Description
161070	Scavenging air trunk
72	Blind cover
74	Blind cover
75	O-ring
76	Blind cover
77	Safety valve complete
78	Gasket
79	Bolt
80	Copper gasket
81	Copper gasket
82	Plug
83	Plug
84	Bolt
85	Bolt
86	Bolt
87	Spring washer
88	Blind cover
89	Blind flange
90	Full-face gasket
91	Gasket
92	Gasket
93	O-ring for safety valve

1-K1-9C038/T1

162 AIR COOLER (SEA WATER)

162000



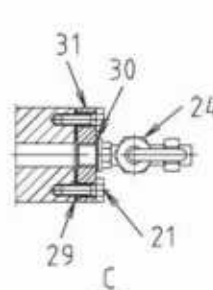
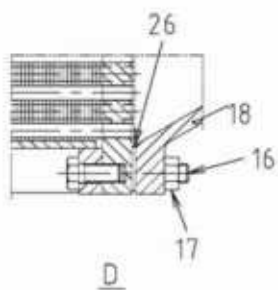
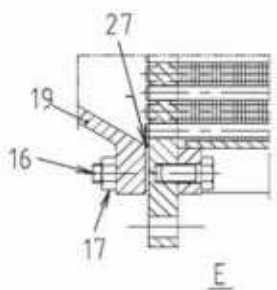
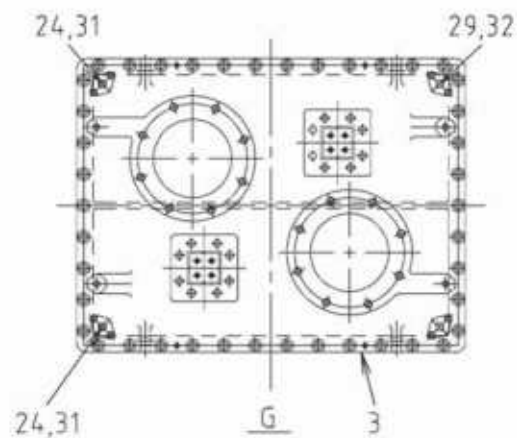
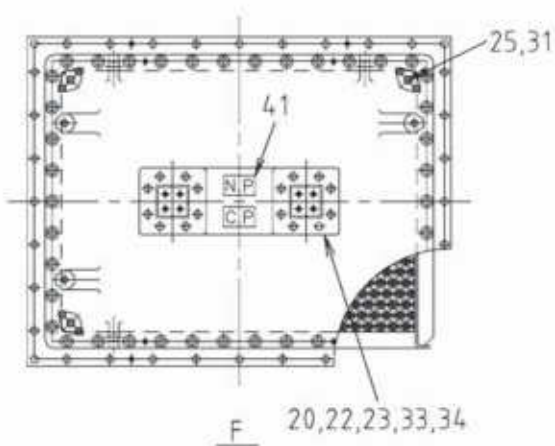
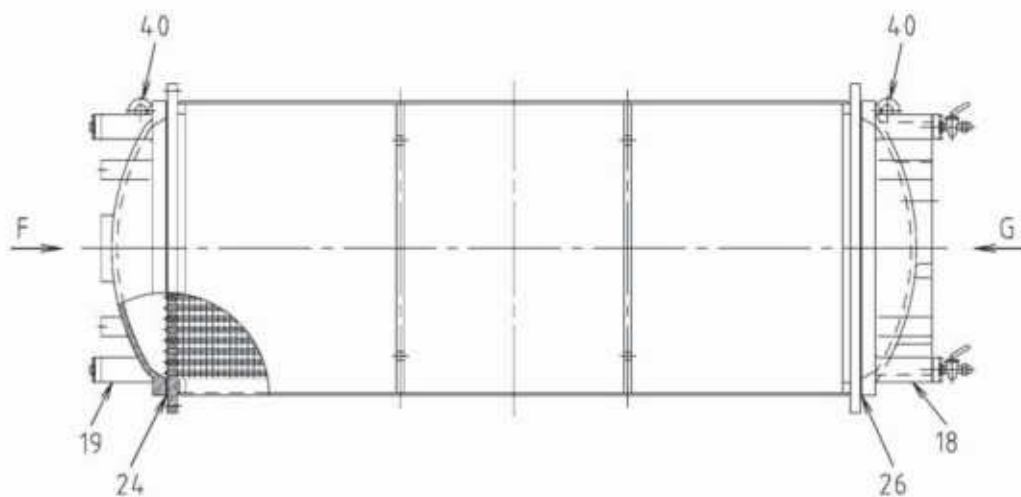
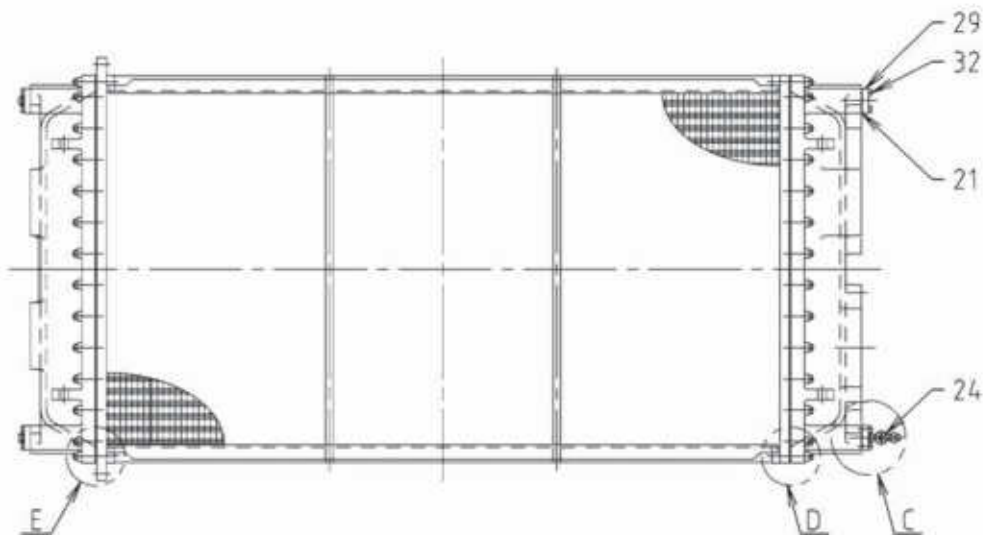
2-K6-9C025/-, 2-K6-9C026/-
63-06 63-06

45LSE/-Eco-B2

162

162 AIR COOLER (SEA WATER)

162000

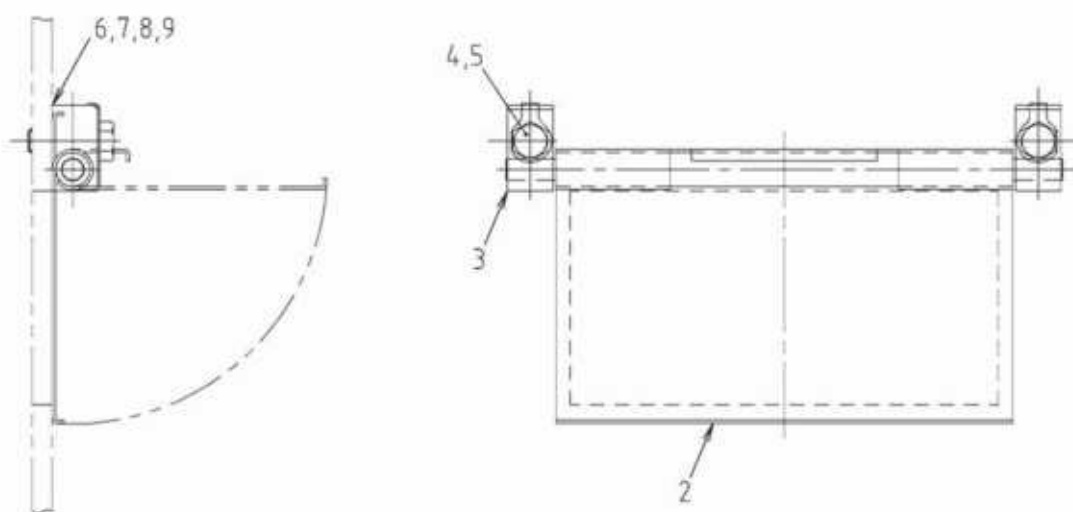


2-K6-9C025/-, 2-K6-9C026/-
63-06 63-06

Key No.	Description
162000	Air cooler (Sea water)
1	Tube bundle
2	Casing
3	Seal flange
4	O-ring
5	Bolt
6	Bolt
7	Washer
8	Fixed side gasket
9	Manometer piping
10	Manometer
11	Miniature valve
16	Stud bolt
17	Nut
18	Nozzle header
19	Return header
20	Bolt
21	Bolt
22	Nut
23	Spring washer
24	Screwed cock
25	Plug
26	Nozzle header gasket
27	Return header gasket
28	Anode base gasket
29	Oval flange gasket
30	Copper gasket
31	Oval flange
32	Blind plate
33	Zinc anode
34	Anode base gasket
40	Eye-bolt
41	Name plate

2-K6-9C025/-, 2-K6-9C026/-

164 SCAVENGING VALVE

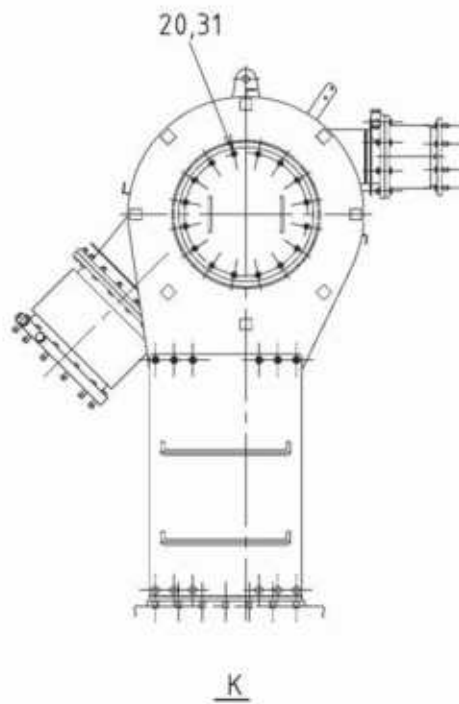
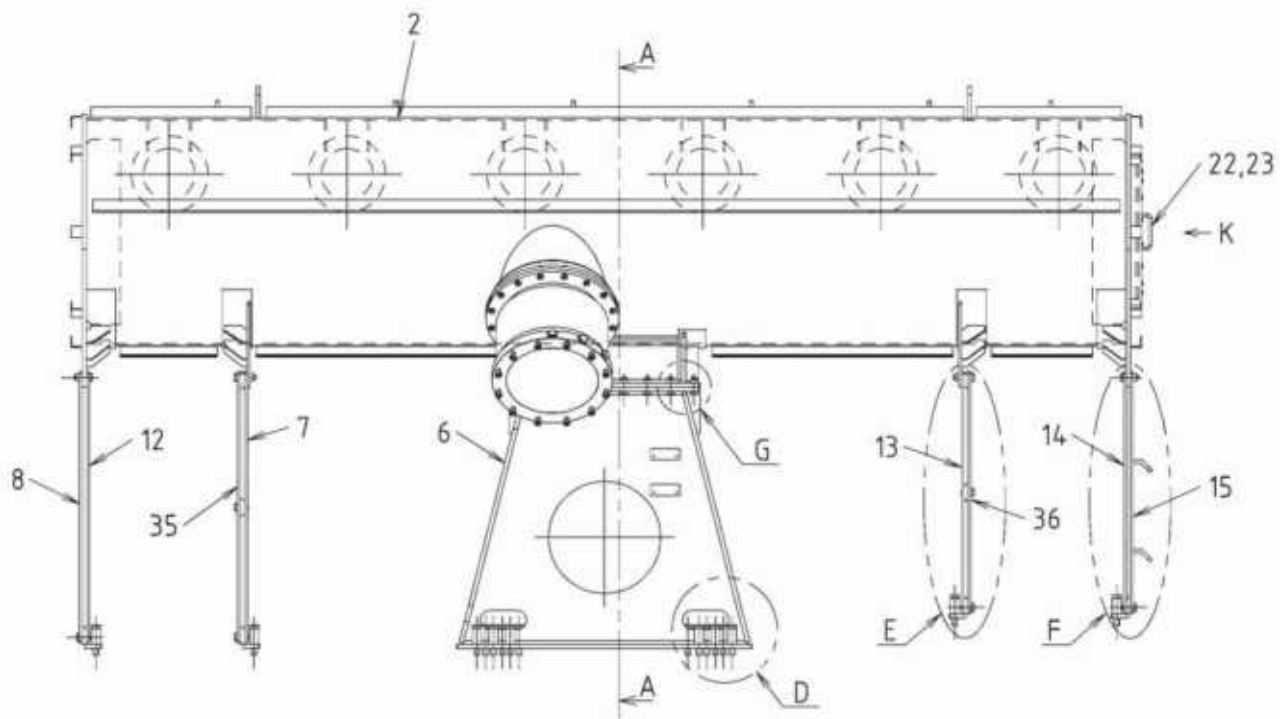
164000

Key No.	Description
164000	Scavenging valve complete
2	Valve plate
3	Bearing
4	Bolt
5	Tongued washer
6	Spacer
7	Spacer
8	Spacer
9	Spacer

3-K1-9C009/-

171 EXHAUST PIPE

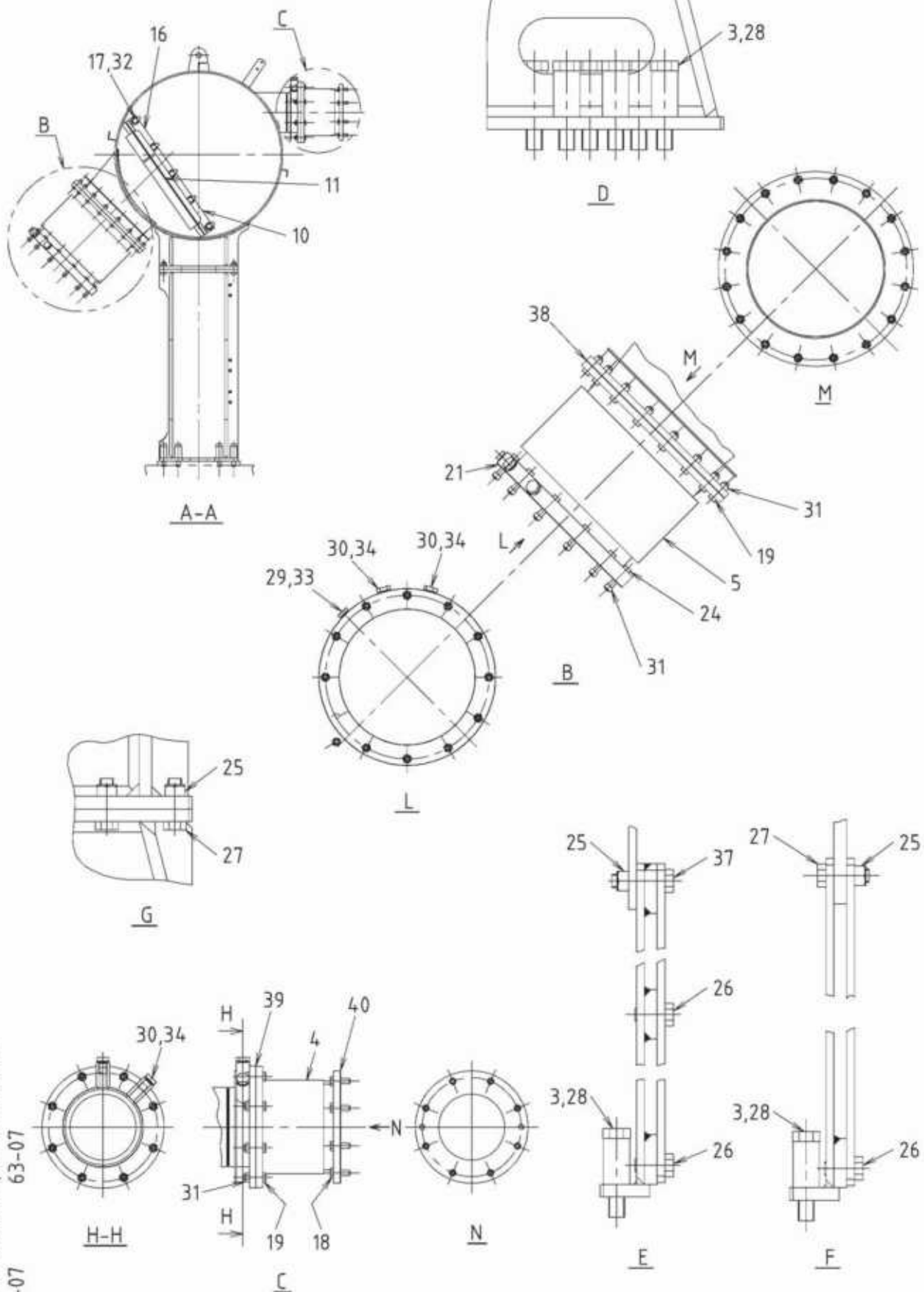
171000



3-K6-2C030/-, 1-K6-2C031/-
63-07 63-07

171 EXHAUST PIPE

171000



3-K6-2C030/-, 1-K6-2C031/-
63-07

45LSE/-Eco-B2

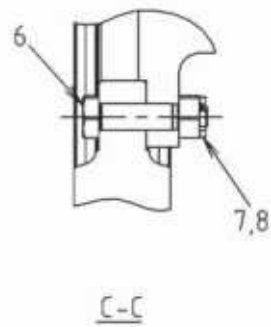
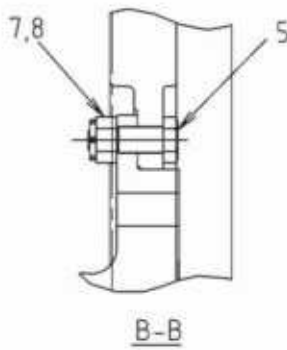
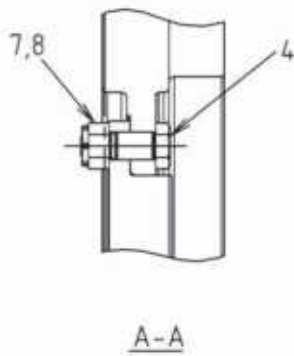
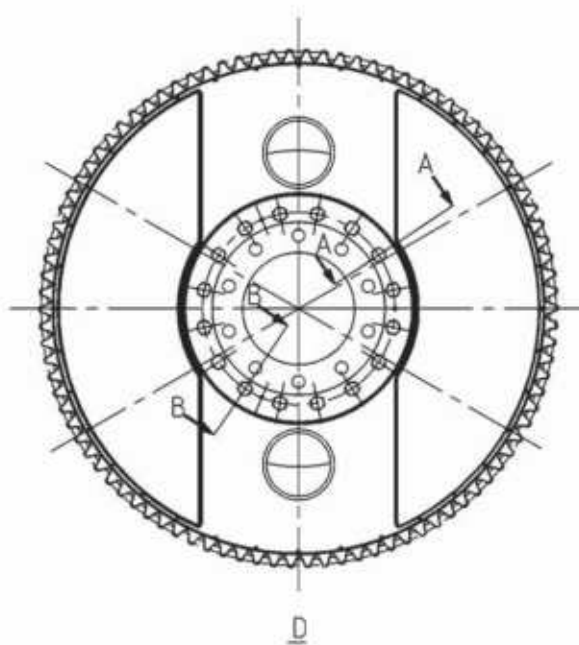
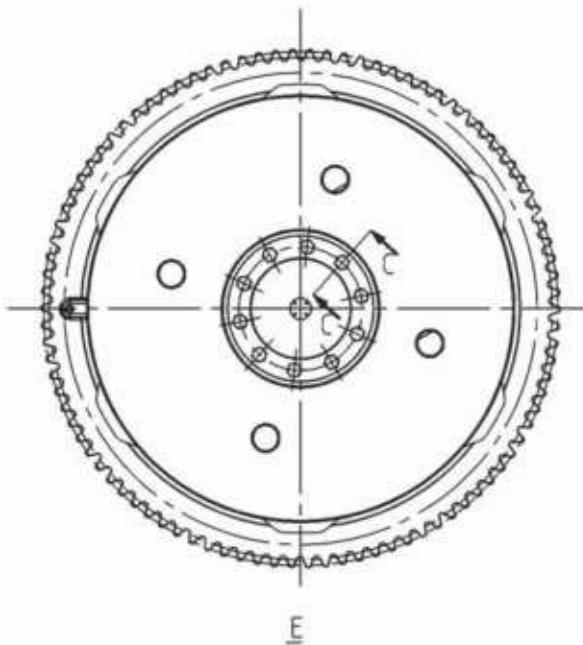
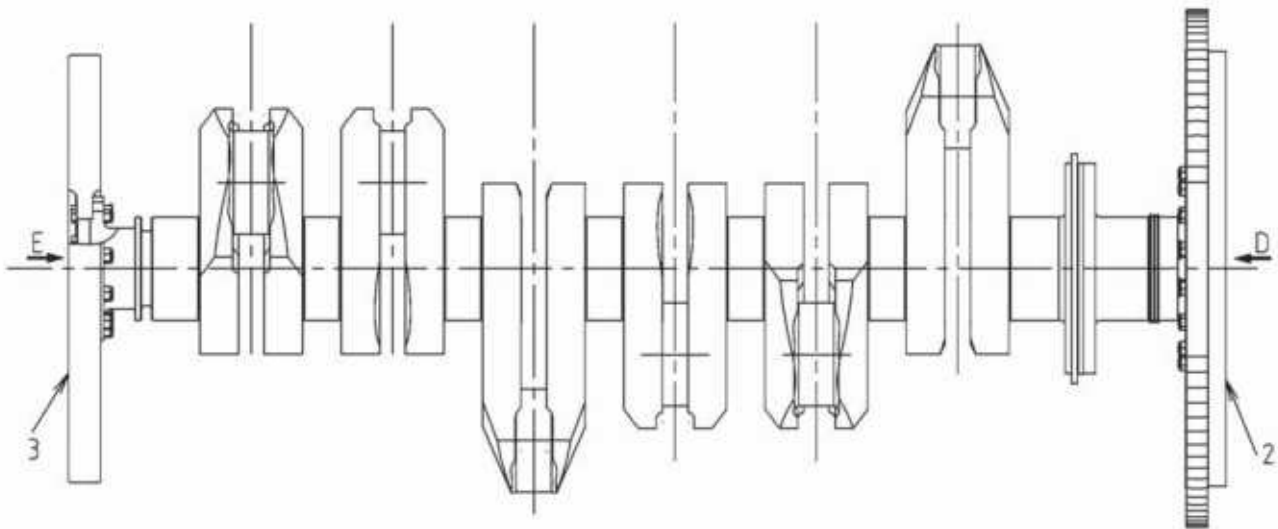
171

Key No.	Description
171000	Exhaust pipe complete
2	Exhaust pipe assembly
3	Spacer
4	Expansion joint
5	Expansion joint
6	Main support
7	Support
8	Protection against vibration piece
10	Flange
11	Wire netting
12	Support
13	Support
14	Support
15	Protection against vibration piece
16	Flange
17	Bolt
18	Bolt
19	Bolt
20	Stud bolt
21	Gasket
22	Manhole cover
23	Gasket
24	Bolt
25	U-nut
26	Bolt
27	Bolt
28	Bolt
29	Copper gasket
30	Copper gasket
31	Nut
32	Single tongued washer
33	Plug
34	Plug
35	Protection against vibration piece
36	Protection against vibration piece
37	Bolt
38	Gasket

Key No.	Description
171039	Gasket
40	Gasket

211 CRANKSHAFT

211100



2-K2-0C025
55-04

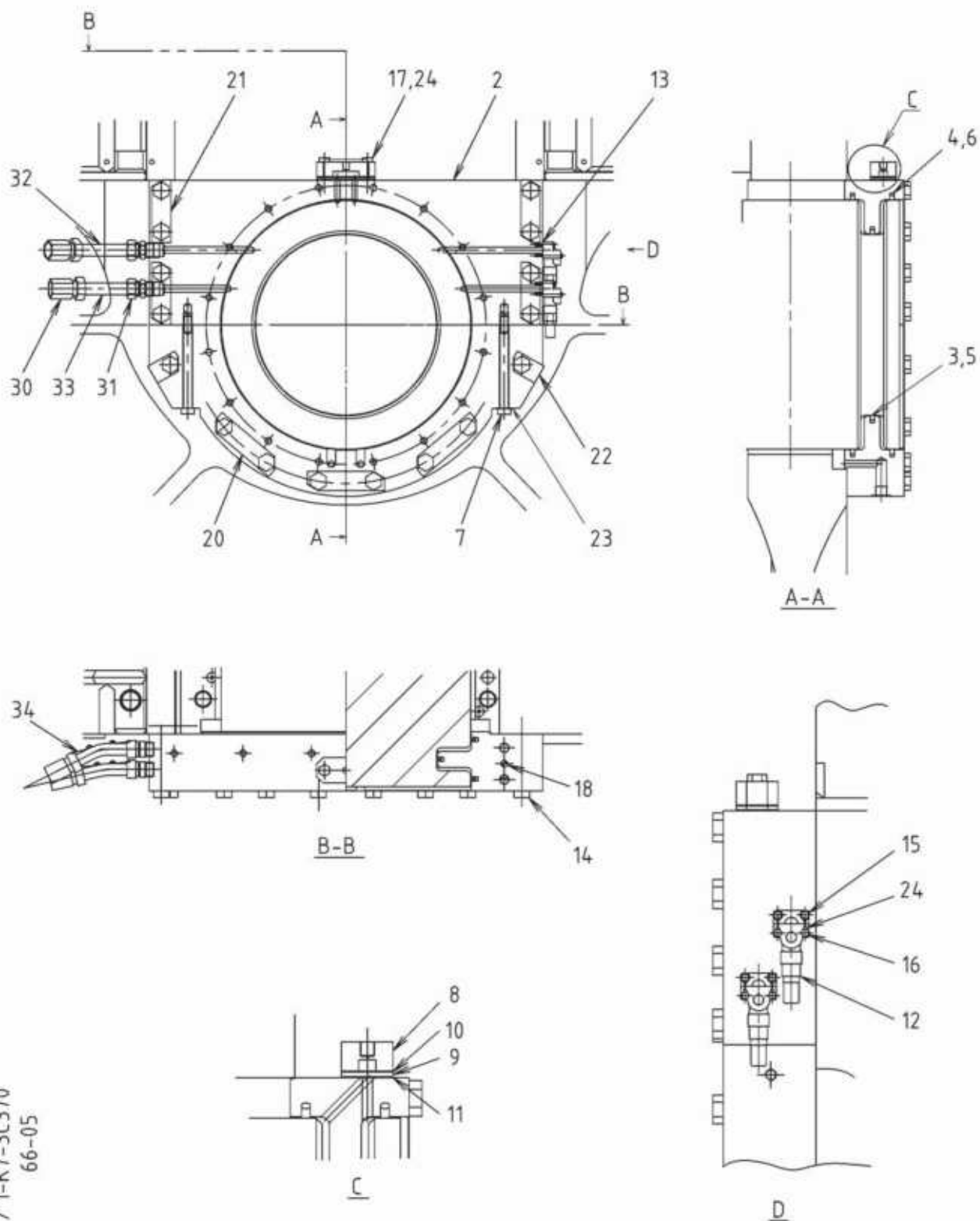
45LSE

211

Key No.	Description
211100	Crankshaft assembly
2	Flywheel
3	Tuning wheel
4	Reamer bolt with pin hole
5	Bolt with pin hole
6	Reamer bolt with pin hole
7	Slotted and castle nut
8	Split pin

224 AXIAL VIBRATION DAMPER

224200



1-K2-1C014 / 1-K7-3C370
55-05 66-05

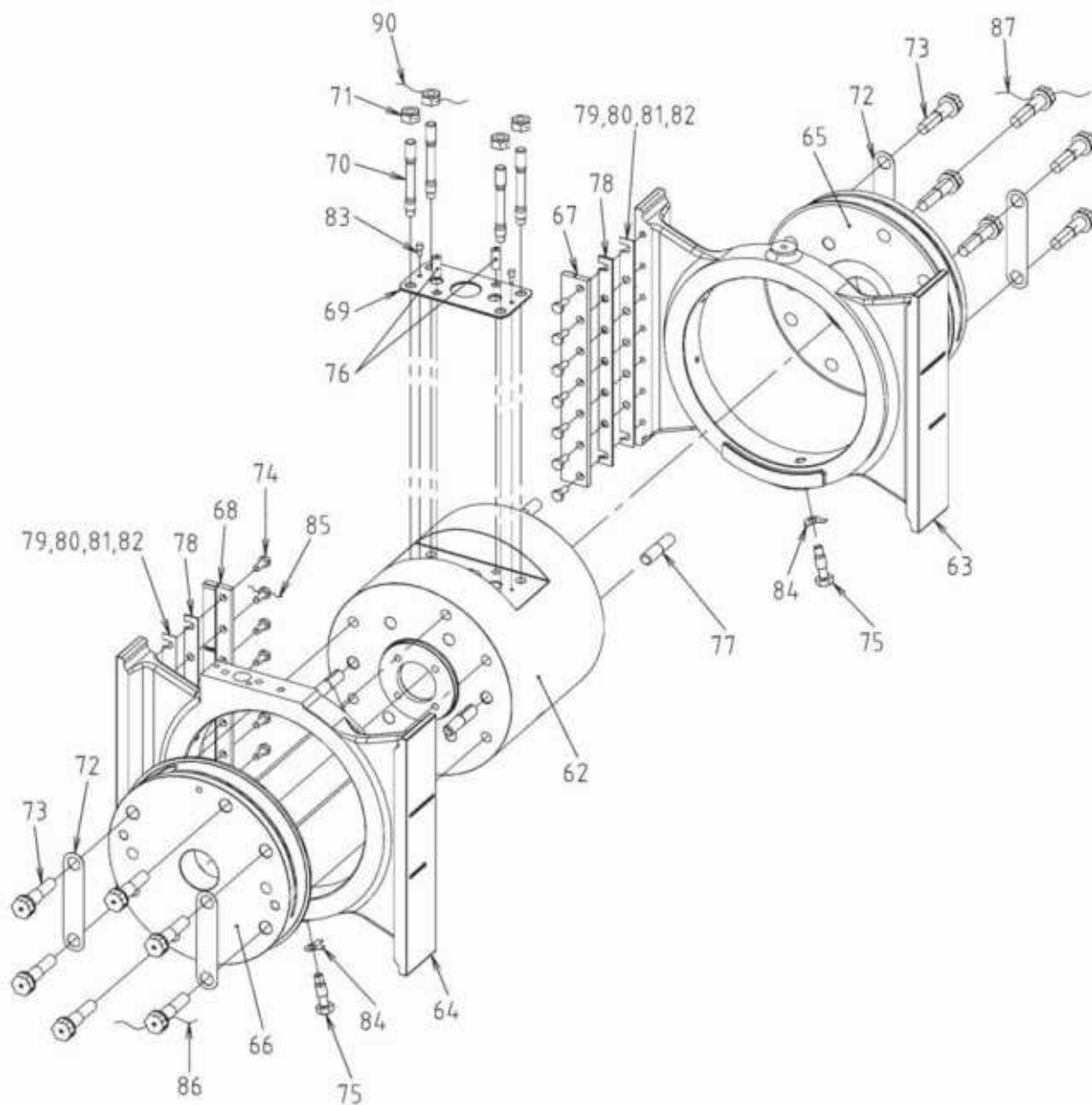
Key No.	Description
224200	Axial vibration damper assembly
2	Casing assembly
3	Ring
4	Ring
5	O-ring
6	O-ring
7	Bolt
8	Throttle valve body
9	Orifice
10	Gasket
11	Gasket
12	Safety valve
13	Gasket
14	Bolt
15	Bolt
16	Bolt
17	Bolt
18	Parallel pin
20	Locking plate
21	Locking plate
22	Locking plate
23	Locking plate
24	Wire
30	Check connector
31	Joint
32	Pipe
33	Pipe
34	Wire

Key No.	Description
235000	Connecting rod and bearing assembly
2	Connecting rod
3	Crank pin lower bearing
4	Crank pin bearing metal (Consist of 235015 and 235016)
5	Crosshead pin upper bearing
6	Crosshead pin bearing metal
7	Stud bolt
8	Nut
9	Stud bolt
10	Nut
11	Stopper bolt
12	Parallel pin
15	Upper metal
16	Lower metal

1-K2-4C023/T3

235 CROSSHEAD

235060



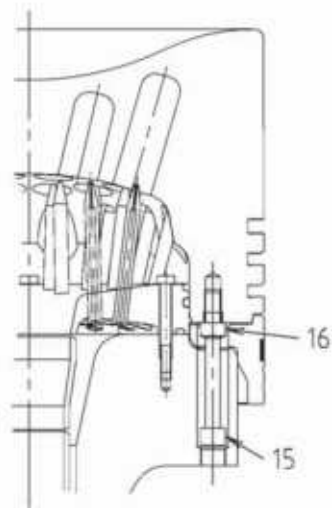
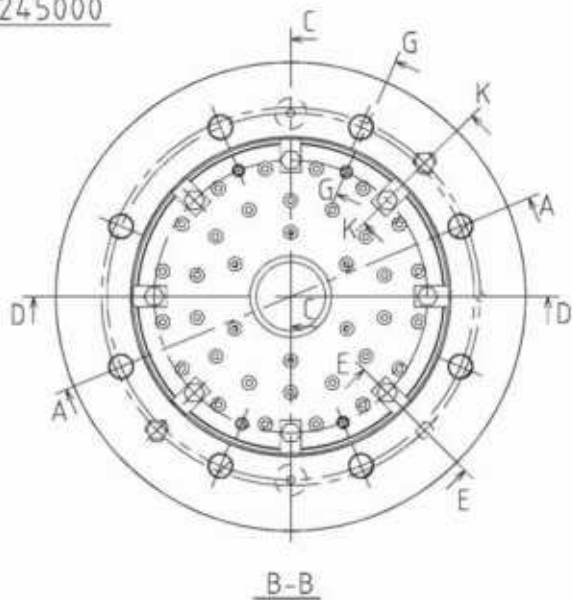
1-U2-5C037/T1
56-10

Key No.	Description
235060	Crosshead assembly
62	Crosshead pin
63	Guide shoe (Driving end side)
64	Guide shoe (Free end side)
65	Guide shaft
66	Guide shaft
67	Guide shoe side plate
68	Guide shoe side plate
69	Foot liner
70	Stud bolt
71	Nut
72	Washer
73	Bolts with wire hole
74	Hexagon head bolt with wire hole
75	Stopper bolt
76	Parallel pin
77	Parallel pin
78	Shim
79	Shim
80	Taper shim
81	Taper shim
82	Taper shim
83	Hexagon socket head cap screw
84	Double tongued washer
85	Wire
86	Wire
87	Wire
90	Wire

