



CENTRIFUGAL COMPRESSORS

RENEWAL PARTS

Supersedes 160.73-RP3 (810)

Form 160.73-RP3 (217)

STYLE "F" AND LATER MODELS (See Tables Below)

COMPRESSOR MODEL	COMPRESSOR CODE	VGD OPTION
YDHA-41	G4	NO
YDHB-61	H3	NO
YDHE-50N	H5	NO
YDHE-50W	H5	NO
YDHE-57	H6	NO
YDHE-59	H7	NO
YDHE-61	H8	NO
YDHE-70	H9	YES
YDHG-65	J1	YES
YDHG-73	J2	YES
YDHA-81	J3	YES
YDHA-90	J4	YES
YDHA-104	J5	YES
YDHA-119	J7	YES

Issue Date:
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COMPRESSOR TOOL KITS	
YDHA - 41	364K48145 000
YDHB - 61	364K48343 000
YDHE - 50, 57, 59, 61	364K49275 000
YDHE - 70	364 51644 000
YDHG - 65, 73	364K48026 000
YDHA - 81, 90, 104	364K48026 000
YDHA - 119	364 51665 000

COMPOUNDS AND ABRASIVES	
Crocus Cloth	041 02729 000
Garnet Paper 180 grit	041 10057 000
Molykote (2 Oz. Can)	364 21508 000
Removable Thread Sealer	013 01678 000
Permanent Thread Locker	013 01671 000
Refrigerant Pipe Sealer	013 02894 000
Primer for Thread Sealers	013 01753 000
Magic Bond Epoxy Stick	044 03420 000
P.O.E. Grease	044 03199 000
Caribbean Blue Enamel	013 01835 000
Gasket Eliminator Sealer	013 02827 000
Valve Stem Lub (2 Oz. Can)	360 00125 000

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YDHE - 59 (H7)	27
YDHE - 61 (H8)	27
YDHE - 57/59/61 PRV ASSEMBLY	34
YDHE - 70 (H9) W/VGD	35
YDHE - 70 VGD ASSEMBLY	45
YDHE - 70 PRV ASSEMBLY	47
YDHG - 65 (J1)	48
YDHG - 73 (J2)	48
YDHG - 65 (J1) W/VGD	55
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YDHG - 65/73 VGD ASSEMBLY	64
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YDHA - 81 (J3)	67
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YDHA - 104 (J5)	76
YDHA - 81 (J3) W/VGD	76
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YDHA - 81/90/104 PRV ASSEMBLY	85
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BEARING KITS	105
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HA COMPRESSOR

MODEL HA 41

ITEM	DESCRIPTION	QTY.	PART NUMBER
002	SCREW, SET HEX SOC CUP PT	2	021 17615 000
003	NUT, HEX 5/8 -11 UNC-2B	2	021 17659 000
005	SUPPORT, ROTOR W/BRG HSG	1	364 48227 000
006	WIRING, ACTUATOR, PRV MOTOR	1	375 24168 102
007	SCREW, CAP HEX 3/8 -16UNC	3	021 01483 000
*008	BEARING, HIGH SPEED REAR	1	064 48212 000
*009	BEARING, LOW SPEED REAR	1	064 47901 000
*010	BEARING, LOW SPEED FRONT	1	064 47902 000
*011	BEARING, THRUST HIGH SPEED	1	029 21377 002
*013	COLLAR, THRUST HIGH SPEED	1	064 48051 000
*014	COLLAR, THRUST LOW SPEED	1	064 47770 000
015	COLLAR, IMPELLER CLAMP	1	064 48132 000
017	BEARING, HIGH SPEED REVS THRUST H 36-57	1	029 20898 002
†018	SEAL, O-RING 8 ID X 8-1/4 OD X	1	028 12255 000
019	NAMEPLATE, PATENT	1	029 13270 002
020	COVER, PRV SHAFT CONTROL	1	064 48861 000
021	SHAFT, CONTROL PREROT DEVICE	1	364 29573 000
022	RETAINER, BALANCE PISTON SEAL	1	064 48144 000
023	SCREW, CAP HEX 3/8 -16UNC	2	021 18901 000
025	VALVE, STOP ANG VERTICAL	1	022 09577 000
026	TRANSDUCER, PRESSURE	1	025 28678 006
027	ORIFICE, HIGH SPEED OIL FEED	1	064 48034 000
028	WASHER, SPECIAL PRV	1	064 48503 000
029	WASHER, PLAIN 9/32 ID X 5/8 OD	4	021 05165 000
030	NUT, FLARE HYDRAULIC 3/8 OD	3	023 09673 000
031	SEALER, GRADE AVV LOCTITE 086	.006	013 01671 000
032	SEALER, REFRIGERANT PIPE	.025	013 02894 000
033	LEVER, INTERNAL	1	064 47482 001
034	LEVER, PRE-ROT VANE	1	064 47109 000
035	LEVER, PRV MOTOR	1	064 47925 000
036	PLUG, PIPE, FLUSH TYPE HEX	2	023 05366 000
037	ROD, ADJUSTABLE PRV YDTL	1	064 47512 000
038	LINK, EXTERNAL PRV	2	064 47940 000
040	RETAINER, BEARING S STAGE TURBO	3	064 46886 000
041	SLEEVE, FLARE HYDRAULIC 3/8 OD	3	023 10001 000
043	CONNR, FLARE HYDRAULIC 1/4 OD	1	023 09668 000
045	SENSOR, TEMPERATURE 50,000 OHMS	1	025 33288 000
047	VALVE, STOP ANGLE, 1/4 NPTE X	2	022 03836 000
050	BOLT, SHLD SPL 1/4 20 UNC	1	064 28282 000
051	PLUG, PIPE 1/4 HEX SOCKET	2	023 01973 000
052	ELBOW, FLARE HYDRAULIC 3/8 OD	2	023 11343 000
053	TUBE, TEE-DRAIN H 36-57	1	064 48216 000
054	BOLT, SHLD SPL 1/4 -20 X 1	1	064 28262 000
055	FILLPIECE, PREROT DEVICE	1	064 12328 000
056	BEARING, ROD END W/SST ISRT CHROME	2	029 08343 000

* Included in Bearing Kit † Included in O-Ring Kit

HA COMPRESSOR

MODEL HA 41

ITEM	DESCRIPTION	QTY	PART NUMBER
057	SCREW, CAP 12 PT HD 1/2	1	021 11998 000
058	SCREW, SPECIAL 1/2-20 UNRF	1	021 17679 000
059	SCREW, CAP 12PT HD 3/8	1	021 11742 000
060	FILLPIECE, PREROT DEVICE	1	064 28446 000
061	SCREW, CAP 12 PT HD 1/4	3	021 11505 000
062	SCREW, CAP 12PT HD 3/8	1	021 11720 000
064	SCREW, DRIVE TY U #4 X 1/4	8	021 03720 000
065	WASHER, PLAIN CLIPPED HARDENED	32	021 17593 000
066	SCREW, CAP 12PT HD 5/8	30	021 11553 000
067	SCREW, CAP FLAT SOC HD 3/8	2	021 13856 000
068	CONNR, FLARE HYDRAULIC 3/8 OD	3	023 09671 000
069	SCREW, CAP HEX 3/8 -16UNC	8	021 01477 000
070	TUBE, 9 LG 37 DEG SAE FL 1 END	1	064 47557 000
071	SCREW, CAP HEX 3/8 -16UNC	9	021 01497 000
072	PLATE,MTG	1	064 47998 000
073	HEADER, SPRAY	1	064 48003 000
074	SCREW, SET HEX SOC CUP PT	1	021 03910 000
075	WASHER, PLAIN 13/32 ID X 13/16	2	021 01274 000
076	SPRING, HEL COMPRESSOR VALVE	32	029 10757 000
078	SCREW, SET HEX SOC CUP PT	1	021 00774 000
079	LOCKWASHER, HEL SPG 1/4 REG	2	021 05267 000
080	NUT, HEX 3/8 - 24 UNF-2B	2	021 00474 000
081	NUT, HEX 1/4 - 20 UNC-2B	10	021 00450 000
082	PIN, DOWEL TAPPED 3/8 DIA	3	029 18459 000
083	SCREW, CAP HEX 1/4 -20UNC	4	021 01392 000
084	SCREW, SHOULDER SOC HD	3	021 17557 000
†085	SEAL, O-RING .301 ID X .064	1	028 12209 000
†086	SEAL, O-RING 5/16 ID X	2	028 12513 000
†087	GASKET, 2-1/2 OD X 2 ID X 1/32	1	064 47751 000
088	CONN, OIL DRAIN	1	364 48291 000
089	VALVE, CHECK OIL 1/8 NPTE	1	022 04444 000
090	GREASE POE	.015	044 03199 000
092	SEAL, O-RING 5-5/8 ID X 5-7/8	1	028 12258 000
093	TUBE, STEEL 3/8 OD X .049 X	1.5	003 00240 000
†094	SEAL, O-RING 1-1/8 ID X 1/8	3	028 12200 000
†095	SEAL, O-RING 1 ID X 1/8	1	028 12201 000
096	COVER PLATE, HIGH SPEED THRUST COLLAR	1	064 48052 000
098	SCREW, CAP HEX 3/8 -16UNC	16	021 10037 000
100	PLUG, PIPE FLUSH TYPE HEX	3	023 21738 000
103	BEARING, THRUST	1	029 20839 001
104	VALVE, STOP ANG, 3/8 NPTE X	2	022 01582 000
105	SCREW, CAP HEX SOC HD 1/4	14	021 02578 000
109	SCREW, CAP HEX 3/8 -16UNC	4	021 09071 000
†110	GASKET, ROT SUP/SCROLL 36 - 57	1	064 47875 000
111	RING, FILL KIT LEVER MOTOR	1	064 28284 000

* Included in Bearing Kit † Included in O-Ring Kit

HA COMPRESSOR MODEL HA 41

ITEM	DESCRIPTION	QTY.	PART NUMBER
†112	SEAL, O-RING 1-1/4 ID X	1	028 05181 000
116	ELBOW, FLARE HYDRAULIC 1/4 OD	1	023 09677 000
†121	SEAL, O-RING 18 ID X 18-1/4 OD	1	028 12257 000
†122	SEAL, O-RING 4-1/4 ID X 4-1/2	1	028 12259 000
123	RING, BALANCE PISTON SEAL	1	064 48211 000
†124	SEAL, O-RING SPLICED 28.482 ID	1	028 12260 000
125	SCREW, CAP HEX 1/4 -20UNC	6	021 16826 000
130	PIN, SLOT SPG 3/16 X 1/2	1	029 04138 000
131	SCREW, CAP HEX 3/8 -16UNC	13	021 14374 000
*132	BEARING, HIGH SPEED FRONT	1	064 48050 000
134	PIN, SLOT SPG 1/4 X 3/4	3	029 04750 000
139	TEE, INSTM UNION 3/8 TUBE	1	023 10595 000
140	TUBE, HIGH SPEED-TEE H 36-57	1	064 48215 000
141	PROBE, PROXIMITY	1	025 35900 000
148	STRAP, CABLE T&B L4-18-9-M	2	025 18167 000
153	BRACKET, SUPPORT LOWER PRV	1	064 48851 000
156	CONNR, FLA M X M 3/8 OD FLA	1	023 20853 000
†157	SEAL, O-RING .351 ID X	1	028 13832 000
†158	SEAL, O-RING NEOPRENE	9	028 12961 003
201	IMPELLER, 4.1 EYE HARD COAT HA 41	1	364 48125 001
202	PLATE, NOZZLE BASE HA 41	1	064 48129 000
203	PLATE, DIFFUSER, HA 41	1	064 48127 000
204	DEVICE, PRV, HA 41	1	364 47916 005
206	RING, EYE SEAL IMPELLER, HA 41	1	064 48140 000
207	RETAINER, EYE SEAL	1	064 48143 000
†208	SEAL, O-RING 7 ID X 7-1/4 OD X	1	028 12550 000
209	ROTOR, SCROLL, HA 36-50	1	064 48274 000
212	PLUG, PIPE, 1/4 HEX SOCKET	1	023 01973 000
213	TUBE, HS SOL, H36-57	1	364 48214 000
214	NUT, FLA SHORT FORGED 45	1	021 05662 000
215	VALVE, SOLENOID, 2-WAY 3/8 SAE	1	025 29152 000
216	TUBE, STL 1-1/16 LG X 3/8 OD X	1	064 48213 000
217	CONNR, FLARE HYDRAULIC 1 OD	1	023 10785 000
218	CAP, FLARE HYDRAULIC, 1OD	1	023 11362 000
226	SEAL, DOUBLE SHAFT	1	029 22428 000
226A	C-RING, SHAFT SEAL (REPLACEMENT)	1	028 14492 000
227	ELBOW, FLARE HYDRAULIC 3/8 OD	1	023 18969 000
228	TUBE, 3/8 OD X 25-3/4 LG.	1	064 49032 000
230	FITTING, LIQUID TIGHT, 1/2 NPT	1	025 28720 000
231	BUSH, PIPE 3/4 - 14 NPTE X	1	023 04010 000

* Included in Bearing Kit † Included in O-Ring Kit

HA COMPRESSOR
MODEL HA 41

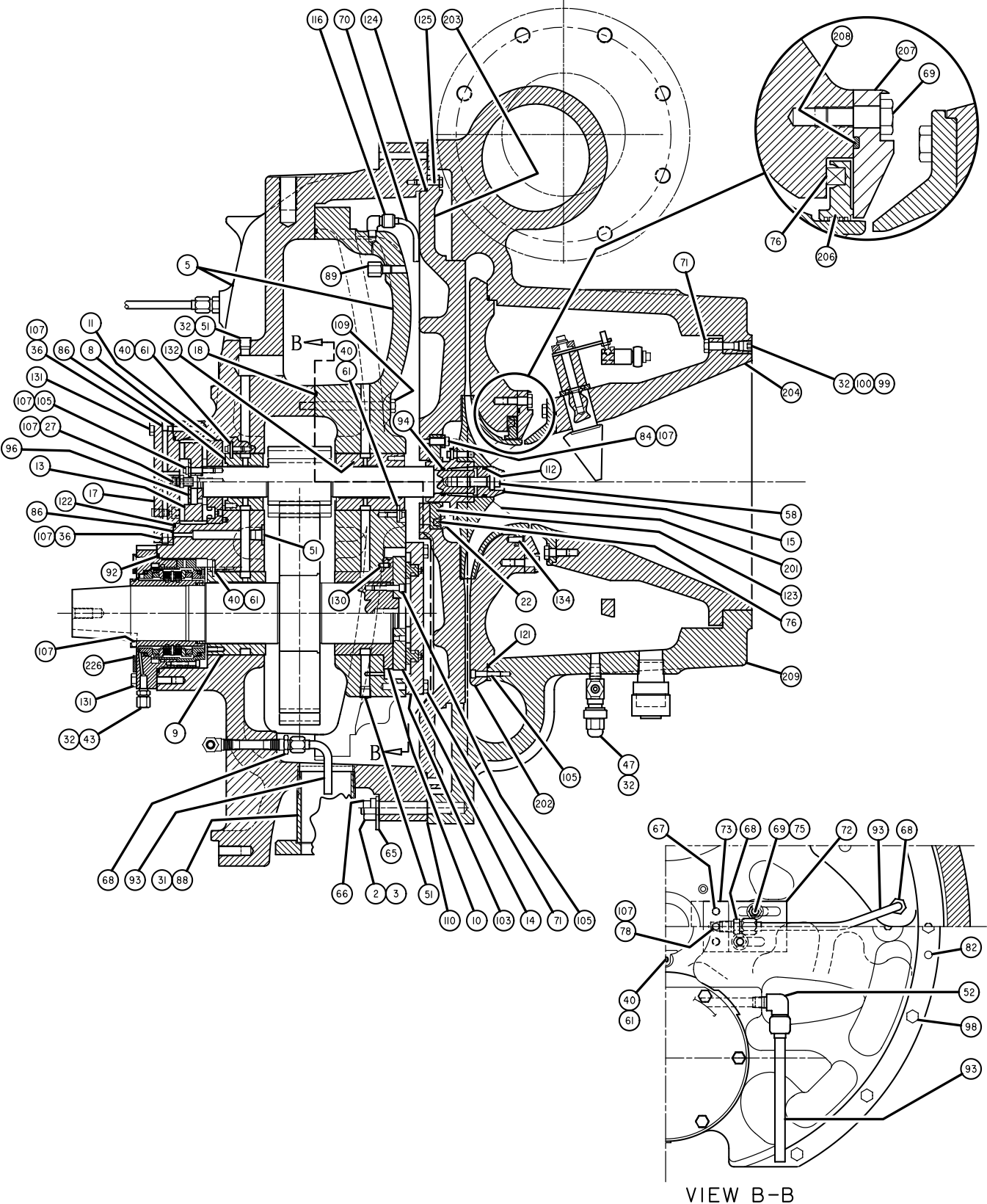


FIG. 1 – HA COMPRESSOR (41)