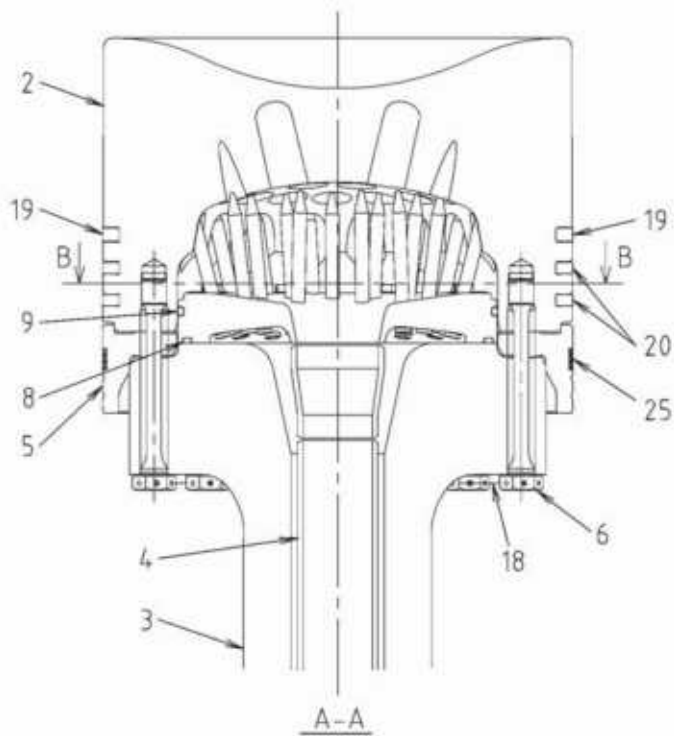
1-U2-5C037/T1

245 PISTON

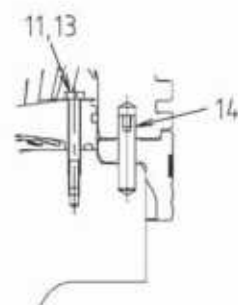
245000



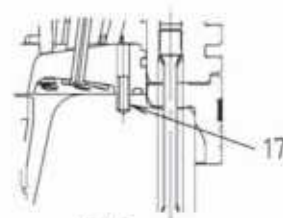
C-C



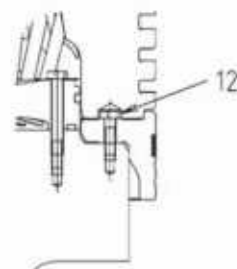
A-A



E-E

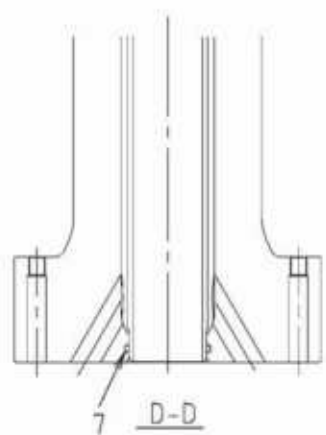


G-G



K-K

1-K2-2C010/T4
55-09



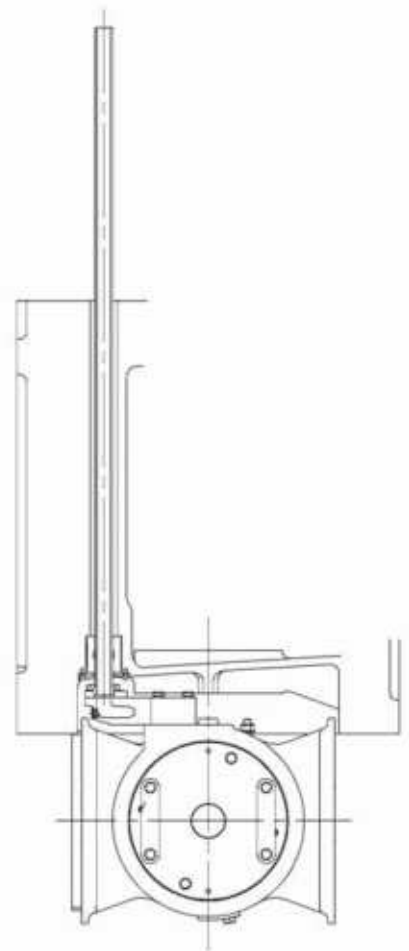
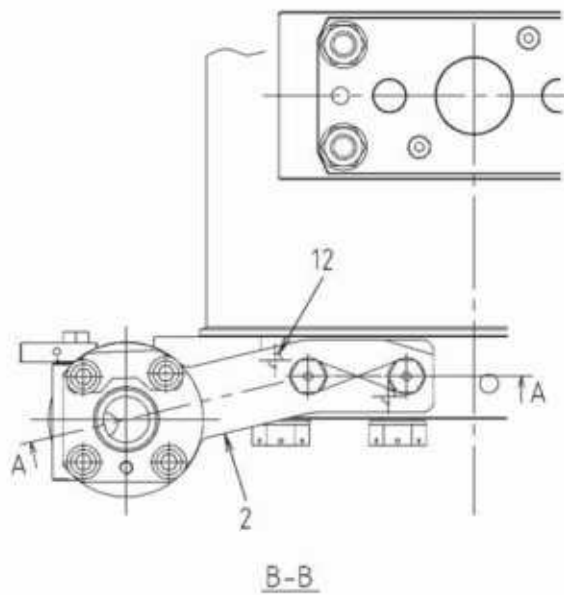
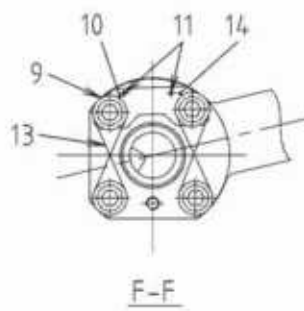
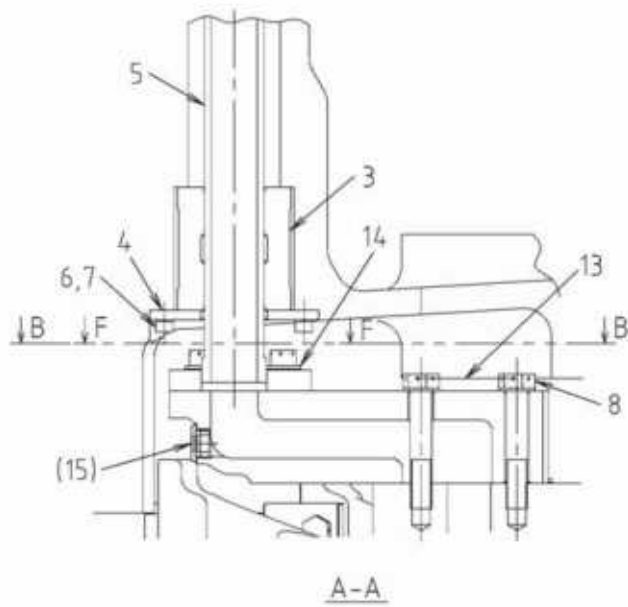
D-D

Key No.	Description
245000	Piston assembly
2	Piston head
3	Piston rod
4	Spraying plate with oil tube
5	Piston skirt assembly
6	Elastic screw
7	O-ring
8	O-ring
9	O-ring
11	Locking plate
12	Bolt
13	Bolt
14	Parallel pin
15	Hexagon socket head cap screw
16	Nut
17	Spring pin
18	Wire
19	Piston ring (1st ring)
20	Piston ring (2nd,3rd ring)
25	Skirt ring

1-K2-2C010/T4

246 PISTON COOLING SYSTEM

246000



1-U2-3C024/-
56-09

45LSE/-Eco-B2

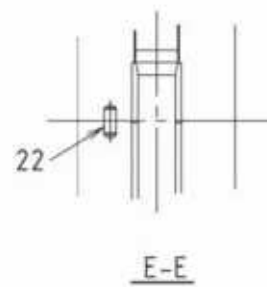
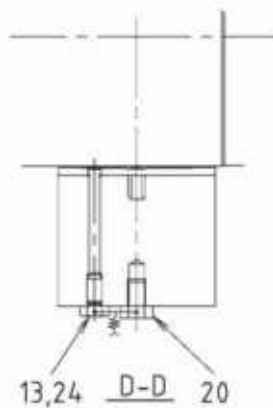
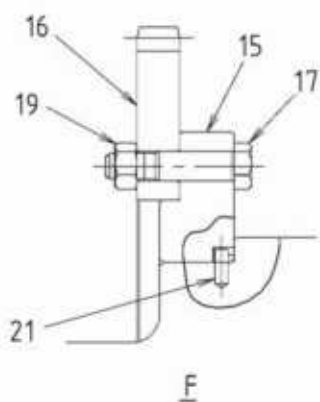
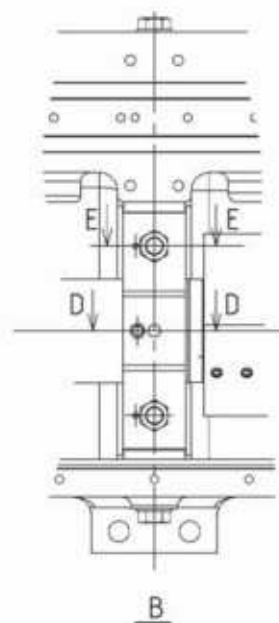
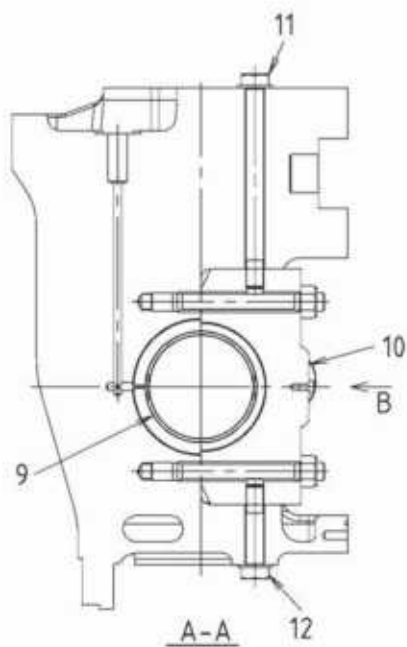
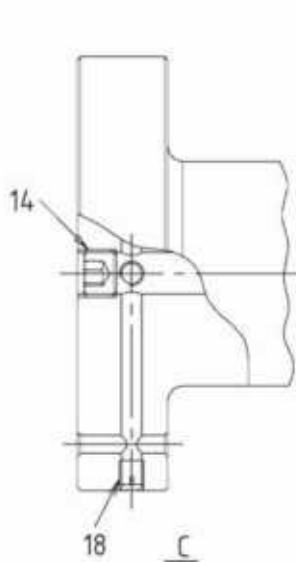
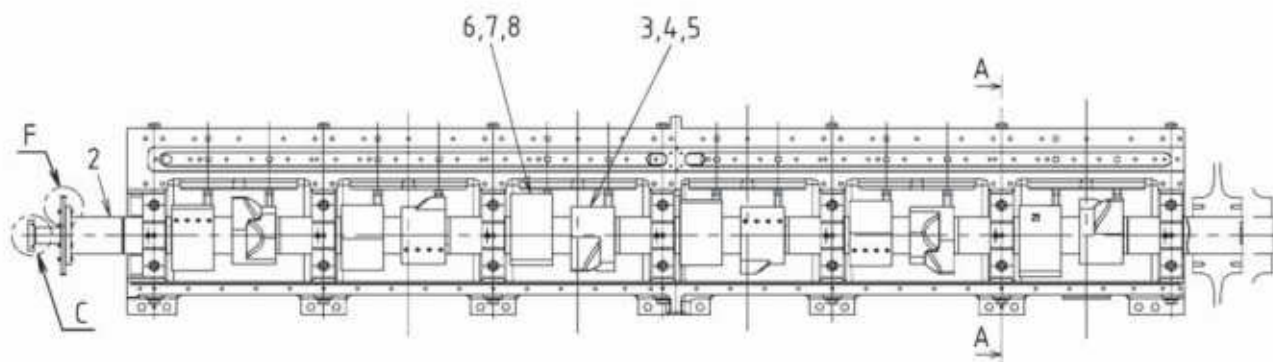
246

Key No.	Description
246000	Piston cooling system assembly
2	Inlet piece (Consist of 246015)
3	Sleeve
4	Sleeve holder
5	Inner pipe
6	Hexagon socket head cap screw
7	Conical spring washer
8	Bolts with wire hole
9	Hexagon socket head cap screw
10	Plain washer
11	Thread end taper pin
12	Parallel pin
13	Wire
14	Plate
15	Flanged screw plug

1-U2-3C024/-

255 CAMSHAFT

255100



1-K3-2C020/-
58-07

45LSE-B2

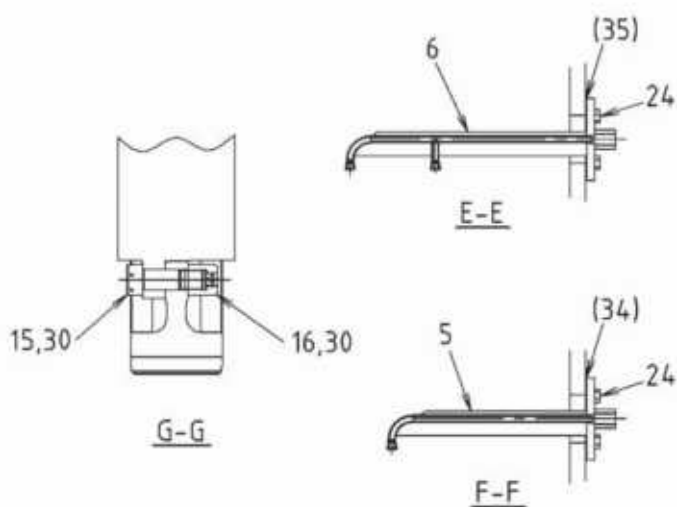
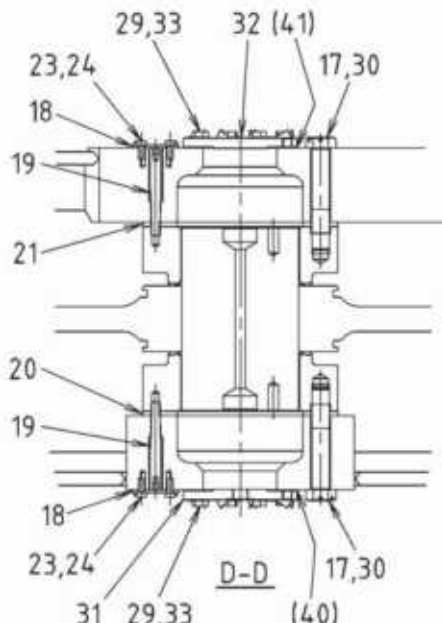
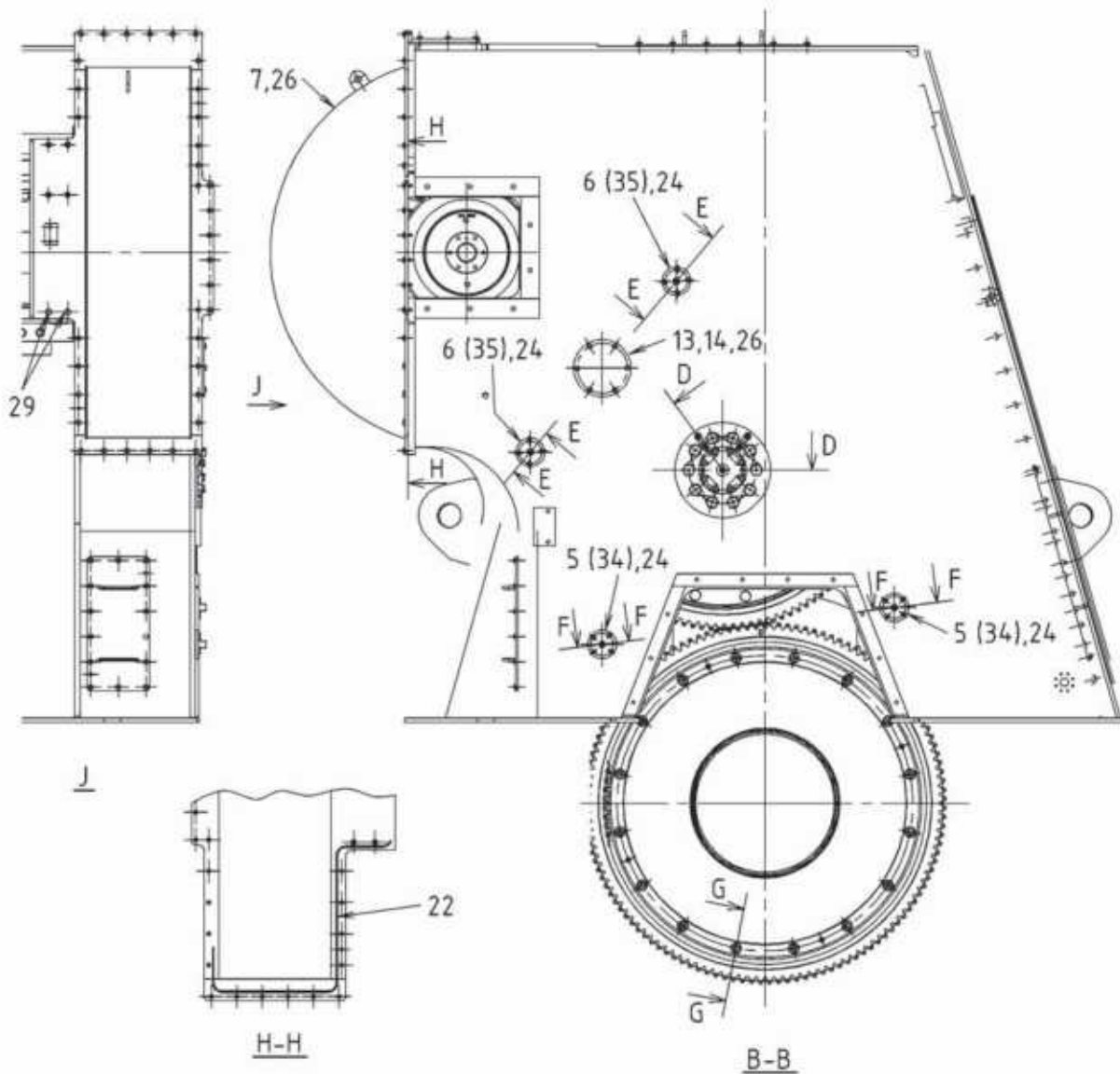
255

Key No.	Description
255100	Camshaft assembly
2	Camshaft
3	Fuel cam (for No,1,No.6 cyl.)
4	Fuel cam (for No,2,No.5 cyl.)
5	Fuel cam (for No3,No.4 cyl.)
6	Exhaust cam (for No,1,No.6 cyl.)
7	Exhaust cam (for No,2,No.5 cyl.)
8	Exhaust cam (for No,3,No.4 cyl.)
9	Bearing metal
10	Bearing housing
11	Bolt
12	Bolt
13	Bolt
14	Plug
15	Hub
16	Gear
17	Reamer bolt
18	Slotted set screw
19	U-nuts
20	Hexagon head bolts with wire hole
21	Parallel pin
22	Parallel pin
24	Wire

1-K3-2C020/-

256 CAMSHAFT DRIVE

256000



1-K3-0C014
57-07

45LSE

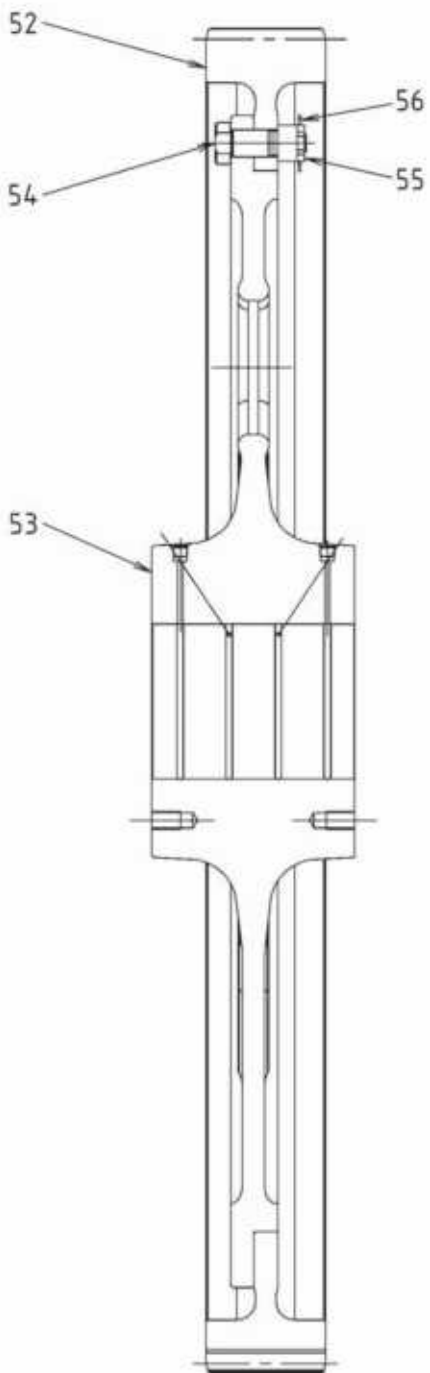
256

Key No.	Description
256000	Camshaft drive assembly
2	Rim for crankshaft gear
5	Lubrication pipe (Consist of 256034)
6	Lubrication pipe (Consist of 256035)
7	Gear casing
8	Cover (Exhaust side) (Consist of 256036)
9	Cover (Exhaust side) (Consist of 256037)
10	Cover (Camshaft side) (Consist of 256038)
11	Cover (Upper part)
12	Cover (Consist of 256039)
13	Blind cover
14	Gasket
15	Reamer bolt
16	Nut
17	Hexagon head bolts with wire hole
18	Plate
19	Taper pin
20	Shim
21	Shim
22	O-ring
23	Locking plate
24	Bolt
25	Bolt
26	Bolt
27	Bolt
28	Bolt
29	Bolt
30	Wire
31	Flange (Consist of 256040)
32	Flange (Consist of 256041)
33	Locking plate
34	Gasket
35	Gasket
36	Gasket
37	Gasket
38	Gasket

Key No.	Description
256039	Gasket
40	Gasket
41	Gasket

256 CAMSHAFT GEAR

256050

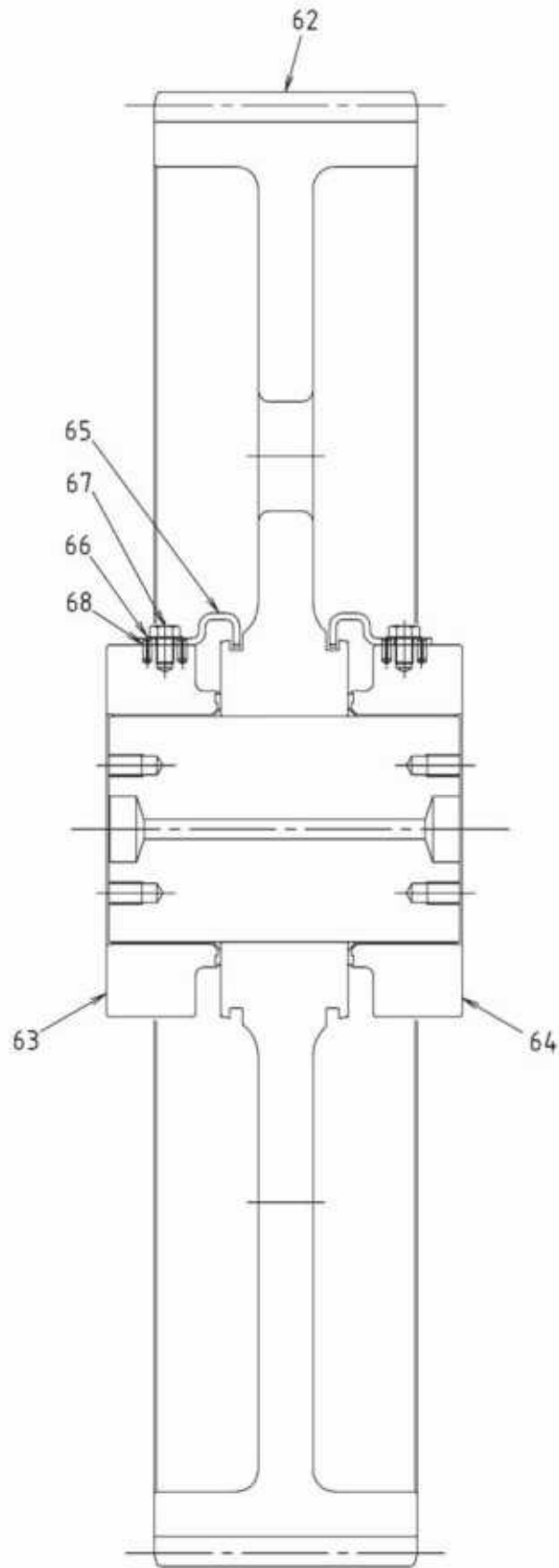


2-U3-0C148 T1
57-07

Key No.	Description
256050	Camshaft gear assembly
52	Rim for camshaft gear
53	Hub for camshaft gear
54	Reamer bolt
55	Slotted and castle nut
56	Split pin

256 IDLE GEAR

256060



2-K3-0C015 T1
57-07

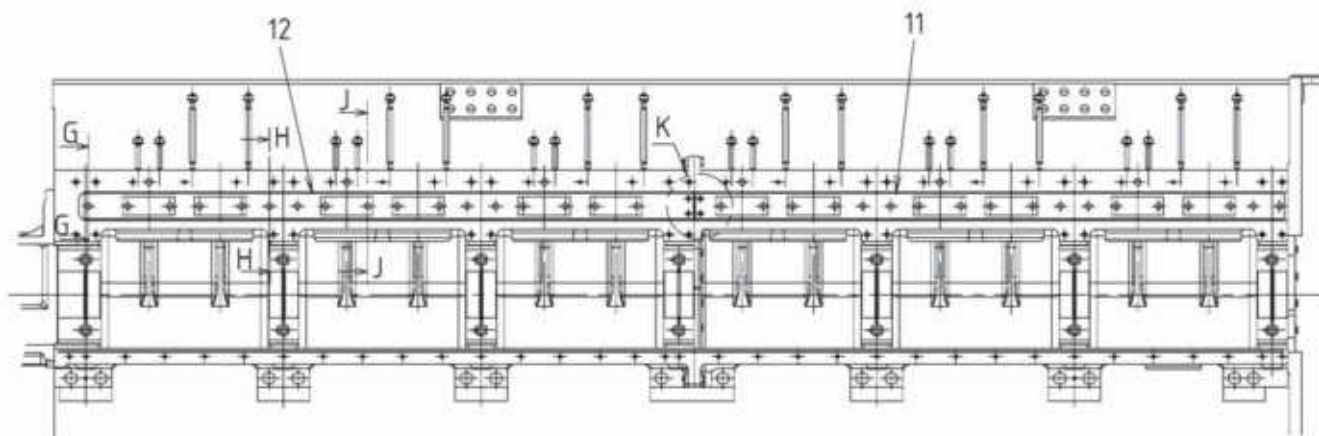
45LSE

256

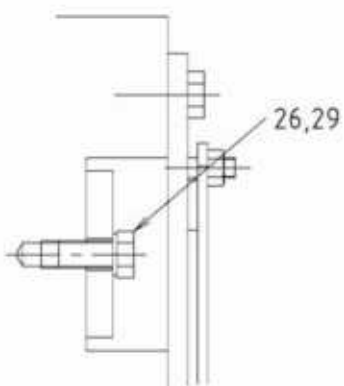
Key No.	Description
256060	Idle gear assembly
62	Idle gear assembly
63	Bearing assembly
64	Bearing assembly
65	Stopper
66	Locking plate
67	Bolt
68	Spring pin

261 CAMSHAFT HOUSING

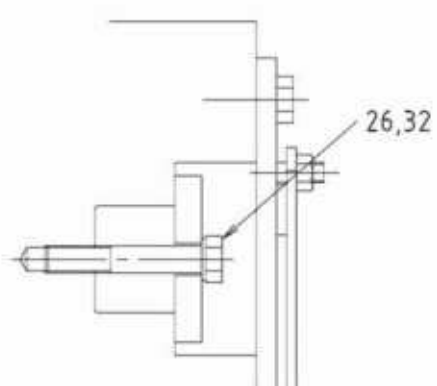
261000



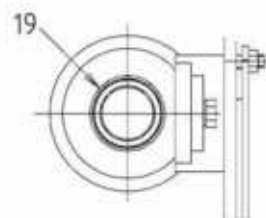
F-F



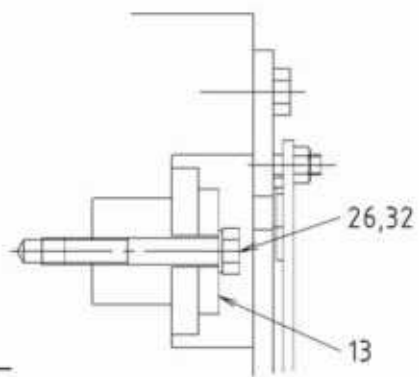
G-G



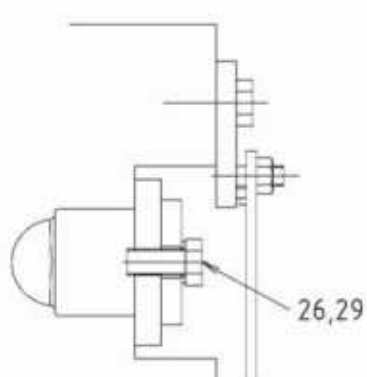
H-H



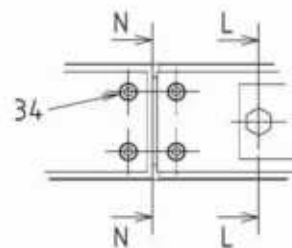
N-N



J-J



L-L



K

2-K3-1C010/T1
58-07

45LSE-B2

261

Key No.	Description
261000	Camshaft housing assembly
2	Camshaft housing (Driving end)
3	Camshaft housing (Free end)
4	Camshaft housing cover
5	Camshaft housing cover
6	Camshaft housing cover
7	Inspection hole cover
8	Stud bolt
9	Stud bolt
10	Stud bolt
11	Cover
12	Cover
13	Support
14	Cover
15	Gasket
16	Square ring
17	O-ring
18	O-ring
19	O-ring
20	Washer faced bolt
21	Bolt
22	Bolt
23	Parallel pin
24	Hexagon head bolt with wire hole
25	Copper gasket
26	Conical spring washer
27	U-nut
28	Bolt
29	Bolt
30	Bolt
31	Bolt
32	Bolt
33	Reamer bolt
34	Hexagon socket head cap screw
35	Hexagon socket head cap screw
36	Stud bolt
37	Nut
38	Nut

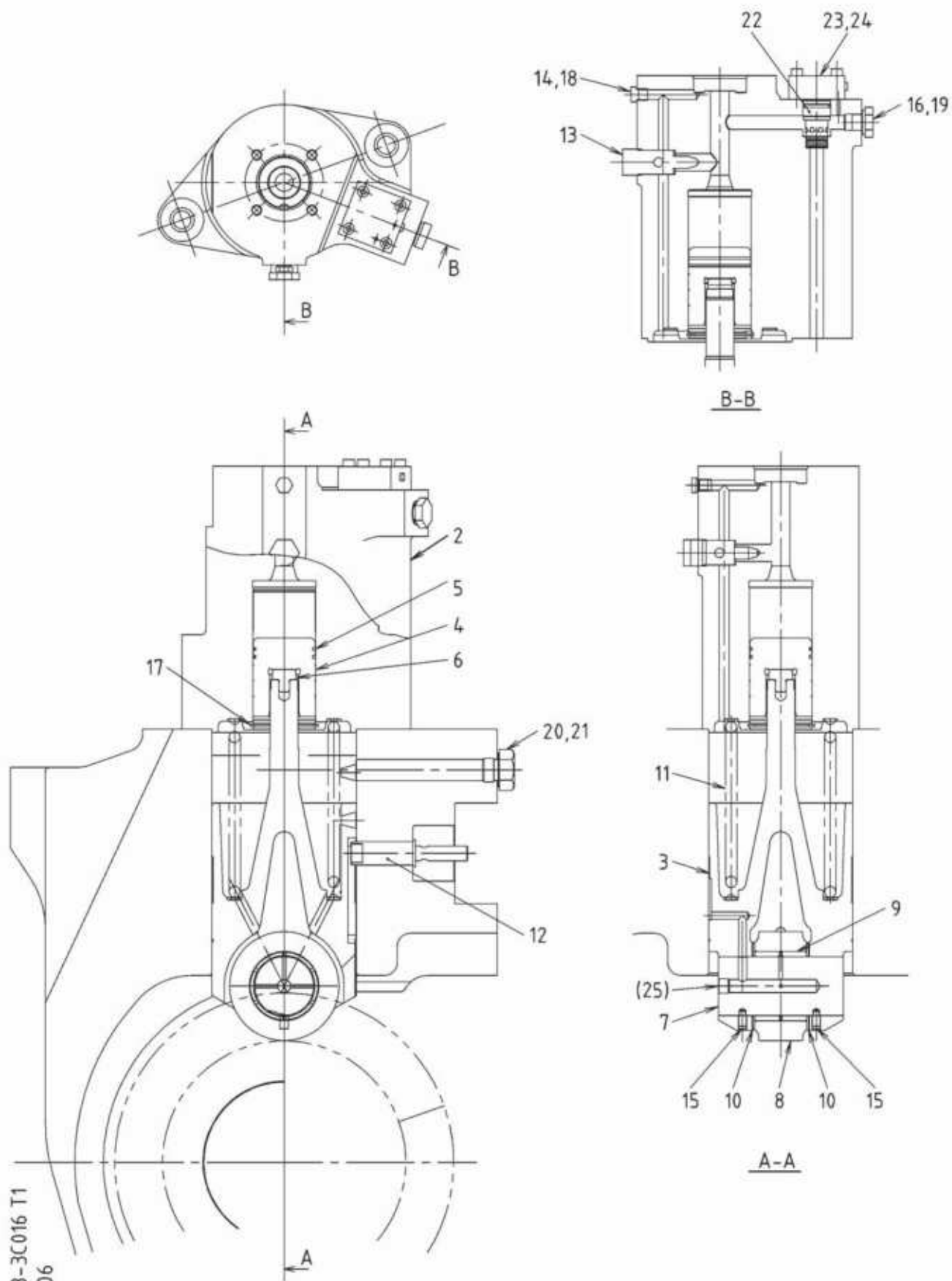
1-K3-1C009/T3 , 2-K3-1C010/T1

Key No.	Description
261039	Nut
40	Plug
41	Parallel pin
42	Wire

1-K3-1C009/T3 , 2-K3-1C010/T1

263 EXHAUST VALVE DRIVING GEAR, LOWER PART

263000

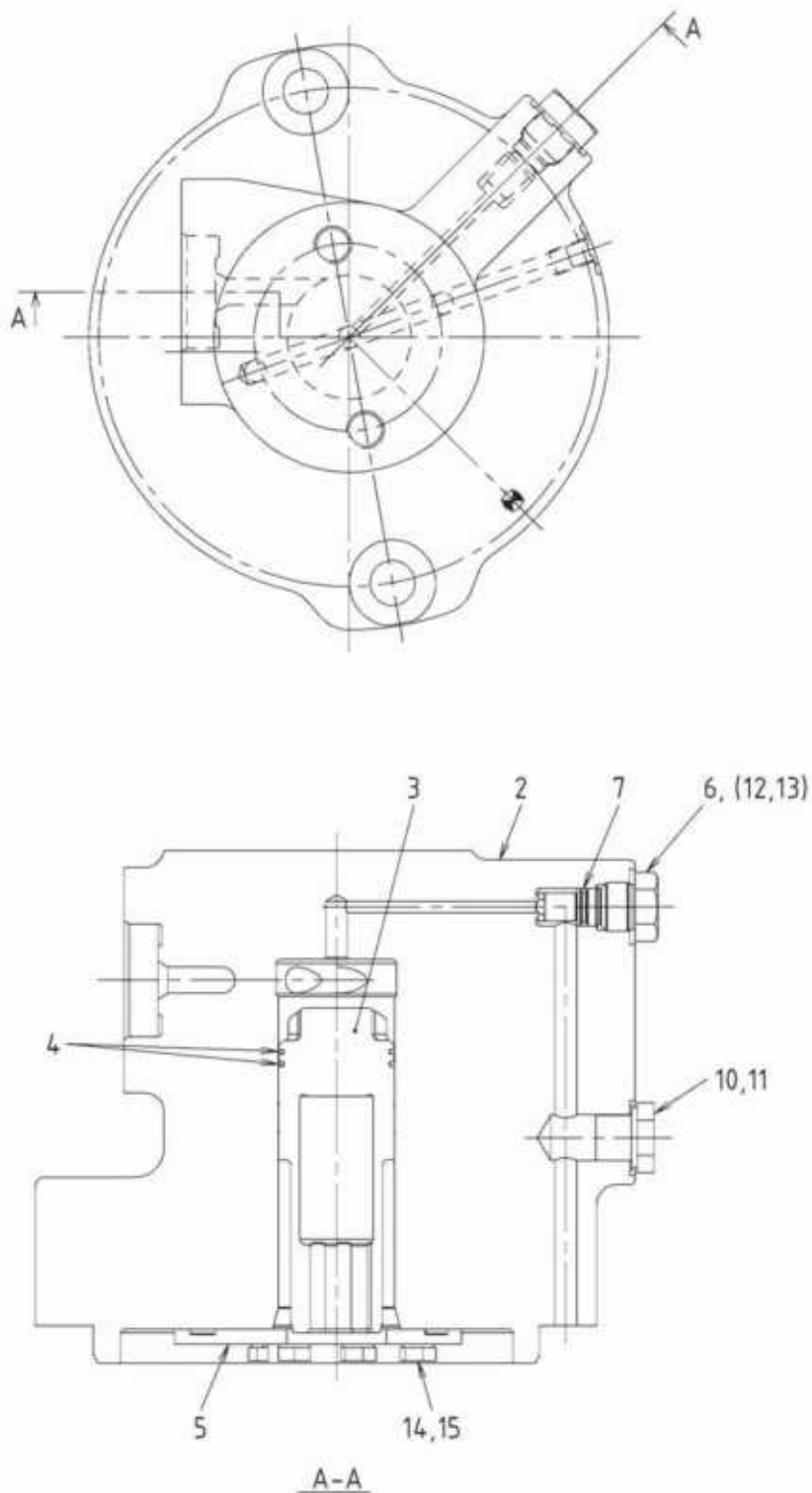


1-K3-3C016 T1
57-06

Key No.	Description
263000	Exhaust valve driving gear, lower part assembly
2	Housing (oil cylinder)
3	Roller guide
4	Piston
5	Piston ring
6	Thrust piece (upper)
7	Roller pin assembly (Consist of 263025)
8	Roller
9	Bush
10	Thrust washer
11	Spring
12	Guide pin
13	Relief valve
14	Plug
15	Slotted set screw
16	Plug
17	Retaining ring
18	Copper gasket
19	Gasket
20	Plug
21	Copper gasket
22	Check valve
23	Cover
24	Hexagon socket head cap screw
25	Set screw