HA COMPRESSOR
MODEL HA 41

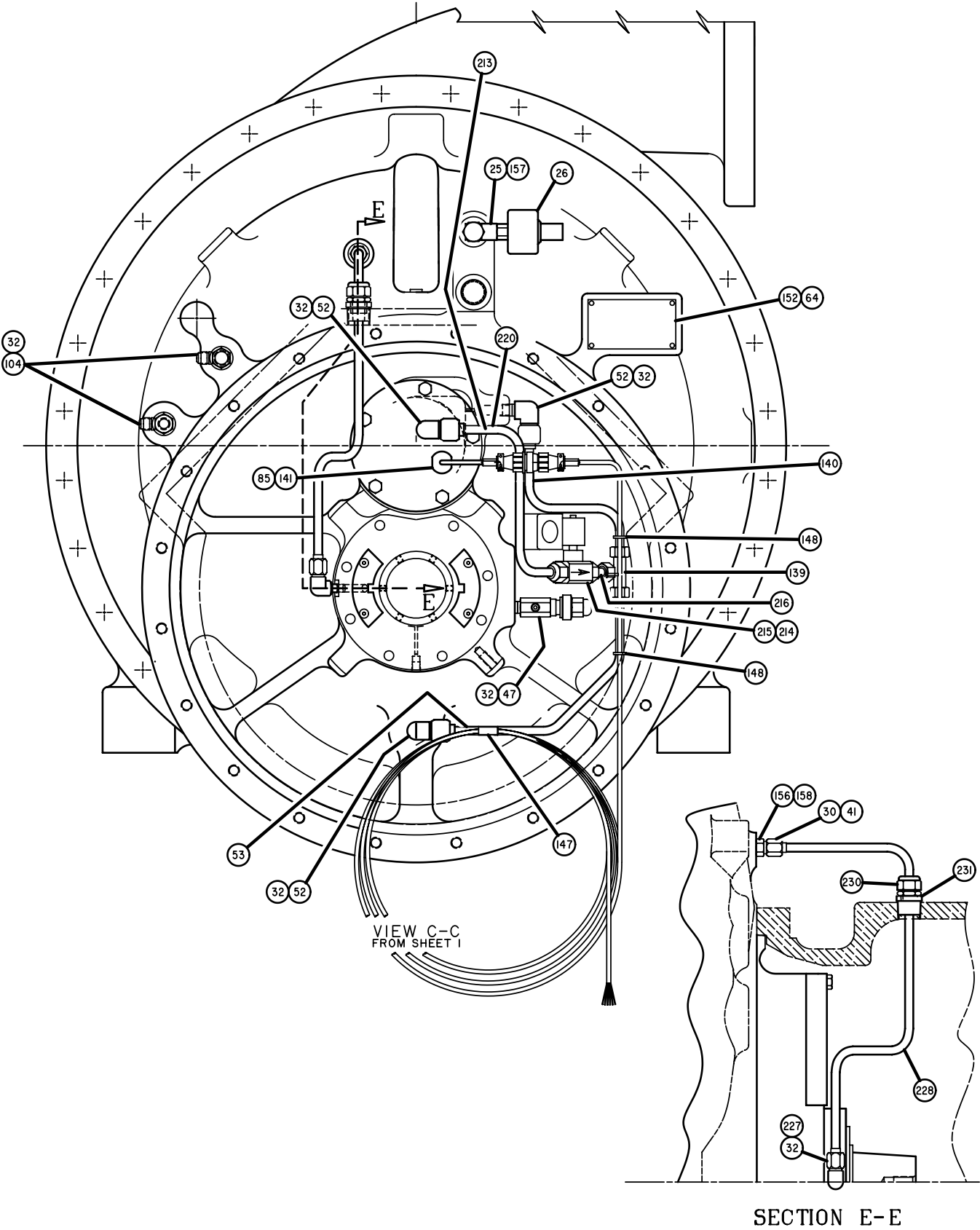


FIG. 2 – HA COMPRESSOR (41)

LD12087

HA COMPRESSOR
MODEL HA 41

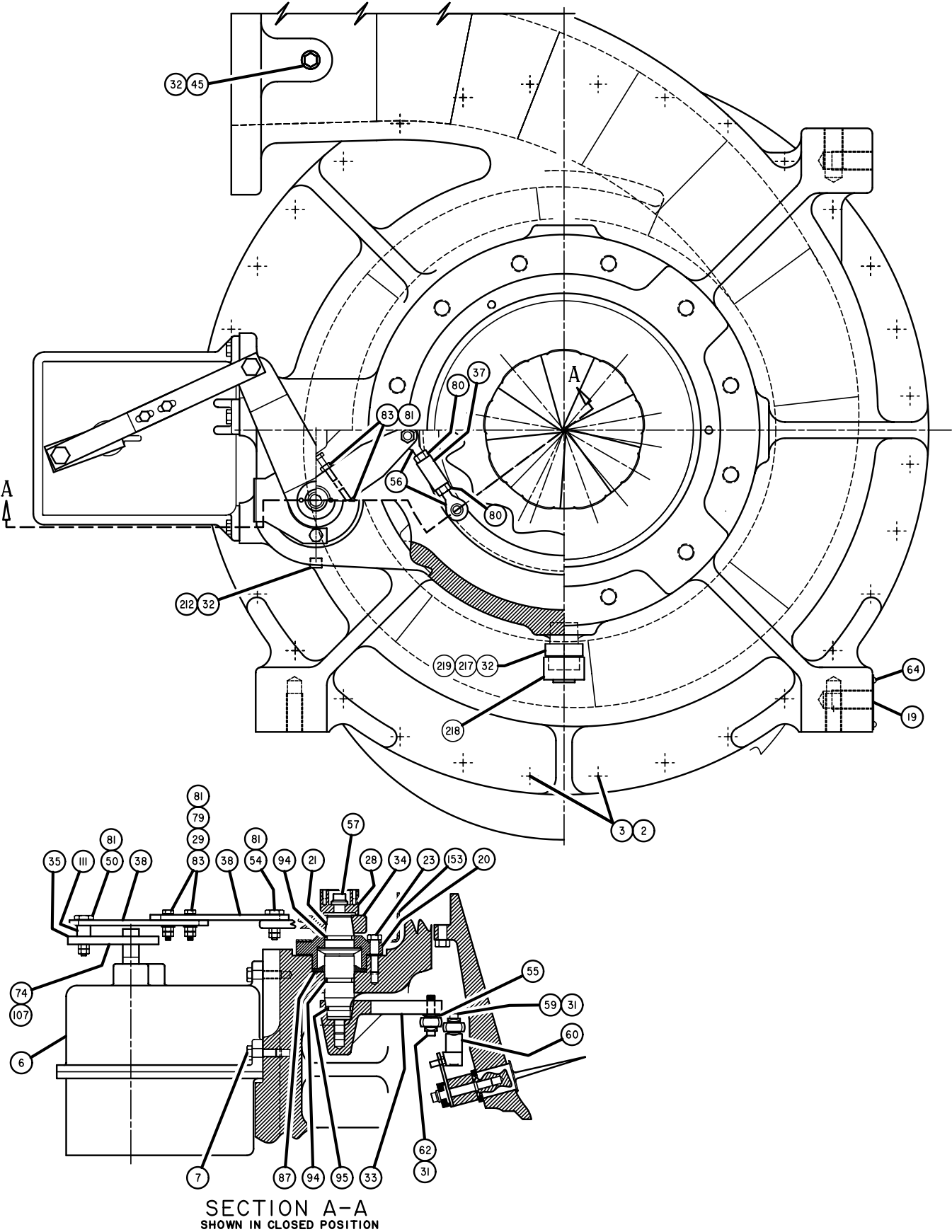
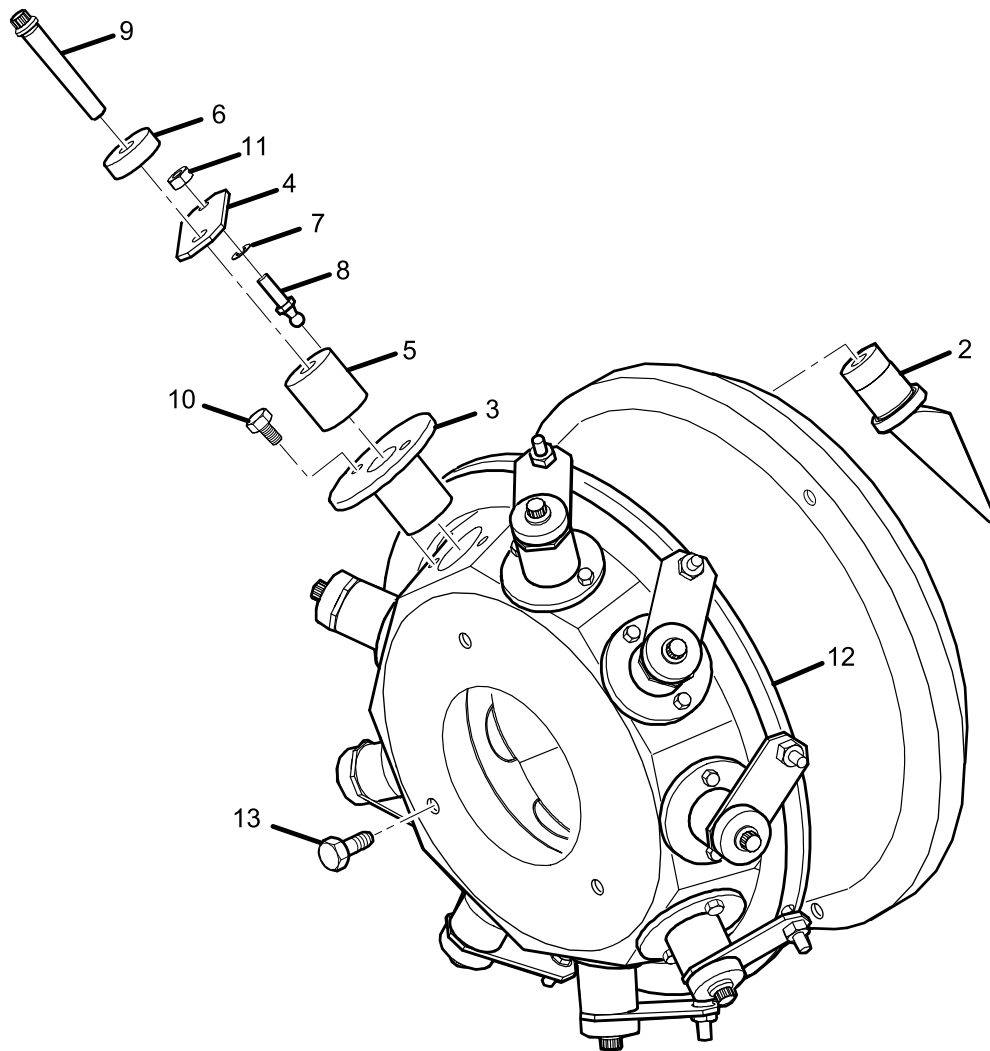


FIG. 3 – HA COMPRESSOR (41)

DEVICE PRE-ROTATION MODEL HA 41



LD12064

FIG. 4 – DEVICE PRE-ROTATION (HA 41)

ITEM	DESCRIPTION	QTY.	PART NUMBER
	COMMON PARTS	-	364 49102 001
002	VANE, PRE-ROTATION	9	064 49100 000
003	RETAINER, PRV	9	064 48252 000
004	ARM , VANE PRV	9	064 47952 000
005	SPACER, PRV ARM	9	064 49101 000
006	WASHER, SPL 25/64 ID	9	064 09289 000
007	WASHER, PLAIN LT 17/64 ID 1/2	10	021 11973 000
008	STUD, BALL 1/4-28 UNF	9	029 15924 000
009	SCREW, CAP 12 PT HD 3/8	9	021 16580 000
010	SCREW, CAP HEX 1/4-20 UNC-2A	18	021 18434 000
011	NUT, SELF LOCK 1/4-28UNF	9	021 12943 000
012	RING, PRV	1	064 48195 000
013	HHCS, 0.375-16 X .875 GR 5	3	021 01470 000

HB COMPRESSOR

MODEL HB 61

ITEM	DESCRIPTION	QTY.	PART NUMBER
001	PRIMER, LOCQUIC GRADE N	-	013 01753 000
002	SCREW, SET HEX SOC CUP PT	2	021 17615 000
003	NUT, HEX 5/8 -11 UNC-2B	2	021 17659 000
004	PLUG, HEX HD 9/16	4	023 18962 000
005	SUPPORT, ROTOR W/BRG HSG	1	364 50641 000
006	ACTUATOR, PRV MOTOR	1	025 18411 000
007	SCREW, CAP HEX 3/8 -16UNC	3	021 01483 000
*008	BEARING, HIGH SPEED REAR	1	064 48208 000
*009	BEARING, LOW SPEED REAR	1	064 47901 000
*010	BEARING, LOW SPEED FRONT	1	064 47902 000
*011	BEARING, THRUST HIGH SPEED	1	029 20900 002
012	VALVE, STOP ANG VERTICAL	1	022 09578 000
*013	COLLAR, THRUST HIGH SPEED	1	064 47904 000
*014	COLLAR, THRUST LOW SPEED	1	064 47770 000
015	COLLAR, IMPELLER CLAMPING	1	064 48123 000
016	ELBOW, FLARE HYDRAULIC 3/8 OD	2	023 18920 000
017	BEARING, HIGH SPEED REVS THRUST	1	029 20898 002
†018	SEAL, O-RING 8 ID X 8-1/4 OD X	1	028 12255 000
020	COVER, PRV SHAFT CONTROL	1	064 48861 000
021	SHAFT, CONTROL PREROT DEVICE	1	364 29573 000
022	RETAINER, BALANCE PISTON SEAL	1	064 48357 000
023	SCREW, CAP HEX 3/8 -16UNC	2	021 18901 000
†024	SEAL, O-RING NEOPRENE	1	028 12961 004
025	VALVE, STOP ANG VERTICAL	1	022 09577 000
026	TRANSDUCER, PRESSURE	1	025 28678 006
027	ORIFICE, HIGH SPEED OIL FEED	1	064 48034 000
028	WASHER, SPECIAL PRV	1	064 48503 000
029	WASHER, PLAIN 9/32 ID X 5/8 OD	4	021 05165 000
030	NUT, FLARE HYDRAULIC 3/8 OD	3	023 09673 000
031	SEALER, GRADE AVV LOCTITE 086	-	013 01671 000
032	SEALER, REFRIGERANT PIPE	-	013 02894 000
033	LEVER, INTERNAL	1	064 48153 000
034	LEVER, PRE-ROT VANE	1	064 47109 000
035	LEVER, PRV MOTOR	1	064 47925 000
036	PLUG, PIPE, FLUSH TYPE HEX	2	023 05366 000
037	ROD, ADJUSTABLE PRV YDTL	1	064 47512 000
038	LINK, EXTERNAL PRV	2	064 47940 000
039	IMPELLER, 6.1 EYE HARD COAT	1	064 48344 001
040	RETAINER, BEARING S STAGE TURBO	3	064 46886 000
041	SLEEVE, FLARE HYDRAULIC 3/8 OD	3	023 10001 000
042	PLATE, NOZZLE BASE	1	064 48731 000
043	CONNR, FLARE HYDRAULIC 1/4 OD	1	023 09668 000
044	PLATE, DIFFUSER HB-61	1	064 48732 000

* Included in Bearing Kit † Included in O-Ring Kit

HB COMPRESSOR

MODEL HB 61

ITEM	DESCRIPTION	QTY.	PART NUMBER
045	SENSOR, TEMPERATURE 50,000 OHMS	1	025 33288 000
046	DEVICE, PRV H 61	1	364 47916 007
047	RING, EYE SEAL IMPELLER	1	064 48354 000
048	RETAINER, EYE SEAL	1	064 48356 000
†049	SEAL, O-RING 8-1/2 ID X	1	028 12902 000
050	BOLT, SHLD SPL 1/4 20 UNC	1	064 28282 000
051	PLUG, PIPE 1/4 HEX SOCKET	2	023 01973 000
052	ELBOW, FLARE HYDRAULIC 3/8 OD	2	023 11343 000
053	TUBE, TEE-DRAIN H	1	064 48216 000
054	BOLT, SHLD SPL 1/4 -20 X 1	1	064 28262 000
055	FILLPIECE, PREROT DEVICE	1	064 12328 000
056	BEARING, ROD END W/SST ISRT CHROME	2	029 08343 000
057	SCREW, CAP 12 PT HD 1/2	1	021 11998 000
058	SCREW, CAP 12 PT HD 1/2	3	021 11515 000
059	SCREW, CAP 12PT HD 3/8	1	021 11742 000
060	FILLPIECE, PREROT DEVICE	1	064 28446 000
061	SCREW, CAP 12 PT HD 1/4	3	021 11505 000
062	SCREW, CAP 12PT HD 3/8	1	021 11720 000
063	SCROLL, ROTOR HB 61 SIDE & DOWN	1	064 50644 000
065	WASHER, PLAIN CLIPPED HARDENED	32	021 17593 000
066	SCREW, CAP 12PT HD 5/8	30	021 11553 000
067	SCREW, CAP FLAT SOC HD 3/8	2	021 13856 000
068	CONNR, FLARE HYDRAULIC 3/8 OD	3	023 09671 000
069	SCREW, CAP HEX 3/8 -16UNC	8	021 01477 000
070	TUBE, 9 LG 37 DEG SAE FL 1 END	1	064 47557 000
071	SCREW, CAP HEX 3/8 -16UNC	9	021 01497 000
072	PLATE, MTG HA50-73	1	064 47998 000
073	HEADER, SPRAY HA50-57	1	064 48003 000
074	SCREW, SET HEX SOC CUP PT	1	021 03910 000
075	WASHER, PLAIN 13/32 ID X 13/16	2	021 01274 000
076	SPRING, HEL COMPR VALVE	32	029 10757 000
077	TUBE, HIGH SPEED SOL H 36-57	1	064 49044 000
078	SCREW, SET HEX SOC CUP PT	1	021 00774 000
079	LOCKWASH, HEL SPG 1/4 REG	2	021 05267 000
080	NUT, HEX 3/8 - 24 UNF-2B	2	021 00474 000
081	NUT, HEX 1/4 - 20 UNC-2B	10	021 00450 000
082	PIN, DOWEL TAPPED 3/8 DIA	3	029 18459 000
083	SCREW, CAP HEX 1/4 -20UNC	4	021 01392 000
084	SCREW, SHOULDER SOC HD	3	021 17557 000
†085	SEAL, O-RING .301 ID X .064	1	028 12209 000
†086	SEAL, O-RING 5/16 ID X	2	028 12513 000
†087	GASKET, 2-1/2 OD X 2 ID X 1/32	1	064 47751 000
088	CONN, OIL DRAIN H 36-90	1	364 48291 000

* Included in Bearing Kit † Included in O-Ring Kit

HB COMPRESSOR

MODEL HB 61

ITEM	DESCRIPTION	QTY.	PART NUMBER
089	VALVE, CHECK OIL 1/8 NPTE	1	022 04444 000
090	GREASE POE	-	044 03199 000
091	PLUG, HEX HD 1-5/16	1	023 18282 000
†092	SEAL, O-RING 5-5/8 ID X 5-7/8	1	028 12258 000
093	TUBE, STEEL 3/8 OD X .049 X	1.5	003 00240 000
†094	SEAL, O-RING 1-1/8 ID X 1/8	2	028 12200 000
†095	SEAL, O-RING 1 ID X 1/8	1	028 12201 000
†097	SEAL, O-RING NEOPRENE	1	028 12961 008
098	SCREW, CAP HEX 3/8 -16UNC	16	021 10037 000
100	PLUG, PIPE FLUSH TYPE HEX	3	023 21738 000
*103	BEARING, THRUST	1	029 20839 001
104	VALVE, STOP ANG VERTICAL	1	022 10054 000
105	SCREW, CAP HEX SOC HD 1/4	14	021 02578 000
106	TUBE, .50 LG +/- .03 X 1/4 OD X	1	064 49229 000
107	SEALER, REMOVABLE THREAD	-	013 01678 000
108	SEAL, DOUBLE SHAFT	1	029 22428 000
108A	C-RING, REPLACEMENT FOR SHAFT SEAL	1	028 14492 000
109	SCREW, CAP HEX 3/8 -16UNC	4	021 09071 000
†110	GASKET, ROT SUP/SCROLL	1	064 47875 000
111	RING, FILL KIT LEVER MOTOR	1	064 28284 000
113	ELBOW, FLARE HYDRAULIC 3/8 OD	1	023 18969 000
114	TUBE, SHAFT SEAL OIL SUPPLY	1	064 49032 000
115	FITTING, LIQUID TIGHT 1/2 NPT	1	025 28720 000
116	ELBOW, FLARE HYDRAULIC 1/4 OD	1	023 09677 000
117	BUSH PIPE 3/4 - 14 NPTE X	1	023 04010 000
†121	SEAL, O-RING 18 ID X 18-1/4 OD	1	028 12257 000
†122	SEAL, O-RING 4-1/4 ID X 4-1/2	1	028 12259 000
123	SEAL, RING BALANCE PISTON	1	064 48355 000
†124	SEAL, O-RING SPLICED 28.482 ID	1	028 12260 000
125	SCREW, CAP HEX 1/4 -20UNC	6	021 16826 000
130	PIN, SLOT SPG 3/16 X 1/2	1	029 04138 000
131	SCREW, CAP HEX 3/8 -16UNC	13	021 14374 000
*132	BEARING, HIGH SPEED FRONT	1	064 47900 000
134	PIN, SLOT SPG 1/4 X 3/4	3	029 04750 000
139	TEE, INSTM UNION 3/8 TUBE	1	023 10595 000
140	TUBE, HIGH SPEED-TEE H 36-57	1	064 48215 000
141	PROBE, PROXIMITY	1	025 35900 000
148	STRAP, CABLE T&B L4-18-9-M	2	025 18167 000
153	BRACKET, SUPPORT LOWER PRV	1	064 48851 000
156	CONNR, FLA M X M 3/8 OD FLA	1	023 20853 000
†157	SEAL, O-RING .351 ID X	1	028 13832 000
†158	SEAL, O-RING NEOPRENE	9	028 12961 003

* Included in Bearing Kit

† Included in O-Ring Kit

HB COMPRESSOR

MODEL HB 61

ITEM	DESCRIPTION	QTY.	PART NUMBER
201	IMPELLER, 6.1 EYE, HARD COAT	1	064 48344 001
202	PLATE, NOZZLE BASE	1	064 48731 000
203	PLATE, DIFFUSER	1	064 48732 000
204	PRV DEVICE	1	364 47916 007
206	RING, EYE SEAL IMPELLER	1	064 48354 000
207	RETAINER, EYE SEAL	1	064 48356 000
208	SEAL, O-RING 8-1/2 ID X	1	028 12902 000
211	SCROLL , ROTOR	1	064 48273 000
214	PLUG, PIPE 1/4 HEX SOCKET	1	023 01973 000
215	RETAINER, B.P. SEAL	1	064 48357 000
216	SEAL, O-RING 18 ID X 18-1/4 OD	1	028 12557 000
217	RING, SEAL B.P.	1	064 48355 000
218	TUBE, H.S. SOL	1	364 48214 000
219	NUT, FLA SHORT FORGED	1	021 05662 000
220	VALVE, SOLENOID 2-WAY 3/8 SAE	1	025 29152 000
221	TUBE, STL 1-1/16 LG X 3/8 OD	1	064 48213 000
222	CONNR, FLARE HYDRAULIC 1 OD	1	023 10785 000
223	CAP, FLARE HYDRAULIC 1 OD	1	023 11362 000
226	SEAL ,DOUBLE SHAFT	1	029 22428 000
227	ELBOW, FLARE HYDRAULIC 3/8 OD	1	023 18969 000
228	TUBE, 3/8 OD X 25-3/4 LG	1	064 49032 000
230	FITTING, LIQUID TIGHT 1/2 NPT	1	025 28720 000
231	BUSH, PIPE 3/4 - 14 NPTE X	1	023 04010 000

* Included in Bearing Kit

† Included in O-Ring Kit

HB COMPRESSOR
MODEL HB 61

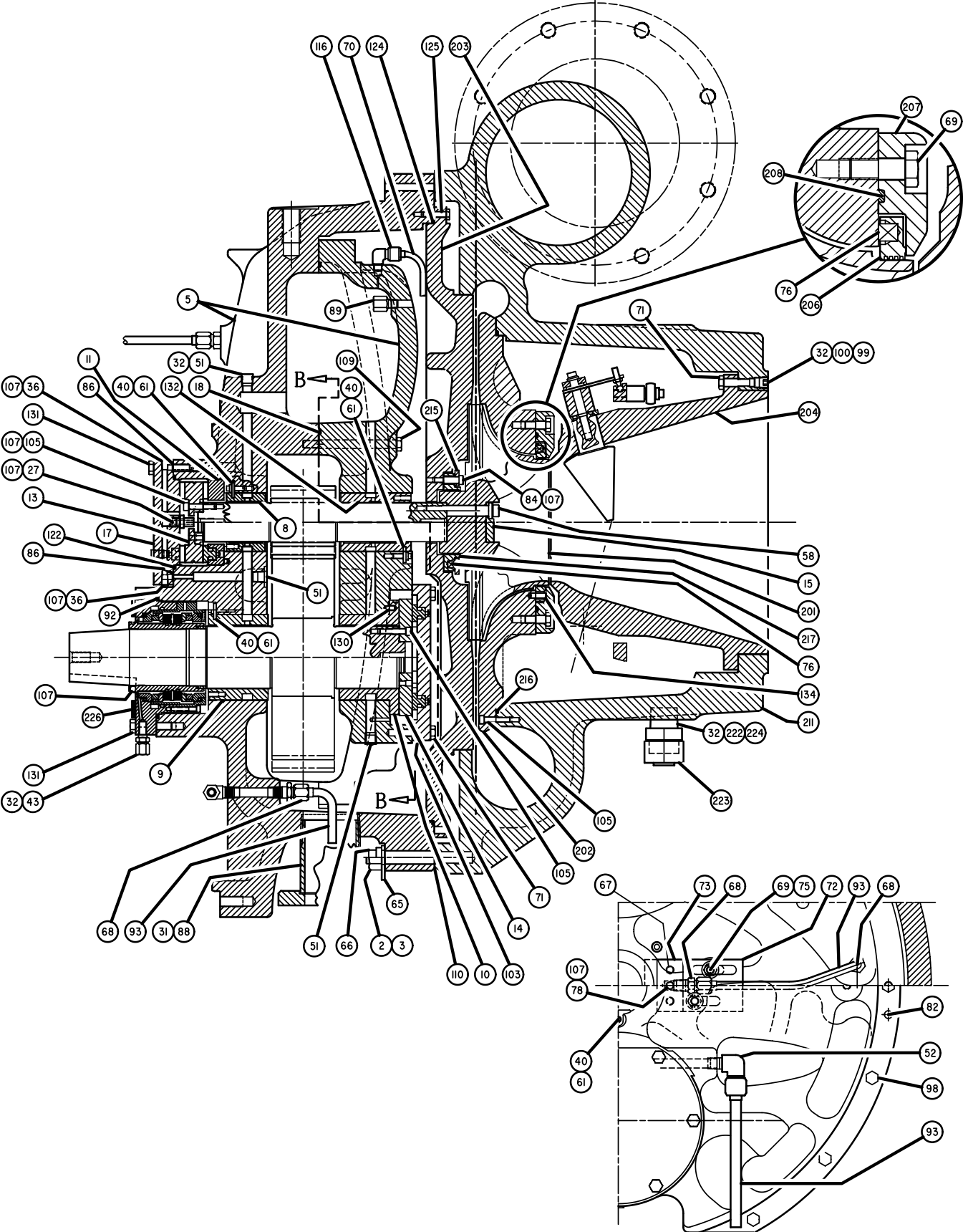
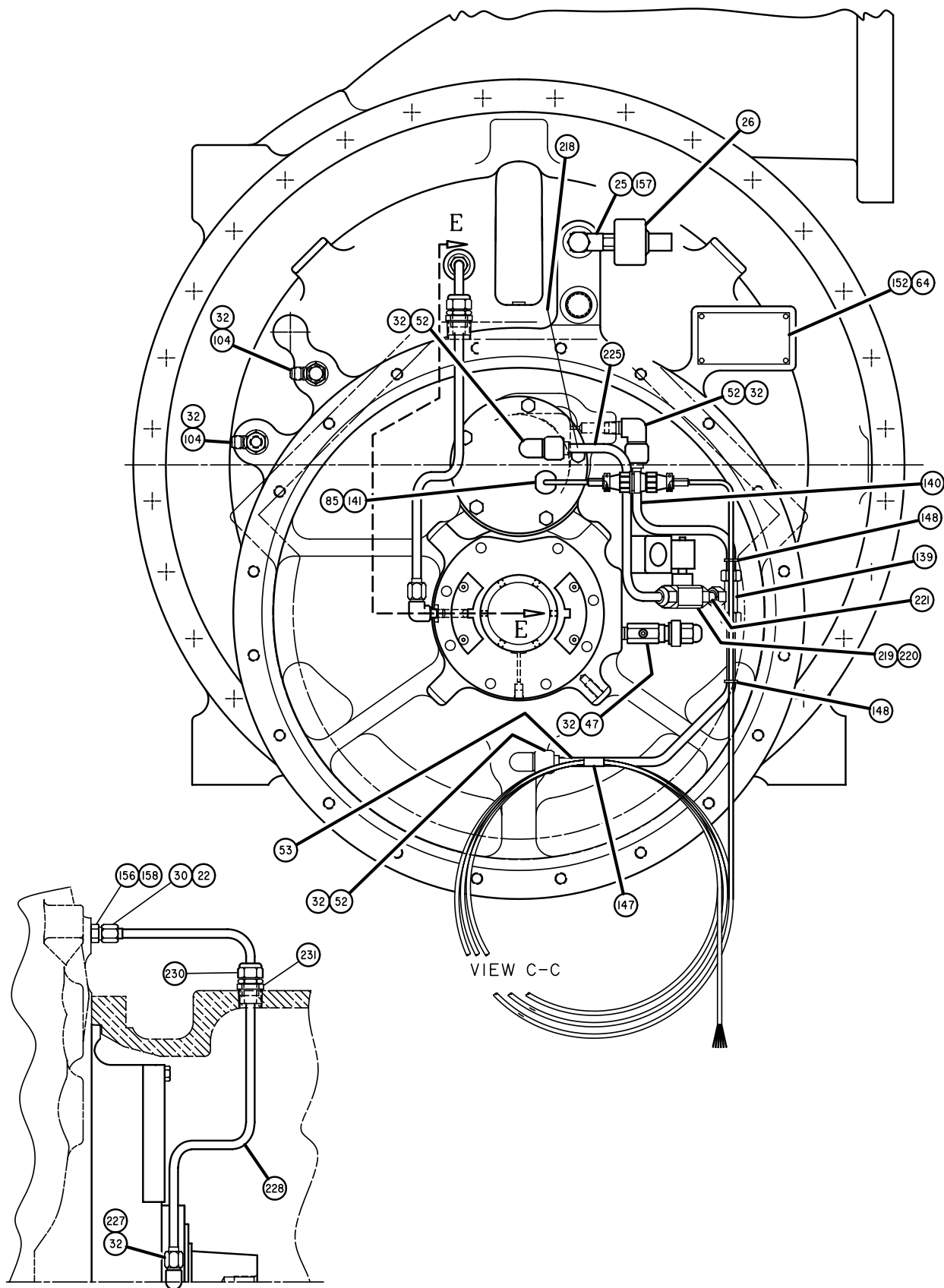


FIG. 5 – HB COMPRESSOR (61)

VIEW B-B

HB COMPRESSOR
MODEL HB 61



SECTION E-E

FIG. 6 – HB COMPRESSOR (61)

LD12062

HB COMPRESSOR
MODEL HB 61

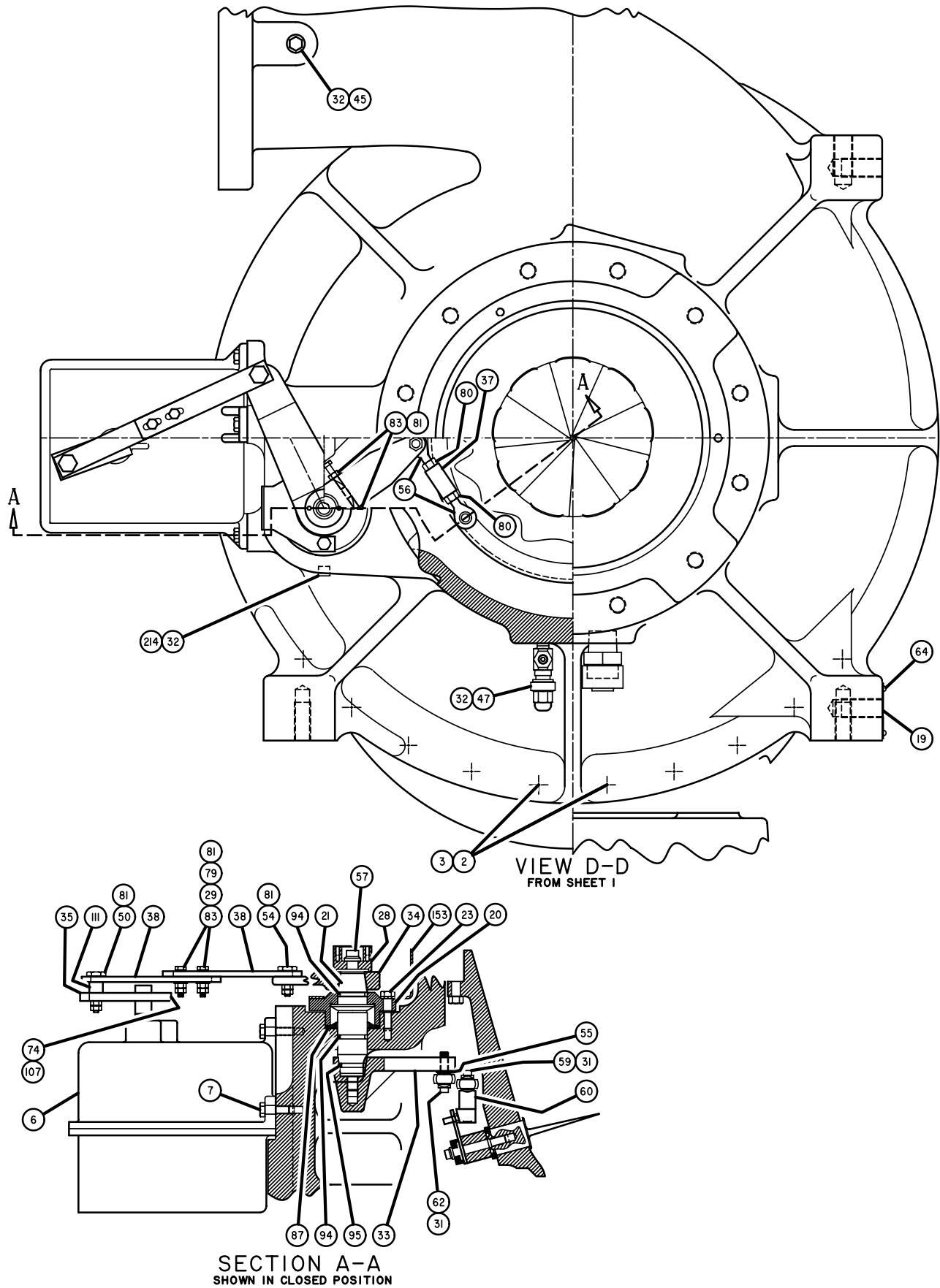
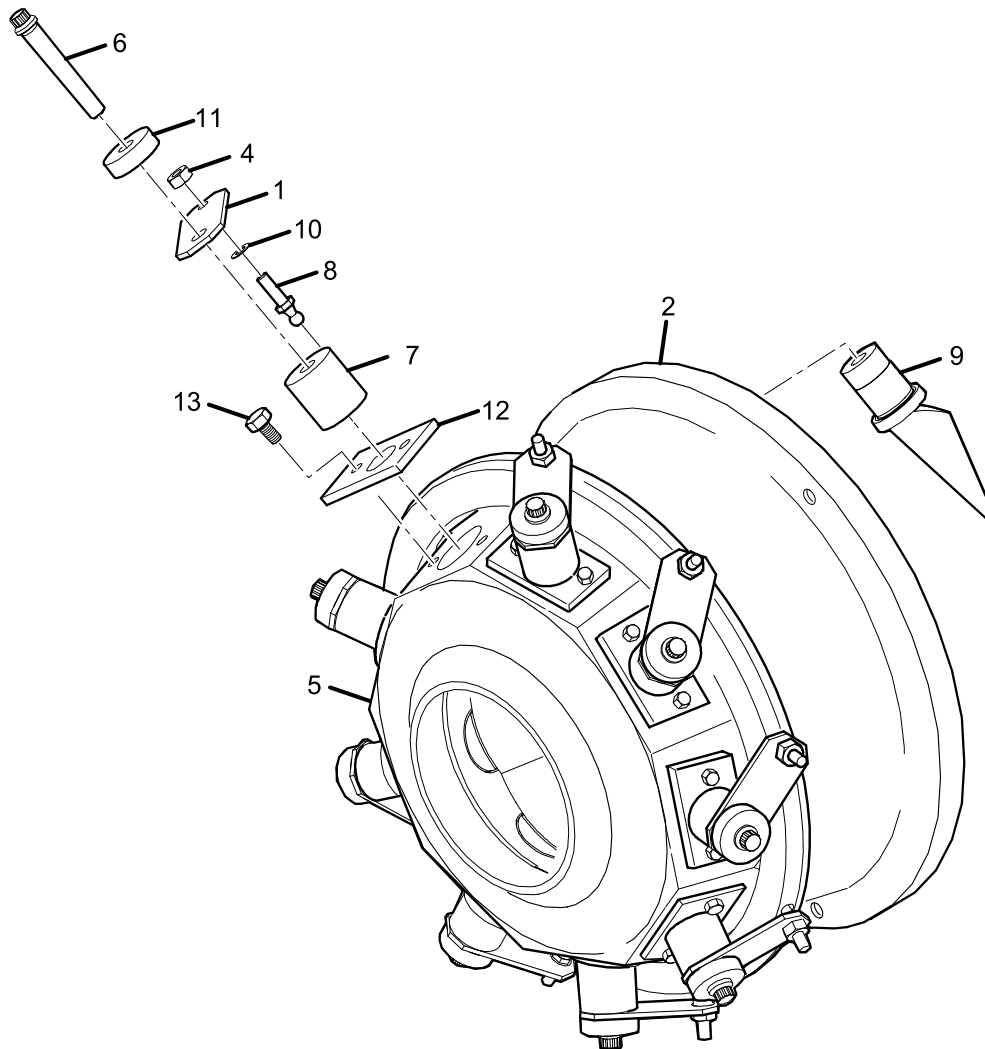