264 EXHAUST VALVE DRIVING GEAR, UPPER PART

264000

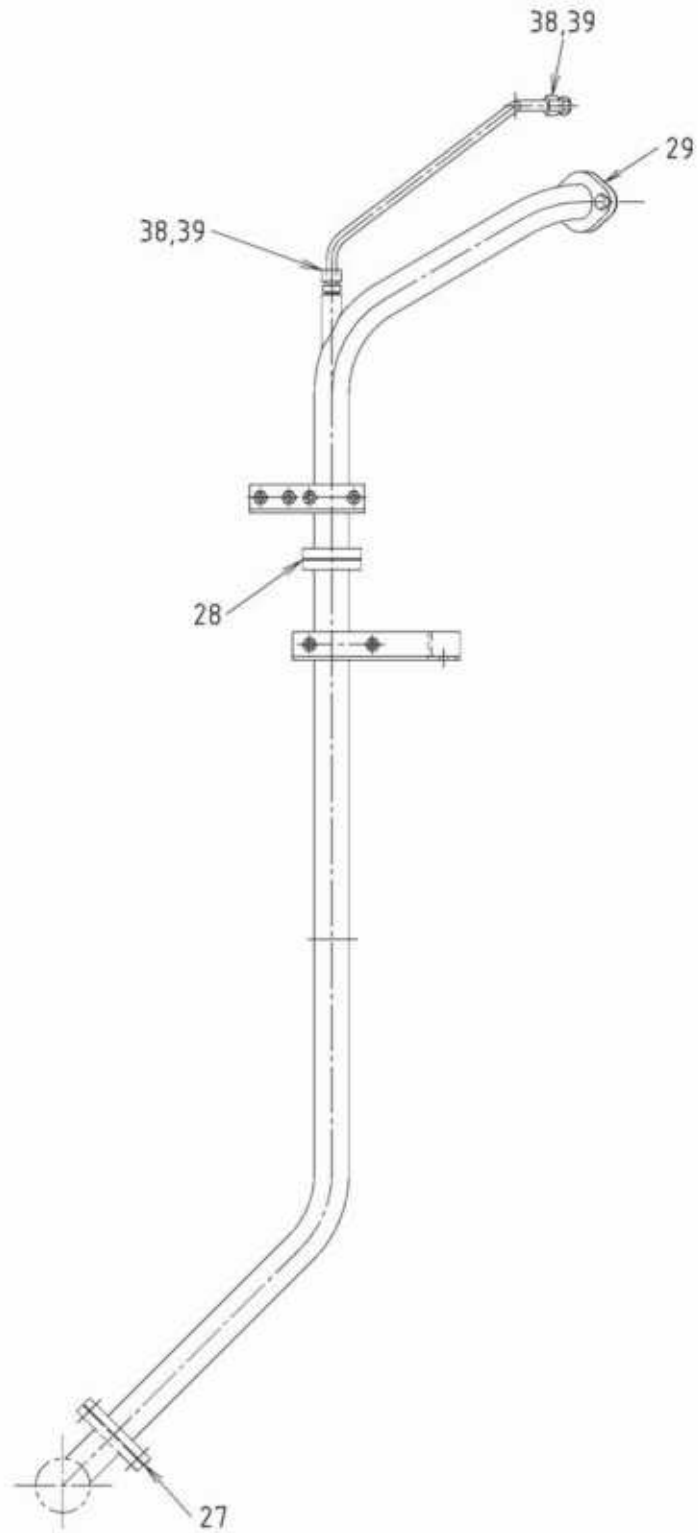


2-U3-3C003 T7
57-08

Key No.	Description
264000	Exhaust valve driving gear, upper part assembly
2	Hydraulic pressure cylinder
3	Piston
4	Piston ring
5	Stopper plate
6	Orifice assembly (Consist of 264012 and 264013)
7	O-ring
10	Plug
11	Gasket
12	Orifice set bolt
13	Orifice nozzle
14	Bolts with wire hole
15	Wire

264 EXHAUST VALVE DRAIN BRANCH PIPE

264020

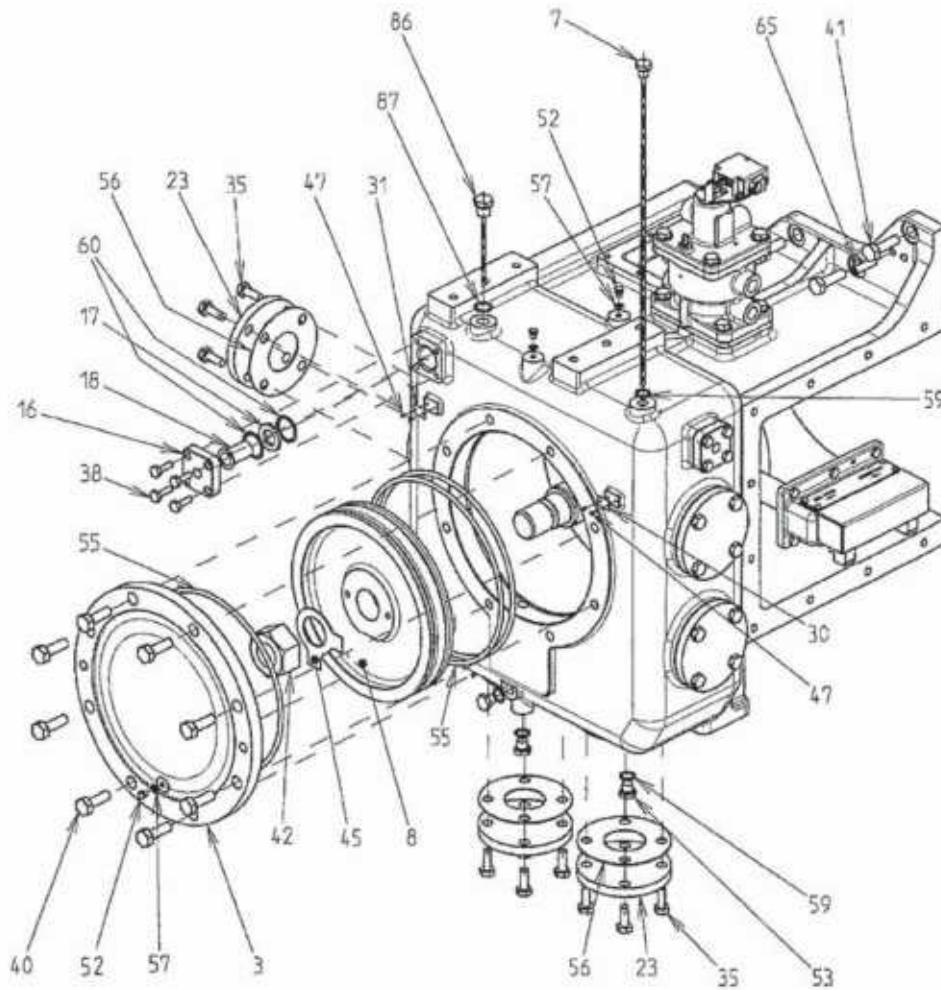


1-U7-3C508 T1
67-02

Key No.	Description
264020	Exhaust valve drain branch pipe
27	Full-face gasket
28	Gasket
29	Gasket
38	Bite type fitt.
39	Copper gasket

271 CAMSHAFT SHIFTING GEAR

271000

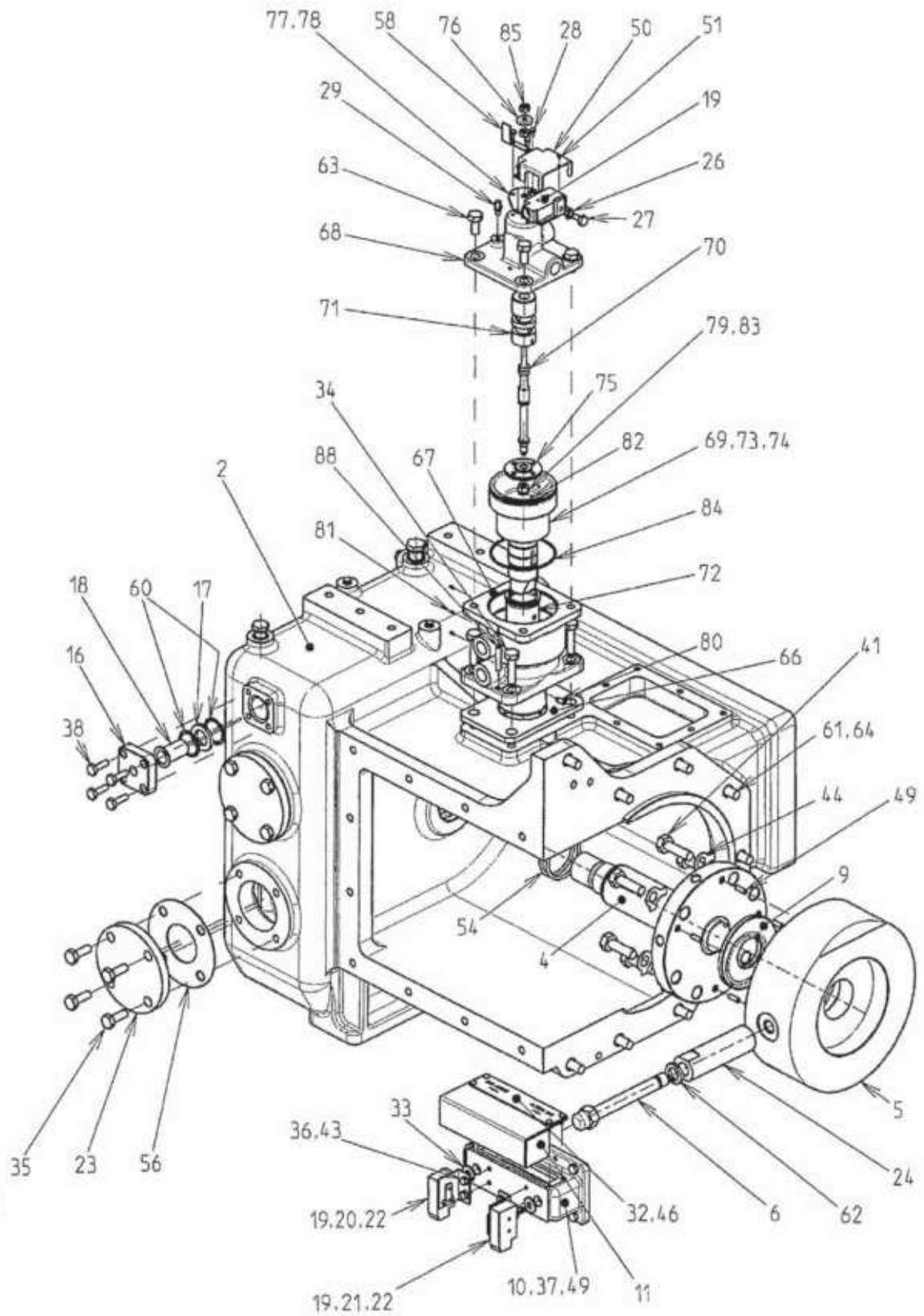


2-K5-3C011 T15 / 1-K5-3C012 T8
61-04 61-04

271 CAMSHAFT SHIFTING GEAR

271000

2-K5-3C011 T15 / 1-K5-3C012 T8
61-04
61-04

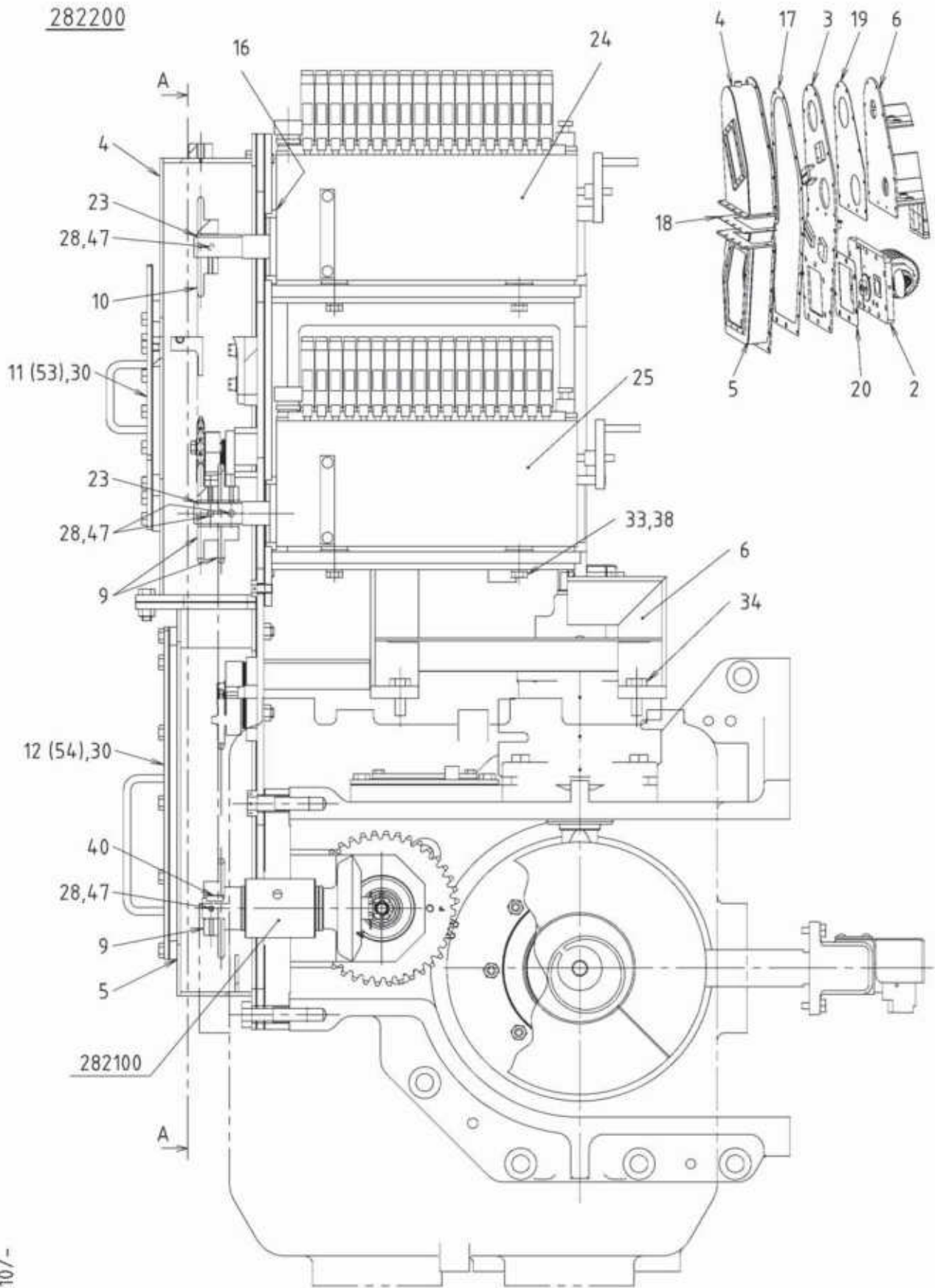


Key No.	Description
271000	Camshaft shifting gear complete
2	Servo cylinder
3	Cylinder cover
4	Piston rod
5	Thrust holder
6	Pointer
7	Gauge(AH side)
8	Servo piston
9	Thrust pad
10	Pointer case
11	Limit switch cover
16	Cover
17	Clamp
18	Filter element
19	Limit switch
20	Bracket
21	Bracket
22	Plate
23	Blank flange
24	Stopper
26	Nut
27	Bolt
28	Bolt
29	Grease nipple
30	Name plate
31	Name plate
32	Name plate
33	Rubber ring
34	Bolt
35	Bolt
36	Bolt
37	Bolt
38	Bolt

Key No.	Description
271000	Camshaft shifting gear complete
40	Bolt
41	Bolt
42	Nut
43	Spring washer
44	Double tongued washer
45	Washer
46	Pan head screw
47	Pan head screw
49	Spring pin
50	Limit switch cover
51	Pan head screw
52	Plug with air vent hole
53	Plug
54	O-ring
55	O-ring
56	Full-face gasket
57	Gasket
58	Name plate
59	Gasket
60	Copper gasket
61	Wire
62	Spring washer
63	Bolt
64	Hexagon head bolt with wire hole
65	thread end taper pin
66	Shim
67	Safety device main body
68	Cover
69	Camshaft stopper
70	Valve spindle
71	Bush
72	Bush
73	Spring(out)
74	Spring(in)
75	Spring tray(lower)

Key No.	Description
271000	Camshaft shifting gear complete
76	Pointer
77	Limit switch setting plate
78	Plain washer
79	Slotted and castle nut
80	Slotted set screw
81	headless set screw
82	headless set screw
83	Split pin
84	O-ring
85	Nut
86	Gauge(AS side)
87	Gasket
88	Thread end taper pin

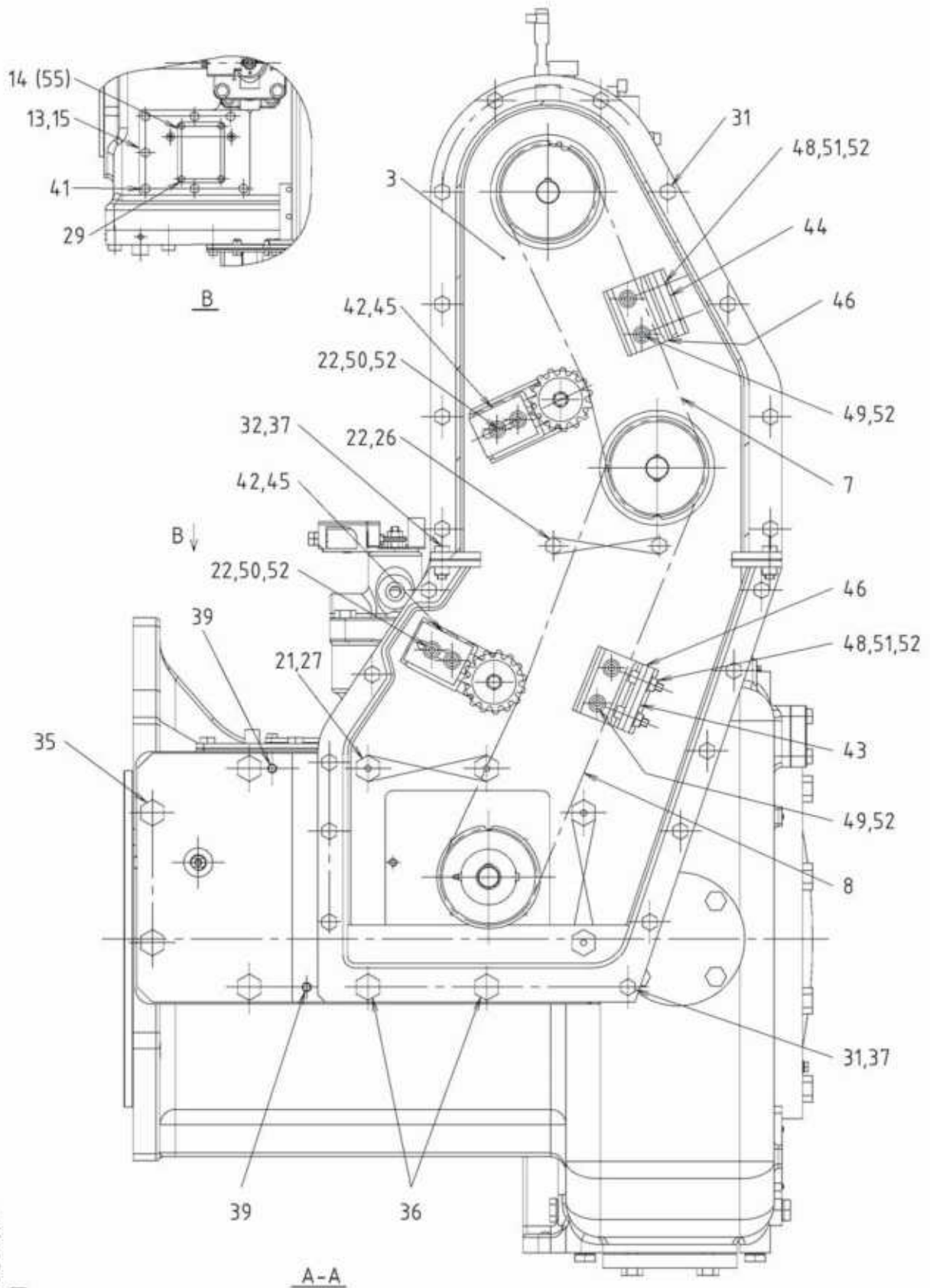
282 CYLINDER LUB. OIL DRIVING GEAR



1-K6-0C010/-
63-01

282 CYLINDER LUB. OIL DRIVING GEAR

282200

1-K6-0C010/-
63-01

45LSE-B2

282

Key No.	Part name
282200	Assembly for cylinder lub.oil driving gear
3	Plate
4	Chain case(upper part)
5	Chain case(lower part)
6	Support
7	Chain
8	Chain
9	Sprocket
10	Sprocket
11	Cover (Consist of 282253)
12	Cover (Consist of 282254)
13	Blind cover
14	Blind cover (Consist of 282255)
15	Gasket
16	Rubber ring
17	Gasket
18	Gasket
19	Gasket
20	Gasket
21	Steel wire
22	Steel wire
23	Parallel key
24	Cylinder lubricator
25	Cylinder lubricator
26	Hexagon head bolts with wire hole
27	Hexagon head bolts with wire hole
28	Tread end taper pin
29	Bolt
30	Bolt
31	Bolt
32	Bolt
33	Bolt
34	Bolt
35	Bolt
36	Bolt
37	Hexagon nut

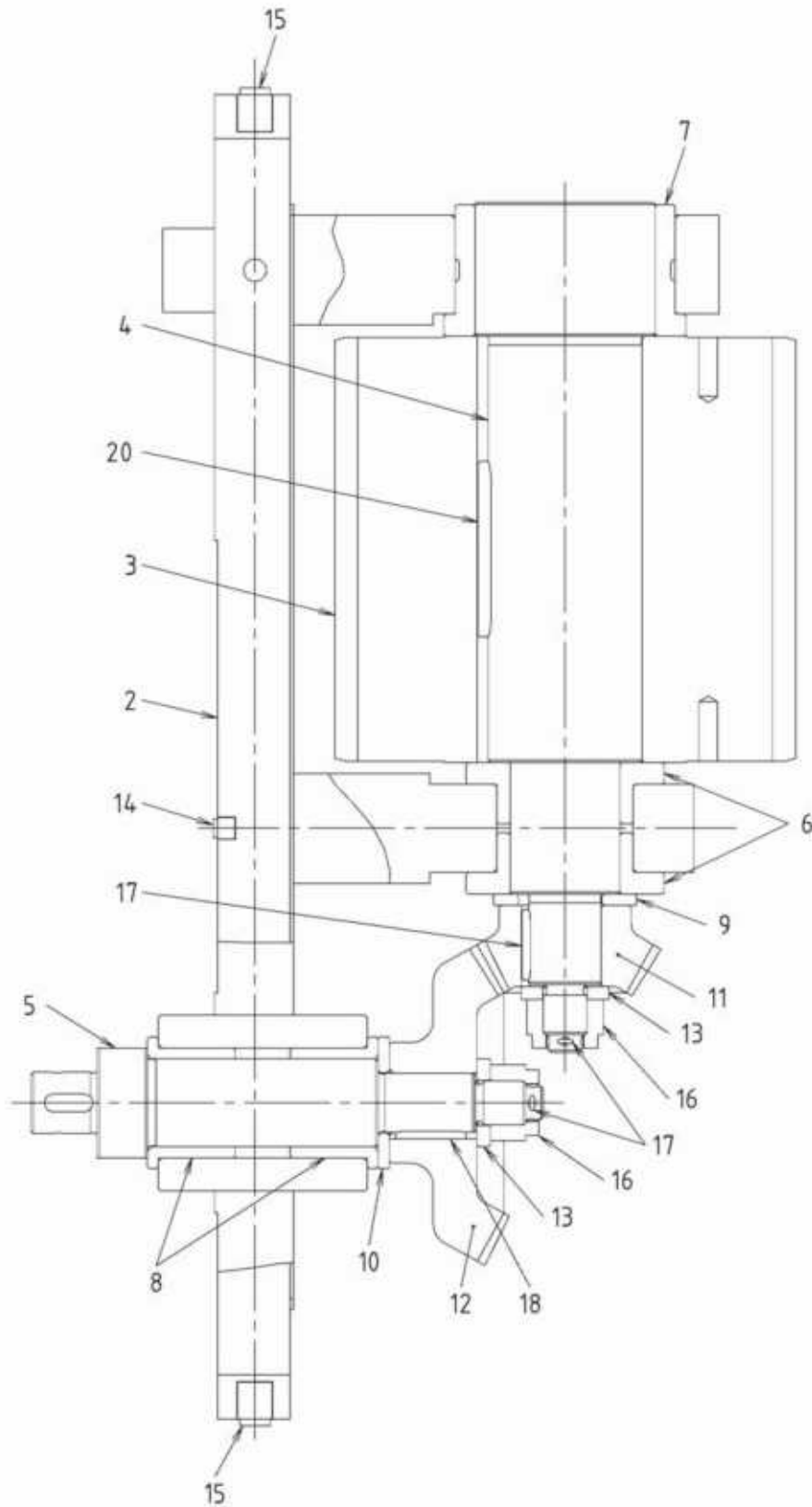
1-K6-0C010/-

Key No.	Part name
282238	Spring washer
39	Taper pin
40	Parallel key
41	Bolt
42	Shim
43	Chain guide bracket
44	Chain guide bracket
45	Tensioner
46	Chain guide
47	U-nuts
48	U-nuts
49	Hexagon socket head bolt
50	Hexagon socket head bolt
51	Socket head cap screw
52	Plain washer
53	Gasket
54	Gasket
55	Gasket

1-K6-0C010/-

282 CYLINDER LUBRICATOR DRIVING GEAR

282100



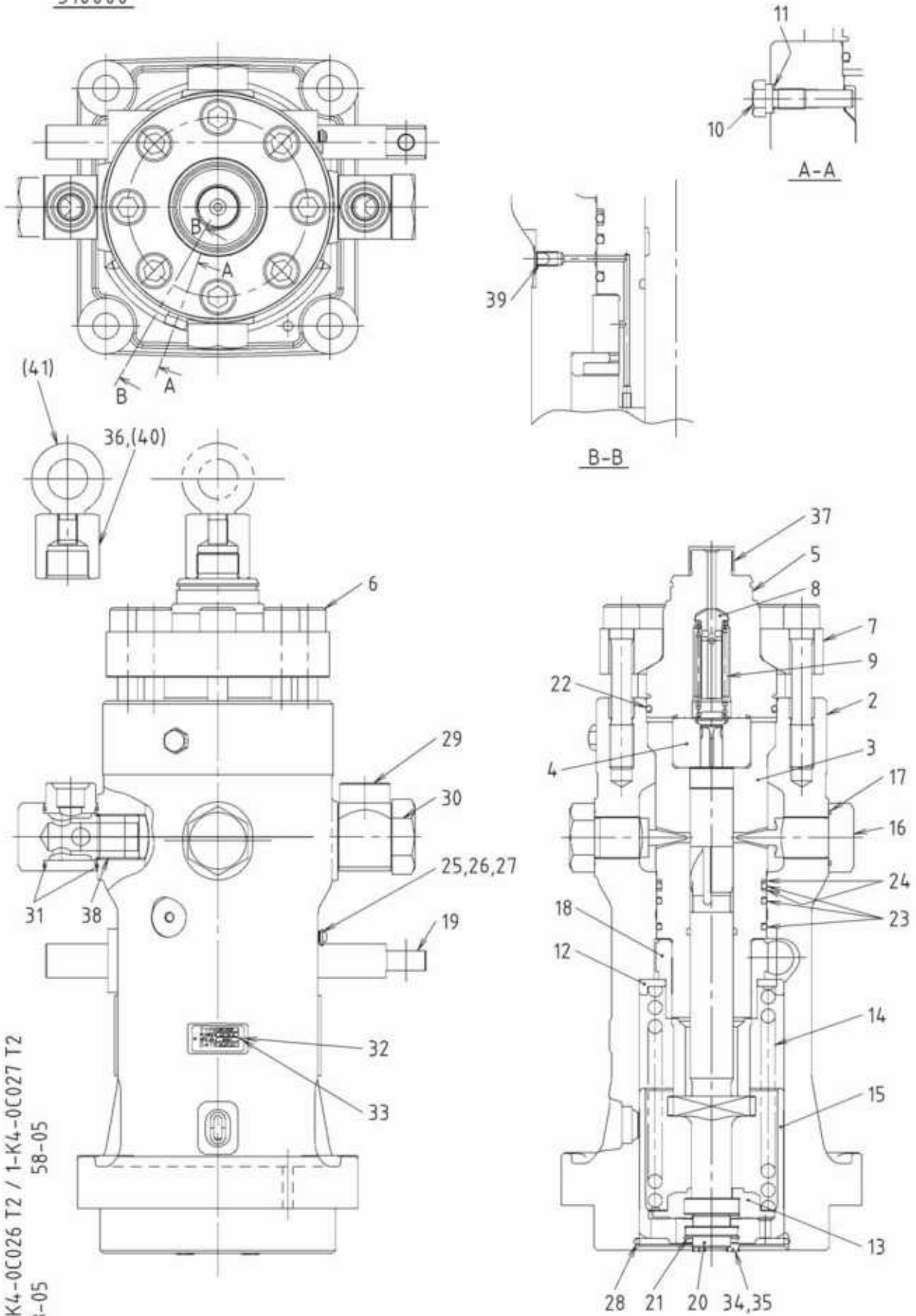
1-K6-0C002/T4
63-01

Key No.	Part name
282100	Cylinder lubricator driving gear complete
2	Gear bearing support
3	Spur gear
4	Shaft(large)
5	Shaft(small)
6	Bush
7	Bush
8	Bush
9	Collar
10	Collar
11	Bevel gear
12	Bevel gear
13	Washer
14	Headless set screw
15	Headless set screw
16	Slotted and castle nut
17	Split pin
18	Parallel key
19	Parallel key
20	Parallel key

1-K6-0C002/T4

310 FUEL INJECTION PUMP

310000



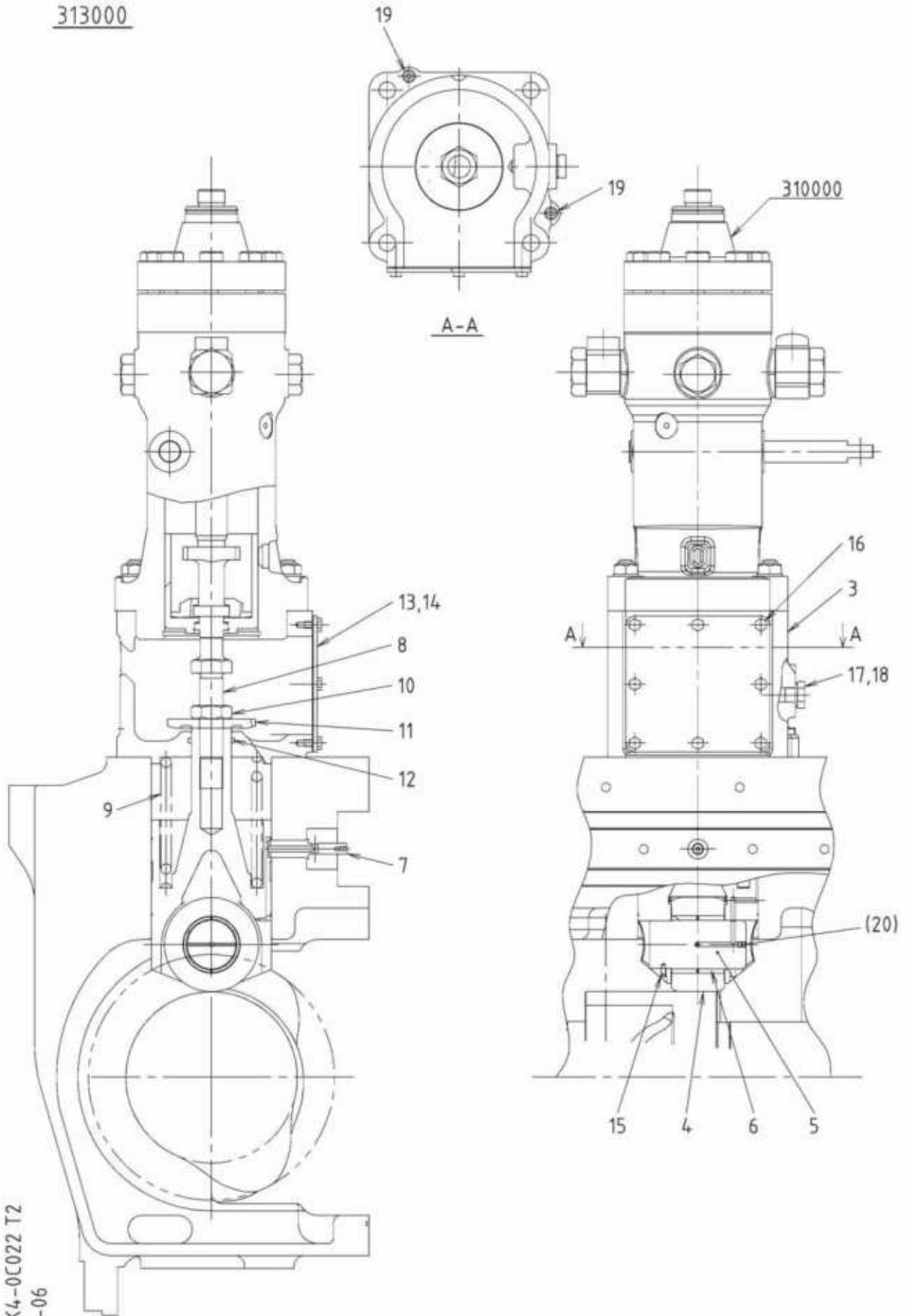
1-K4-0C026 T2 / 1-K4-0C027 T2
58-05

Key No.	Description
310000	Fuel injection pump assembly
2	Pump housing
3	Plunger assembly
4	Delivery valve assembly
5	Delivery valve holder
6	Bolt
7	Flange
8	Delivery spring seat
9	Spring
10	Barrel set bolt
11	Barrel set washer
12	Upper spring seat
13	Under spring seat
14	Plunger spring
15	Plunger guide
16	Defector
17	O-ring
18	Pinion
19	Rack
20	Adjusting piece
21	Retaining ring
22	O-ring
23	O-ring
24	Back-up ring
25	Pointer
26	Pan head screw
27	Shim
28	Snap ring
29	Suction pipe connector
30	Set bolt of connector
31	O-ring
32	Name plate
33	Tack
34	Hexagon socket head cap screw
35	Lock wire
36	Eye-nut assembly (Consist of 331040 and 331041)
37	Cap for external thread
38	Cap for external thread

Key No.	Description
310039	Cap for hole
40	Joint
41	Eye bolt

313 FUEL INJECTION PUMP DRIVING GEAR

313000

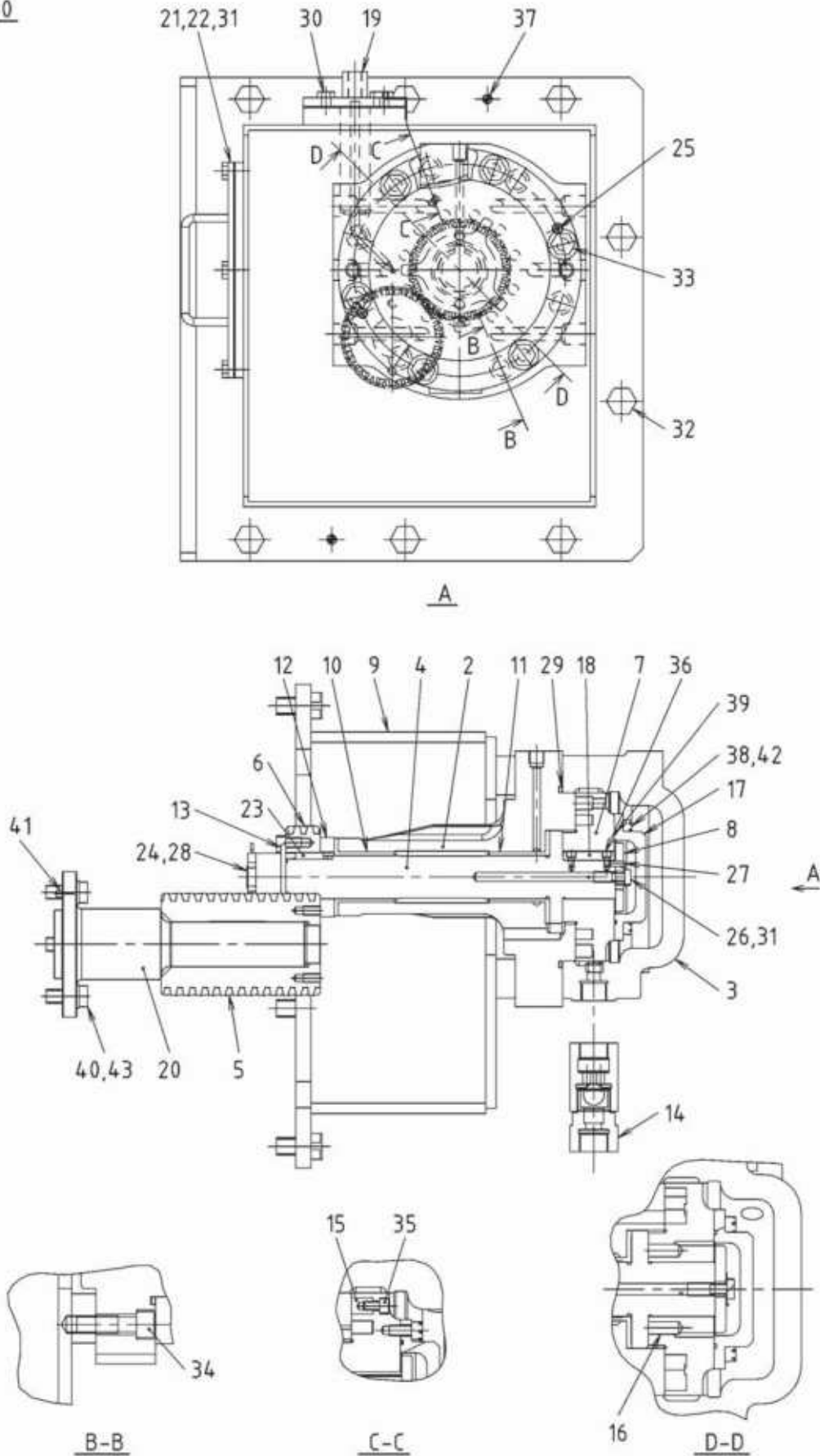


1-K4-0C022 T2
58-06

Key No.	Description
313000	Fuel injection pump driving gear assembly
2	Roller guide
3	Pump stand
4	Roller
5	Roller pin assembly (Consist of 313020)
6	Bush
7	Guide pin
8	Push rod
9	Spring
10	Lock nut
11	Pump cut off plate
12	O-ring
13	Cover
14	Gasket
15	Slotted set screw
16	Bolt
17	Plug
18	Copper gasket
19	Hexagon socket head cap screw
20	Slotted set screw

323 STARTING AIR CONTROL VALVE

323000



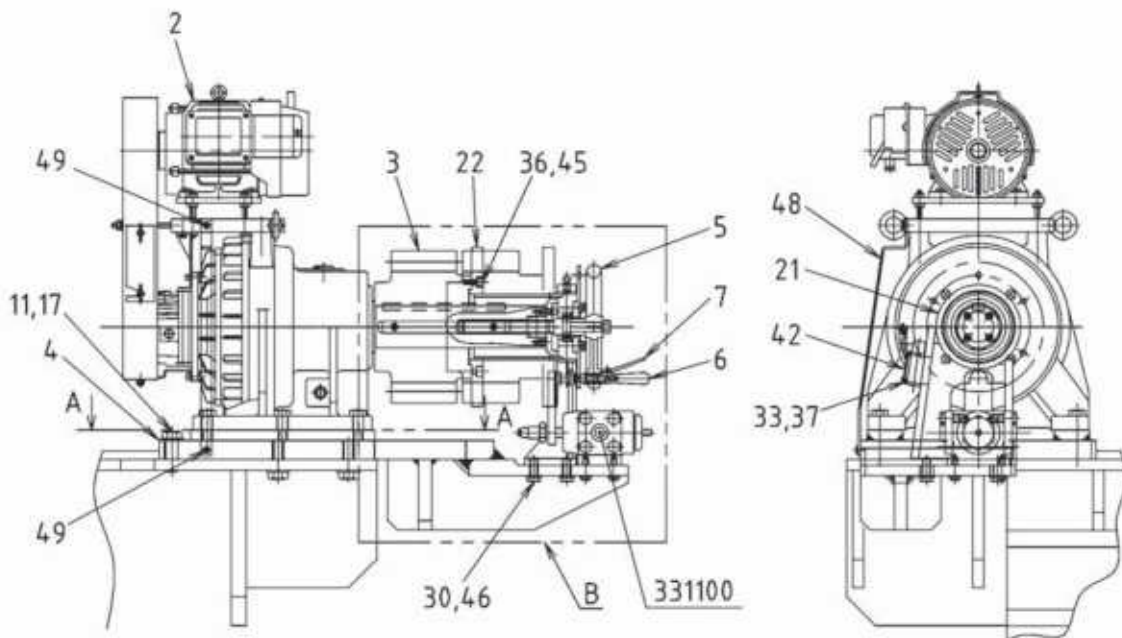
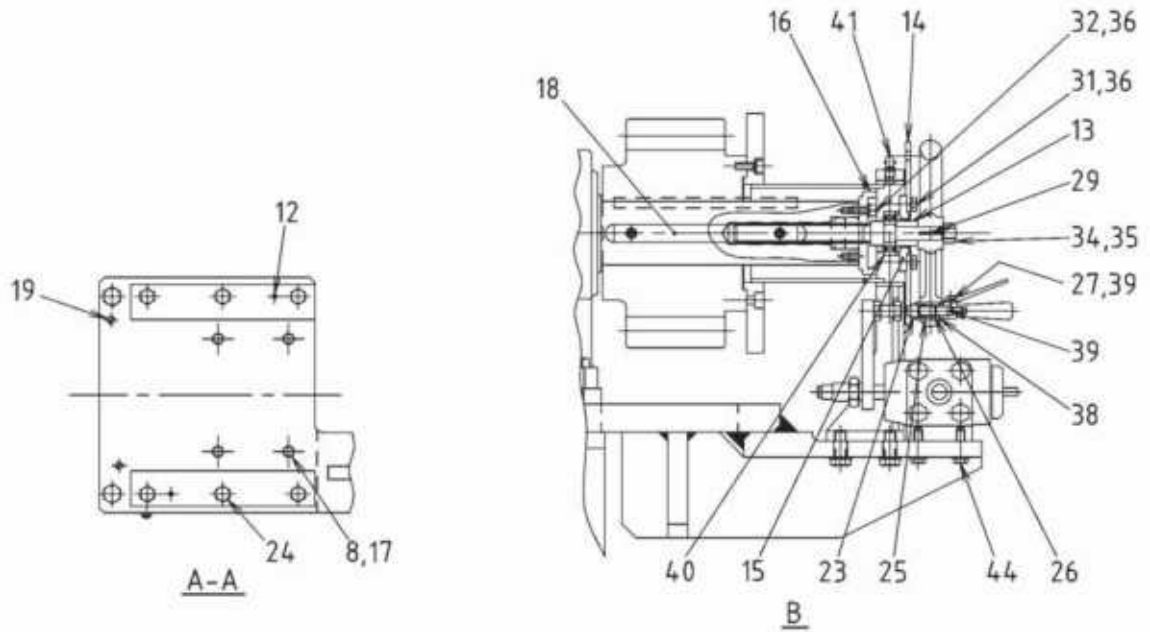
1-K5-1C019
60-05

Key No.	Description
323000	Starting air control valve assembly
2	Bearing support
3	Cover
4	Driving gear shaft
5	Driving gear (large)
6	Driving gear (small)
7	Turning disc
8	Turning disc stopper
9	Housing
10	Bush
11	Bush
12	Adjusting plate
13	Washer
14	Check valve assembly (Consist of 323044~323048)
15	Adjusting piece
16	Spring
17	Cover
18	Key
19	Lubrication pipe (Consist of 323049)
20	Gear shaft
21	Inspection cover
22	Gasket
23	Square Key
24	Slotted and castle nut
25	Parallel pin
26	Pawl washer
27	Parallel pin
28	Split pin
29	O-ring
30	Bolt
31	Bolt
32	Bolt
33	Bolt
34	Hexagon socket head cap screw
35	Hexagon socket head cap screw
36	Hexagon socket head cap screw
37	Thread end taper pin
38	Hexagon socket head cap screw

Key No.	Description
323039	O-ring
40	Bolts with wire hole
41	Parallel pin
42	Wire
43	Wire
44	Special fitting
45	Steel ball
46	Spring
47	Check valve
48	Copper gasket
49	Gasket

331 TURNING GEAR

331000

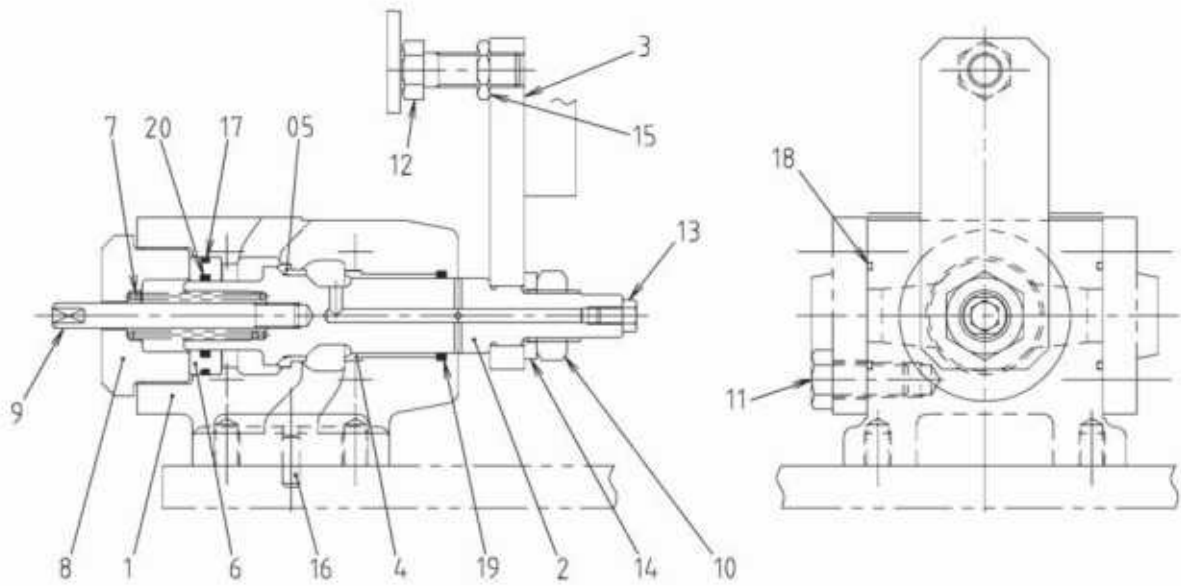


1-K6-4C021 T3
63-09

Key No.	Description
331000	Turning gear complete
2	Turning gear
3	Gear wheel
4	Turning gear support
5	Handle
6	Handle knob
7	Lever
8	Bolt
11	Bolt
12	Thread end taper pin
13	Collar
14	Fixed plate
15	Cover
16	Female screw
17	Plain washer
18	Male screw
19	Thread end taper pin
21	Bearing stand
22	Change-over plate
23	Stopper pin
24	Bolt
25	Bush
26	Spring
27	Pin
29	Parallel key
30	Bolt
31	Bolt
32	Socket head cap bolt
33	Pan head screw
34	Nut
35	Spring washer
36	Spring washer
37	Spring washer
38	Plain washer

Key No.	Description
331039	Taper pin
40	Ball bearing
41	Grease nipple
42	Limit switch
44	Bolt
45	Socket head cap bolt
46	Plain washer
47	Plain washer
48	Support
49	Bolt

331 INTERLOCKING VALVE

331100

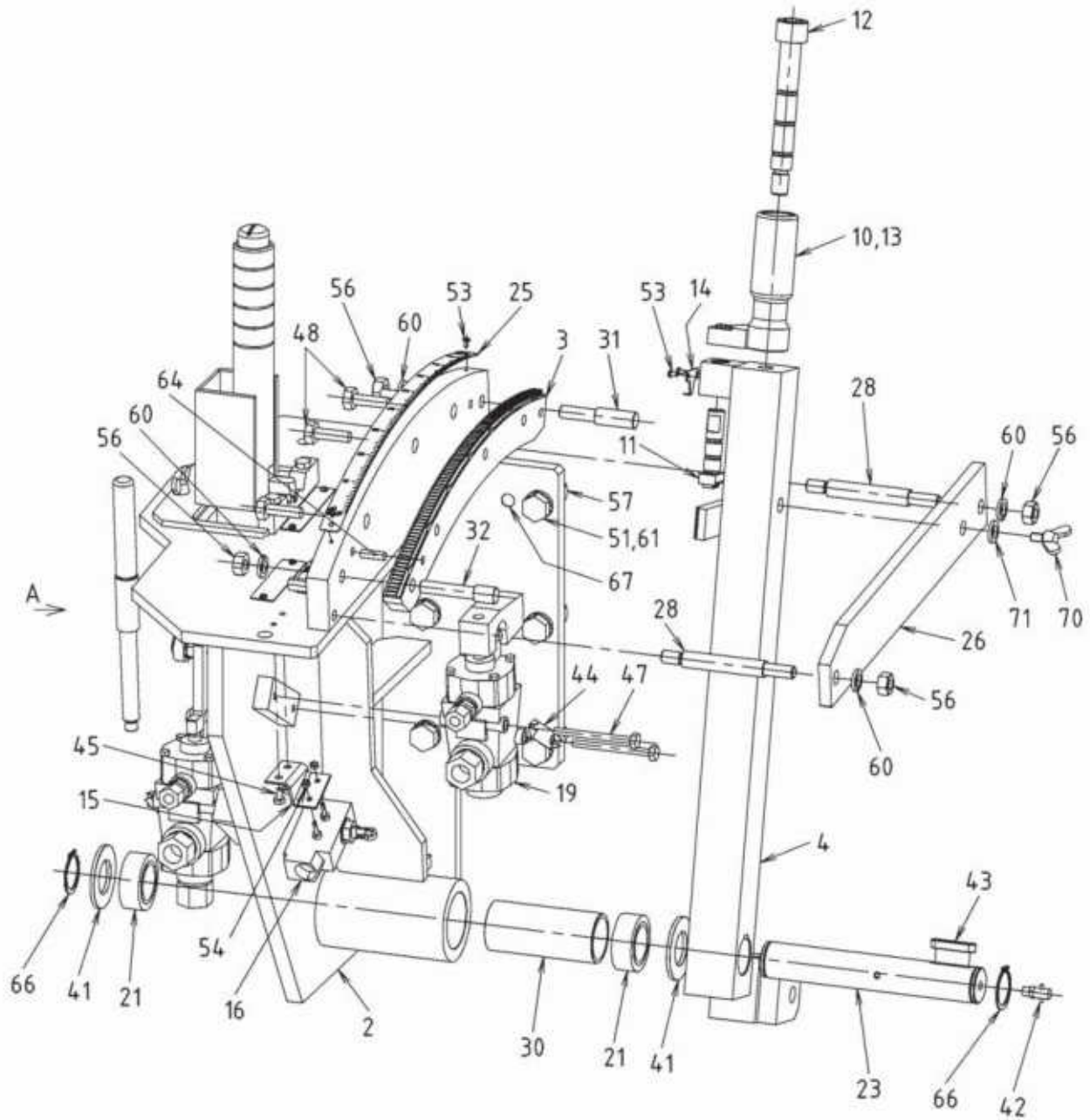
3-K6-4C009/T2
63-09

Key No.	Description
331100	Interlocking valve complete
1	Valve body
2	Spindle
3	Plate
4	Bush
5	Valve seat
6	Spindle guide
7	Spring
8	Spring retainer
9	Bolt
10	Nut
11	Bolt
12	Bolt
13	Bolt
14	Spring washer
15	Lock nut
16	Dowel pin
17	O-ring
18	O-ring
19	O-ring
20	O-ring

3-K6-4C009/T2

350 MANEUVERING HANDLE

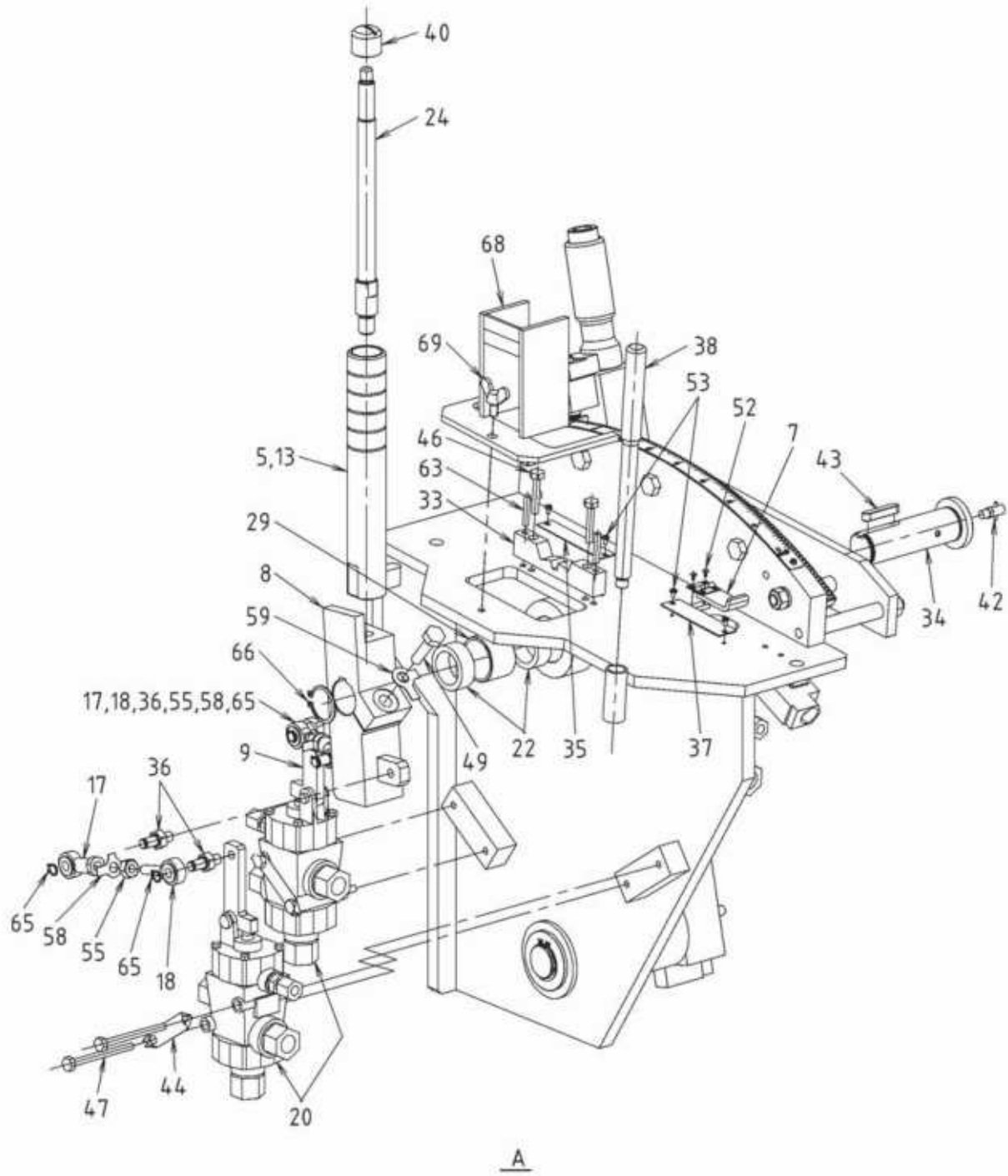
350000



1-K5-0C014
59-07

350 MANEUVERING HANDLE

350000



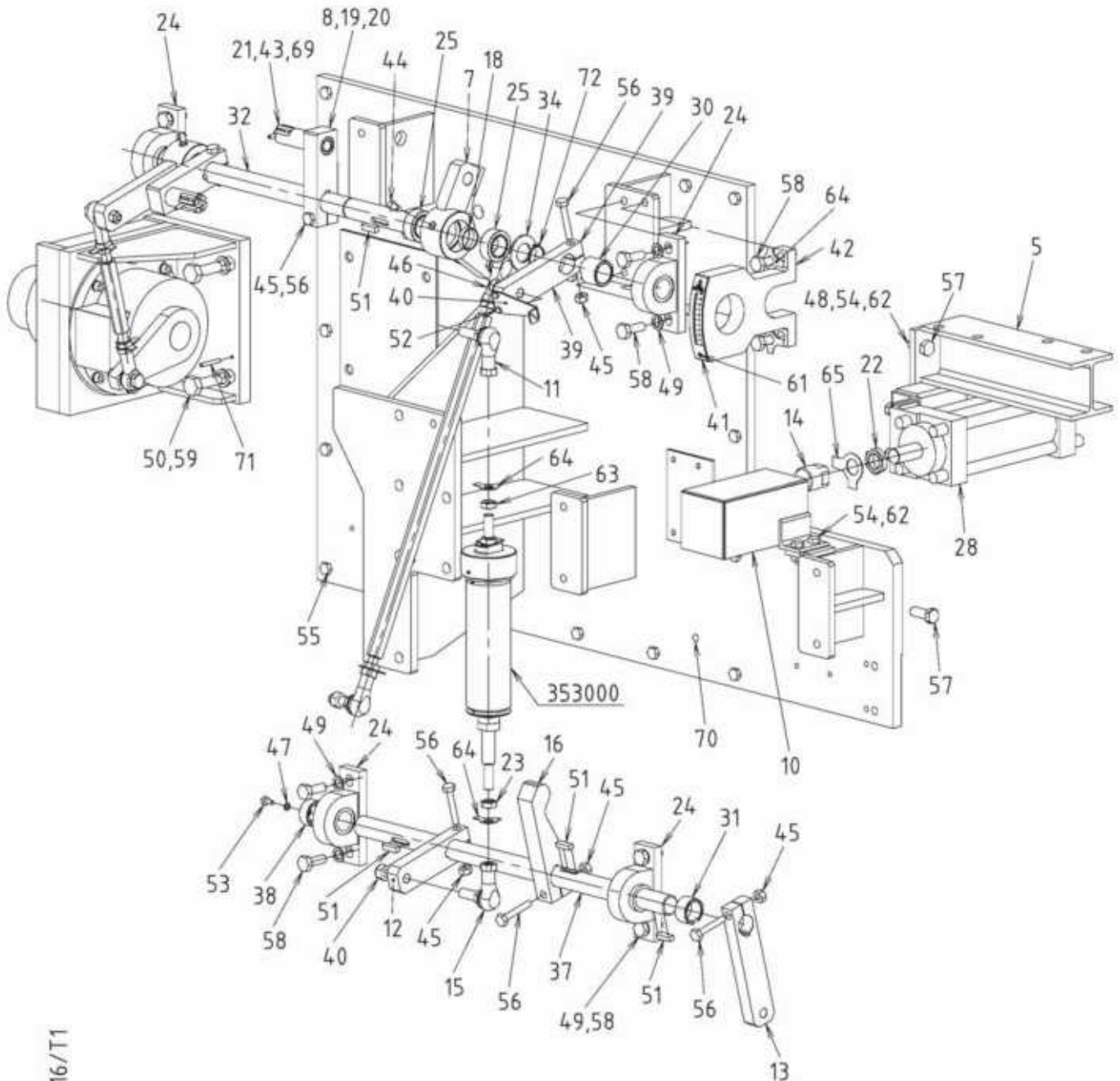
1-K5-0C014
59-07

Key No.	Description
350000	Maneuvering handle
2	Main body
3	Handle guide
4	Lever
5	Reversing handle
7	Cover
8	Reversing handle lever
9	Lever
10	Fuel handle
11	Pin
12	Fuel handle shaft center
13	Spring
14	Pointer
15	Limit switch fixing bracket
16	Limit switch
17	Rod end bearing
18	Rod end bearing
19	Starting pilot valve (high pressure)
20	Reversing pilot valve
21	Needle bearing
22	Needle bearing
23	Shaft
24	Shaft
25	Scale plate
26	Handle guide
28	Guide screw
29	Distance piece
30	Distance piece
31	Pin
32	Pin
33	Guide piece for reverse
34	Shaft for reversing handle
35	Name plate
36	Fixing pin
37	Name plate
38	Starting handle

Key No.	Description
350040	Socket plug
41	Washer
42	Grease nipple
43	Parallel key
44	Locking plate-A
45	Bolt
46	Bolt
47	Bolt
48	Bolt
49	Bolt
51	Bolt
52	Countersink head screw
53	Pan head screw
54	Nut
55	Nut
56	Nut
57	Nut
58	Double tongued washer
59	Double tongued washer
60	Spring washer
61	Spring washer
63	Parallel pin
64	Parallel pin
65	Retaining ring of shaft
66	Retaining ring of shaft
67	Parallel pin
68	Stopper
69	Wing bolt
70	Wing bolt
71	Plane washer

352 FUEL CONTROL LINKAGE

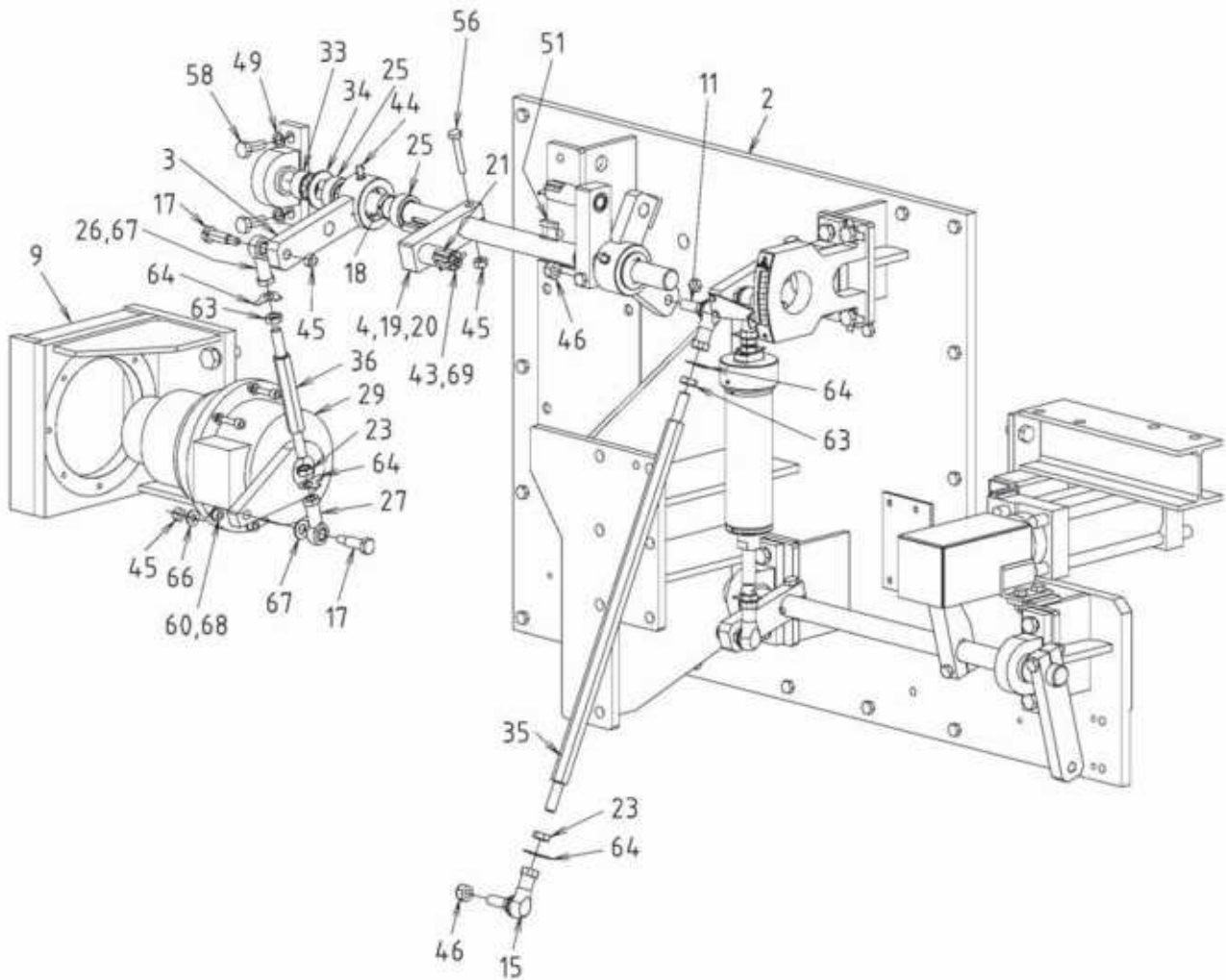
352000



1-K5-2C015/T1, 1-K5-2C016/T1
61-10

352 FUEL CONTROL LINKAGE

352000



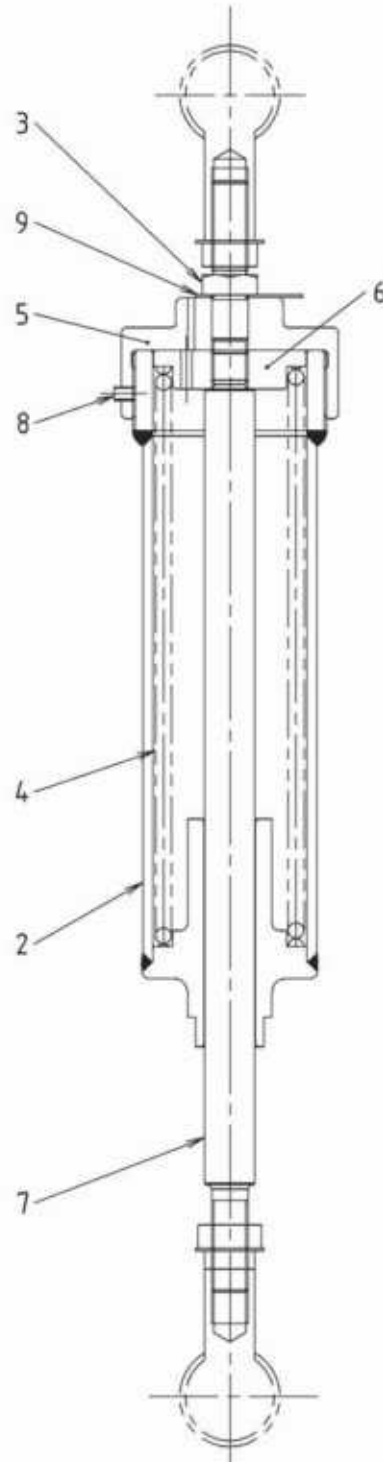
1-K5-2C015/T1,1-K5-2C016/T1
61-10

Key No.	Description
352000	Fuel control linkage
2	Plate assembly
3	Free lever
4	Lever
5	Fitting base assembly
7	Free lever
8	Lever
9	Fitting base assembly
10	Cover
11	Rod end bearing
12	Lever
13	Lever
14	Retaining ring
15	Rod end bearing
16	Lever
17	Pin
18	Distance piece
19	Lock pin
20	Spring
21	Name plate
22	Nut
23	Nut
24	Pillow type unit
25	Bearing
26	Rod end bearing
27	Rod end bearing
28	Cylinder
29	Governor actuator
30	Distance piece
31	Distance piece
32	Shaft
33	Distance piece
34	Washer
35	Link
36	Link
37	Shaft
38	Cap

Key No.	Description
352039	Lever
40	Pointer
41	Scale plate
42	Bracket (scale plate)
43	Slotted set screw
44	Grease nipple
45	U-nut
46	U-nut
47	Conical spring washer
48	Conical spring washer
49	Conical spring washer
50	Conical spring washer
51	Parallel key
52	Bolt
53	Bolt
54	Bolt
55	Bolt
56	Bolt
57	Bolt
58	Bolt
59	Bolt
60	Hexagon socket head cap screw
61	Countersink head screw
62	Nut
63	Nut
64	Double tongued washer
65	Double tongued washer
66	Plane washer
67	Plane washer
68	Spring washer
69	Parallel pin
70	Parallel pin
71	Spring pin
72	Retaining ring of shaft

353 SPRING BOX

353000

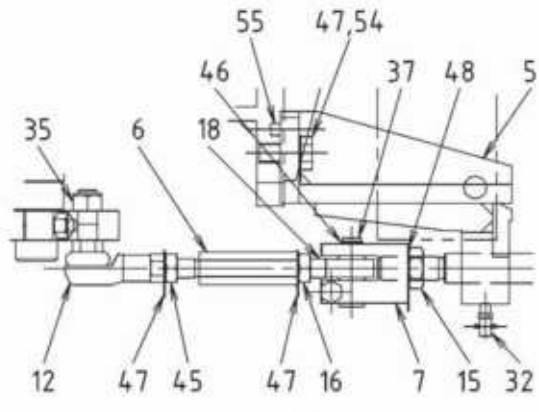
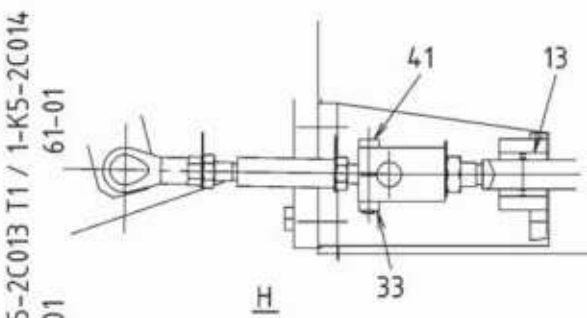
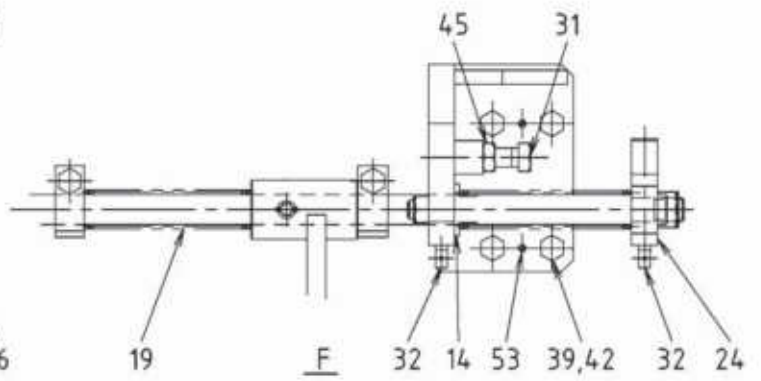
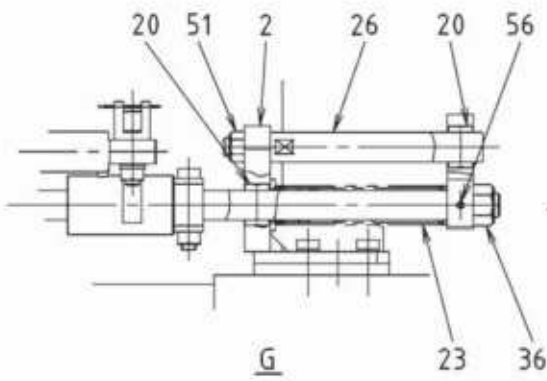
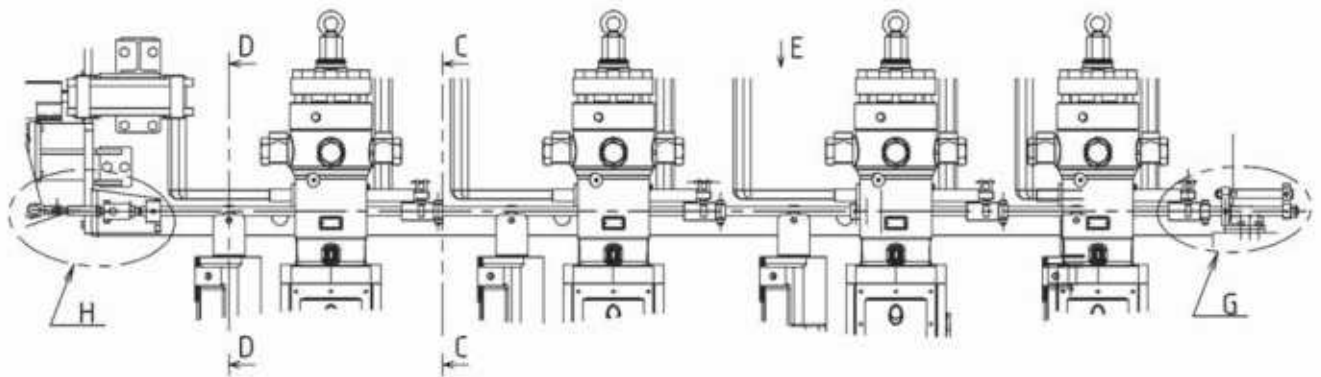
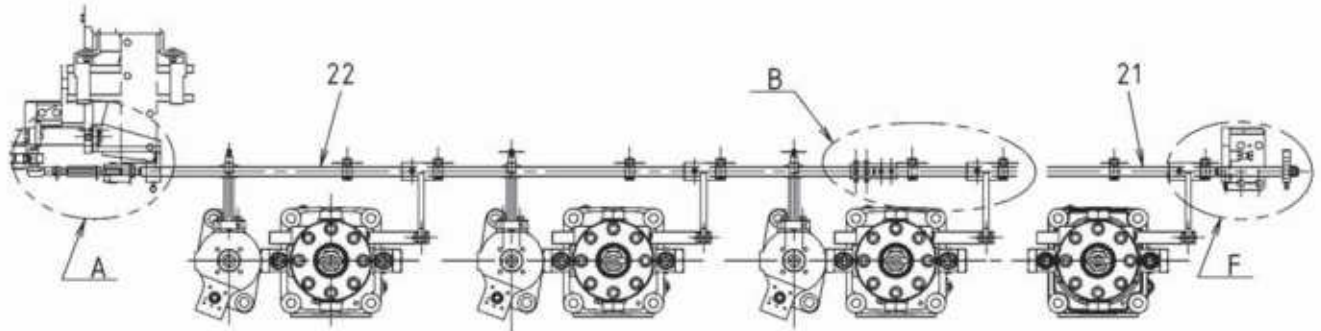