FIG. 7 – HB COMPRESSOR (61)

DEVICE PRE-ROTATION MODEL HB 61



LD12066

FIG. 8– DEVICE PRE-ROTATION (HB 61)

ITEM	DESCRIPTION	QTY.	PART NUMBER
	COMPLETE PRV DEVICE		364 47916 007
001	ARM, VANE PRV	9	064 47952 000
002	HOUSING, PRV	1	064 48361 000
004	NUT, SELF LOCK 1/4 - 28UNF	9	021 12943 000
005	RING, VANE DRIVING	1	064 47926 000
006	SCREW, CAP 12 PT HD 3/8	9	021 17245 000
007	SPACER, ARM PRV	9	064 47887 000
008	STUD, BALL 1/4 -28 UNF	9	029 15924 000
009	VANE, PRE-ROTATION	9	064 47922 000
010	WASHER, PLAIN LT 17/64 ID 1/2	10	021 11973 000
011	WASHER, SPL 25/64 ID	9	064 09289 000
012	RETAINER, PRV	9	064 47504 000
013	SCREW, CAP HEX 1/4 -20UNC	18	021 01372 000

HE COMPRESSOR

MODELS HE 50N, 50W

ITEM	DESCRIPTION	HE 50N		HE 50W	
		QTY.	PART NUMBER	QTY.	PART NUMBER
001	SCREW, CAP HEX SOC HD #8	3	021 18993 000	3	021 18993 000
002	PLUG, HEX HD 1-5/16	1	023 18282 000	1	023 18282 000
005	SUPPORT, ROTOR W/BRG HSG	1	364 49150 000	1	364 49150 000
006	ACTUATOR, PRV MOTOR	1	025 17175 000	1	025 17175 000
007	SCREW, CAP HEX 1/4 -20UNC	3	021 01379 000	3	021 01379 000
*008	BEARING, HIGH SPEED REAR	1	064 49164 000	1	064 49164 000
*009	BEARING, LOW SPEED REAR	1	064 49162 000	1	064 49162 000
*010	BEARING, LOW SPEED FRONT	1	064 49161 000	1	064 49161 000
*011	BEARING, HIGH SPEED FORWARD THRUST	1	029 22451 000	1	029 22451 000
012	TUBE, OIL DRAIN	1	064 49154 000	1	064 49154 000
*013	COLLAR, HIGH SPEED THRUST	1	064 50392 001	1	064 50392 001
*014	COLLAR, LOW SPEED THRUST	1	064 49158 000	1	064 49158 000
015	COLLAR, IMPELLER CLAMPING	1	064 48123 000	1	064 48123 000
016	SEAL, DOUBLE SHAFT	1	029 22454 000	1	029 22454 000
017	BEARING, HIGH SPEED REVERSE THRUST	1	029 22452 000	1	029 22452 000
†018	SEAL, O-RING 7 ID X 7-1/4 OD X	1	028 12550 000	1	028 12550 000
020	COVER, PRV SHAFT CONTROL	1	064 48861 000	1	064 48861 000
021	SHAFT, CONTROL PREROT DEVICE	1	364 29573 000	1	364 29573 000
022	TUBE, OIL RETURN	1	064 49155 000	1	064 49155 000
023	SCREW, CAP HEX 3/8 -16UNC	2	021 18901 000	2	021 18901 000
024	TUBE, OIL FEED INTERNAL	1	064 49156 000	1	064 49156 000
025	VALVE, STOP ANG VERTICAL	1	022 09577 000	1	022 09577 000
026	TRANSDUCER, PRESSURE	1	025 28678 006	1	025 28678 006
027	ORIFICE, HIGH SPEED OIL FEED	1	064 49203 000	1	064 49203 000
028	WASHER, SPECIAL PRV	1	064 48503 000	1	064 48503 000
029	WASHER, PLAIN 9/32 ID X 5/8 OD	4	021 05165 000	4	021 05165 000
030	TUBE, OIL FEED EXTERNAL	1	064 49157 000	1	064 49157 000
031	SEALER, GRADE AVV LOCTITE 086	-	013 01671 000	-	013 01671 000
032	SEALER, REFRIGERANT PIPE	-	013 02894 000	-	013 02894 000
033	LEVER, INTERNAL	1	064 47482 006	1	064 47482 006
034	LEVER, PRV EXTERNAL 1	1	064 49151 000	1	064 49151 000
035	ARM, MOTOR & PRV	1	064 49152 000	1	064 49152 000
037	ROD, ADJUSTABLE	1	064 49719 000	1	064 49719 000
038	LINK, EXTERNAL PRV TL EA-	1	064 47581 000	1	064 47581 000
039	BRACKET, SUPPORT LOWER PRV	1	064 48851 000	1	064 48851 000
040	RETAINER, BEARING S STAGE TURBO	2	064 46886 000	2	064 46886 000
041	ELBOW, FLARE HYDRAULIC 3/8 OD	1	023 18920 000	1	023 18920 000
042	CONNR, INSTM 3/8 TUBE X	4	023 12229 000	4	023 12229 000
043	ELBOW, FLARE HYDRAULIC 1/4 OD	1	023 09677 000	1	023 09677 000
044	SEAL, O-RING .351 ID X	2	028 13832 000	2	028 13832 000
045	SENSOR, TEMPERATURE 50,000 OHMS	1	025 33288 000	1	025 33288 000
047	VALVE, STOP ANG VERTICAL	1	022 09708 000	1	022 09708 000

* Included in Bearing Kit

† Included in O-Ring Kit

HE COMPRESSOR

MODELS HE 50N, 50W

ITEM	DESCRIPTION	HE 50N		HE 50W	
		QTY.	PART NUMBER	QTY.	PART NUMBER
048	LINK, EXTERNAL PRV & MOT T85	1	064 28237 000	1	064 28237 000
050	BOLT, SHLD SPL 1/4 20 UNC	1	064 28282 000	1	064 28282 000
051	PLUG, PIPE 1/4 HEX SOCKET	2	023 01973 000	2	023 01973 000
054	BOLT, SHLD SPL 1/4 -20 X 1	1	064 28262 000	1	064 28262 000
055	FILLPIECE, PREROT DEVICE	1	064 12328 000	1	064 12328 000
056	BEARING, ROD END W/SST ISRT CHROME	2	029 08343 000	2	029 08343 000
057	SCREW, CAP 12 PT HD 1/2	1	021 11998 000	1	021 11998 000
058	SCREW, CAP 12 PT HD 1/2	3	021 11515 000	3	021 11515 000
059	SCREW CAP 12PT HD 3/8	1	021 17618 000	1	021 17618 000
060	FILLPIECE, .750 DIA X .500	1	064 47518 000	1	064 47518 000
061	SCREW, CAP HEX SOC HD 1/4	5	021 01377 000	5	021 01377 000
062	SCREW, CAP 12PT HD 3/8	1	021 11720 000	1	021 11720 000
063	PROBE, HF	1	025 34535 000	1	025 34535 000
*065	BEARING, HIGH SPEED FRONT	1	064 49163 000	1	064 49163 000
066	SCREW CAP 12 PT HD 1/2	32	021 11937 000	32	021 11937 000
067	PIN SLOT SPG 3/16 X 1/2	1	029 04138 000	1	029 04138 000
†069	SEAL O-RING 24.462 ID X	1	028 13847 000	1	028 13847 000
†070	SEAL O-RING 4-1/8 ID X 4-3/8	1	028 12205 000	1	028 12205 000
071	SCREW, CAP HEX SOC HD 1/4	36	021 18994 000	36	021 18994 000
†072	SEAL, O-RING 18 ID X 18-1/4 OD	1	028 12257 000	1	028 12257 000
073	RING, 5/8 LG X 17/64 ID X 5/8	1	064 40009 000	1	064 40009 000
074	SCREW, SET HEX SOC CUP PT	1	021 03910 000	1	021 03910 000
†075	SEAL, O-RING 26.623 ID X	1	028 13846 000	1	028 13846 000
076	WASHER, SPRING HD 46-50 EYE	1	064 50350 000	1	064 50350 000
077	SCREW, CAP 12 PT HD 3/8	12	021 18788 000	12	021 18788 000
078	SEALER, REMOVABLE THREAD	-	013 01678 000	-	013 01678 000
079	LOCKWASHER, HEL SPG 1/4 REG	2	021 05267 000	2	021 05267 000
080	NUT, HEX 3/8 - 24 UNF-2B	2	021 00474 000	2	021 00474 000
081	NUT, HEX 1/4 - 20 UNC-2B	10	021 00450 000	10	021 00450 000
082	PIN, DOWEL TAPPED 3/8 DIA	2	029 18459 000	2	029 18459 000
083	SCREW, CAP HEX 1/4 -20UNC	4	021 01392 000	4	021 01392 000
084	SCREW, SHOULDER SOC HD	6	021 17557 000	6	021 17557 000
085	SCREW, SET HEX SOC CUP PT	1	021 00774 000	1	021 00774 000
†086	SEAL, O-RING 5/16 ID X	3	028 12513 000	3	028 12513 000
087	GASKET, 2-1/2 OD X 2 ID X 1/32	1	064 47751 000	1	064 47751 000
088	PLUG, HEX HD 7/16	1	023 18279 000	1	023 18279 000
089	VALVE, CHECK OIL 1/8 NPTE	1	022 04444 000	1	022 04444 000
090	SCREW, CAP HEX SOC HD 1/4	6	021 02578 000	6	021 02578 000
091	VALVE, STOP ANG VERTICAL	1	022 09578 000	1	022 09578 000
092	SEAL, O-RING 5-5/8 ID X 5-7/8	1	028 12258 000	1	028 12258 000
*093	BEARING, LOW SPEED THRUST	1	029 22450 000	1	029 22450 000
094	SEAL, O-RING 1-1/8 ID X 1/8	2	028 12200 000	2	028 12200 000

* Included in Bearing Kit † Included in O-Ring Kit

HE COMPRESSOR

MODELS HE 50N, 50W

ITEM	DESCRIPTION	HE 50N		HE 50W	
		QTY.	PART NUMBER	QTY.	PART NUMBER
095	SEAL, O-RING 1 ID X 1/8	1	028 12201 000	1	028 12201 000
096	GREASE POE	-	044 03199 000	-	044 03199 000
103	RING, BALANCE PISTON SEAL	1	064 50187 000	1	064 50187 000
104	RETAINER, BALANCE PISTON SEAL WASHER	1	064 50186 000	1	064 50186 000
106	RETAINER, EYE SEAL WASHER	1	064 50349 000	1	064 50349 000
107	RING, EYE SEAL	1	064 50348 000	1	064 50348 000
108	SLINGER OIL	1	064 49230 000	1	064 49230 000
109	PLATE, SLINGER MTG	1	064 49231 000	1	064 49231 000
110	SLEEVE, FLARE HYDRAULIC 3/8 OD	2	023 10001 000	2	023 10001 000
111	NUT, FLARE HYDRAULIC 3/8 OD	2	023 09673 000	2	023 09673 000
112	WASHER, SPRING HD 46-52 BALANCE	1	064 50188 000	1	064 50188 000
113	SCREW, CAP 12 PT HD 3/8	3	021 11972 000	3	021 11972 000
114	SEAL, O-RING 5-3/4 ID X 5-15/16	1	028 13870 000	1	028 13870 000
115	PRIMER LOCQUIC GRADE N,	-	013 01753 000	-	013 01753 000
117	SEAL, O-RING NEOPRENE	1	028 12961 008	1	028 12961 008
118	SCREW, CAP 12 PT HD 1/2	2	021 13334 000	2	021 13334 000
119	SCREW, CAP HEX SOC HD #8	1	021 19153 000	1	021 19153 000
120	CLAMP, TUBE 3/8 OD	1	023 05284 000	1	023 05284 000
121	ELBOW, FLARE HYDRAULIC 3/8 OD	1	023 18989 000	1	023 18989 000
122	SEAL, O-RING NEOPRENE	1	028 12961 004	1	028 12961 004
125	PLUG, PIPE, FLUSH TYPE HEX	3	023 05366 000	3	023 05366 000
128	SEAL, O-RING .301 ID X .064	2	028 12209 000	2	028 12209 000
129	PLUG, HEX HD	1	023 20217 000	1	023 20217 000
130	SCREW, CAP HEX SOC HD #10	1	021 14461 000	1	021 14461 000
131	SCREW, SET HEX SOC CUP PT	1	021 00700 000	1	021 00700 000
201	IMPELLER, 5.0 EYE HARD COAT	1	064 47911 001	1	064 47911 001
202	PLATE, NOZZLE BASE	1	064 50359 000	1	064 50359 000
203	PLATE, DIFFUSER	1	064 50193 000	1	064 50193 000
204	DEVICE, HD 50 PRE-ROTATION	1	364 50383 003	1	364 50383 003
205	SCROLL, ROTOR HE 50 SIDE & DOWN	1	064 50634 000	1	064 50634 000
208	GASKET, NOZ BASE PLT/SCROLL	1	064 48066 000	-	-
209	GASKET, DIFF/ROT SUP	1	064 49207 000	-	-
210	PLUG, HEX HD 9/16	4	023 18962 000	4	023 18962 000
211	SEAL, O-RING NEOPRENE	7	028 12961 003	7	028 12961 003

HE COMPRESSOR
MODELS HE 50N, 50W

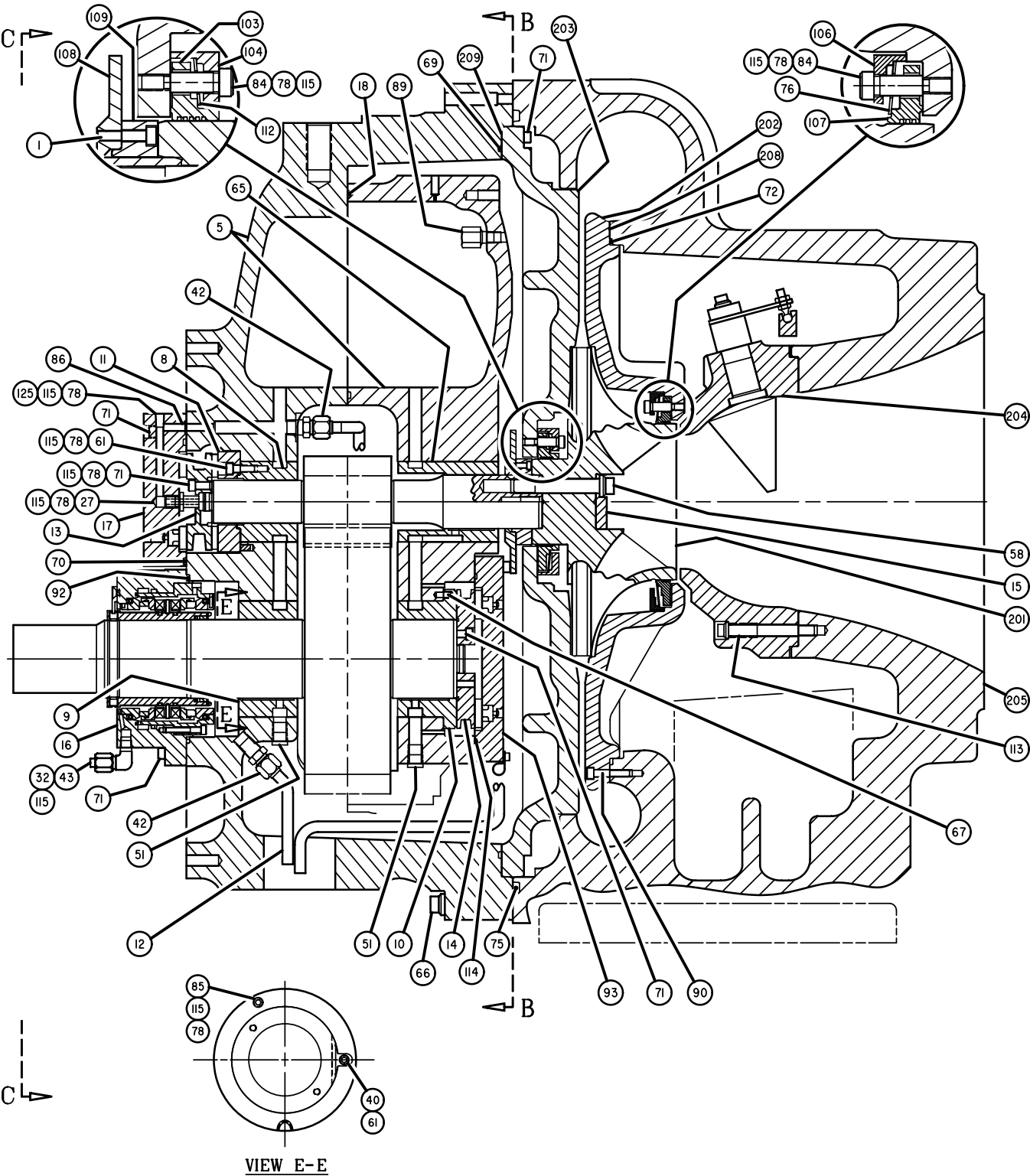


FIG. 9 – HE COMPRESSOR (50N, 50W)