2-U5-2C030
60-10

Key No.	Description
353000	Spring box for fuel control linkage
2	Spring box body
3	Bolt
4	Spring
5	Spring retainer
6	Spring carrier
7	Link
8	Headless set screw
9	Double tongued washer

354 FUEL CONTROL LINKAGE

354000



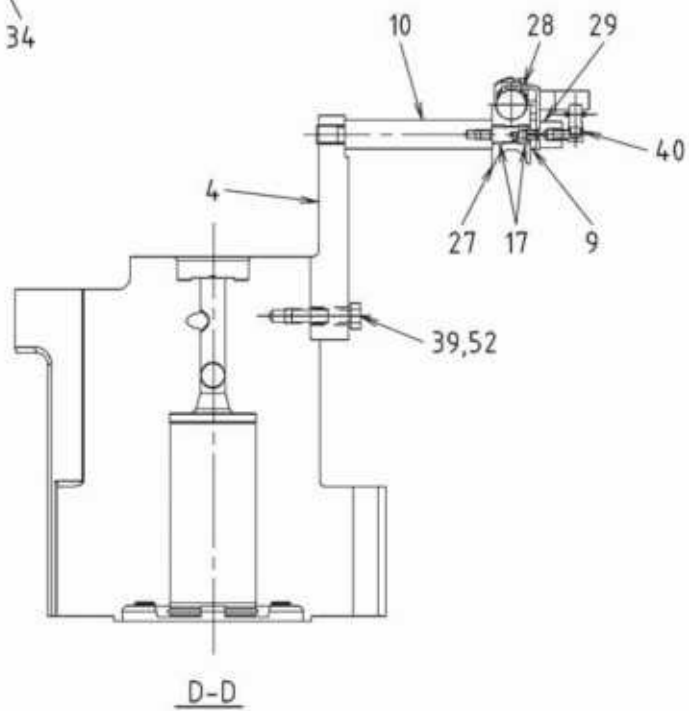
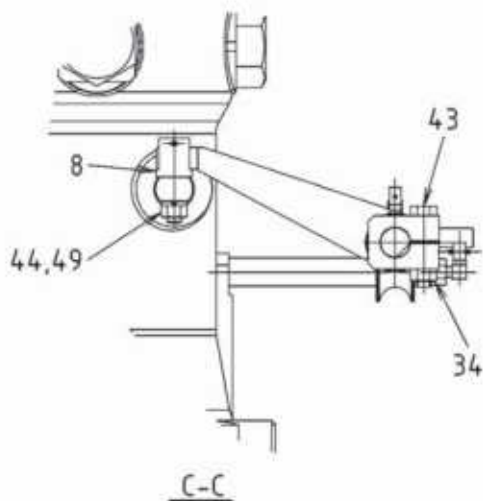
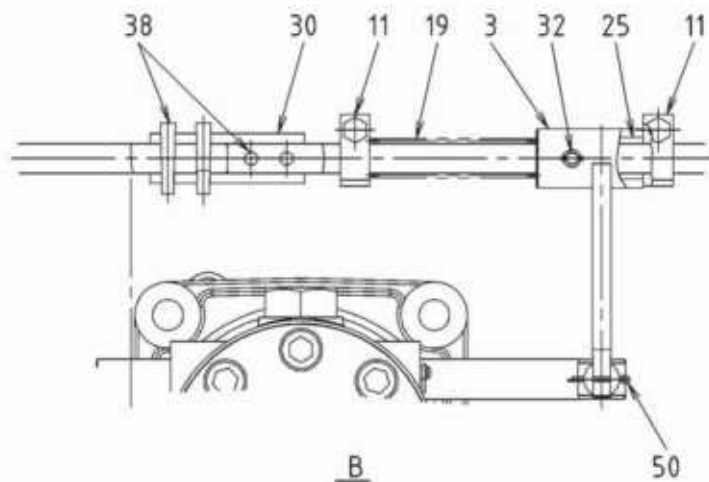
1-K5-2C013 T1 / 1-K5-2C014
61-01

45LSE

354

354 FUEL CONTROL LINKAGE

354000



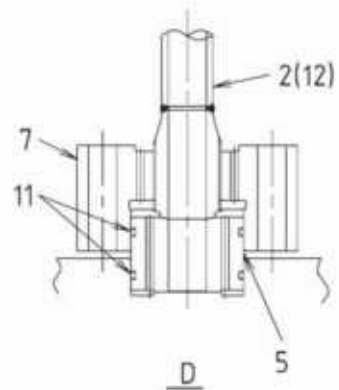
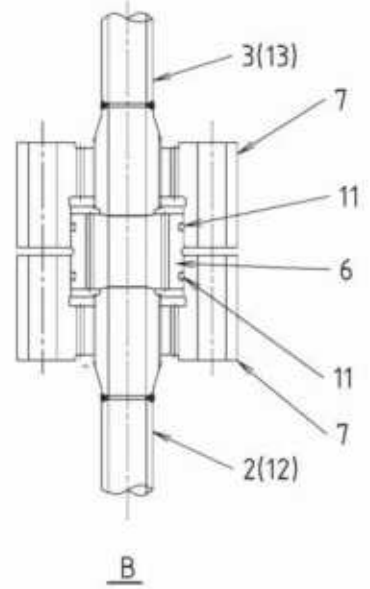
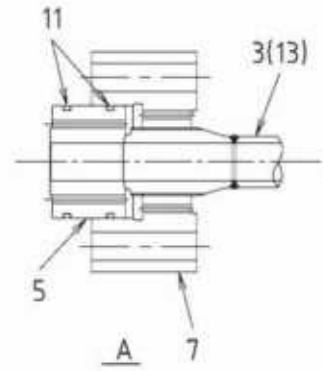
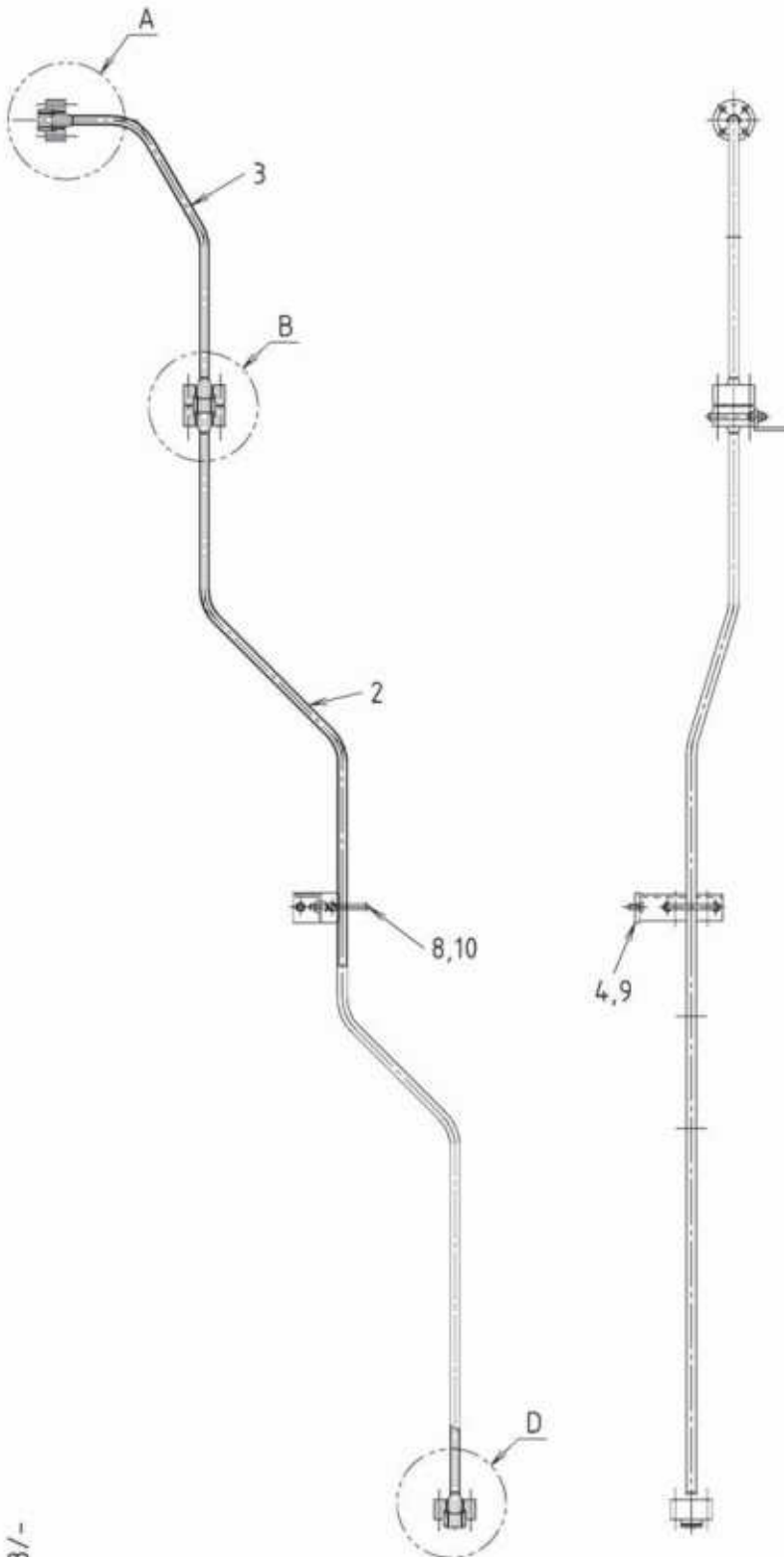
1-K5-2C013 T1 / 1-K5-2C014
61-01 61-01

Key No.	Description
354000	Fuel control linkage assembly
2	Bearing (for driving end)
3	Lever
4	Bracket
5	Bearing (for free end)
6	Link
7	Fork
8	Free joint
9	Shaft (For roller)
10	Bearing support
11	Spring carrier
12	Rod end bearing
13	Bush
14	Washer
15	Nut
16	Nut
17	Needle bearing
18	Rod end bearing
19	Spring
20	Bush
21	Shaft (for driving end)
22	Shaft (for free end)
23	Spring
24	Bearing (for locking)
25	Bush
26	Shaft (for locking)
27	Roller
28	Plate
29	Bolt (For roller)
30	Joint
31	Bolt
32	Grease nipple
33	U-nut
34	U-nut
35	U-nut
36	U-nut
37	Pins with head
38	Split taper pin

Key No.	Description
354039	Conical spring washer
40	Grease nipple pin type
41	Bolt
42	Bolt
43	Bolt
44	Nut
45	Nut
46	Retaining ring of shaft
47	Double tongued washer
48	Double tongued washer
49	Spring washer
50	Split pin
51	U-nut
52	Bolt
53	Parallel pin
54	Bolt
55	Parallel pin
56	Parallel pin

531 EXHAUST VALVE DRIVING HIGH PRESS. OIL PIPE

531000



1-U7-3C518/-
67-02

45LSE-B2

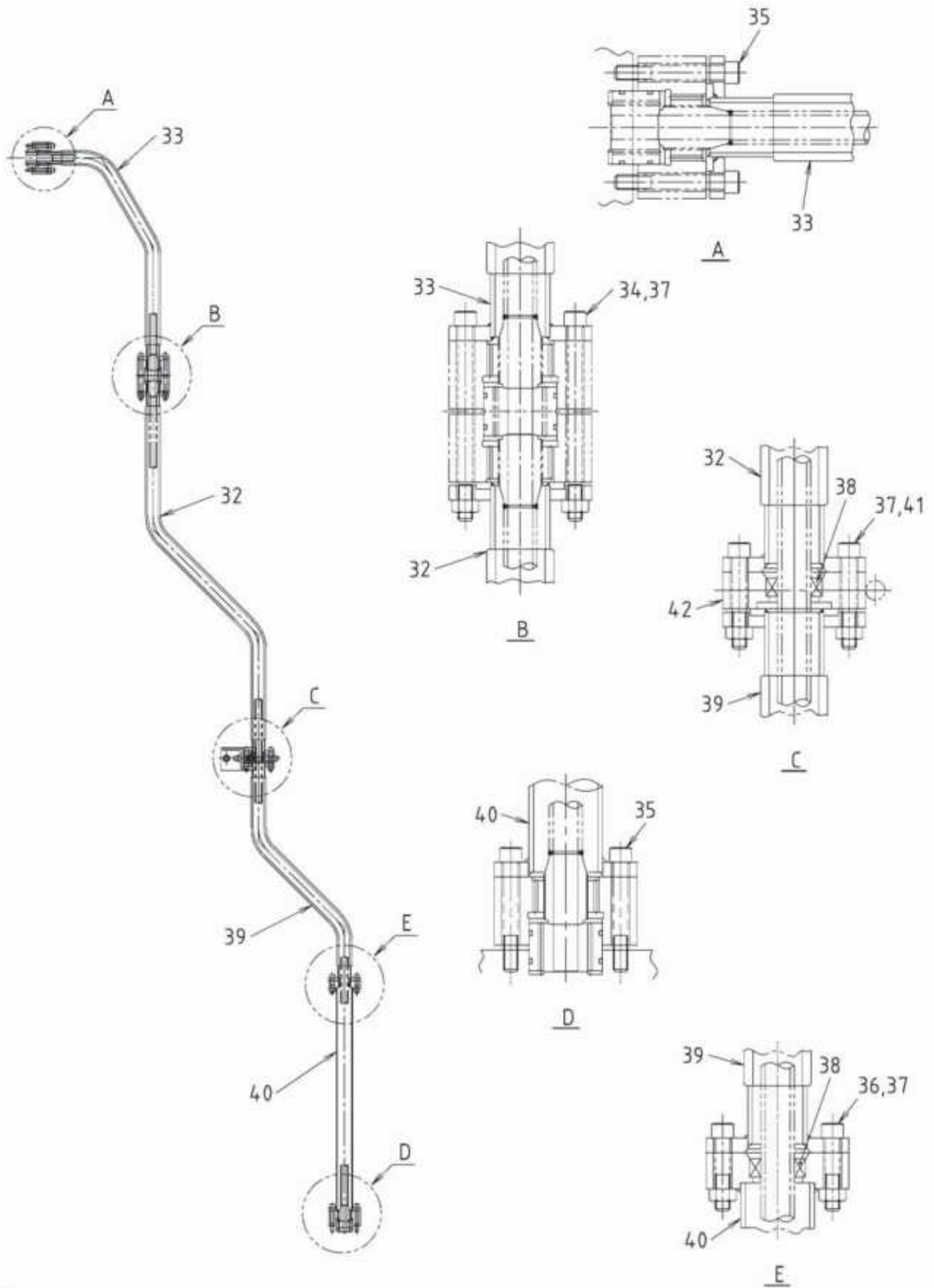
531

Key No.	Description
531000	Exhaust valve driving high press. oil pipe
2	Pipe assembly (Consist of 531012)
3	Pipe assembly (Consist of 531013)
4	Pipe support assembly
5	Joint ring
6	Joint ring
7	Flange
8	Special U-bolt
9	Bolt
10	Nut
11	O-ring
12	Rubber tape
13	Rubber tape

1-U7-3C518/-

531 PROTECTION PIPE EXHAUST VALVE DRIVING HIGH PRESS. OIL PIPE

531030

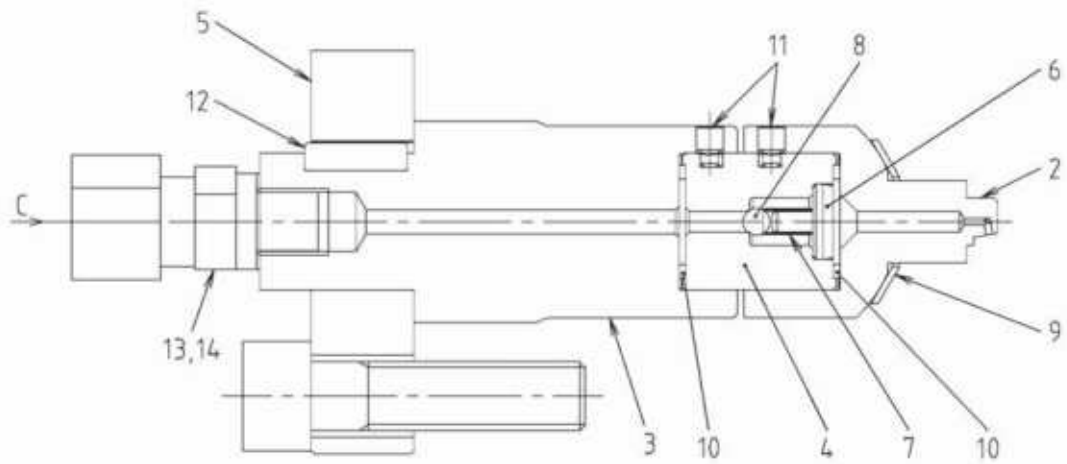
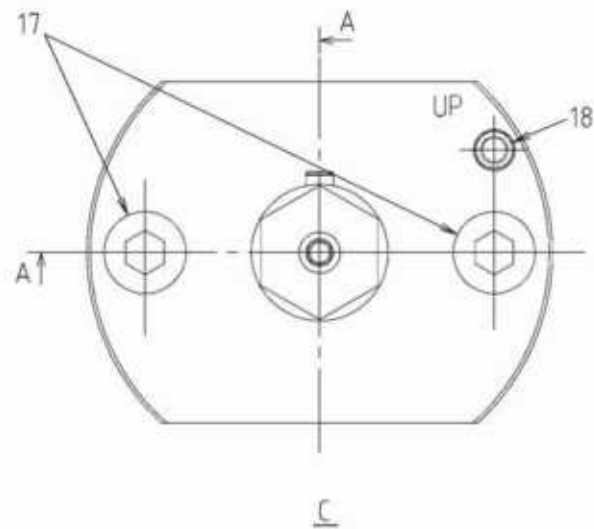


1-K7-3C321/-
67-02

Key No.	Description
531030	Protection pipe arrangement exhaust valve driving high press. oil pipe
32	Protection pipe assembly
33	Protection pipe assembly
34	Hexagon socket head cap screw
35	Hexagon socket head cap screw
36	Hexagon socket head cap screw
37	Nut
38	Spacer
39	Protection pipe assembly
40	Protection pipe assembly
41	Hexagon socket head cap screw
42	Special flange

1-K7-3C321/-

534 CYLINDER LINER LUBRICATING OIL STUD

534000A-A

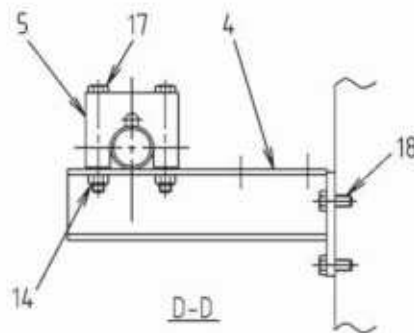
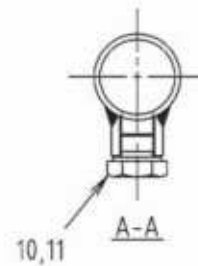
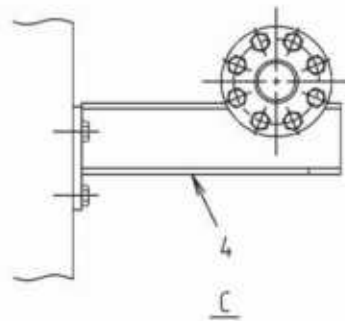
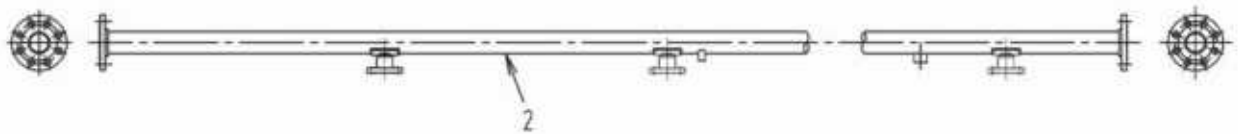
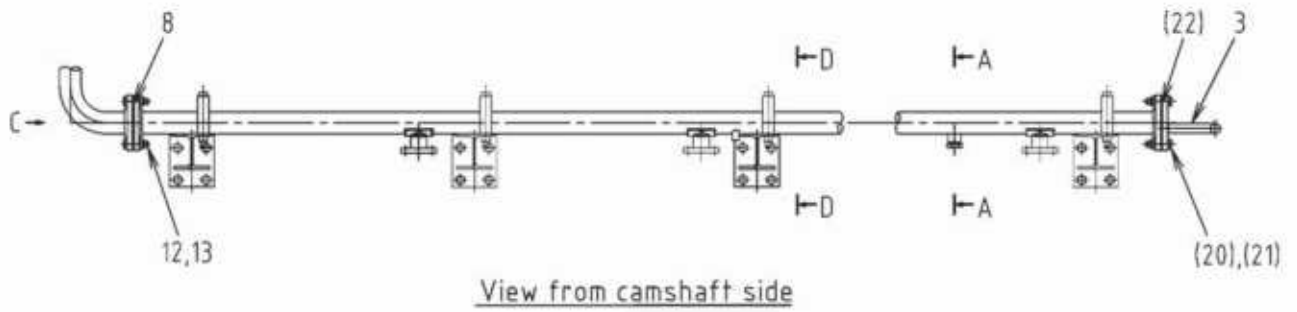
2-U1-6C058/- , 2-U1-6C060/-
54-06 54-06

Key No.	Description
534000	Cylinder liner lubricating oil stud complete
2	Nozzle valve
3	Lubricating oil stud
4	Cap
5	Flange
6	Spring retainer
7	Spring
8	Steel ball
9	Cone washer
10	Gasket
11	Set screw
12	Parallel key
13	Bite type fitt.
14	Copper gasket
17	Hexagon socket head cap screw
18	Spring pin

2-U1-6C058/-, 2-U1-6C060/-

541 INLET MAIN PIPE OF FUEL OIL

541200

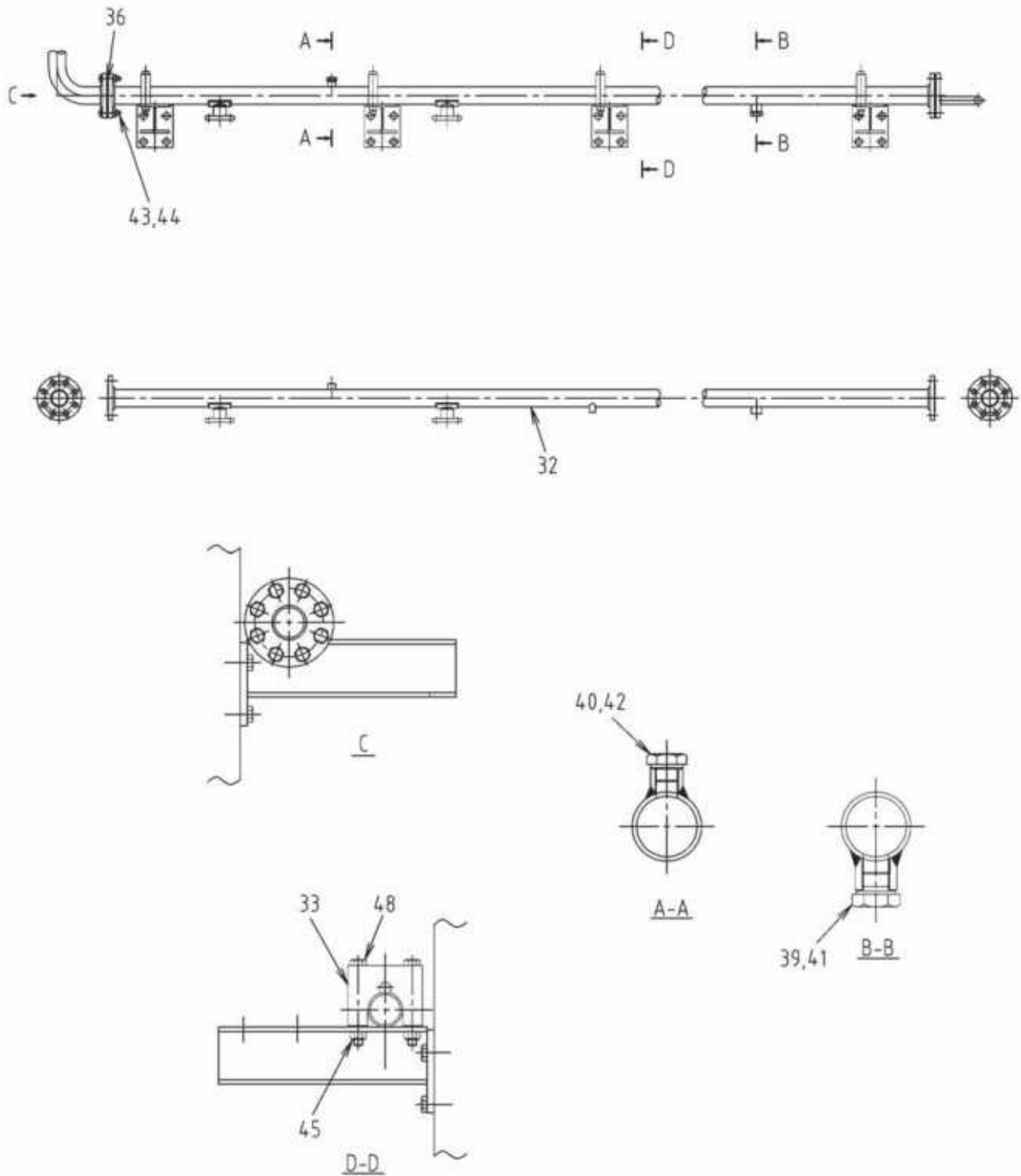


1-K7-2C120
65-09

Key No.	Description
541200	Inlet main pipe of fuel oil
2	Pipe
3	Pipe assembly (Consist of 541220~541222)
4	Pipe support assembly
5	Pipe support
8	Ring gasket
10	Set screw
11	Steel gasket
12	Bolt
13	Nut
14	U-nut
17	Bolt
18	Bolt
20	Bolt
21	Nut
22	Ring gasket

541 OUTLET MAIN PIPE OF FUEL OIL

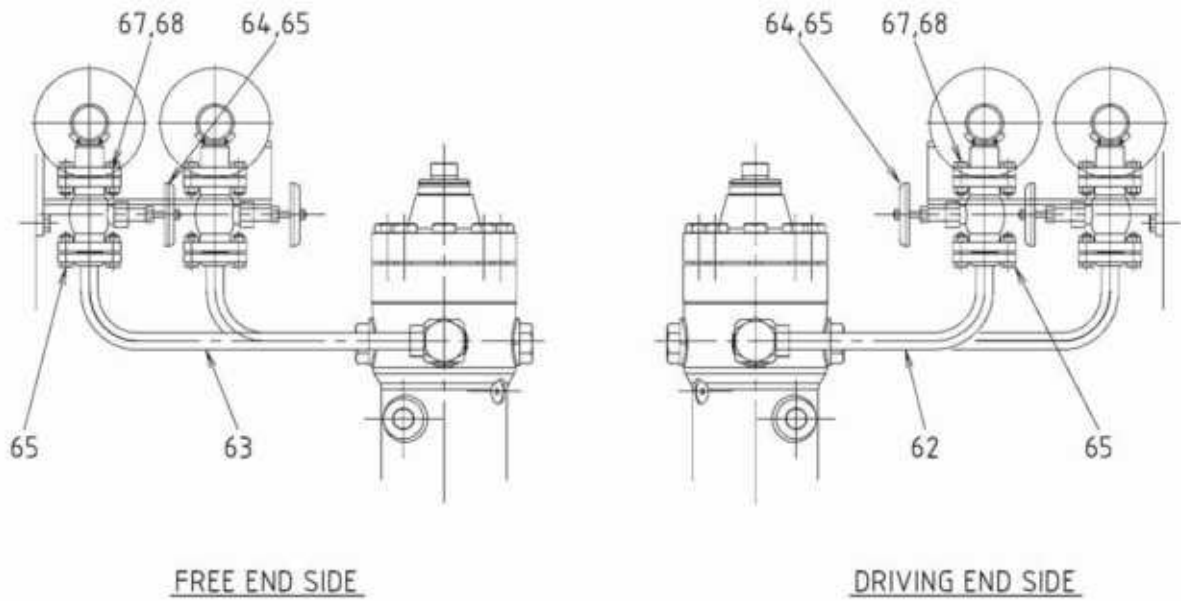
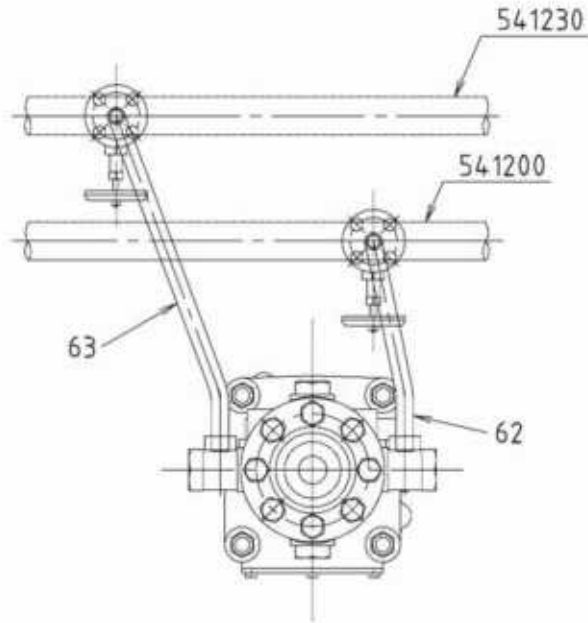
541230



1-K7-2C121
65-09

541 FUEL OIL INLET AND OUTLET PIPE

541260

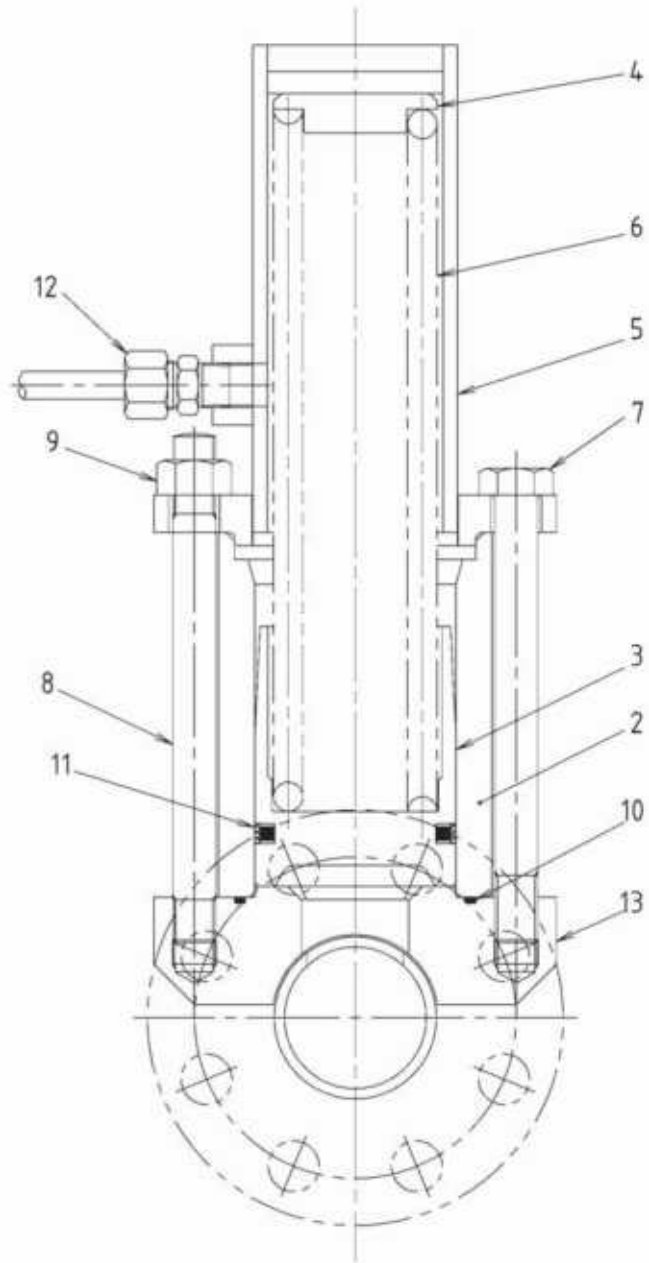


2-U7-2C094 T1
65-09

Key No.	Description
541230	Outlet main pipe of fuel oil
32	Pipe
33	Pipe support
36	Ring gasket
39	Set screw
40	Set screw
41	Steel gasket
42	Steel gasket
43	Bolt
44	Nut
45	U-nut
48	Bolt
541260	Fuel oil in. and outlet pipe
62	Pipe
63	Pipe
64	Fuel shut-off valve
65	Ring gasket
67	Bolt
68	Nut

541 F.O. DAMPER

541700



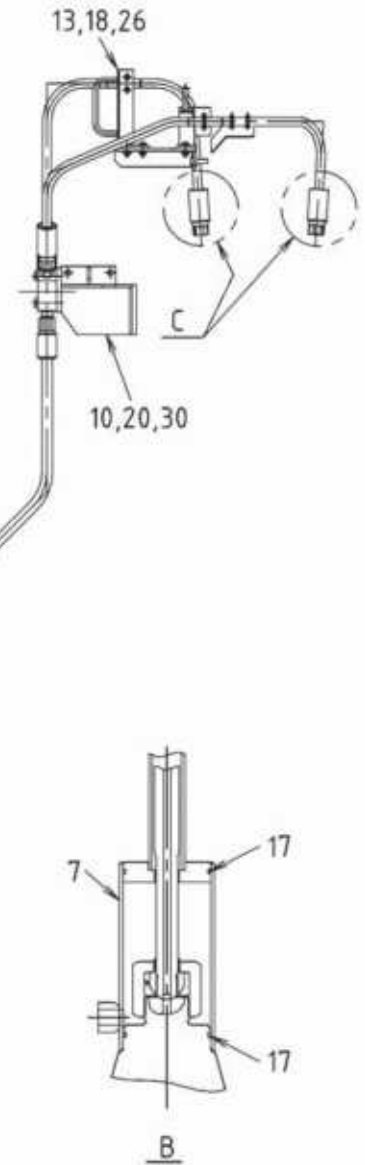
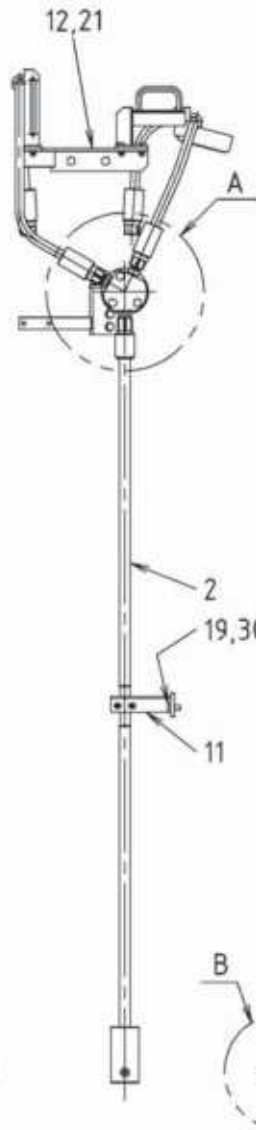
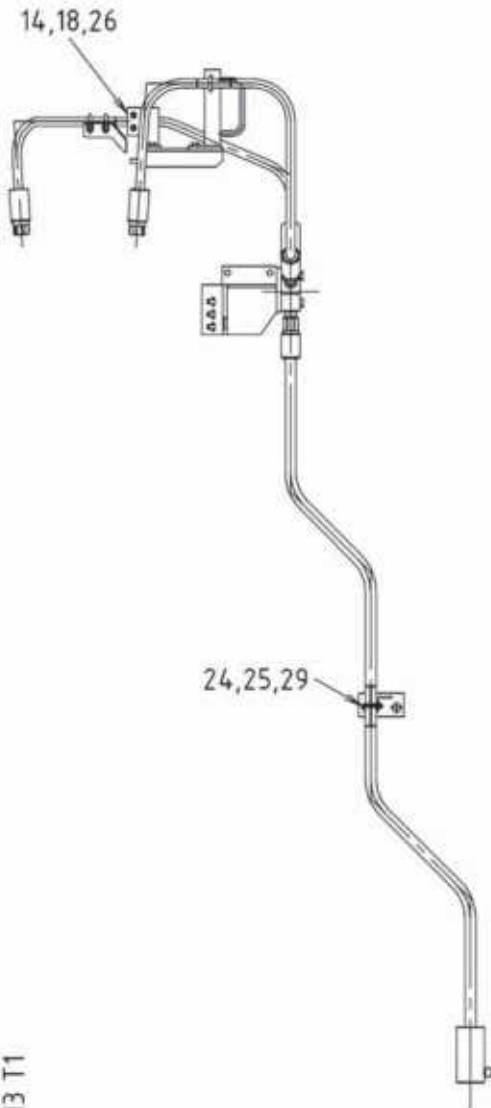
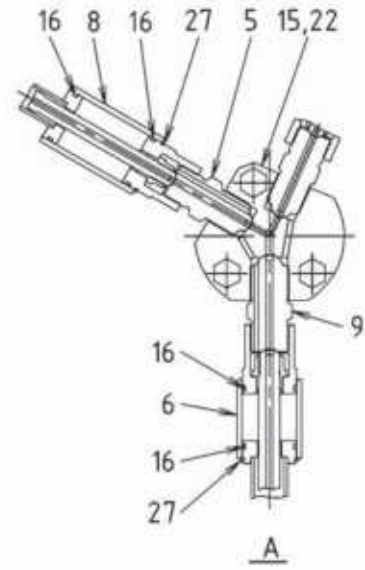
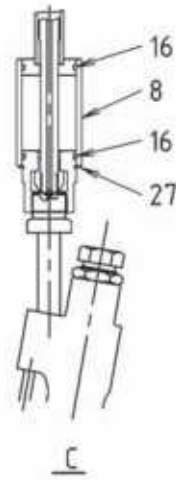
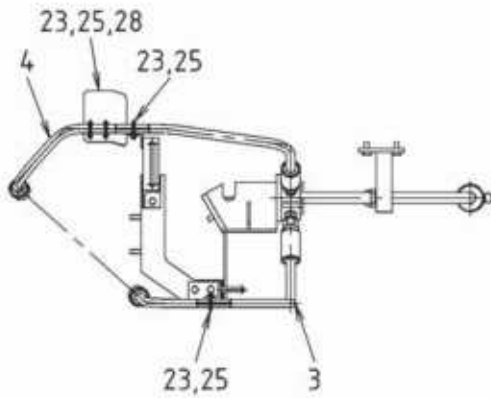
2-K7-2C032/T1
65-09