LD12607

HE COMPRESSOR
MODELS HE 50N, 50W

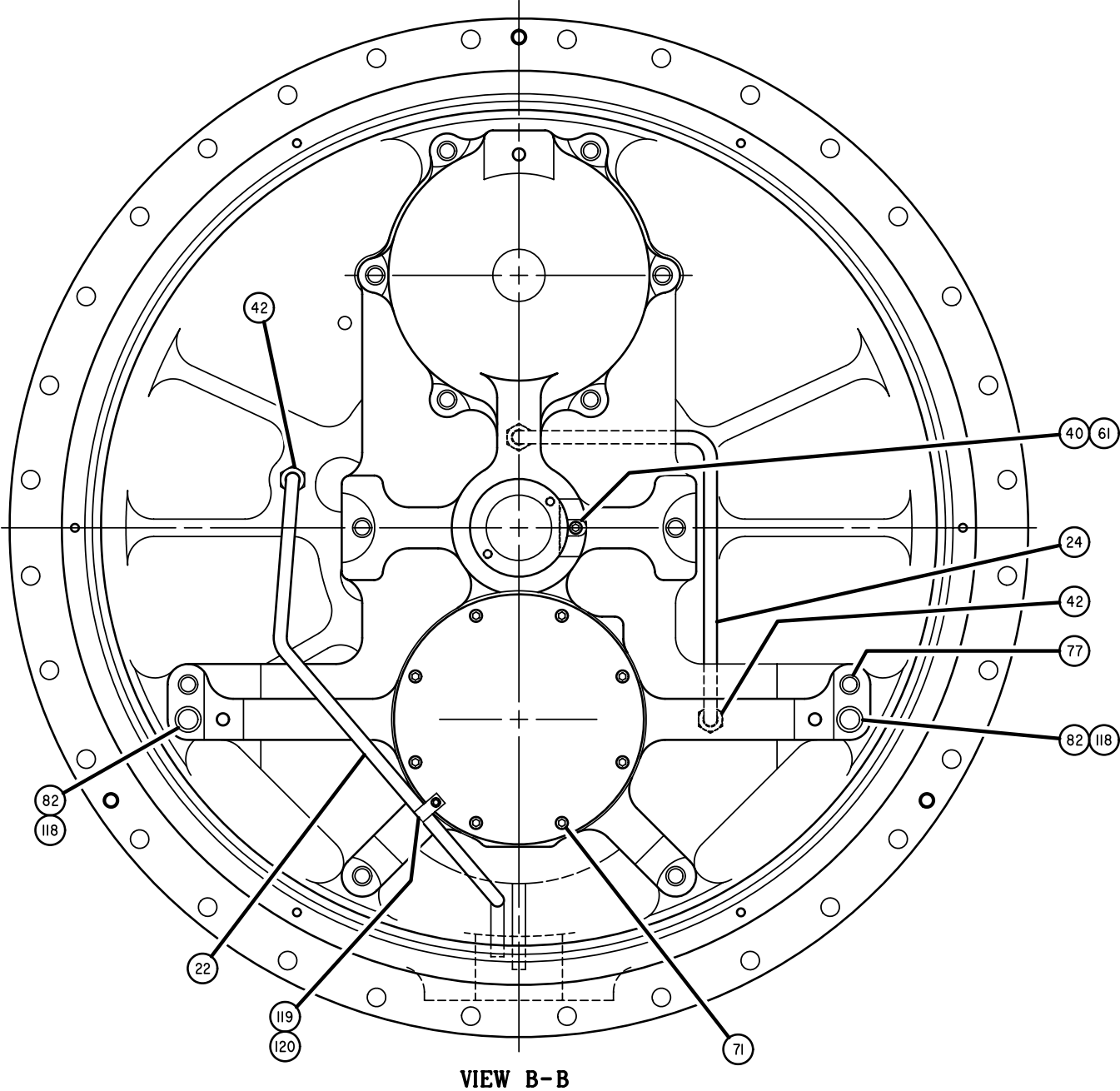


FIG. 10 – HE COMPRESSOR (50N, 50W)

HE COMPRESSOR
MODELS HE 50N, 50W

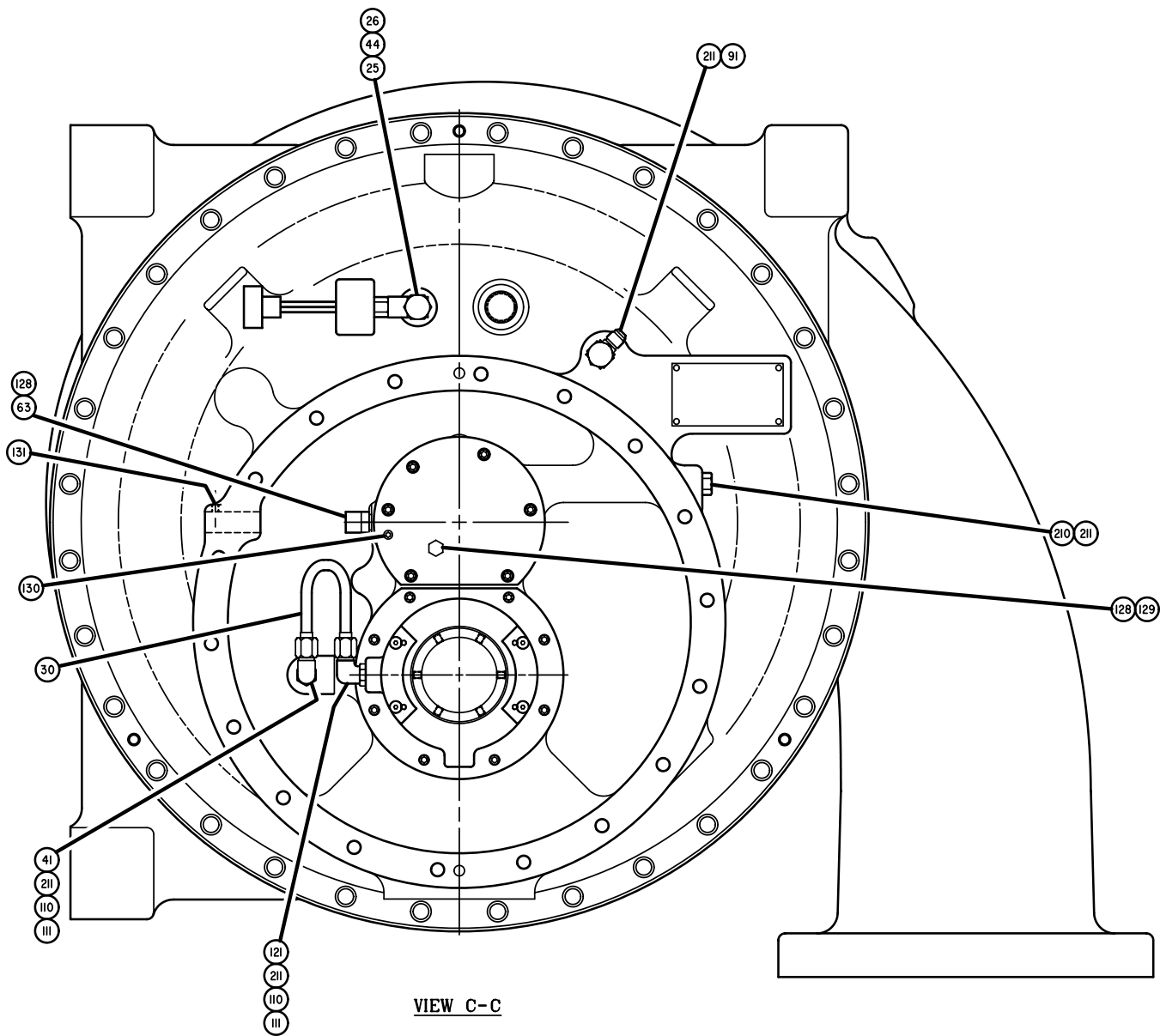


FIG. 11 – HE COMPRESSOR (50N, 50W)

LD12069

HE COMPRESSOR
MODELS HE 50N, 50W

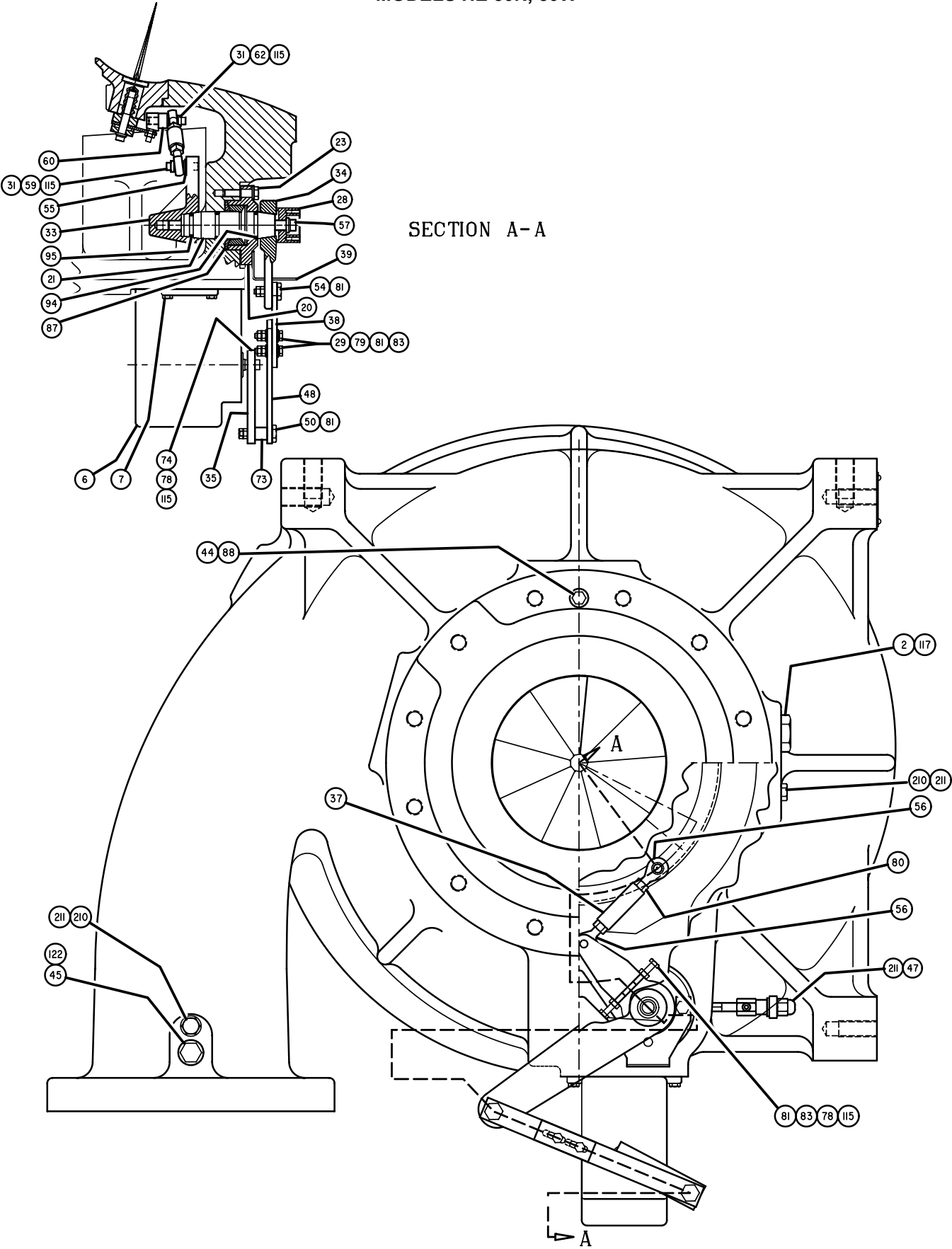
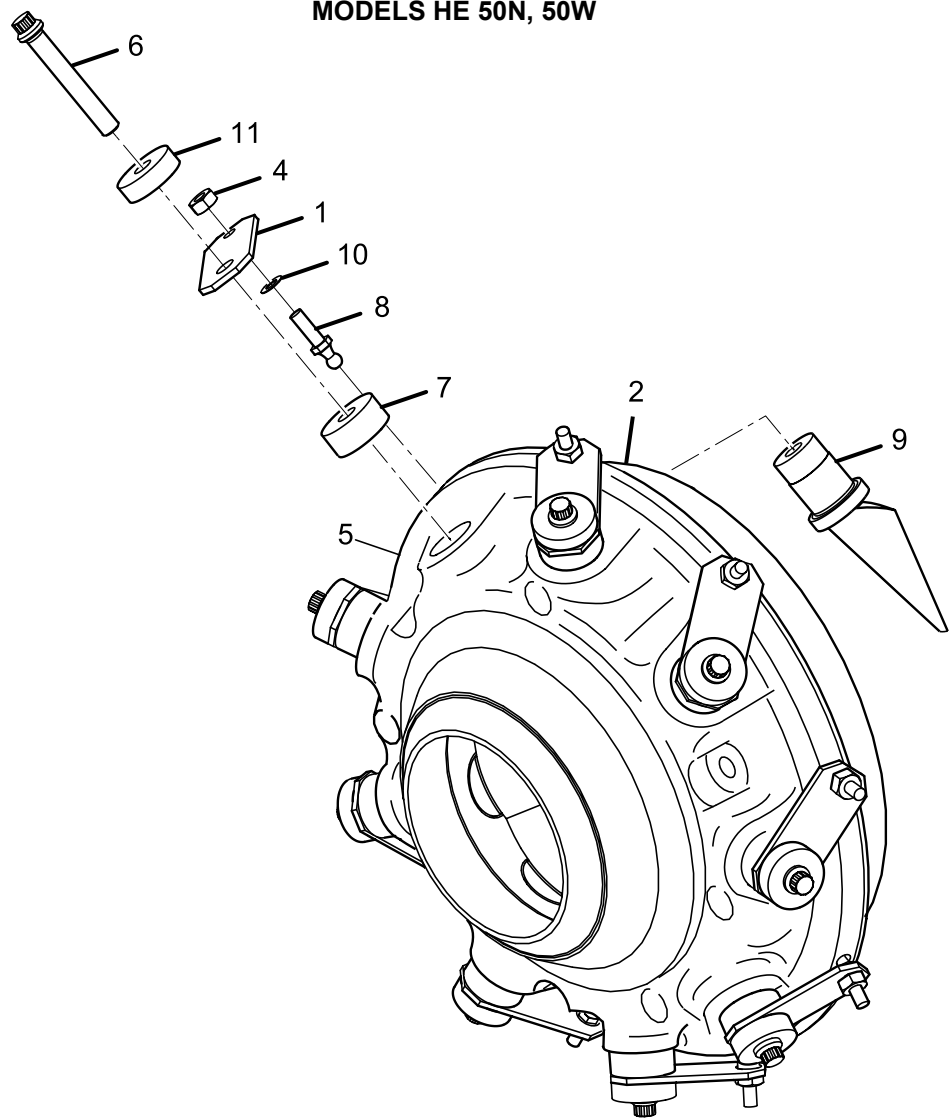


FIG. 12 – HE COMPRESSOR (50N, 50W)

DEVICE PRE-ROTATION
MODELS HE 50N, 50W



LD12086

FIG. 13– DEVICE PRE-ROTATION (50N, 50W)

ITEM	DESCRIPTION	QTY.	PART NUMBER
	COMPLETE PRV DEVICE	-	364 50383 003
001	ARM, VANE PRV	9	064 47952 000
002	HOUSING	1	064 50378 000
004	NUT, SELF LOCK 1/4 - 28	9	021 12943 000
005	RING, VANE DRIVING	1	064 47926 000
006	SCREW, CAP 12PT HD	9	021 11956 000
007	SPACER, ARM PRV HD	9	064 49205 000
008	STUD, BALL 1/4 -28	9	029 15924 000
009	VANE, PRE-ROTATION	9	029 22449 000
010	WASHER, PLAIN LT 17/64 ID 1/2	10	021 11973 000
011	WASHER, SPL 25/64 ID	9	064 09289 000

HE COMPRESSOR

MODELS HE 57, 59, 61

ITEM	DESCRIPTION	HE 57		HE 59		HE 61	
		QTY.	PART NUMBER	QTY.	PART NUMBER	QTY.	PART NUMBER
001	SCREW, CAP HEX SOC HD #8	3	021 18993 000	3	021 18993 000	3	021 18993 000
002	PLUG, HEX HD 1-5/16	1	023 18282 000	1	023 18282 000	1	023 18282 000
005	SUPPORT, ROTOR W/BRG HSG	1	364 49150 000	1	364 49150 000	1	364 49150 000
006	WIRING, PRV MOTOR ACTUATOR	1	025 17175 000	1	025 17175 000	1	025 17175 000
007	SCREW, CAP HEX 1/4 -20UNC	3	021 01379 000	3	021 01379 000	3	021 01379 000
*008	BEARING, H.S. REAR	1	064 49164 000	1	064 49164 000	1	064 49164 000
*009	BEARING, L.S. REAR	1	064 49162 000	1	064 49162 000	1	064 49162 000
*010	BEARING, L.S. FRONT	1	064 49161 000	1	064 49161 000	1	064 49161 000
*011	BEARING, H.S. FORWARD THRUST	1	029 22451 000	1	029 22451 000	1	029 22451 000
012	TUBE, OIL DRAIN	1	064 49154 000	1	064 49154 000	1	064 49154 000
*013	COLLAR, HIGH SPEED THRUST	1	064 50392 001	1	064 50392 001	1	064 50392 001
*014	COLLAR, LOW SPEED THRUST	1	064 49158 000	1	064 49158 000	1	064 49158 000
015	COLLAR, IMPELLER CLAMPING	1	064 48123 000	1	064 48123 000	1	064 48123 000
016	SEAL, DOUBLE SHAFT	1	029 22454 000	1	029 22454 000	1	029 22454 000
017	BEARING, H.S. REVERSE THRUST	1	029 22452 000	1	029 22452 000	1	029 22452 000
†018	SEAL, O-RING 7 ID X 7-1/4 OD X	1	028 12550 000	1	028 12550 000	1	028 12550 000
020	COVER, PRV SHAFT CONTROL	1	064 48861 000	1	064 48861 000	1	064 48861 000
021	SHAFT, CONTL PREROT DEVICE	1	364 29573 000	1	364 29573 000	1	364 29573 000
022	TUBE, OIL RETURN	1	064 49155 000	1	064 49155 000	1	064 49155 000
023	SCREW, CAP HEX 3/8 -16UNC	2	021 18901 000	2	021 18901 000	2	021 18901 000
024	TUBE, OIL FEED INTERNAL	1	064 49156 000	1	064 49156 000	1	064 49156 000
025	VALVE, STOP ANG VERTICAL	1	022 09577 000	1	022 09577 000	1	022 09577 000
026	TRANSDUCER, PRESSURE	1	025 28678 006	1	025 28678 006	1	025 28678 006
027	ORIFICE, HIGH SPEED OIL FEED	1	064 49203 000	1	064 49203 000	1	064 49203 000
028	WASHER, SPECIAL PRV	1	064 48503 000	1	064 48503 000	1	064 48503 000
029	WASHER, PLAIN 9/32 ID X 5/8 OD	4	021 05165 000	4	021 05165 000	4	021 05165 000
030	TUBE, OIL FEED EXTERNAL	1	064 49157 000	1	064 49157 000	1	064 49157 000
031	SEALER, GRADE AVV LOCTITE 086	-	013 01671 000	-	013 01671 000	-	013 01671 000
032	SEALER, REFRIGERANT PIPE	-	013 02894 000	-	013 02894 000	-	013 02894 000
033	LEVER, INTERNAL	1	064 47482 006	1	064 47482 006	1	064 47482 006
034	LEVER, PRV EXTERNAL	1	064 49151 000	1	064 49151 000	1	064 49151 000
035	ARM, MOTOR & PRV	1	064 49152 000	1	064 49152 000	1	064 49152 000
037	ROD, ADJUSTABLE	1	064 49719 000	1	064 49719 000	1	064 49719 000
038	LINK, EXTERNAL PRV TL EA-	1	064 47581 000	1	064 47581 000	1	064 47581 000
039	BRACKET, SUPPORT LOWER PRV	1	064 48851 000	1	064 48851 000	1	064 48851 000
040	RETAINER, BRG S STAGE TURBO	2	064 46886 000	2	064 46886 000	2	064 46886 000
041	ELBOW, FLARE HYDRAULIC 3/8 OD	1	023 18920 000	1	023 18920 000	1	023 18920 000
042	CONNR, INSTM 3/8 TUBE X	4	023 12229 000	4	023 12229 000	4	023 12229 000
043	ELBOW, FLARE HYDRAULIC 1/4 OD	1	023 09677 000	1	023 09677 000	1	023 09677 000
044	SEAL, O-RING .351 ID X	2	028 13832 000	2	028 13832 000	2	028 13832 000
045	SENSOR, TEMPERATURE 50,000 OHMS	1	025 33288 000	1	025 33288 000	1	025 33288 000
047	VALVE, STOP ANG VERTICAL	1	022 09708 000	1	022 09708 000	1	022 09708 000

* Included in Bearing Kit

† Included in O-Ring Kit

HE COMPRESSOR

MODELS HE 57, 59, 61

ITEM	DESCRIPTION	HE 57		HE 59		HE 61	
		QTY.	PART NUMBER	QTY.	PART NUMBER	QTY.	PART NUMBER
048	LINK, EXTNL PRV & MOT T85	1	064 28237 000	1	064 28237 000	1	064 28237 000
050	BOLT, SHLD SPL 1/4 20 UNC	1	064 28282 000	1	064 28282 000	1	064 28282 000
051	PLUG, PIPE 1/4 HEX SOCKET	2	023 01973 000	2	023 01973 000	2	023 01973 000
054	BOLT, SHLD SPL 1/4 -20 X 1	1	064 28262 000	1	064 28262 000	1	064 28262 000
055	FILLPIECE, PREROT DEVICE	1	064 12328 000	1	064 12328 000	1	064 12328 000
056	BRG, ROD END W/SST ISRT CHROME	2	029 08343 000	2	029 08343 000	2	029 08343 000
057	SCREW, CAP 12 PT HD 1/2	1	021 11998 000	1	021 11998 000	1	021 11998 000
058	SCREW, CAP 12 PT HD 1/2	3	021 11515 000	3	021 11515 000	3	021 11515 000
059	SCREW, CAP 12PT HD 3/8 -	1	021 17618 000	1	021 17618 000	1	021 17618 000
060	FILLPIECE, .750 DIA X .500	1	064 47518 000	1	064 47518 000	1	064 47518 000
061	SCREW, CAP HEX SOC HD 1/4	5	021 01377 000	5	021 01377 000	5	021 01377 000
062	SCREW, CAP 12PT HD 3/8 -	1	021 11720 000	1	021 11720 000	1	021 11720 000
063	PROBE	1	025 34535 000	1	025 34535 000	1	025 34535 000
*065	BEARING, HIGH SPEED FRONT	1	064 49163 000	1	064 49163 000	1	064 49163 000
066	SCREW, CAP 12 PT HD 1/2	32	021 11937 000	32	021 11937 000	32	021 11937 000
067	PIN, SLOT SPG 3/16 X 1/2	1	029 04138 000	1	029 04138 000	1	029 04138 000
†069	SEAL, O-RING 24.462 ID X	1	028 13847 000	1	028 13847 000	1	028 13847 000
†070	SEAL, O-RING 4-1/8 ID X 4-3/8	1	028 12205 000	1	028 12205 000	1	028 12205 000
071	SCREW, CAP HEX SOC HD 1/4	36	021 18994 000	36	021 18994 000	36	021 18994 000
†072	SEAL, O-RING 18 ID X 18-1/4 OD	1	028 12257 000	1	028 12257 000	1	028 12257 000
073	RING, 5/8 LG X 17/64 ID X 5/8	1	064 40009 000	1	064 40009 000	1	064 40009 000
074	SCREW, SET HEX SOC CUP PT	1	021 03910 000	1	021 03910 000	1	021 03910 000
†075	SEAL, O-RING 26.623 ID X	1	028 13846 000	1	028 13846 000	1	028 13846 000
076	WASHER, SPRING HD 57-61 EYE	1	064 50357 000	1	064 50357 000	1	064 50357 000
077	SCREW, CAP 12 PT HD 3/8	12	021 18788 000	12	021 18788 000	12	021 18788 000
078	SEALER, REMOVABLE THREAD	-	013 01678 000	-	013 01678 000	-	013 01678 000
079	LOCKWASH, HEL SPG 1/4 REG	2	021 05267 000	2	021 05267 000	2	021 05267 000
080	NUT, HEX 3/8 - 24 UNF-2B	2	021 00474 000	2	021 00474 000	2	021 00474 000
081	NUT, HEX 1/4 - 20 UNC-2B	10	021 00450 000	10	021 00450 000	10	021 00450 000
082	PIN, DOWEL TAPPED 3/8 DIA	2	029 18459 000	2	029 18459 000	2	029 18459 000
083	SCREW, CAP HEX 1/4 -20UNC	4	021 01392 000	4	021 01392 000	4	021 01392 000
084	SCREW, SHOULDER SOC HD	6	021 17557 000	6	021 17557 000	6	021 17557 000
085	SCREW, SET HEX SOC CUP PT	1	021 00774 000	1	021 00774 000	1	021 00774 000
†086	SEAL, O-RING 5/16 ID X	3	028 12513 000	3	028 12513 000	3	028 12513 000
087	GASKET, 2-1/2 OD X 2 ID X 1/32	1	064 47751 000	1	064 47751 000	1	064 47751 000
088	PLUG, HEX HD 7/16	1	023 18279 000	1	023 18279 000	1	023 18279 000
089	VALVE, CHECK OIL 1/8 NPTE	1	022 04444 000	1	022 04444 000	1	022 04444 000
090	SCREW, CAP HEX SOC HD 1/4	6	021 02578 000	6	021 02578 000	6	021 02578 000
091	VALVE, STOP ANG VERTICAL	1	022 09578 000	1	022 09578 000	1	022 09578 000
092	SEAL, O-RING 5-5/8 ID X 5-7/8	1	028 12258 000	1	028 12258 000	1	028 12258 000
*093	BEARING, LOW SPEED THRUST	1	029 22450 000	1	029 22450 000	1	029 22450 000
094	SEAL, O-RING 1-1/8 ID X 1/8	2	028 12200 000	2	028 12200 000	2	028 12200 000

* Included in Bearing Kit † Included in O-Ring Kit

HE COMPRESSOR

MODELS HE 57, 59, 61

ITEM	DESCRIPTION	HE 57		HE 59		HE 61	
		QTY.	PART NUMBER	QTY.	PART NUMBER	QTY.	PART NUMBER
095	SEAL, O-RING 1 ID X 1/8	1	028 12201 000	1	028 12201 000	1	028 12201 000
096	GREASE POE	-	044 03199 000	-	044 03199 000	-	044 03199 000
103	RING, BALANCE PISTON SEAL	1	064 50189 000	1	064 50189 000	1	064 50189 000
104	RETAINER, B.P. SEAL WASHER	1	064 50190 000	1	064 50190 000	1	064 50190 000
108	SLINGER, OIL	1	064 49230 000	1	064 49230 000	1	064 49230 000
109	PLATE, SLINGER MTG	1	064 49231 000	1	064 49231 000	1	064 49231 000
110	SLEEVE, FLARE HYDRAULIC 3/8 OD	2	023 10001 000	2	023 10001 000	2	023 10001 000
111	NUT, FLARE HYDRAULIC 3/8 OD	2	023 09673 000	2	023 09673 000	2	023 09673 000
112	WASHER, SPRING HD 57-61 BALANCE	1	064 50191 000	1	064 50191 000	1	064 50191 000
113	SCREW, CAP 12PT HD 3/8 -	3	021 11940 000	3	021 11940 000	3	021 11940 000
114	SEAL, O-RING 5-3/4 ID X 5-15/16	1	028 13870 000	1	028 13870 000	1	028 13870 000
115	PRIMER, LOCQUIC GRADE N,	-	013 01753 000	-	013 01753 000	-	013 01753 000
117	SEAL, O-RING NEOPRENE	1	028 12961 008	1	028 12961 008	1	028 12961 008
118	SCREW, CAP 12 PT HD 1/2	2	021 13334 000	2	021 13334 000	2	021 13334 000
119	SCREW, CAP HEX SOC HD #8	1	021 19153 000	1	021 19153 000	1	021 19153 000
120	CLAMP, TUBE 3/8 OD	1	023 05284 000	1	023 05284 000	1	023 05284 000
121	ELBOW, FLARE HYDRAULIC 3/8 OD	1	023 18989 000	1	023 18989 000	1	023 18989 000
122	SEAL, O-RING NEOPRENE	1	028 12961 004	1	028 12961 004	1	028 12961 004
125	PLUG, PIPE, FLUSH TYPE HEX	3	023 05366 000	3	023 05366 000	3	023 05366 000
128	SEAL, O-RING .301 ID X .064	2	028 12209 000	2	028 12209 000	2	028 12209 000
129	PLUG, HEX HD	1	023 20217 000	1	023 20217 000	1	023 20217 000
130	SCREW, CAP HEX SOC HD #10	1	021 14461 000	1	021 14461 000	1	021 14461 000
131	SCREW, SET HEX SOC CUP PT	1	021 00700 000	1	021 00700 000	1	021 00700 000
201	IMPELLER	1	064 49054 001	1	064 49450 001	1	064 48344 001
202	PLATE, NOZZLE BASE	1	064 50360 000	1	064 50361 000	1	064 50362 000
203	PLATE, DIFFUSER	1	064 50197 000	1	064 50363 000	1	064 50198 000
204	PRE-ROTATION DEVICE	1	364 50383 004	1	364 50383 006	1	364 50383 005
205	SCROLL, ROTOR	1	064 50636 000	1	064 50636 000	1	064 50636 000
206	RING, EYE SEAL	1	064 50351 000	1	064 50354 000	1	064 50355 000
207	RETAINER, EYE SEAL WASHER	1	064 50356 000	1	064 50356 000	1	064 50356 000
210	PLUG, HEX HD 9/16	4	023 18962 000	4	023 18962 000	4	023 18962 000
211	SEAL, O-RING NEOPRENE	7	028 12961 003	7	028 12961 003	7	028 12961 003

HE COMPRESSOR
MODELS HE 57, 59, 61

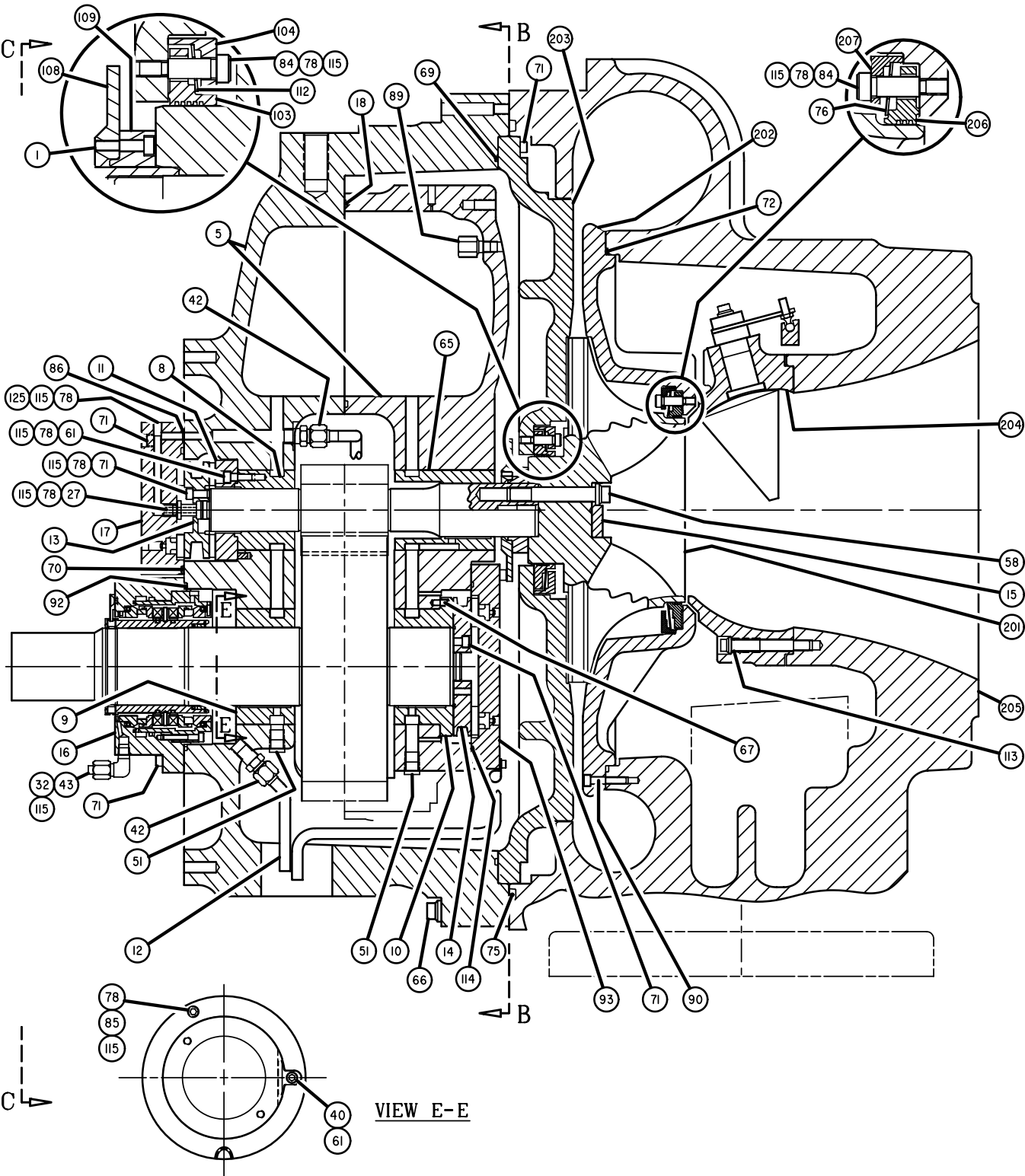


FIG. 14 – HE COMPRESSOR (57, 59, 61)