Key No.	Description
541700	Fuel oil damper
2	Cylinder
3	Piston
4	Spring retainer
5	Cover
6	Spring
7	Retainer bolt
8	Stud bolt
9	Nut
10	O-ring
11	Packing
12	Bite type fitt.
13	Boss

2-K7-2C032/T1

541 F.O. HIGH PRESSURE PIPE

541400



1-K7-2C113 T1
66-01

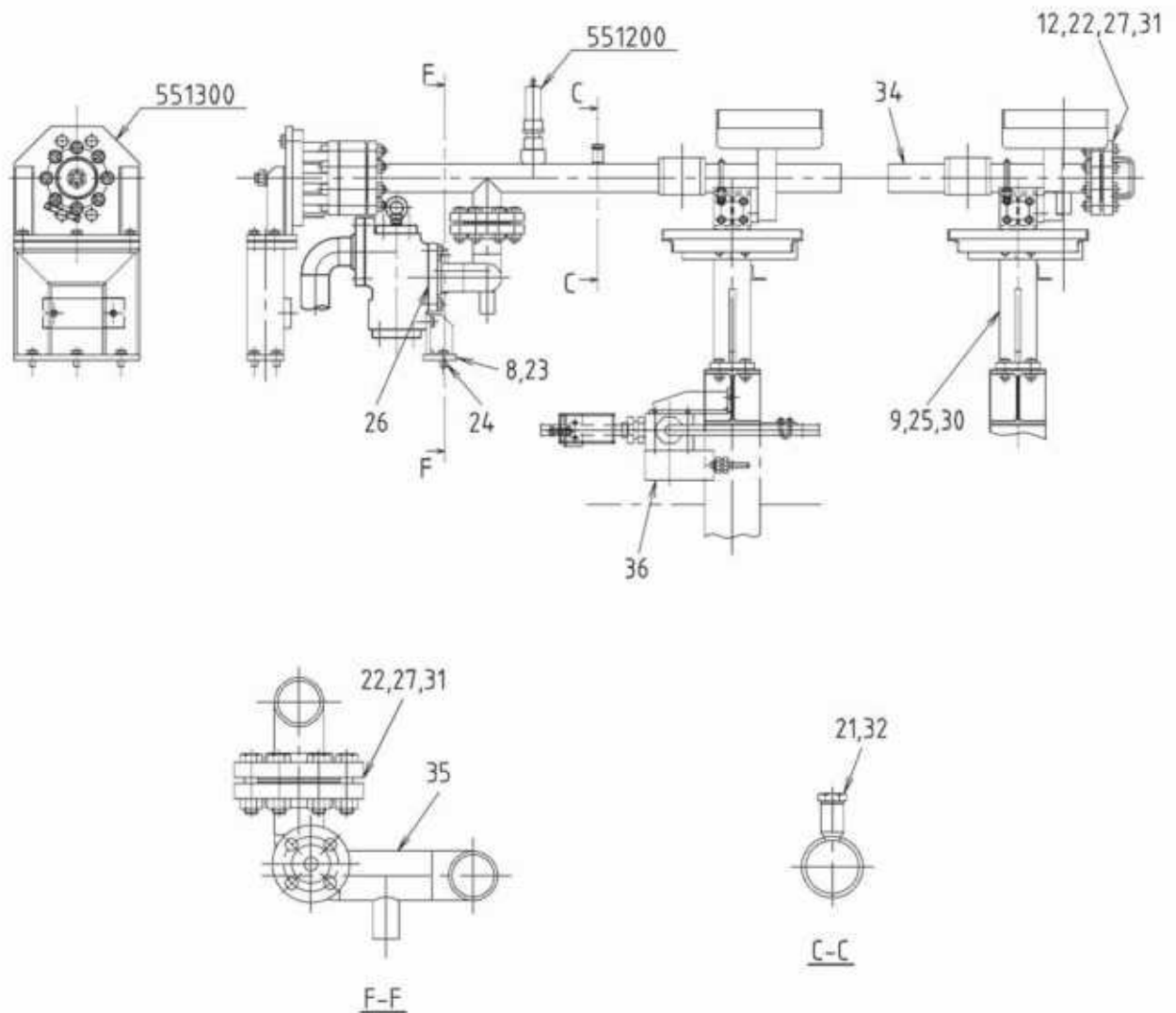
45LSE

541

Key No.	Description
541400	F.O. high pressure piping
2	Pipe assembly
3	Pipe assembly (free end side)
4	Pipe assembly (driving end side)
5	Union
6	Sleeve
7	Sleeve
8	Sleeve
9	Union
10	Support assembly
11	Pipe support assembly
12	Pipe support assembly
13	Pipe support assembly
14	Pipe support assembly
15	Fuel distributor
16	O-ring
17	O-ring
18	Bolt
19	Bolt
20	Bolt
21	Bolt
22	Bolt
23	U-bolt
24	U-bolt
25	Nut
26	Nut
27	Retaining of shaft
28	Cover
29	Plane washer
30	Plane washer

551 STARTING AIR INLET PIPE

551700



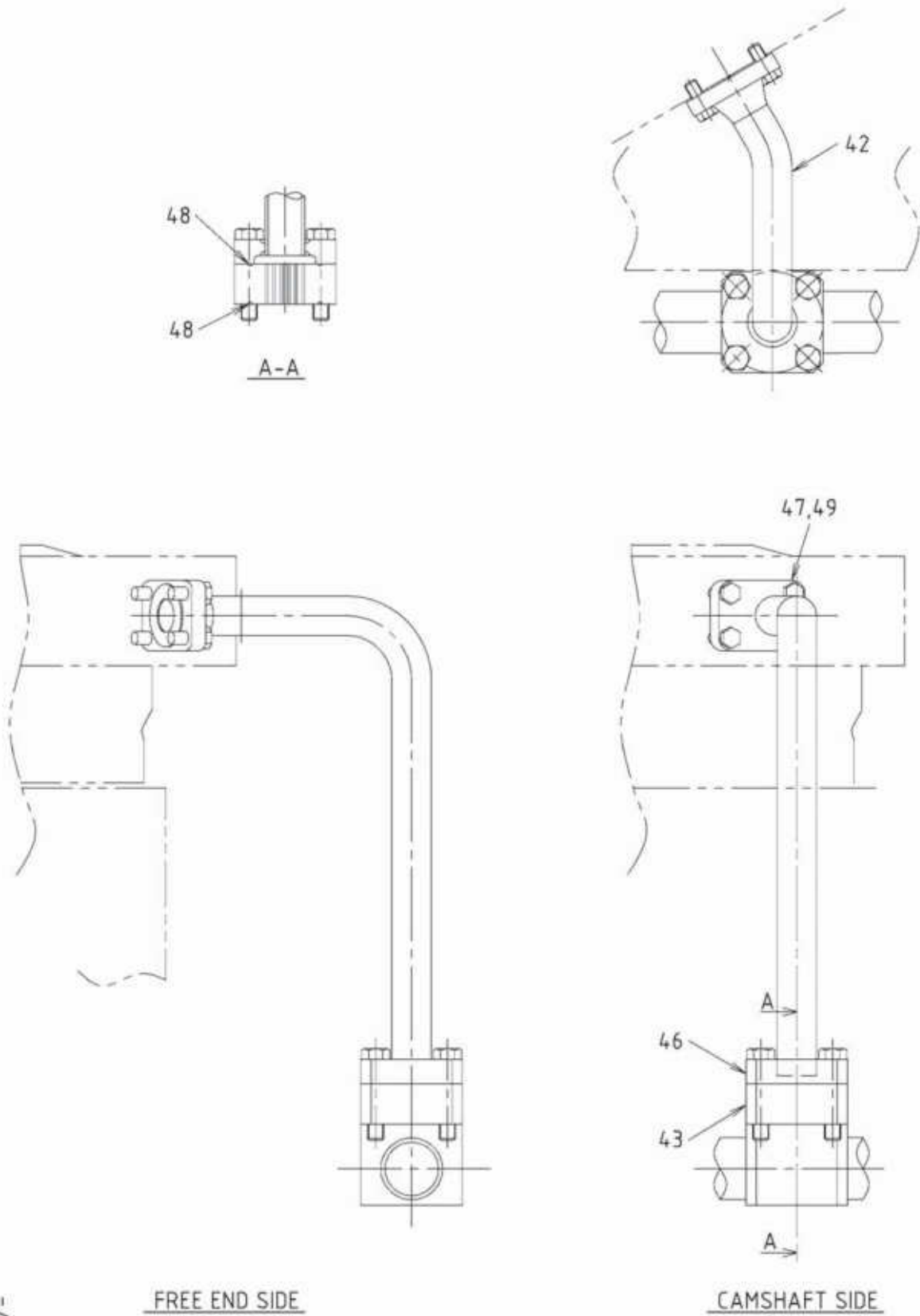
1-U7-1C091 / 2-U7-1C092 / 1-U7-1C105 T1
 65-05 65-05 65-07

Key No.	Description
551700	Starting air inlet pipe
8	Support assembly
9	Pipe support assembly
12	Blind flange
21	Copper gasket
22	Gaskets with inner and outer ring
23	Bolt
24	Bolt
25	Bolt
26	Bolt
27	Bolt
28	U-bolt
29	Nut
30	Nut
31	Nut
32	Plug
33	Plain washer
34	Pipe assembly
35	Pipe assembly
36	3 way valve

1-U7-1C091/-, 2-U7-1C092/-, 1-U7-1C105/T1

551 STARTING AIR INLET BRANCH PIPE

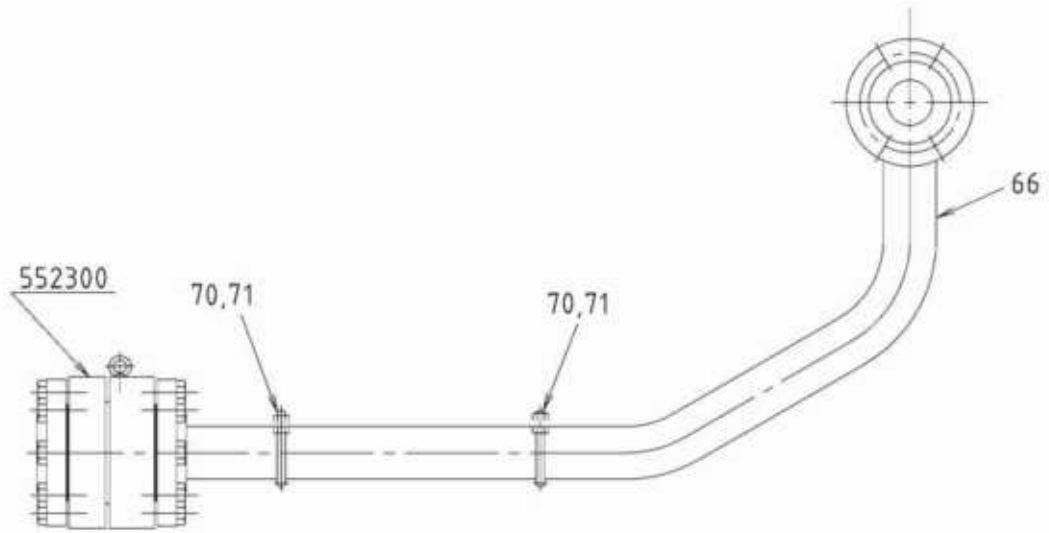
551740



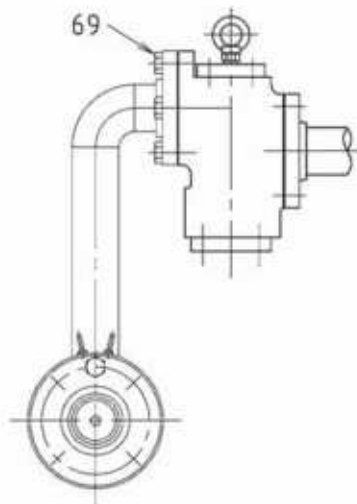
1-U7-1C096/-
65-05

551 STARTING AIR PIPE

551760



DRIVING END SIDE



CAMSHAFT SIDE

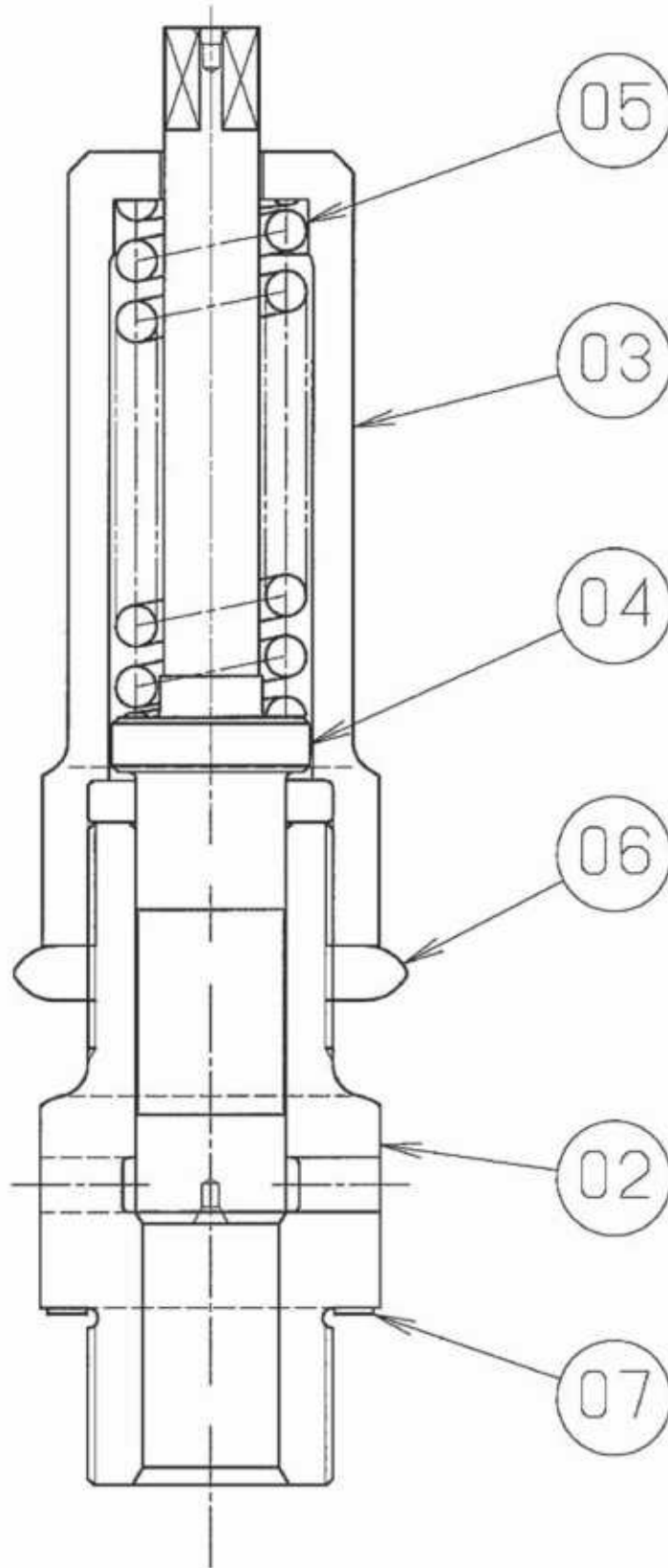
2-U7-1C097/-
65-05

Key No.	Description
551740	Starting air inlet branch pipe
42	Pipe
43	Flame arrester
46	Bolt
47	Bolt
48	O-ring
49	O-ring
551760	Starting air pipe
66	Pipe assembly
69	Bolt
70	U-bolt
71	Nut

1-U7-1C096/-, 2-U7-1C097/-

551 STARTING AIR RELIEF VALVE

551200



3-K7-17024 T1
65-01

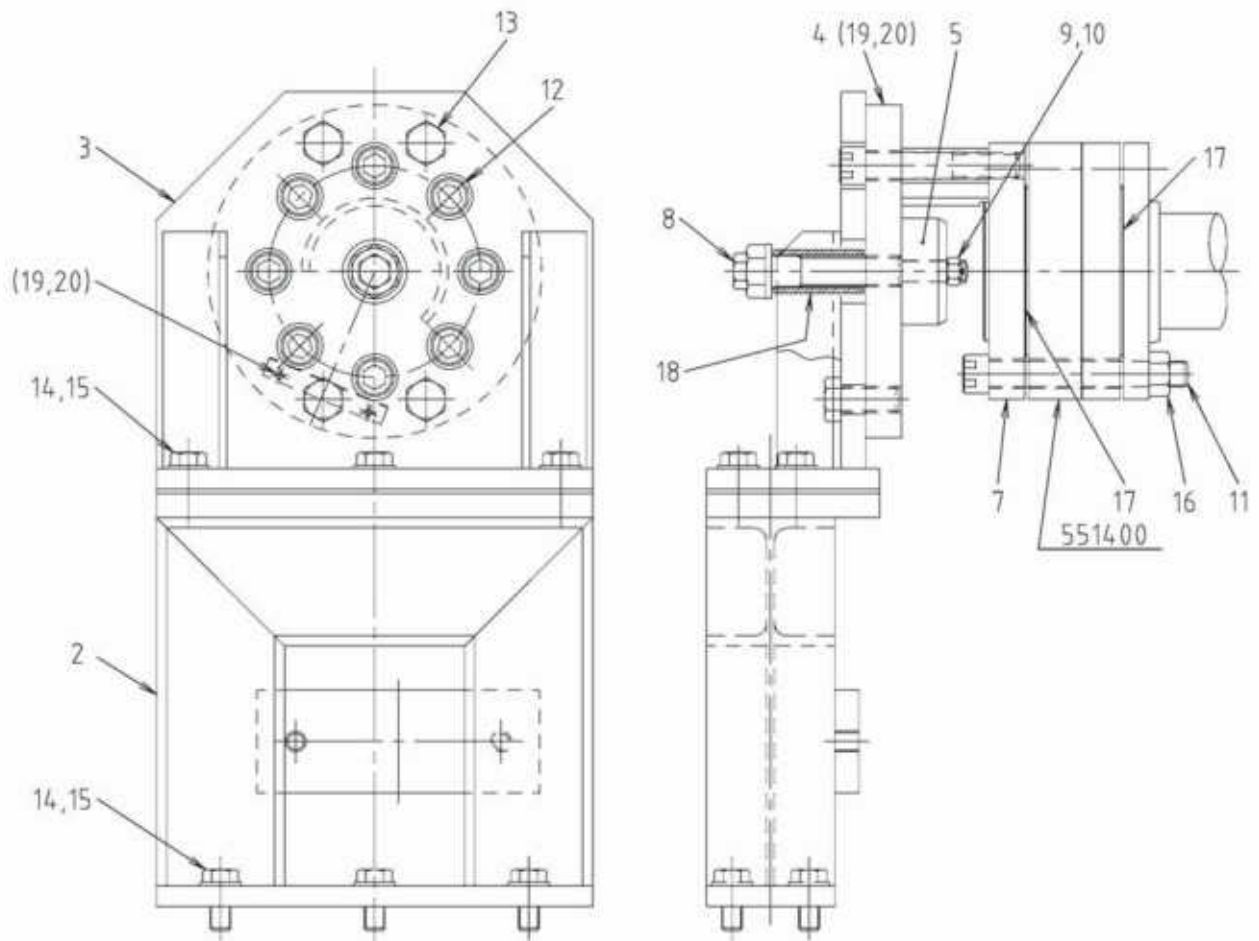
45LSE

551

Key No.	Description
551200	Starting air relief valve complete
2	Valve guide
3	Cap
4	Spring carrier
5	Spring
6	Lock nut
7	Gasket

551 RUPTURE DISK FOR STARTING AIR PIPING

551300

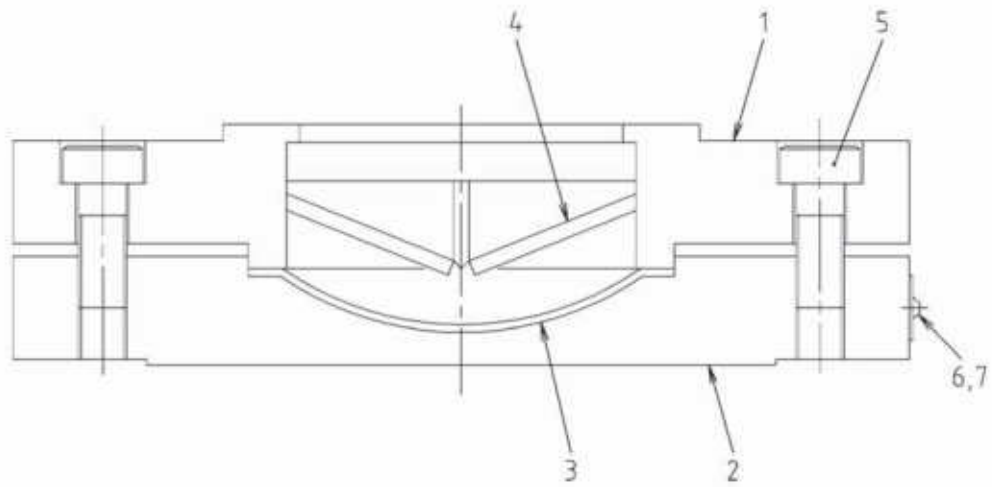
1-U7-1C139/-
65-05

Key No.	Description
551300	Rupture disk for starting air piping
2	Support
3	Support
4	Cover assembly (Consist of 551319 and 551320)
5	Plate
7	Special flange
8	Retainer bolt
9	Slotted and castle nut
10	Split pin
11	Hexagon socket head cap screw
12	Hexagon socket head cap screw
13	Bolt
14	Plain washer
15	Bolt
16	Nut
17	Gasket
18	Locking plate
19	Plate
20	Pan head screw

1-U7-1C139/-

551 RUPTURE DISK COMPLETE FOR STARTING AIR MAIN PIPE

551400



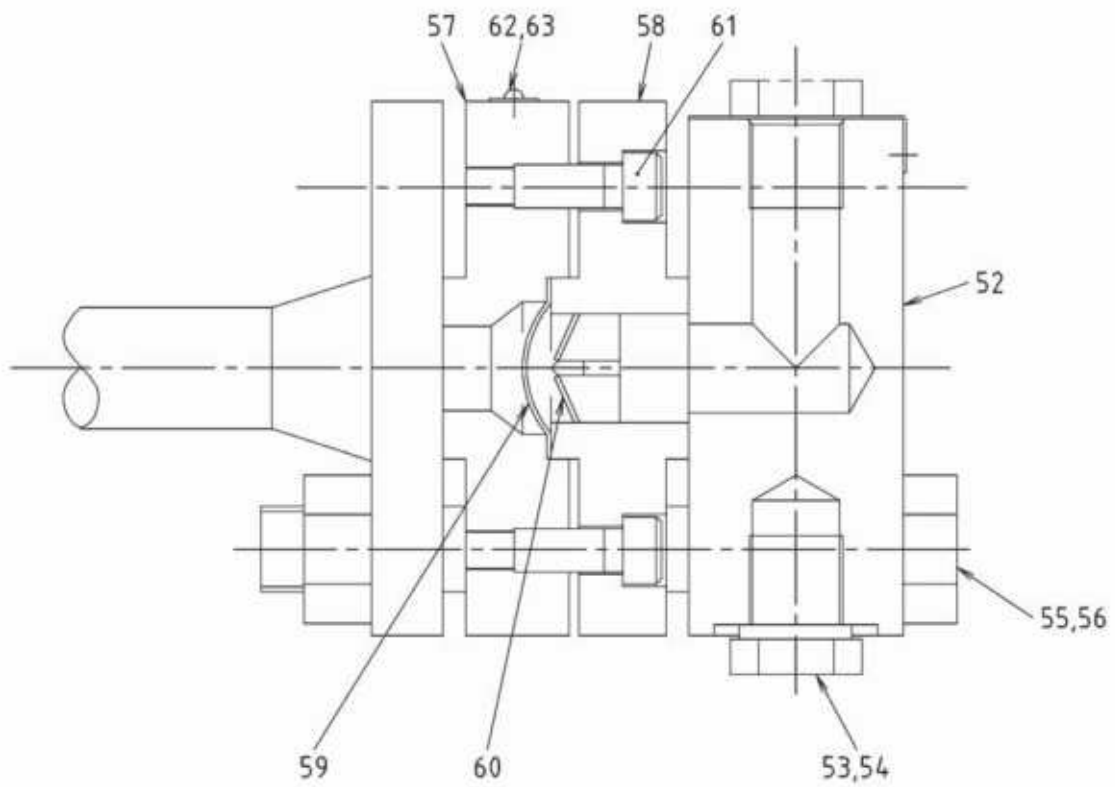
3-U7-12236/-
65-05

Key No.	Description
551400	Rupture disk complete for starting air main pipe
1	Holder
2	Holder
3	Disk
4	Knife
5	Hexagon socket head cap screw
6	Name plate
7	Drive screw

3-U7-12236/-

551 RUPTURE DISK FOR STARTING CONTROL AIR PIPE

551500

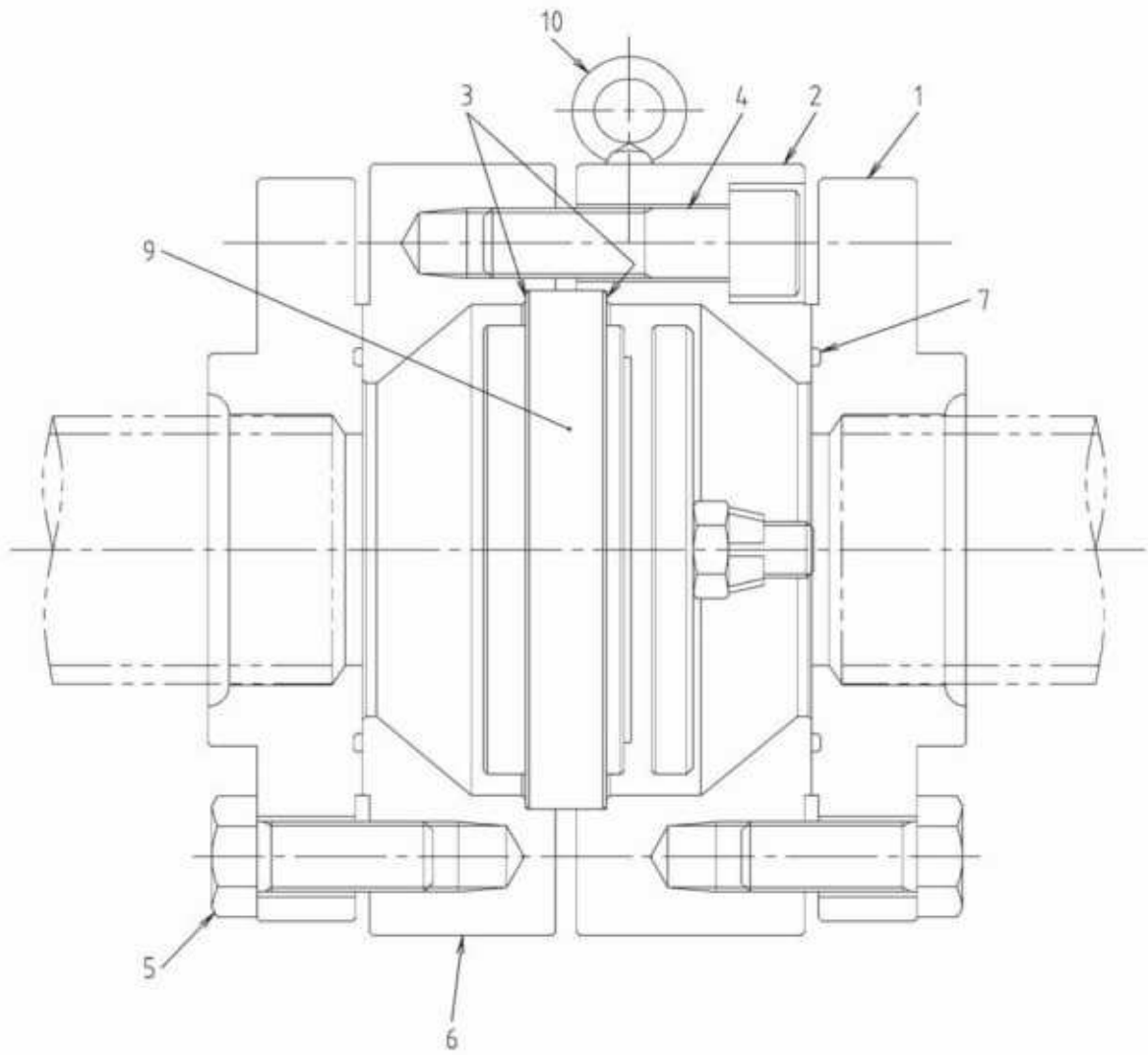


2-U7-1C106 / 3-U7-18133 T2
65-07 65-05

Key No.	Description
551500	Rupture disk for starting control air pipe
52	Cover
53	Copper gasket
54	Plug
55	Bolt
56	Nut
57	Holder (K)
58	Holder (N)
59	Disk
60	Knife
61	Hexagon socket head cap screw
62	Name plate
63	Drive screw

552 CHECK VALVE

552300



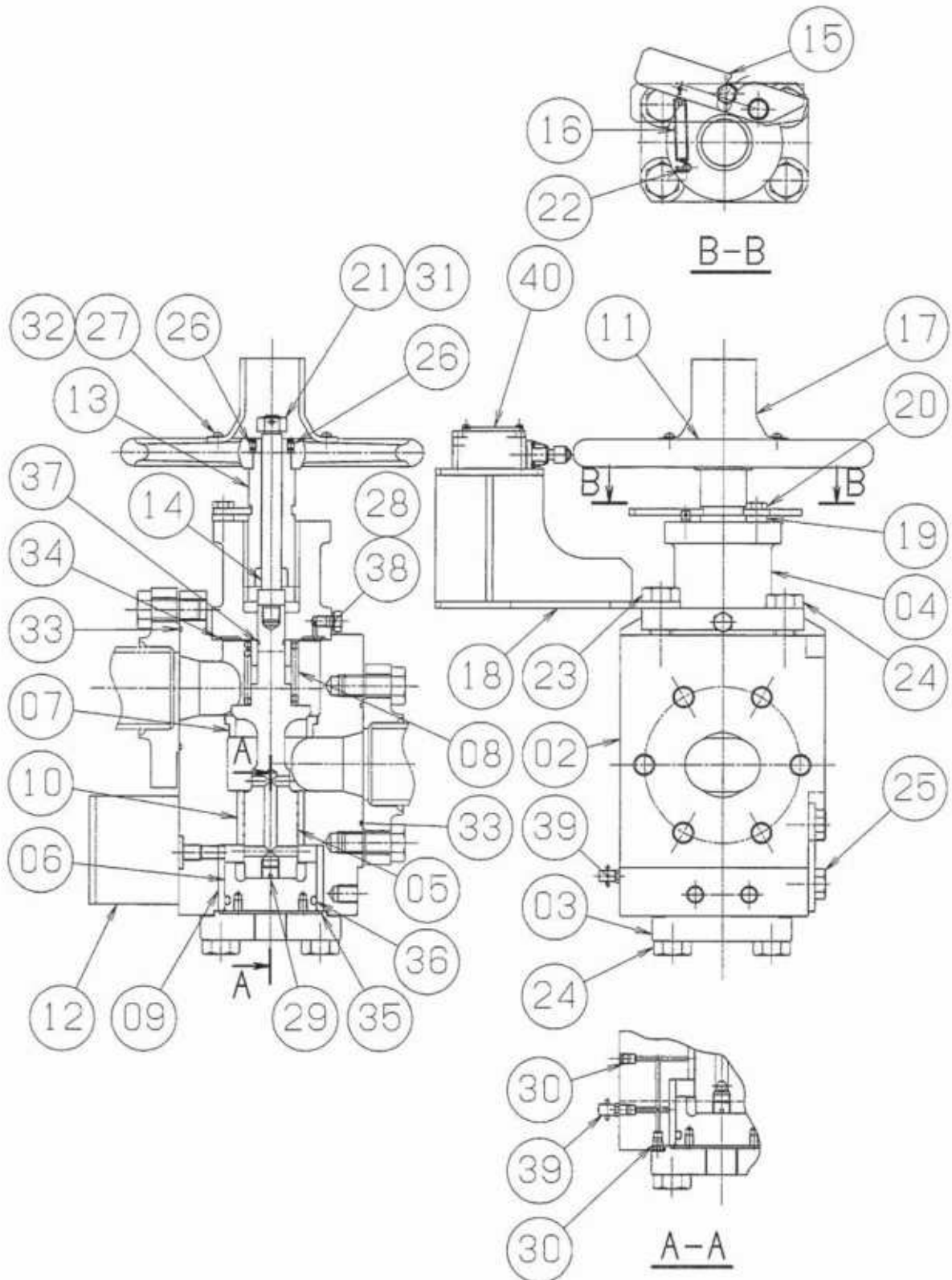
3-45L-552-703/T4
65-05

Key No.	Description
552300	Check valve
1	Flange
2	Housing
3	Packing
4	Hexagon socket head cap screw
5	Bolt
6	Housing
7	O-ring
9	Check valve
10	Eye-bolt

3-45L-552-703/T4

552 AUTOMATIC STARTING AIR STOP VALVE

552200



1-KS-1C005/T1
65-09

Key No.	Description
552200	Automatic starting air stop valve complete
2	Casing
3	Cover
4	Cover
5	Valve
6	Piston
7	Valve seat
8	Spring
9	Bush
10	Bush
11	Handle wheel
12	Cover
13	Spindle guide
14	Spindle
15	Lever
16	Spring
17	Cover
18	Limit switch support
19	Washer
20	Special bolt
21	Nut
22	Set screw
23	Bolt
24	Bolt
25	Bolt
26	Socket head cap bolt
27	Slotted hexagon head screw
28	Hexagon head plug
29	Slotted headless plug
30	Hexagon socket headless plug
31	Split pin
32	Plane washer
33	O-ring
34	O-ring
35	O-ring
36	O-ring
37	O-ring