LD12071

HE COMPRESSOR
MODELS HE 57, 59, 61

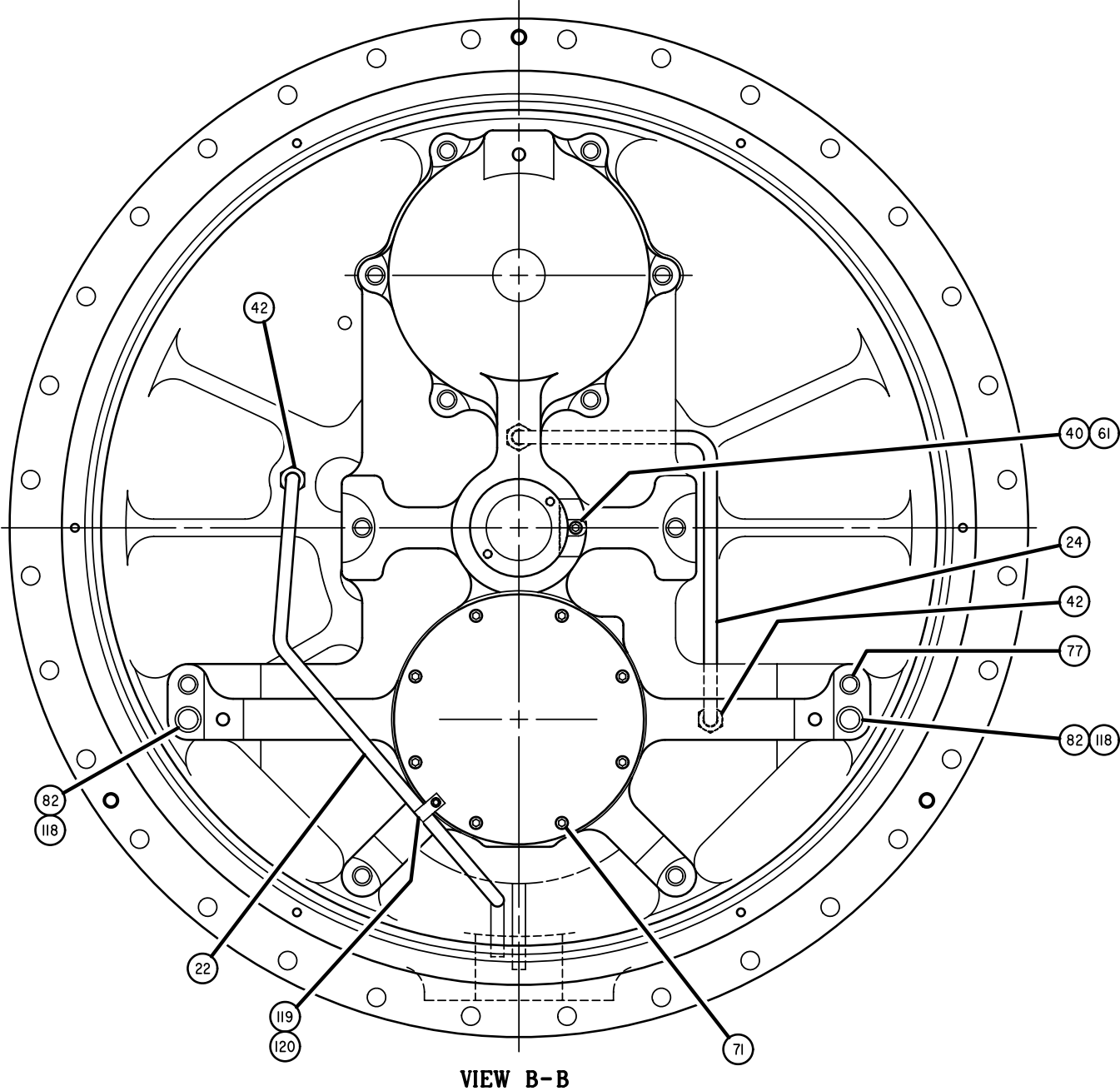
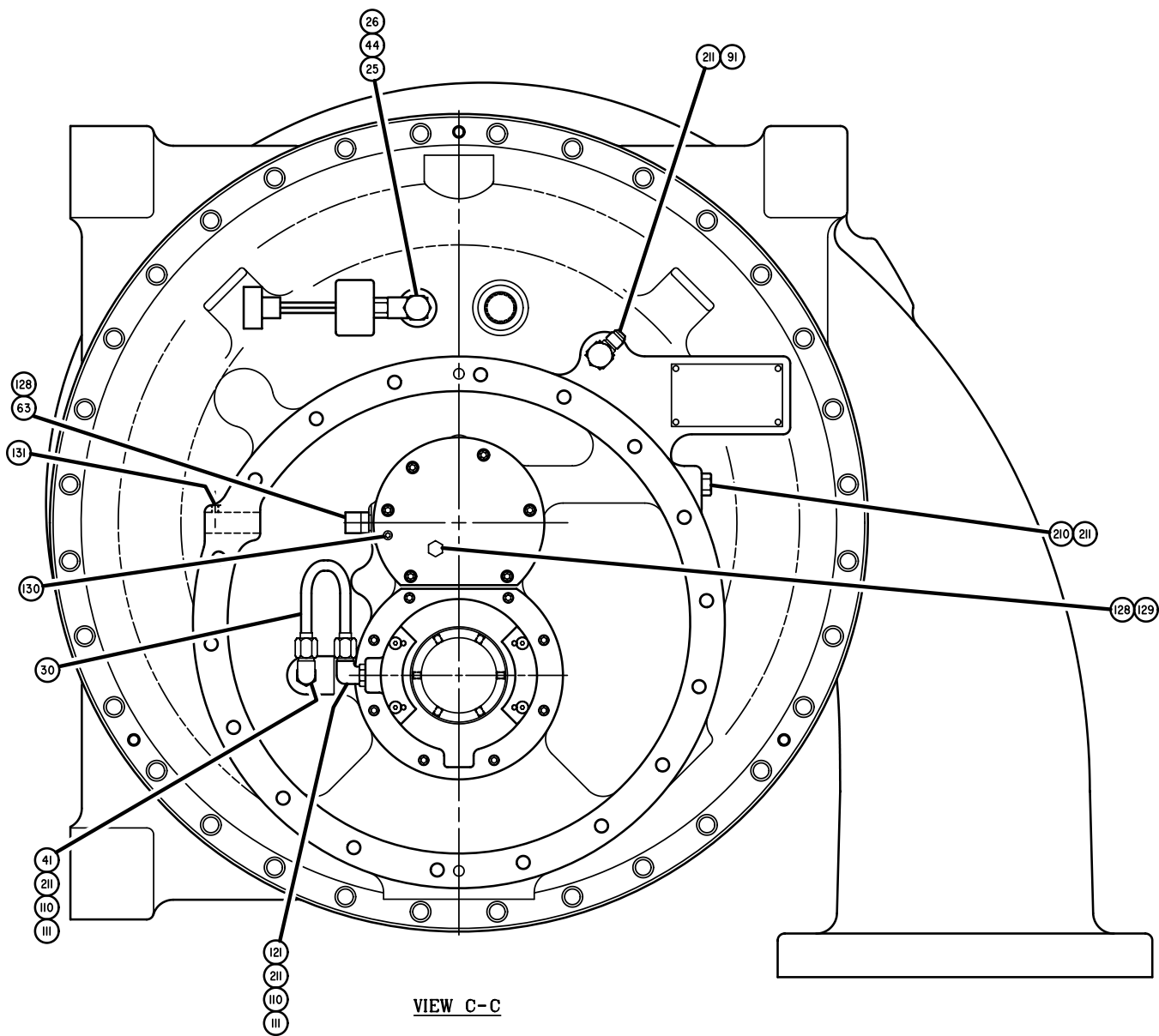


FIG. 15 – HE COMPRESSOR (57, 59, 61)

HE COMPRESSOR
MODELS HE 57, 59, 61



LD12069

FIG. 16 – HE COMPRESSOR (57, 59, 61)

HE COMPRESSOR
MODELS HE 57, 59, 61

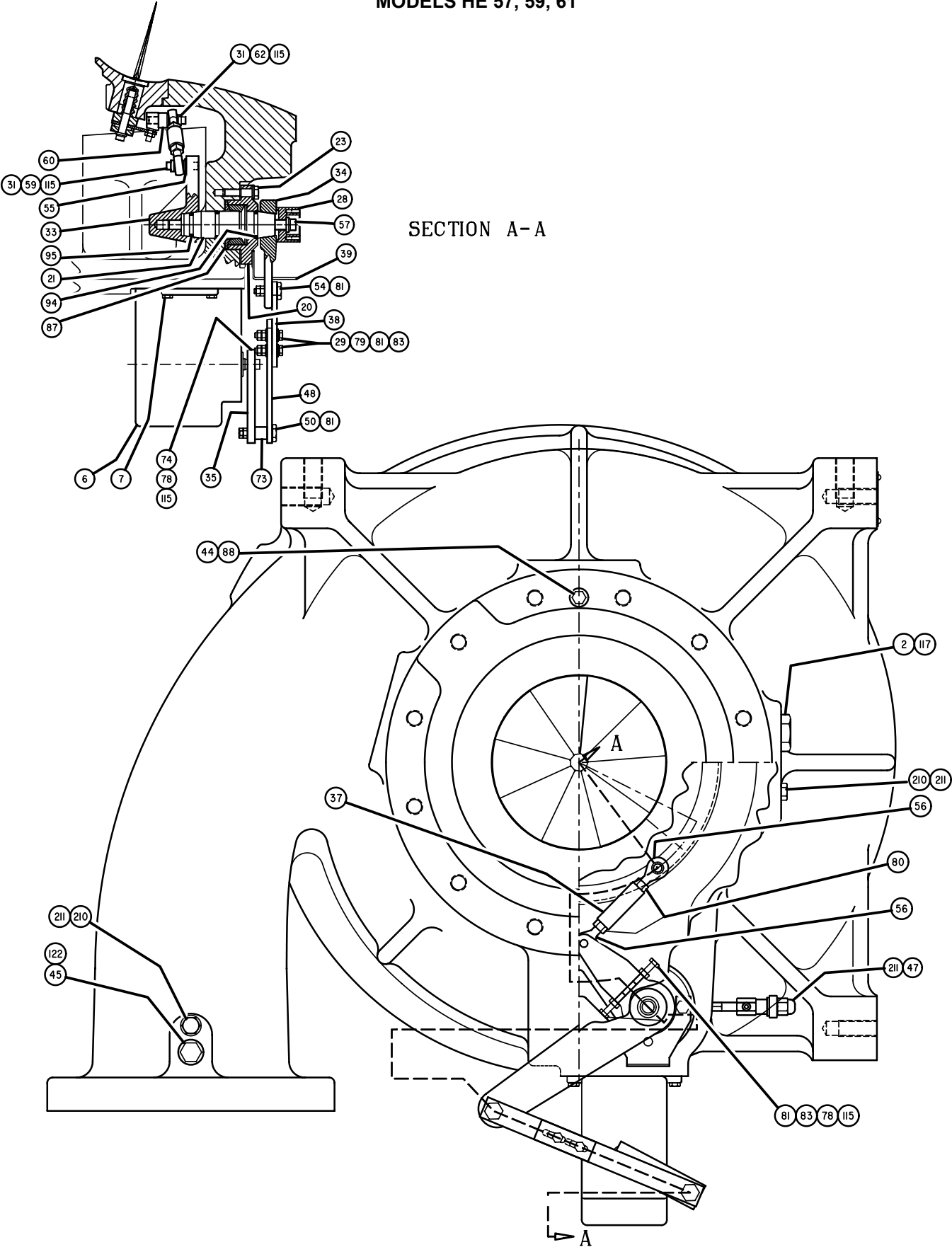
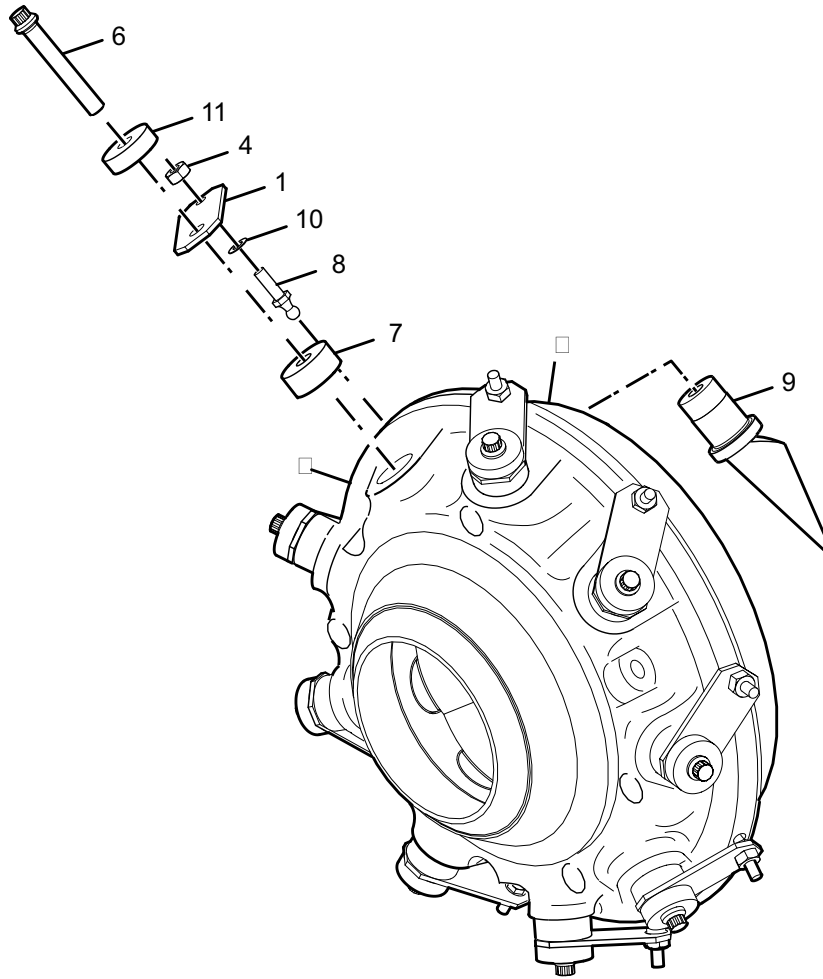


FIG. 17 – HE COMPRESSOR (57, 59, 61)

DEVICE PRE-ROTATION

MODELS HE 57, 59, 61



LD08907

FIG. 18– DEVICE PRE-ROTATION (HE 57, 59, 61)

ITEM	DESCRIPTION	HE 57		HE 59		HE 61	
		QTY.	PART NUMBER	QTY.	PART NUMBER	QTY.	PART NUMBER
	COMPLETE PRV DEVICE	-	364 50383 004	-	364 50383 006	-	364 50383 005
001	ARM, VANE PRV	9	064 47952 000	9	064 47952 000	9	064 47952 000
002	HOUSING	1	064 50379 000	1	064 50380 000	1	064 50381 000
004	NUT, SELF LOCK 1/4 - 28	9	021 12943 000	9	021 12943 000	9	021 12943 000
005	RING, VANE DRIVING	1	064 47926 000	1	064 47926 000	1	064 47926 000
006	SCREW, CAP 12 PT HEAD 3/8	9	021 17553 000	9	021 17553 000	9	021 17553 000
007	SPACER, ARM PRV	9	064 49206 000	9	064 49206 000	9	064 49206 000
008	STUD, BALL 1/4 -28	9	029 15924 000	9	029 15924 000	9	029 15924 000
009	VANE, PRE-ROTATION	9	029 22448 000	9	029 22448 000	9	029 22448 000
010	WASHER, PLAIN LT 17/64 ID 1/2	10	021 11973 000	10	021 11973 000	10	021 11973 000
011	WASHER, SPL 25/64 ID	9	064 09289 000	9	064 09289 000	9	064 09289 000

HE COMPRESSOR

MODEL HE 70 W/ VGD

ITEM	DESCRIPTION	PART NUMBER	QTY.
001	SCREW, CAP HEX SOC HD #8	021 18993 000	3
002	PLUG, HEX HD 1-5/16	023 18282 000	1
006	WIRING, PRV MOTOR ACTUATOR	375 49340 103	2
007	SPACER, ARM PRV HD	064 49206 000	1
*008	BEARING, HIGH SPEED REAR	064 49164 000	1
*009	BEARING, LOW SPEED REAR	064 49162 000	1
*010	BEARING, LOW SPEED FRONT	064 49161 000	1
011	BEARING, HIGH SPEED FORWARD THRUST	029 22451 000	1
012	TUBE, OIL DRAIN	064 49154 000	1
*013	COLLAR, HIGH SPEED THRUST	064 50392 001	1
*014	COLLAR, LOW SPEED THRUST	064 49158 000	1
015	COLLAR, IMPELLER CLAMPING	064 48123 000	1
016	SEAL, DOUBLE SHAFT	029 22454 000	1
016A	C-RING, REPLACEMENT FOR SHAFT SEAL	028 14492 000	1
017	BEARING, HIGH SPEED REVERSE THRUST	029 22452 000	1
†018	SEAL, O-RING 7 ID X 7-1/4 OD X	028 12550 000	1
019	NAMEPLATE, PATENT	029 13270 002	1
020	COVER, PRV SHAFT CONTROL	064 48861 000	2
021	SHAFT, CONTL PREROT DEVICE	364 50631 000	1
022	TUBE, OIL RETURN	064 49155 000	1
023	HHCS, 0.375-16 X 1.500 GR 5 ZN	021 18901 000	4
024	TUBE, OIL FEED INTERNAL	064 49156 000	1
025	PLUG, HEX HD 1-1/16	023 18295 000	1
†026	SEAL, O-RING NEOPRENE	028 12961 006	1
027	ORIFICE, HIGH SPEED OIL FEED	064 49203 000	1
028	SCREW, CAP 12PT HD 5/16	021 12197 000	2
030	TUBE, OIL FEED EXTERNAL	064 49157 000	1
033	LEVER, PRV INTERNAL	064 50726 000	1
035	ARM, MOTOR	064 51055 000	1
036	WASHER, SPRING EYE	064 50324 000	1
037	ROD, ADJUSTABLE PRV & VGD	364 51753 750	1
038	LINK, EXTERNAL VGD	064 50723 000	1
039	BRACKET, SUPPORT LOWER PRV	064 48851 000	1
040	RETAINER, BEARING S STAGE TURBO	064 46886 000	2
041	ELBOW, FLARE HYDRAULIC 3/8 OD	023 18920 000	1
042	CONNR, INSTM 3/8 TUBE X	023 12229 000	4
043	ELBOW, FLARE HYDRAULIC 1/4 OD	023 09677 000	1
†044	SEAL, O-RING .351 ID X	028 13832 000	2
045	PLUG, HEX HD 3/4	023 18280 000	2
047	PIN, SLOT SPG 1/4 X 3/4	029 04750 000	1
048	SCREW, CAP HEX SOC HD 1/4	021 29576 000	3
049	NP, DATA	029 21398 000	1
051	PLUG, PIPE 1/4 HEX SOCKET	023 01973 000	2
†054	SEAL, O-RING NEOPRENE	028 12961 001	1