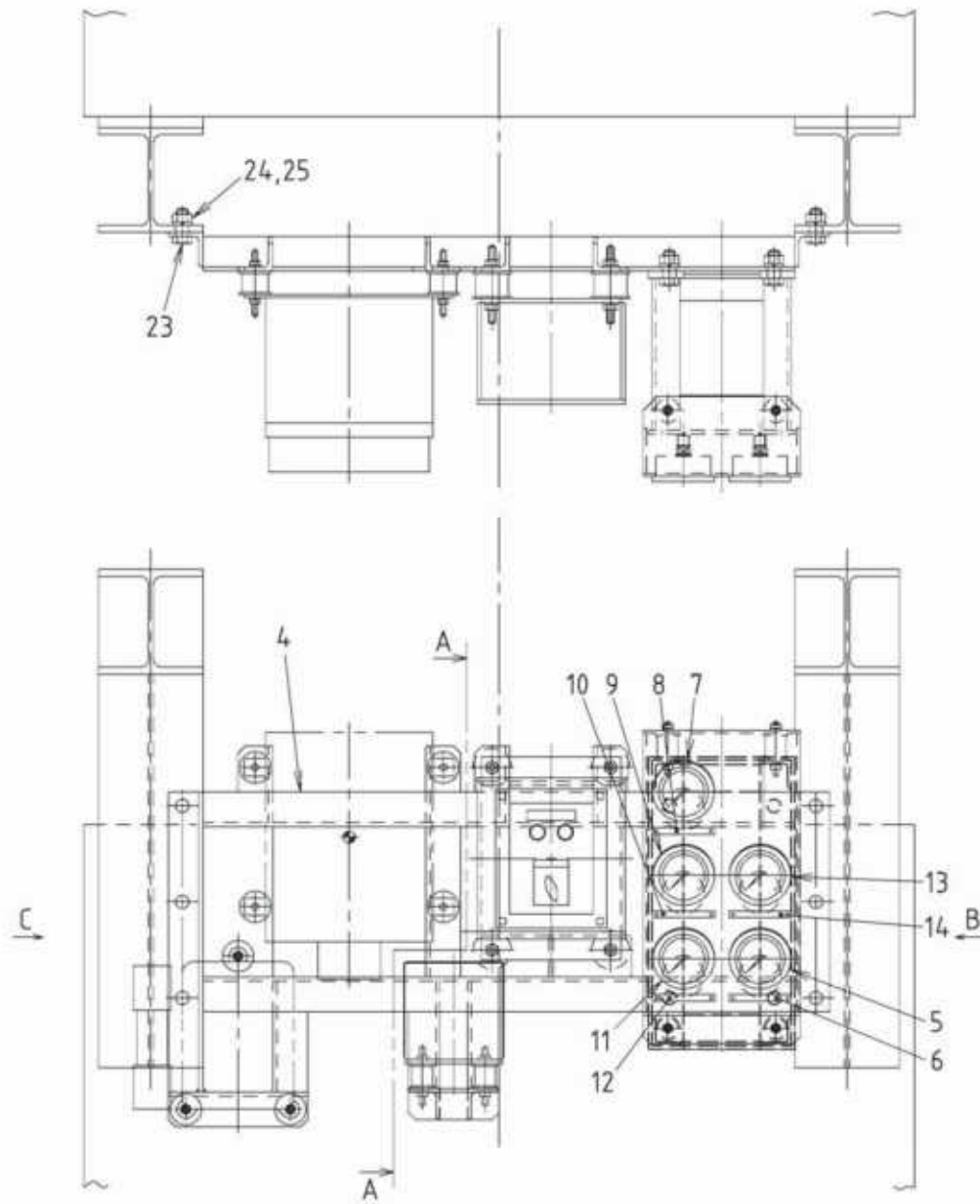
1-K5-1C005/T1

Key No.	Description
552200	Automatic starting air stop valve complete
38	Packing
39	Grease nipple
40	Limit switch

1-K5-1C005/T1

571 GAUGE BOARD

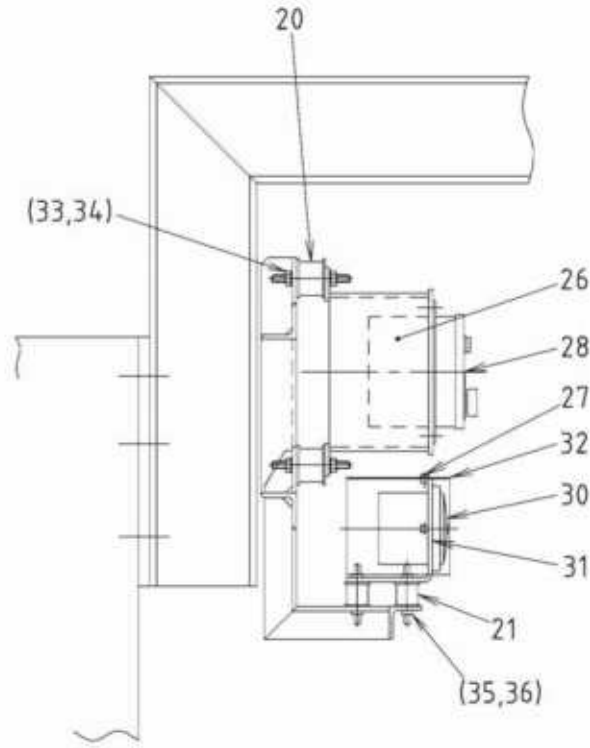
571200



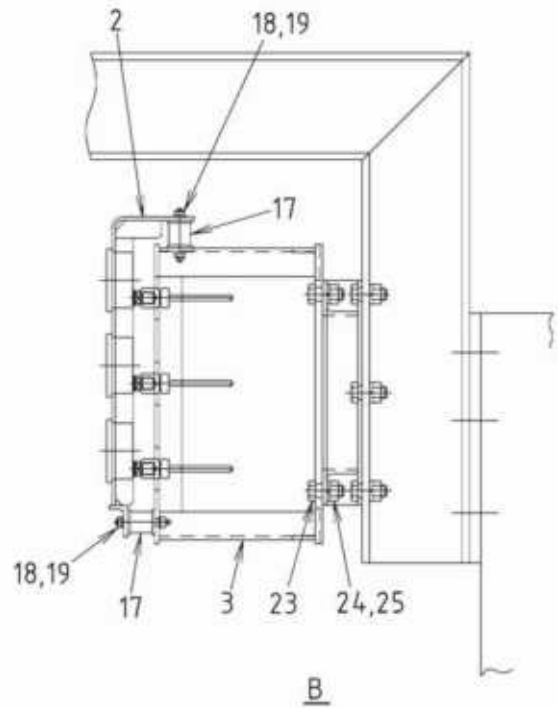
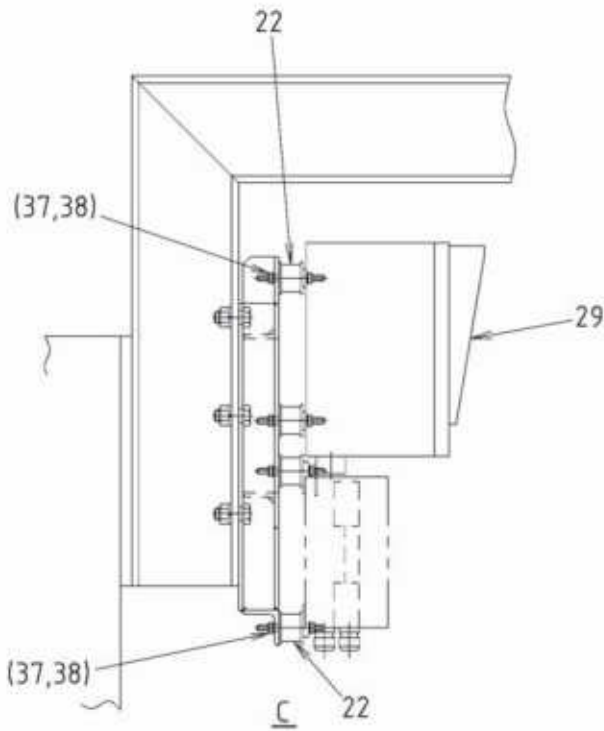
✱ There are some changes according to special specification.

571 GAUGE BOARD

571200



A-A

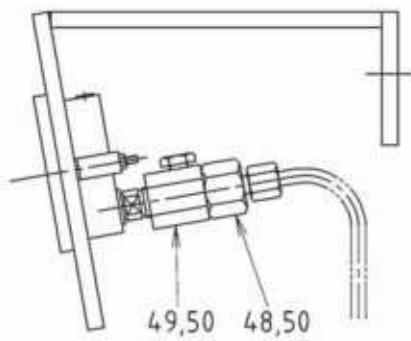
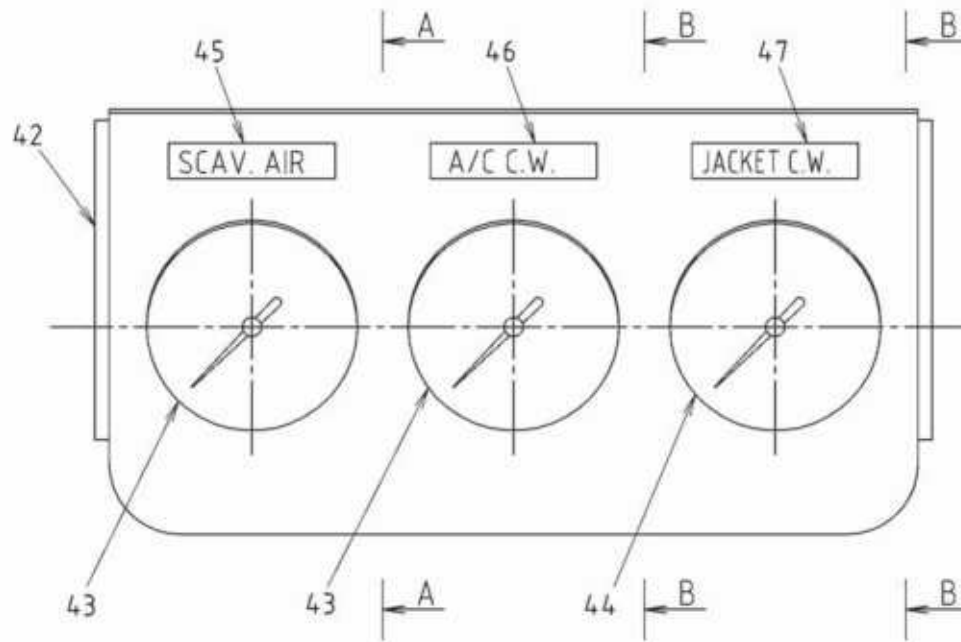


1-K7-5C236 T1
68-10

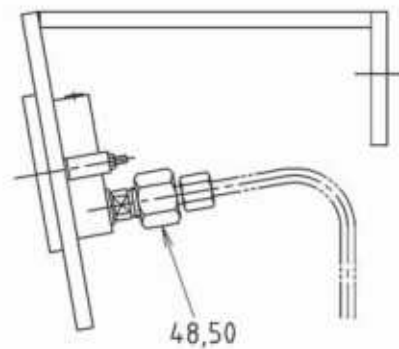
Key No.	Description
571200	Gauge board assembly
2	Gauge board
3	Gauge board support
4	Fitting base
5	Enclose oil press.gauge
6	Name plate
7	Enclose oil press.gauge
8	Name plate
9	Enclose oil press.gauge
10	Name plate
11	Enclose oil press.gauge
12	Name plate
13	Enclose oil press.gauge
14	Name plate
17	Rubber
18	Nut
19	Spring washer
20	Rubber (Consist of 571233 and 571234)
21	Rubber (Consist of 571235 and 571236)
22	Rubber (Consist of 571237 and 571238)
23	Bolt
24	Nut
25	Spring washer
26	Telltale light box support
27	Bolt
28	Telltale light box
29	Telegraph box
30	Tachometer
31	Tachometer support
32	Tachometer cover
33	Nut
34	Spring washer
35	Nut
36	Spring washer
37	Nut
38	Spring washer

571 GAUGE BOARD ARRANGEMENT

571240



A-A



B-B

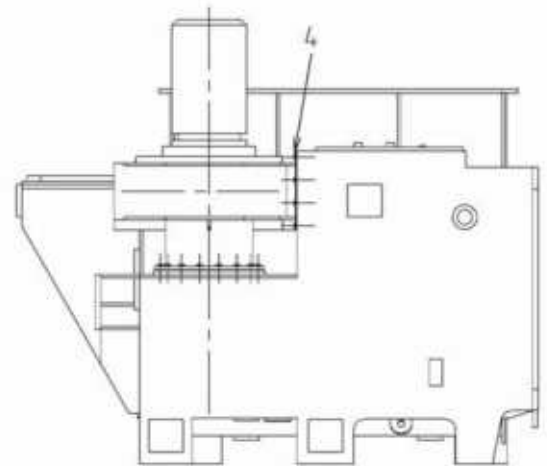
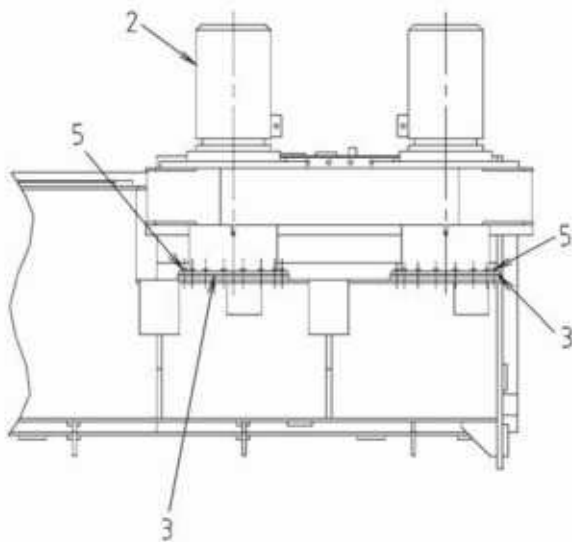
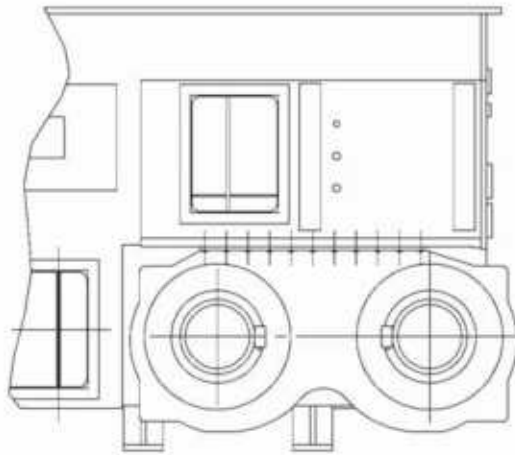
3-K7-5C051/-
68-10

Key No.	Description
571240	Gauge board arrangement
42	Gauge board support
43	Enclose oil press.gauge
44	Enclose oil press.gauge
45	Name plate
46	Name plate
47	Name plate
48	Connector
49	Dampener
50	Gasket

3-K7-5C051/-

723 AUXILIARY BLOWER

723000

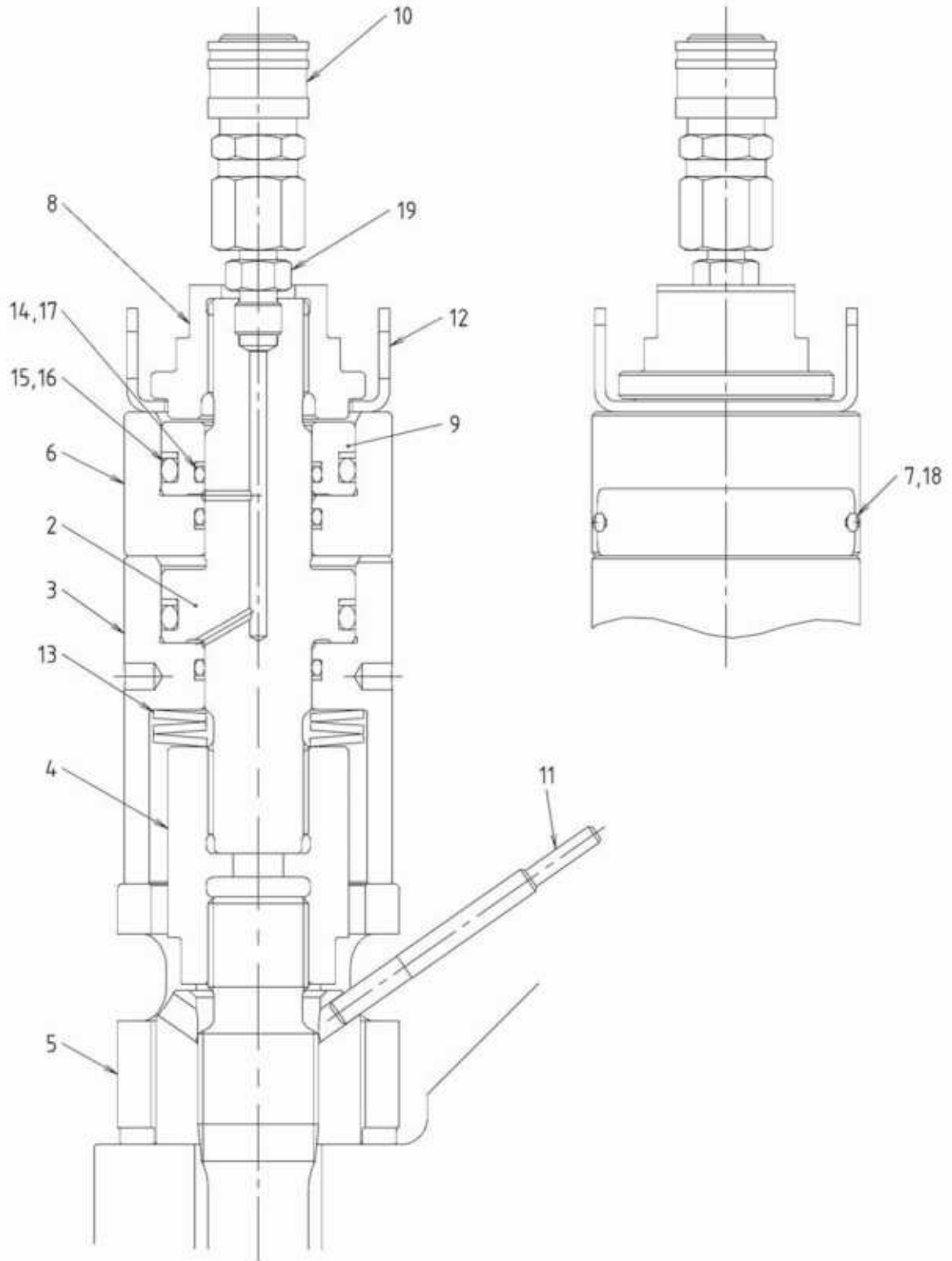


2-K2-9C001/-
57-05

Key No.	Description
723000	Auxiliary blower assembly
2	Auxiliary blower
3	Gasket
4	Bolt
5	Bolt

2-K2-9C001/-

840 TIGHTENING TOOL FOR MAIN BEARING
& FOUNDATION BOLT
840000 (FOR MAIN BEARING)



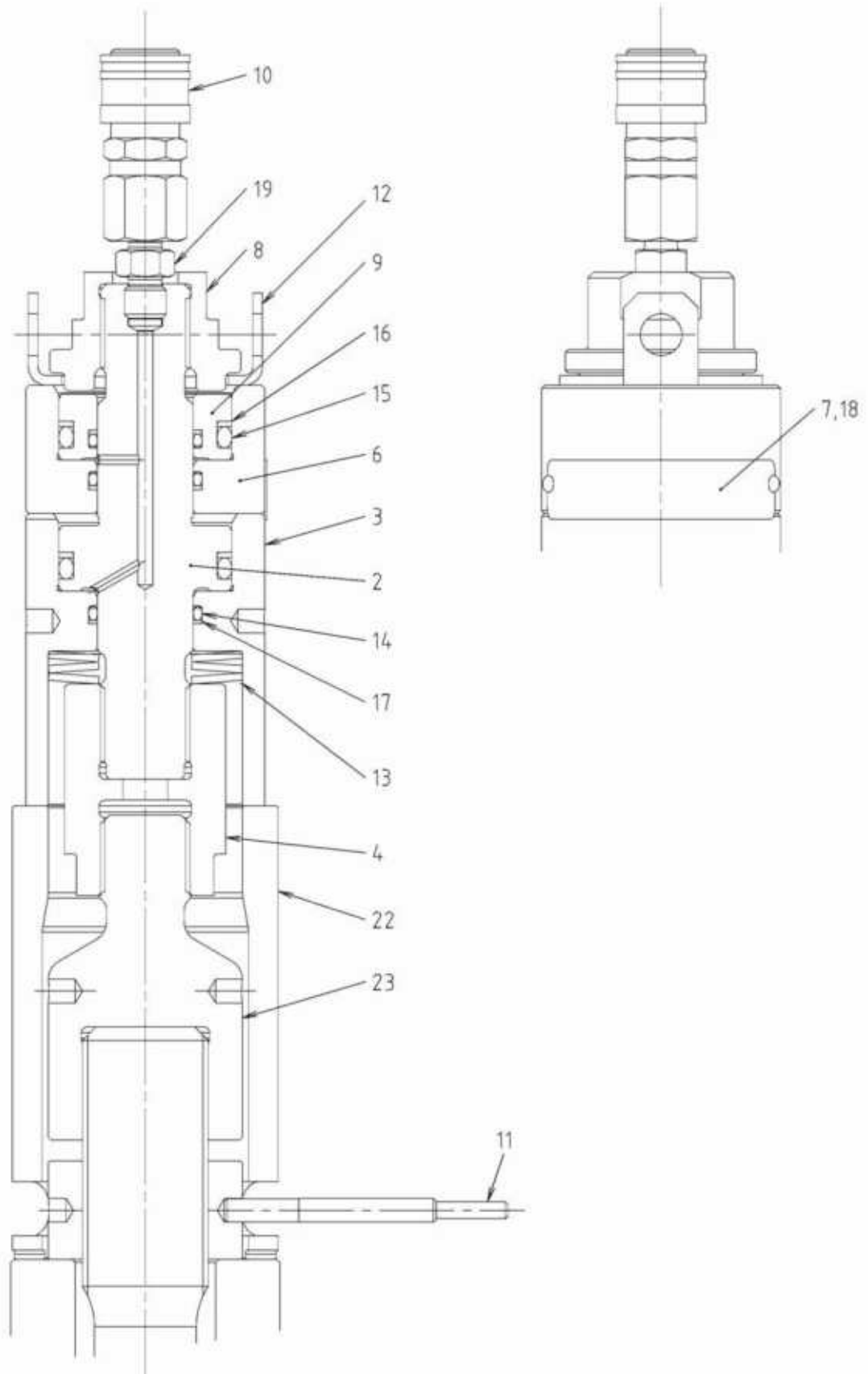
1-K8-1C010/T2
64-07

45LSE/-Eco-B2

840

840 TIGHTENING TOOL FOR MAIN BEARING & FOUNDATION BOLT

840000 (FOR FOUNDATION BOLT)



2-K8-1C011/T2
64-07

45LSE/-Eco-B2

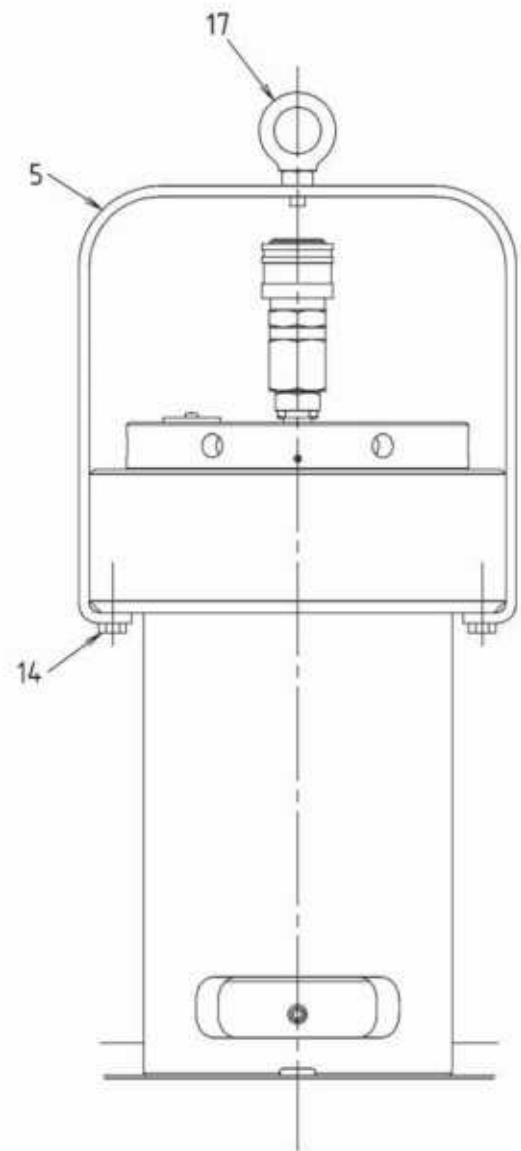
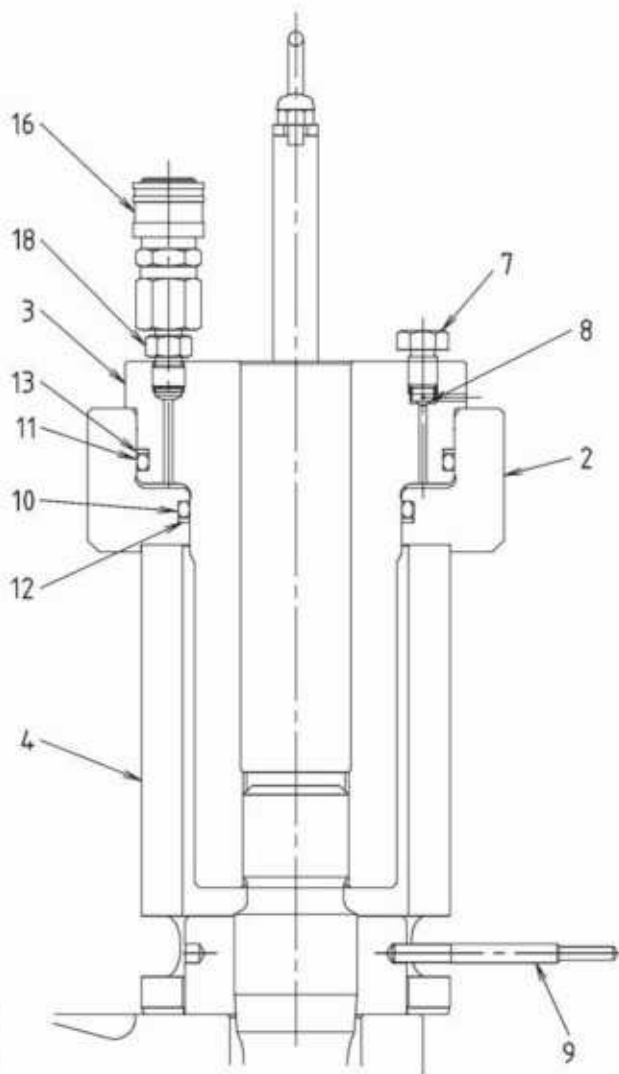
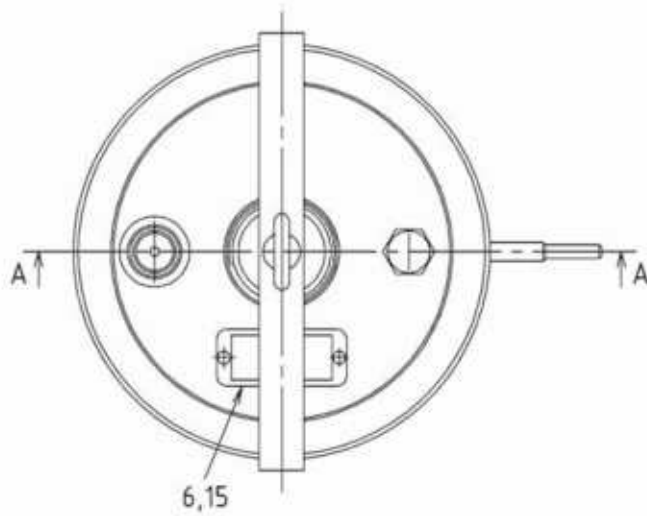
840

Key No.	Description
840000	Tightening tool for main bearing & foundation bolt
2	Piston rod
3	Lower cylinder
4	Tension nut
5	Foot piece (for main bearing)
6	Upper cylinder
7	Name plate
8	Upper nut
9	Piston
10	Coupler
11	Tightening bar
12	Lifting piece
13	Coned disc spring
14	O-ring
15	O-ring
16	Back-up ring
17	Back-up ring
18	Pan head screw
19	Joint
22	Foot piece (for foundation bolt)
23	Tension nut (for foundation bolt)
	Key No.2~4, 6~19 are common parts.

1-K8-1C010/T2, 2-K8-1C011/T2

840 TIGHTENING TOOL FOR CYLINDER COVER

840100



2-K8-1C012 T2
64-07

A-A

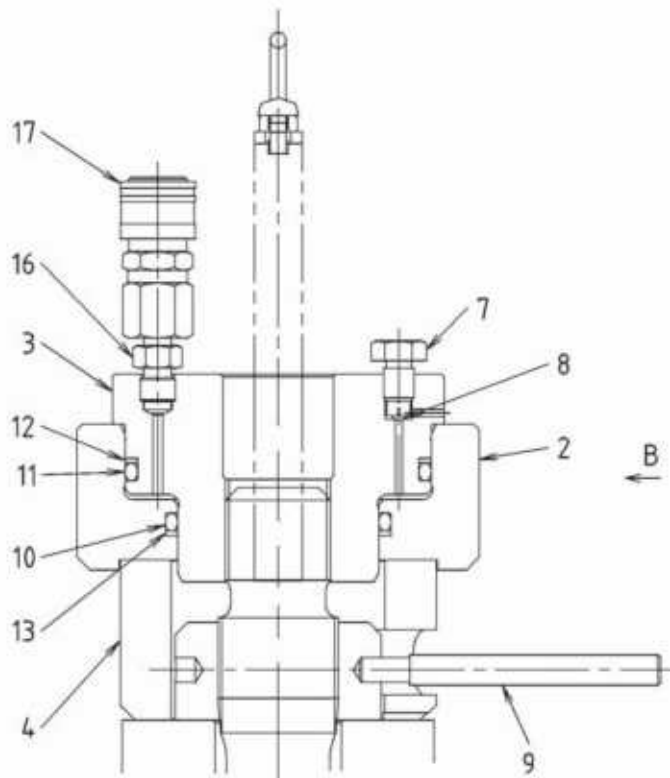
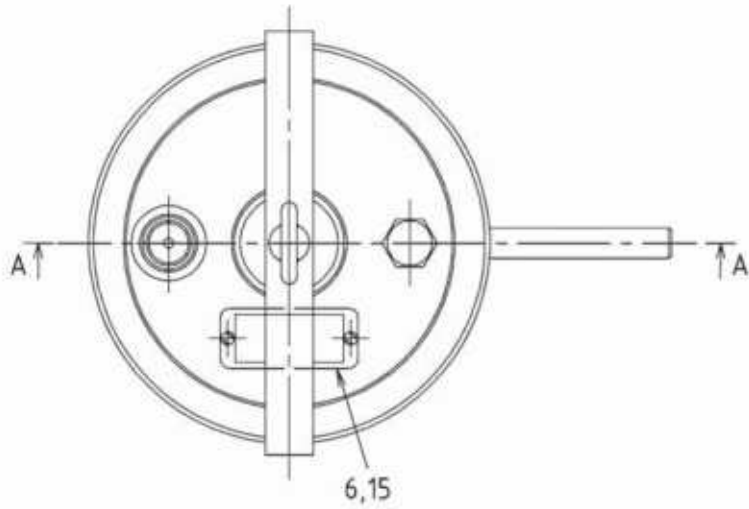
45LSE

840

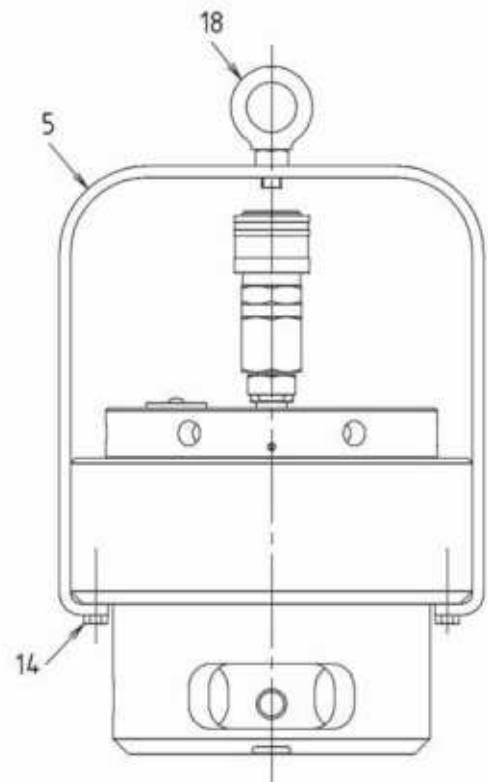
Key No.	Description
840100	Tightening tool for cylinder cover
2	Cylinder
3	Piston
4	Foot piece
5	Handle
6	Name plate
7	Air vent plug
8	Steel ball
9	Tightening bar
10	O-ring
11	O-ring
12	Back-up ring
13	Back-up ring
14	Bolt
15	Pan head screw
16	Coupler
17	Eyebolt
18	Joint

840 TIGHTENING TOOL FOR CRANK PIN

840200



A-A



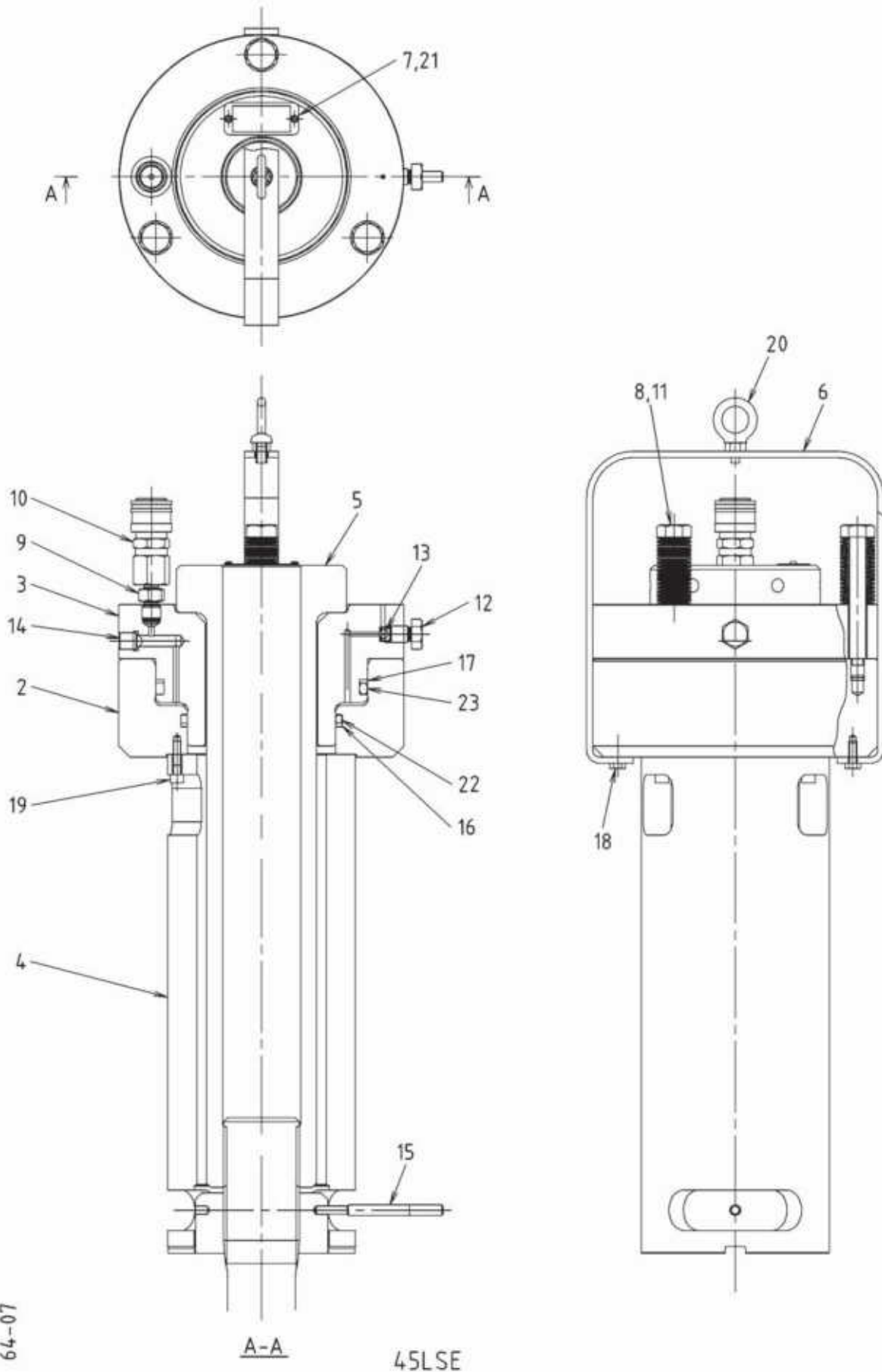
B

2-K8-1C014 T2
64-07

Key No.	Description
840200	Tightening tool for crank pin
2	Cylinder
3	Piston
4	Foot piece
5	Handle
6	Name plate
7	Air vent plug
8	Steel ball
9	Tightening bar
10	O-ring
11	O-ring
12	Back-up ring
13	Back-up ring
14	Bolt
15	Pan head screw
16	Joint
17	Coupler
18	Eyebolt

840 TIGHTENING TOOL FOR EXHAUST VALVE

840300



1-K8-1C016 T4
64-07

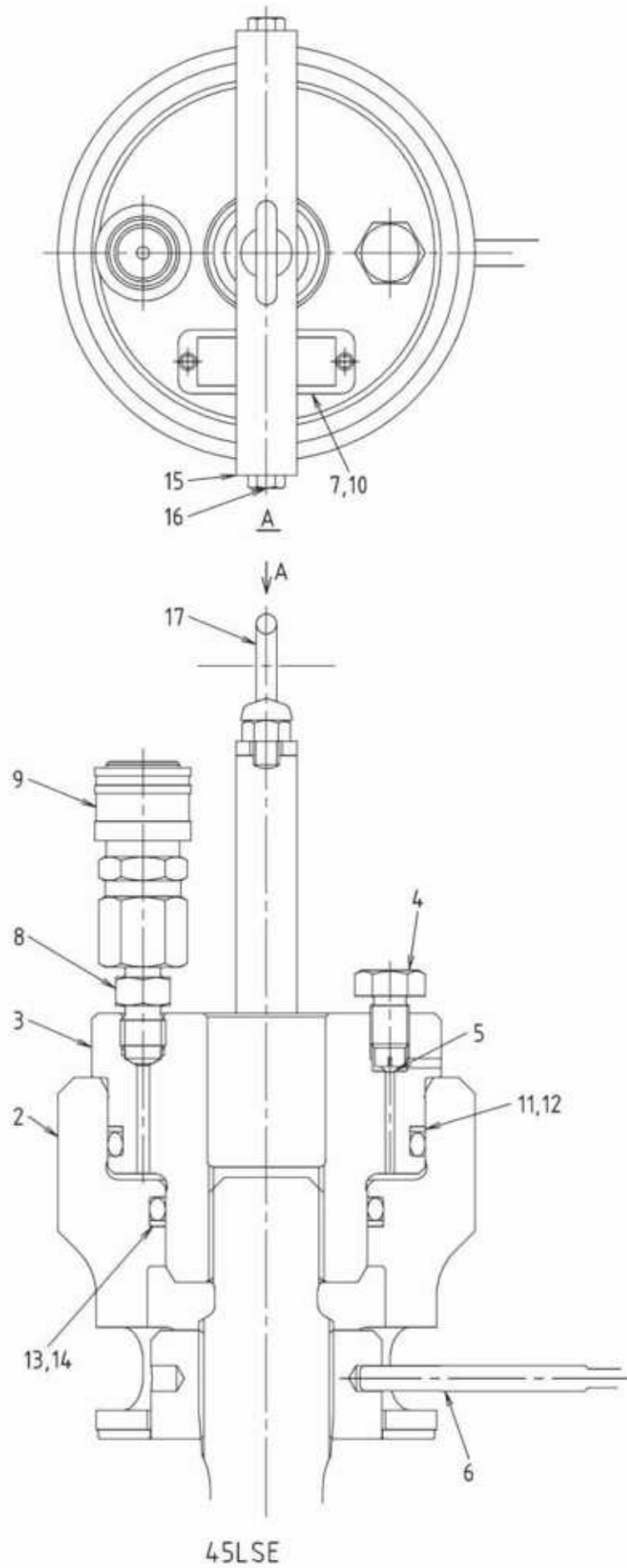
45LSE

840

Key No.	Description
840300	Tightening tool for exhaust valve
2	Cylinder
3	Piston
4	Foot piece
5	Tension nut
6	Handle
7	Name plate
8	Bolt
9	Joint
10	Coupler
11	Coned disk spring
12	Air vent plug
13	Steel ball
14	Hexagon socket set screw
15	Tightening bar
16	Back-up ring
17	Back-up ring
18	Bolt
19	Hexagon socket head cap screw
20	Eyebolt
21	Pan head screw
22	O-ring
23	O-ring

840 TIGHTENING TOOL FOR CROSSHEAD PIN

840600

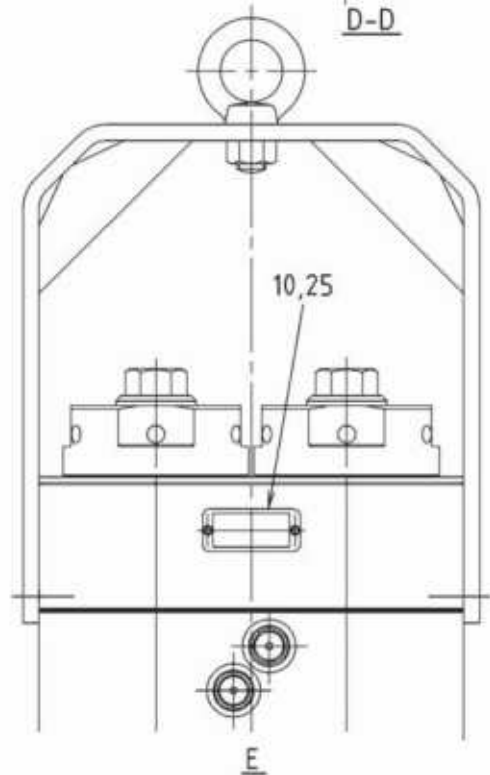
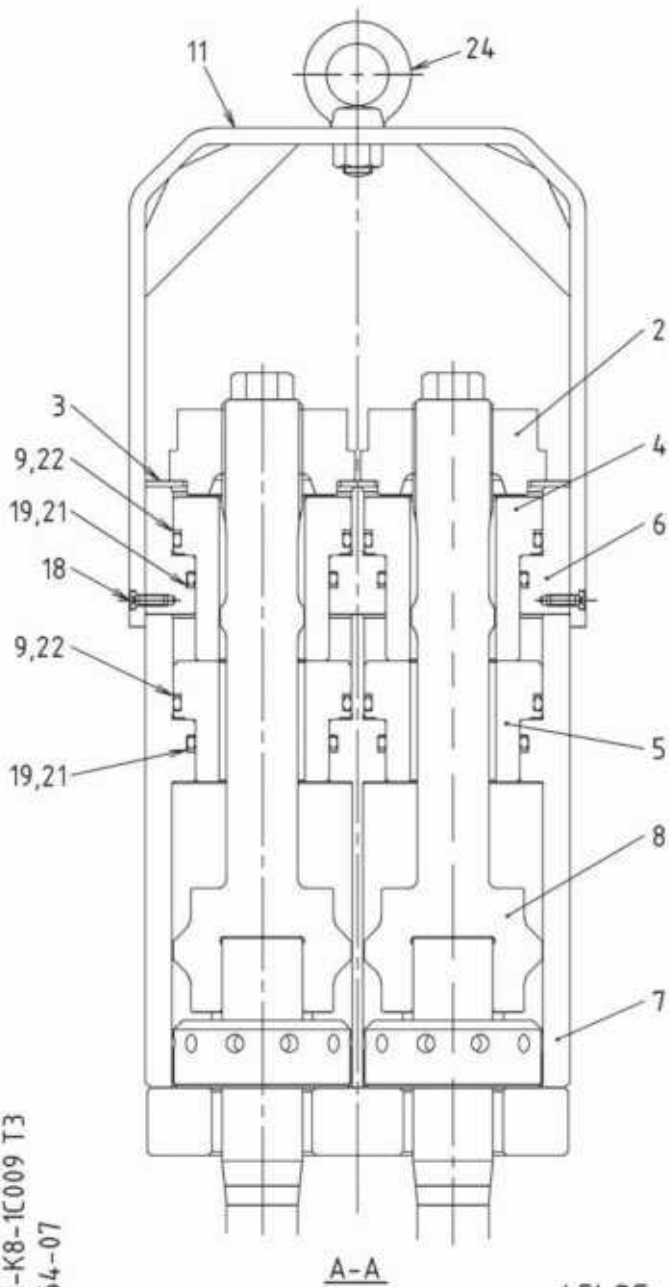
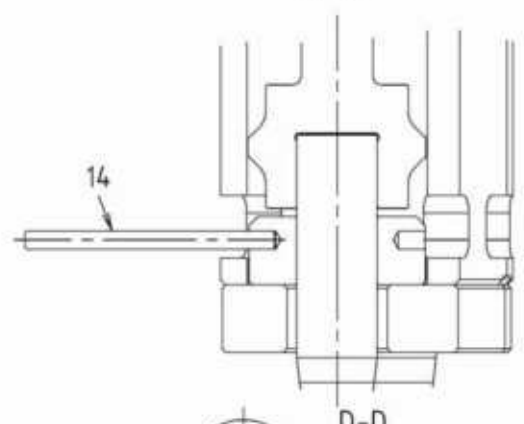
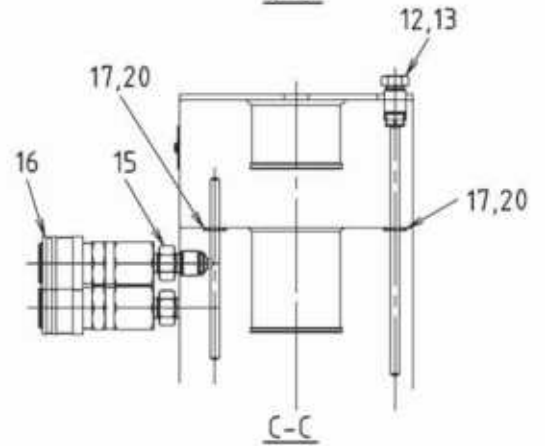
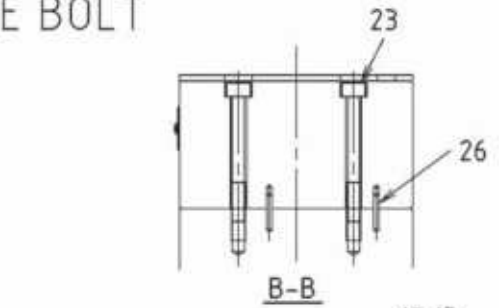
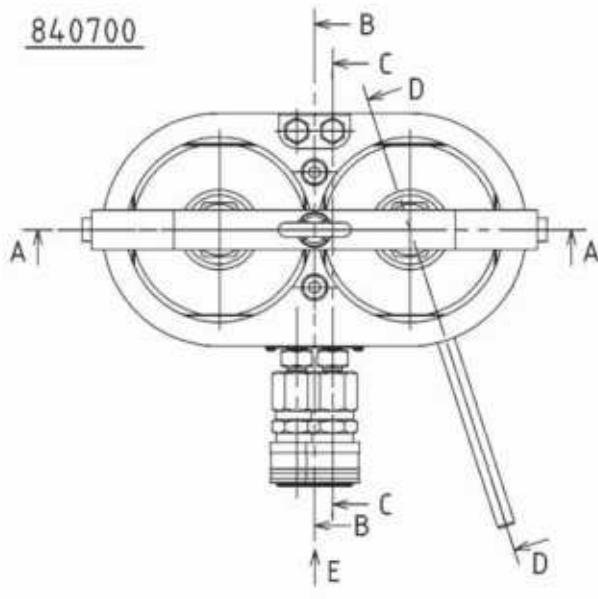


2-K8-1C015 T2
64-07

Key No.	Description
840600	Tightening tool for crosshead pin
2	Cylinder
3	Piston
4	Air vent plug
5	Steel ball
6	Tightening bar
7	Name plate
8	Joint
9	Coupler
10	Pan head screw
11	Back-up ring
12	O-ring
13	O-ring
14	Back-up ring
15	Handle
16	Bolt
17	Eyebolt

840 TIGHTENING TOOL FOR TIE BOLT

840700



1-K8-1C009 T3
64-07

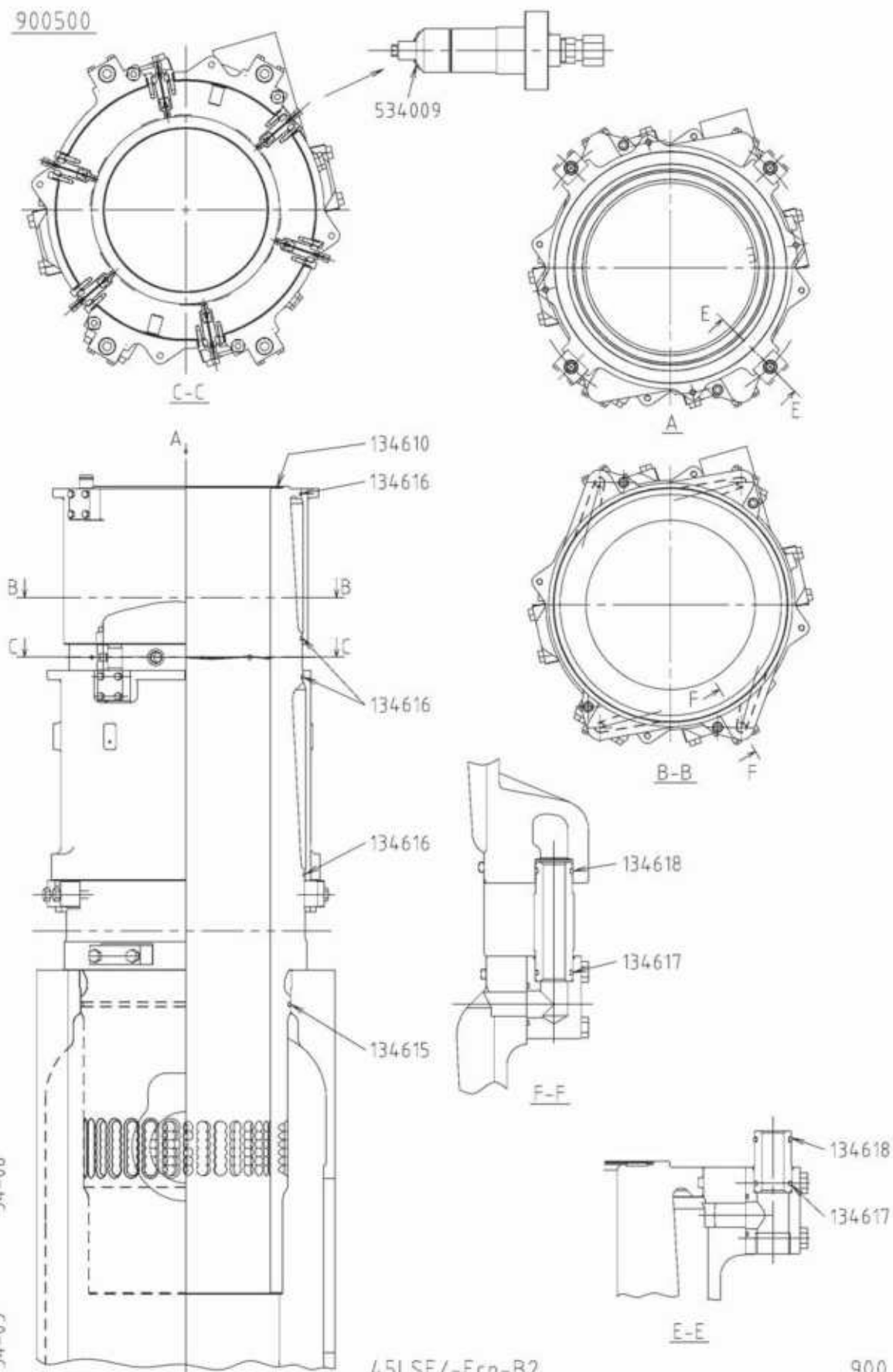
45LSE

840

Key No.	Description
840700	Tightening tool for tie bolt
2	Upper nut
3	Plate
4	Upper piston
5	Lower piston
6	Upper cylinder
7	Lower cylinder
8	Tension bolt
9	Back-up ring
10	Name plate
11	Handle
12	Air vent plug
13	Steel ball
14	Tightening bar
15	Joint
16	Coupler
17	O-ring
18	Hexagon socket button screw
19	Back-up ring
20	Back-up ring
21	O-ring
22	O-ring
23	Hexagon socket head cap screw
24	Eyebolt
25	Pan head screw
26	Spring pin

900 NECESSARY PARTS OF CYLINDER LINER OVERHAUL

900500



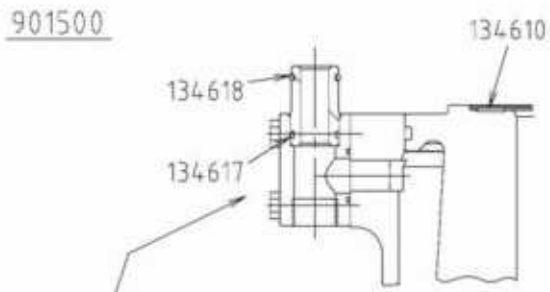
1-K1-6C022/T7, 2-U1-6C060/-
54-05 54-06

45LSE/-Eco-B2

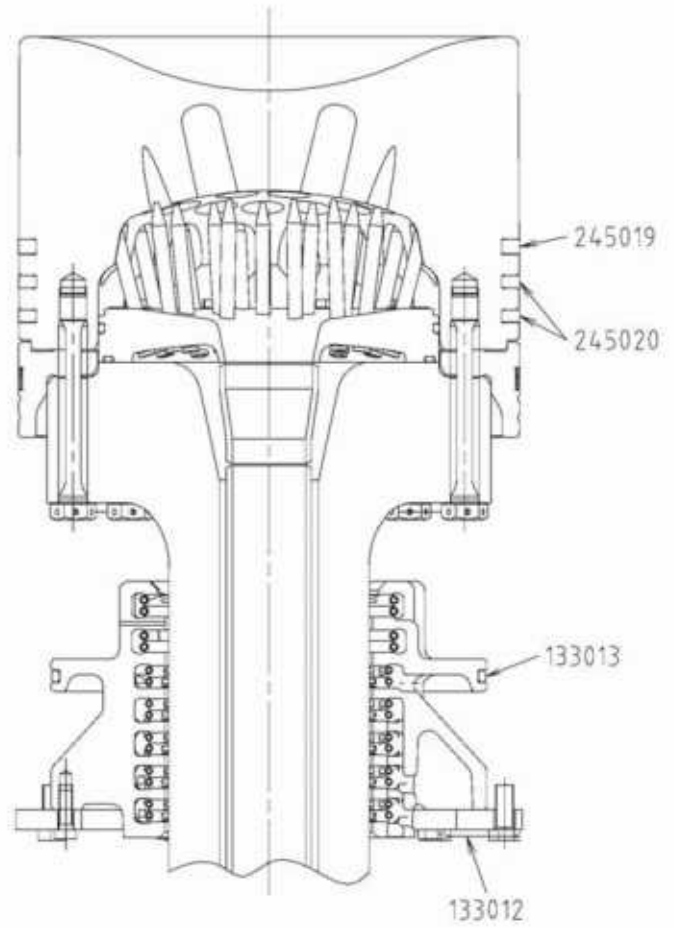
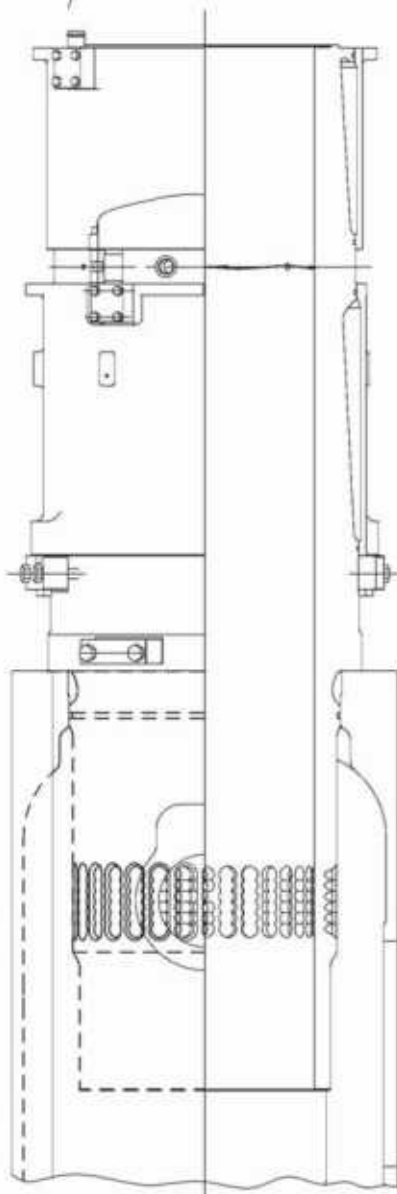
900

Key No.	Description																				
900500	Necessary parts of cylinder liner overhaul.																				
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Detail of this kit	Quantity (1cyl.)																				
134610	Gasket	1																			
134615	O-ring	1																			
134616	O-ring	4																			
134617	O-ring	8																			
134618	O-ring	8																			
534009	Cone washer	6																			
1-K1-6C022/T7, 2-U1-6C060/-	Refer to cylinder cover piping 903 and piston 901.																				

901 NECESSARY PARTS OF PISTON OVERHAUL



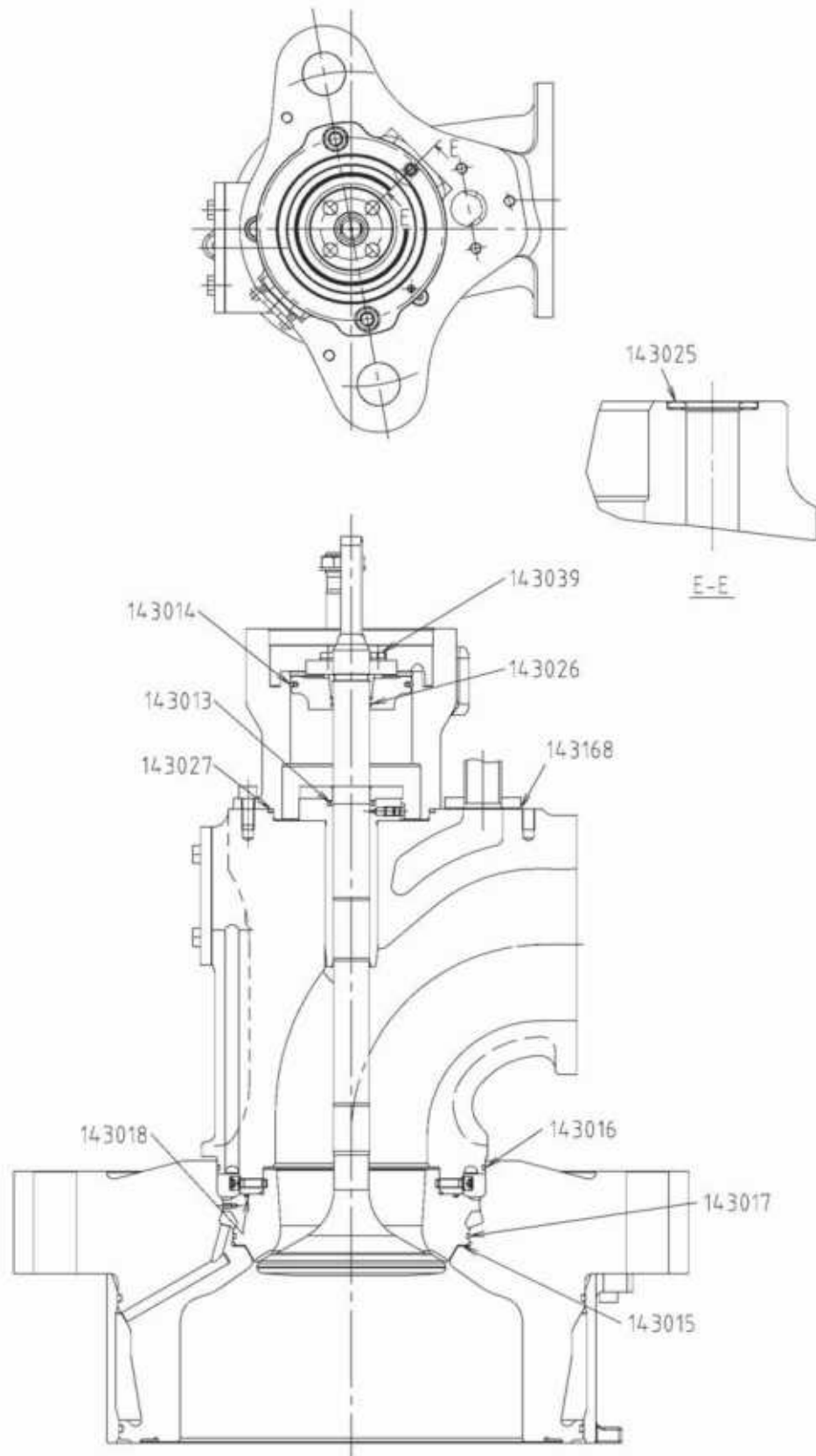
1-K1-6C022/T7, 1-K1-8C015/T2, 1-K2-2C010/T4,
54-05 55-01 55-09



Key No.	Description																							
901500	Necessary parts of piston overhaul																							
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Detail of this kit	Quantity (1cyl.)																							
133012	Wire	1																						
133013	O-ring	1																						
134610	Gasket	1																						
134617	O-ring	4																						
134618	O-ring	4																						
245019	Piston ring (1st ring)	1																						
245020	Piston ring (2nd,3rd ring)	2																						
1-K1-6C022/T7, 1-K1-8C015/T2, 1-K2-2C010/T4																								
	Refer to cylinder cover piping 903.																							

902 NECESSARY PARTS OF EXHAUST VALVE OVERHAUL

902200



1-K3-6C007/T3, 1-U7-4C139/T3
57-11 67-05

45LSE-B2

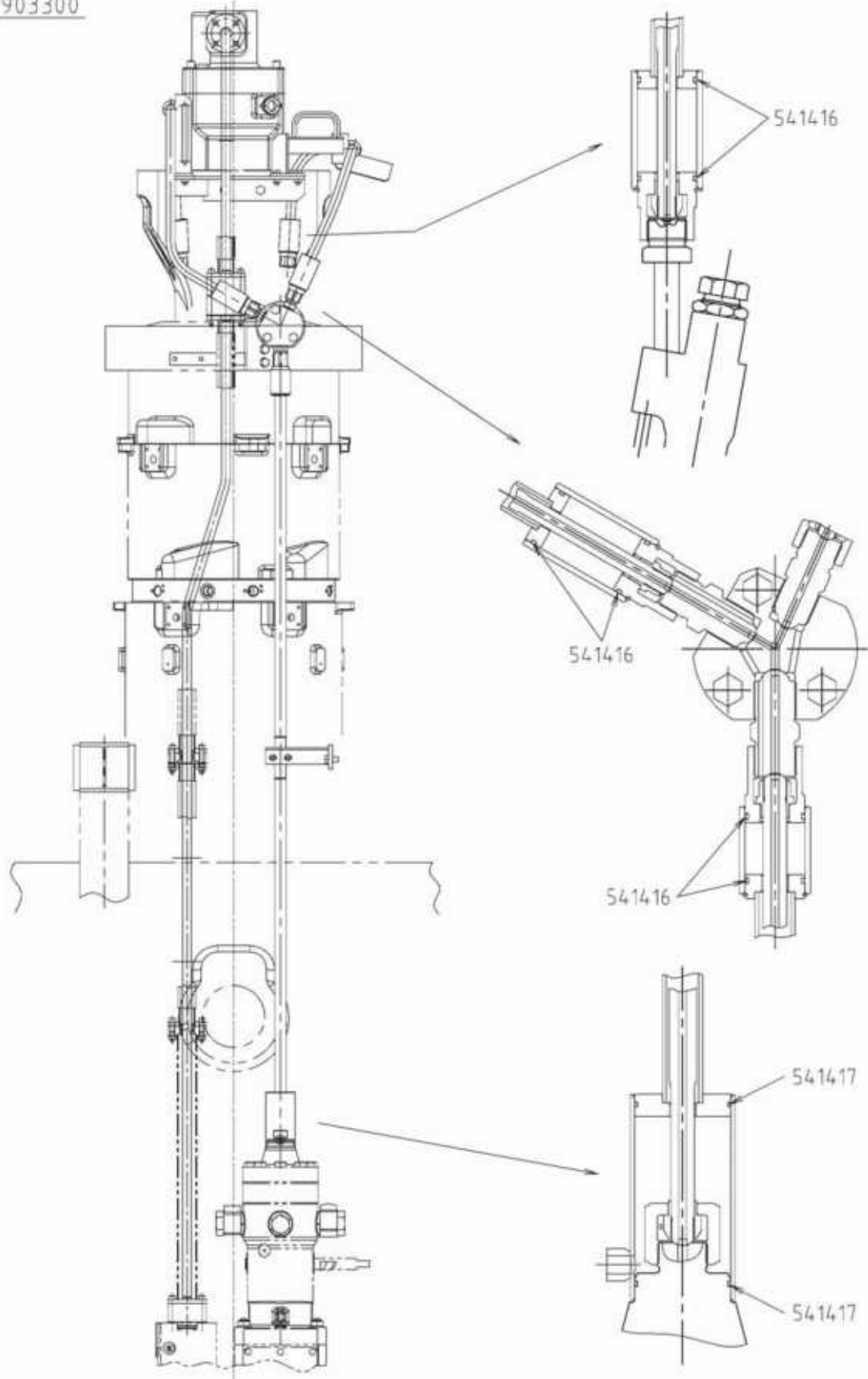
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Key No.	Description																																					
902200	Necessary parts of exhaust valve overhaul																																					
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Detail of this kit	Quantity (1cyl.)																																					
143013	Cap seal	1																																				
143014	Cap seal	1																																				
143015	Gasket	1																																				
143016	O-ring	1																																				
143017	O-ring	1																																				
143018	O-ring	1																																				
143025	O-ring	1																																				
143026	O-ring	1																																				
143027	O-ring	1																																				
143039	Locking wire	1																																				
143168	Special gasket	1																																				
Refer to cylinder cover piping 903.																																						

1-K3-6C007/T3, 1-U7-4C139/T3

903 NECESSARY PARTS OF CYLINDER COVER PIPING OVERHAUL

903300



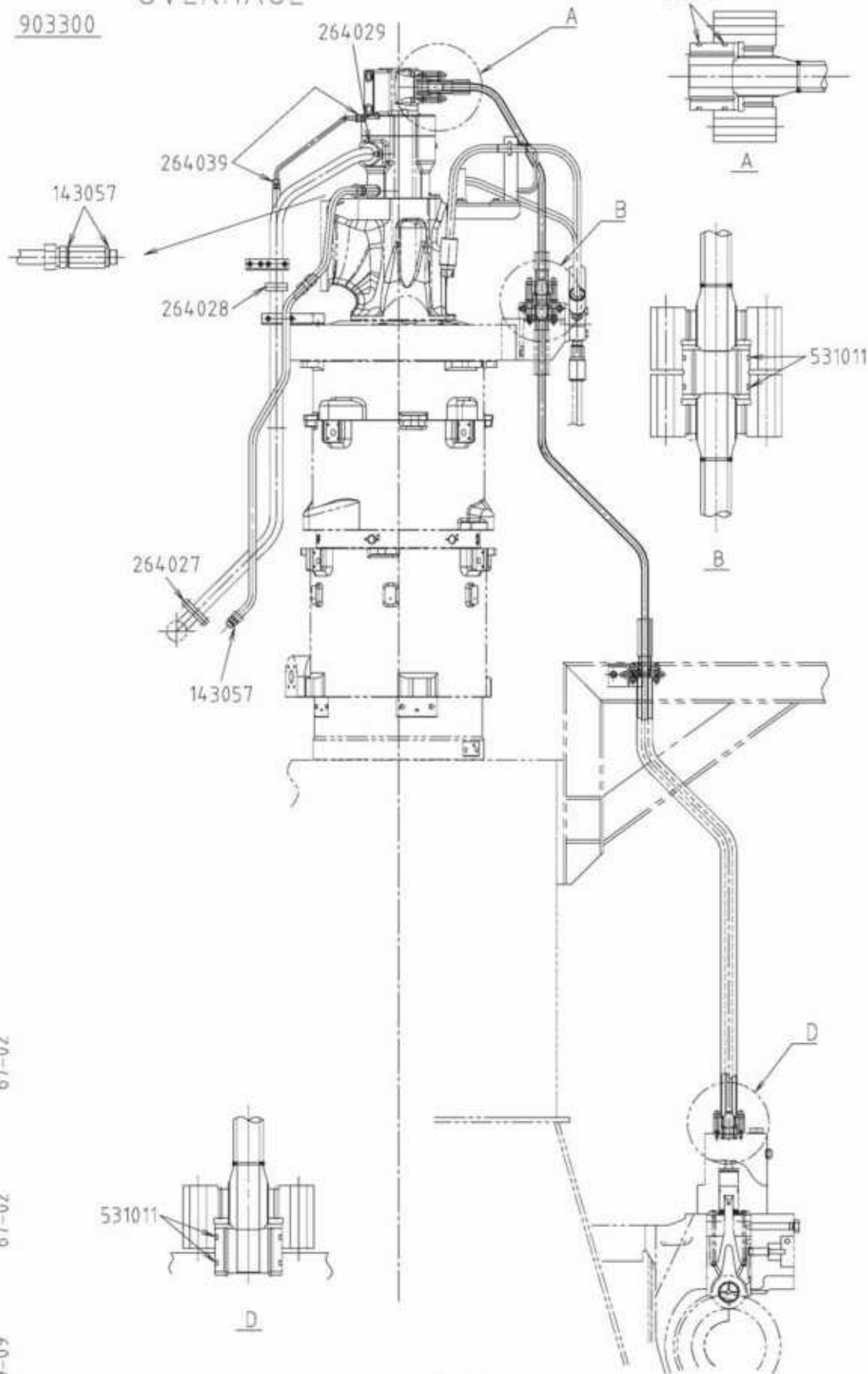
1-K7-2C113/T1
66-01

45LSE-B2

903

903 NECESSARY PARTS OF CYLINDER COVER PIPING OVERHAUL

903300



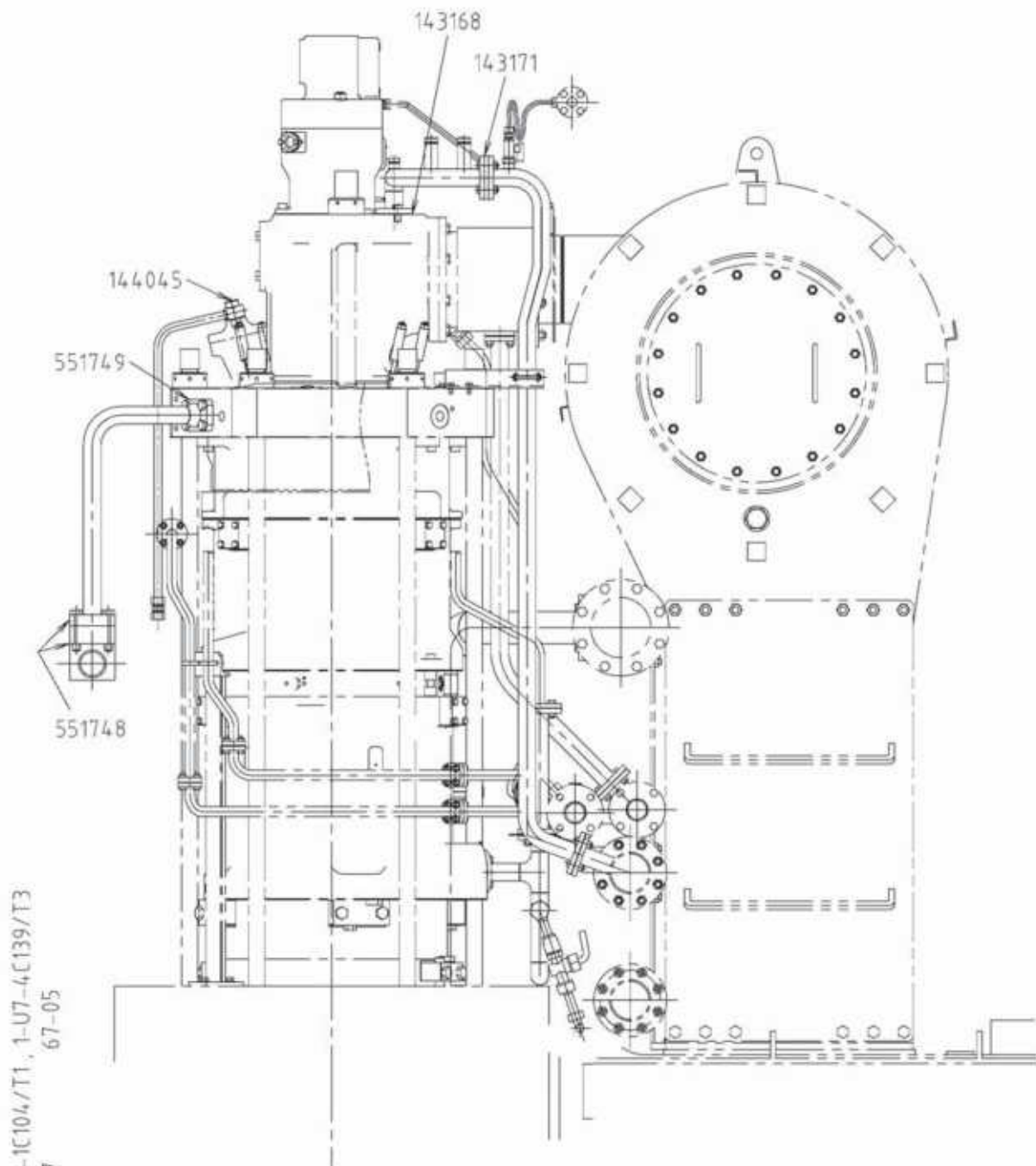
1-U7-1C150/-, 1-U7-3C508/T1, 1-U7-3C518/-
69-09 67-02 67-02

45LSE-B2

903

903 NECESSARY PARTS OF CYLINDER COVER PIPING OVERHAUL

903300



1-U7-1C096/-, 2-U7-1C104/T1, 1-U7-4C139/T3
65-05 65-07 67-05

Key No.	Description	
903300	Necessary parts of cylinder cover piping overhaul	
	Detail of this kit	Quantity (1cyl.)
143057	Copper gasket	3
143168	Special gasket	1
143171	Full-face gasket	1
144045	Copper gasket	1
264027	Full-face gasket	1
264028	Gasket	1
264029	Gasket	1
264039	Copper gasket	2
541416	O-ring	10
541417	O-ring	2
531011	O-ring	6
551748	O-ring	1
551749	O-ring	2

1-K7-2C113/T1, 1-U7-1C150/-, 1-U7-3C508/T1, 1-U7-3C518/-

1-U7-4C139/T3, 2-U7-1C104/T1, 1-U7-1C096/-