* Included in Bearing Kit

† Included in O-Ring Kit

HE COMPRESSOR

MODEL HE 70 W/ VGD

ITEM	DESCRIPTION	PART NUMBER	QTY.
055	PREROT DEVICE	064 47935 000	1
057	SCREW, CAP 12 PT HD 1/2	021 31125 000	1
058	SCREW, CAP 12 PT HD 1/2	021 17244 000	3
059	SCREW, CAP 12PT HD 3/8	021 17618 000	2
060	LUB, VALVE STEM 2 OZ TIN	360 00125 000	0.02
061	SCREW, CAP HEX SOC HD 1/4	021 01377 000	5
062	SCREW, CAP 12PT HD 3/8	021 11720 000	1
063	PROBE, PRESSURE SWITCH	025 34535 001	1
064	SCREW, DRIVE TY U #4 X 1/4	021 03720 000	8
*065	BEARING, HIGH SPEED FRONT	064 49163 000	1
066	SCREW, CAP 12 PT HD 1/2	021 11937 000	32
067	PIN, SLOT SPG 3/16 X 1/2	029 04138 000	1
†069	SEAL, O-RING 24.462 ID X	028 13847 000	1
†070	SEAL, O-RING 4-1/8 ID X 4-3/8	028 12205 000	1
071	SCREW, CAP HEX SOC HD 1/4	021 18994 000	36
073	SPACER, .50 LG X .33 ID X .63OD	064 50611 000	1
†075	SEAL, O-RING 26.623 ID X	028 13846 000	1
076	WASHER, SPRING HG 65-73	064 50405 000	1
077	SCREW, CAP 12 PT HD 3/8	021 18788 000	11
081	NUT, HEX 1/4 - 20 UNC-2B	021 00450 000	2
082	PIN, DOWEL TAPPED 3/8 DIA	029 18459 000	3
083	SCREW, CAP HEX 1/4 -20UNC	021 11914 000	2
084	SCREW, SHOULDER SOC HD	021 17557 000	6
†086	SEAL, O-RING 5/16 ID X	028 12513 000	3
087	GASKET, 2-1/2 OD X 2 ID X 1/32	064 47751 000	2
088	PLUG, HEX HD 7/16	023 18279 000	2
089	VALVE, CHECK OIL 1/8 NPTE	022 04444 000	1
090	SCREW, CAP HEX SOC HD 1/4	021 02578 000	6
091	VALVE, STOP ANG VERTICAL	022 09578 000	1
†092	SEAL, O-RING 5-5/8 ID X 5-7/8	028 12258 000	1
*093	BEARING LOW SPEED THRUST	029 22450 000	1
†094	SEAL, O-RING 1-1/8 ID X 1/8	028 12200 000	4
097	FILLPIECE, .750 DIA X .500	064 47518 000	1
099	SEALER, GASKET ELIMINATOR	013 02827 000	0.2
103	RING, BALANCE PISTON SEAL	064 50402 000	1
104	RETAINER, B.P. SEAL WASHER	064 50404 000	1
106	RETAINER, EYE SEAL WASHER	064 50322 000	1
108	SLINGER, OIL	064 49230 000	1
109	PLATE, SLINGER MTG	064 49231 000	1
110	SLEEVE, FLARE HYDRAULIC 3/8 OD	023 10001 000	2
111	NUT, FLARE HYDRAULIC 3/8 OD	023 09673 000	2
†112	SEAL, O-RING 1-3/4 ID X	028 05188 000	1
113	SCREW, CAP 12 PT HD 3/8	021 11972 000	3
†114	SEAL, O-RING 5-3/4 ID X 5-15/16	028 13870 000	1

* Included in Bearing Kit

† Included in O-Ring Kit

HE COMPRESSOR

MODEL HE 70 W/ VGD

ITEM	DESCRIPTION	PART NUMBER	QTY.
116	SCREW, SET HEX SOC CUP PT	021 00700 000	1
†117	SEAL, O-RING NEOPRENE	028 12961 008	1
118	SCREW, CAP 12 PT HD 1/2	021 13334 000	3
119	SCREW, CAP HEX SOC HD #8	021 19153 000	1
120	CLAMP, TUBE 3/8 OD	023 05284 000	1
121	ELBOW, FLARE HYDRAULIC 3/8 OD	023 18989 000	1
†122	SEAL, O-RING NEOPRENE	028 12961 004	2
123	PLUG, HEX HD	023 20217 000	1
125	PLUG, PIPE, FLUSH TYPE HEX	023 05366 000	3
†128	SEAL, O-RING .301 ID X .064	028 12209 000	2
129	SCREW, CAP HEX SOC HD #10	021 14461 000	1
131	SHAFT, CONTROL PREROT DEVICE	364 51220 000	1
132	LEVER, PRV EXTERNAL	064 50613 000	2
133	SPACER, FLANGED, PRV & VGD	064 50612 000	4
134	ROD, ADJUSTABLE PRV & VGD	364 51753 650	1
135	LEVER, INTERNAL VGD	064 51216 000	1
136	HHCS, 0.375-16 X 0.875 GR 5 BL	021 01470 000	6
137	NUT, HEX 5/16 - 18UNC-2B	021 02523 000	8
138	SCREW, CAP 12PT HD 3/8	021 11141 000	10
139	SCREW, CAP 12PT HD 5/16	021 11142 000	1
140	ARM, MOTOR HE 70	064 51407 000	1
141	SCREW, CAP 12 PT HD 1/2	021 11926 000	4
142	FILLPIECE, PREROT DEVICE	064 10821 000	2
143	NUT, HEX MACH SCR #10 - 32	021 08670 000	4
144	LOCKWASHER, HEL SPG #10 REG	021 05265 000	2
145	SCREW, CAP HEX SOC HD #10-32	021 31182 000	2
146	DOWEL, PIN STR	029 24130 000	2
147	PLUG, PRV ASSEMBLY	064 50632 000	2
†148	SEAL, O-RING NEOPRENE	028 12961 005	2
†149	SEAL, O-RING 8.234 ID X	028 15078 000	1
150	PLATE, COVER HANDHOLE	064 50139 000	1
151	SCREW, CAP 12PT HD 3/8	021 11742 000	1
152	SCREW, CAP 12 PT HD 1/2	021 31600 000	1
153	LINK, EXTERNAL VGD	064 50951 000	1
155	BUSHING, GARLOCK 16DU12	029 24100 000	1
156	SCREW, CAP 12PT HD 5/16	021 12202 000	1
157	SPACER, HAH, VGD	064 51050 000	1
159	ORIFICE, SET SCREW	064 51402 000	1
207	RING, EYE SEAL	064 51198 000	1
208	PLUG, HEX HD 9/16	023 18962 000	5
†209	SEAL, O-RING NEOPRENE	028 12961 003	8
210	IMPELLER, 7.0 EYE DIA	064 51186 001	1
211	DEVICE, VGD HE 70	364 51184 000	1
†212	SEAL, O-RING SPLICED 19.719 ID	028 12227 000	1

* Included in Bearing Kit

† Included in O-Ring Kit

HE COMPRESSOR
MODEL HE 70 W/ VGD

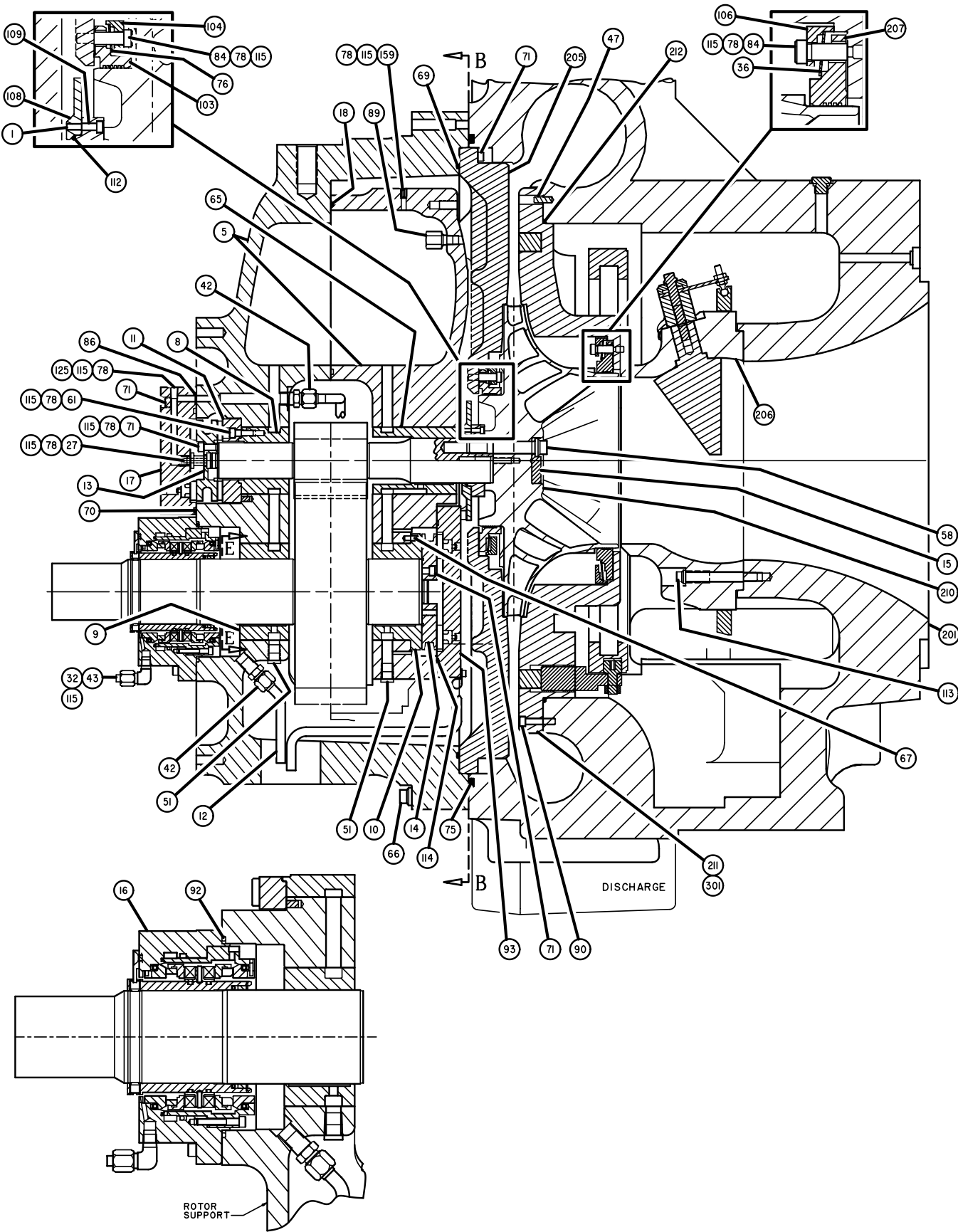


FIG. 19 – HE COMPRESSOR (70)

LD12089

HE COMPRESSOR
MODEL HE 70 W/ VGD

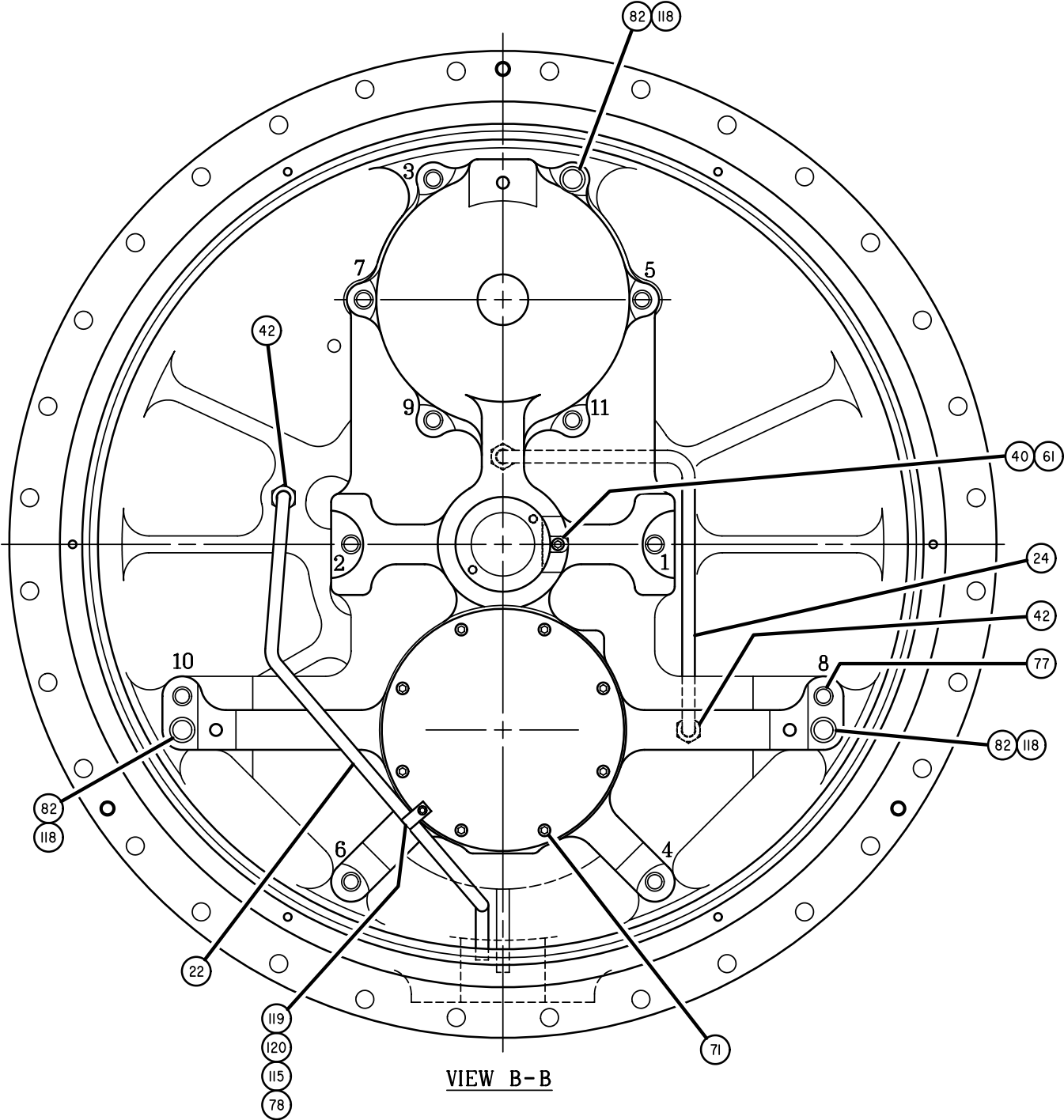


FIG. 20 – HE COMPRESSOR (70)

HE COMPRESSOR
MODEL HE 70 W/ VGD

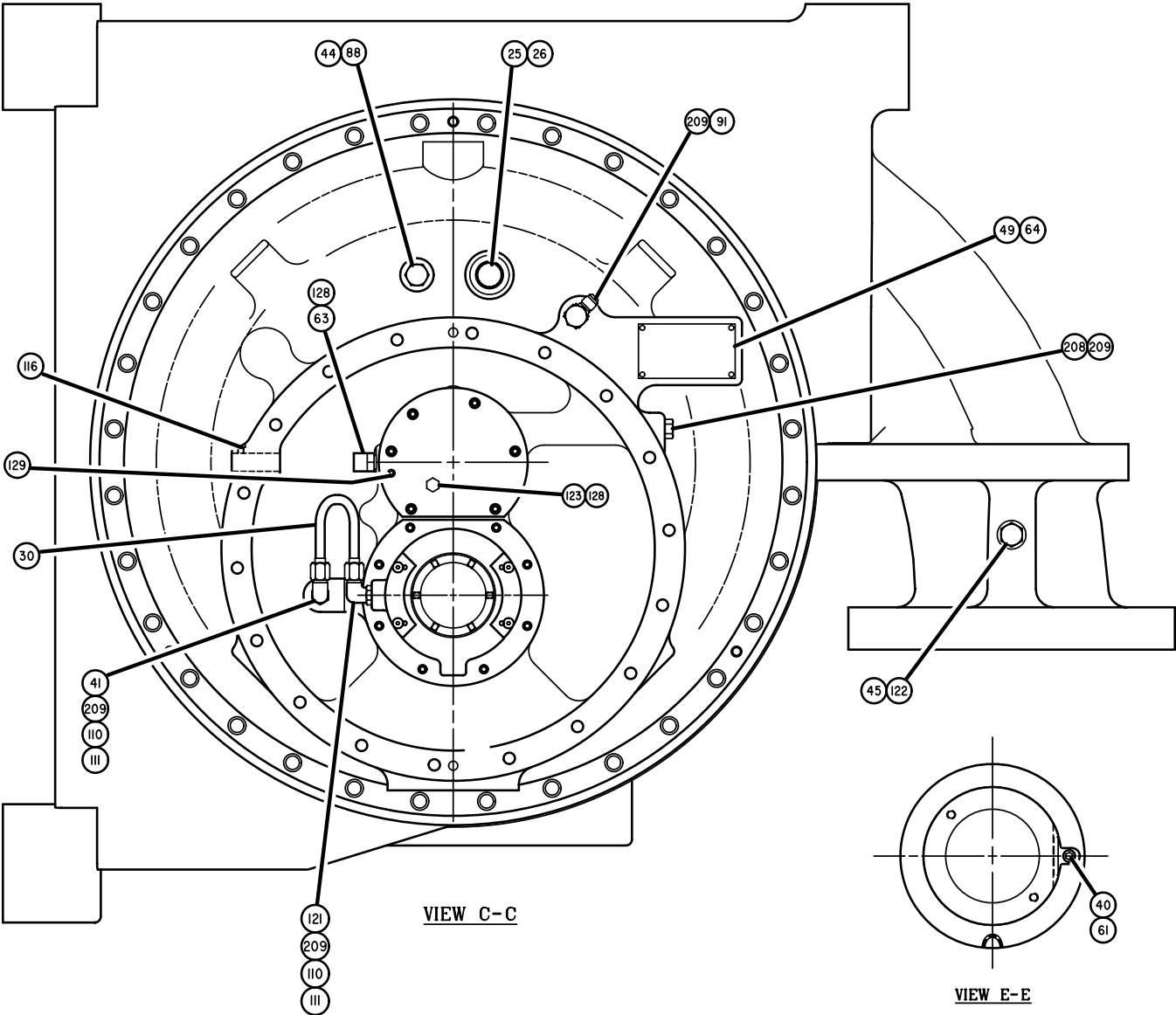


FIG. 21 – HE COMPRESSOR (70)

LD12091

HE COMPRESSOR
MODEL HE 70 W/ VGD

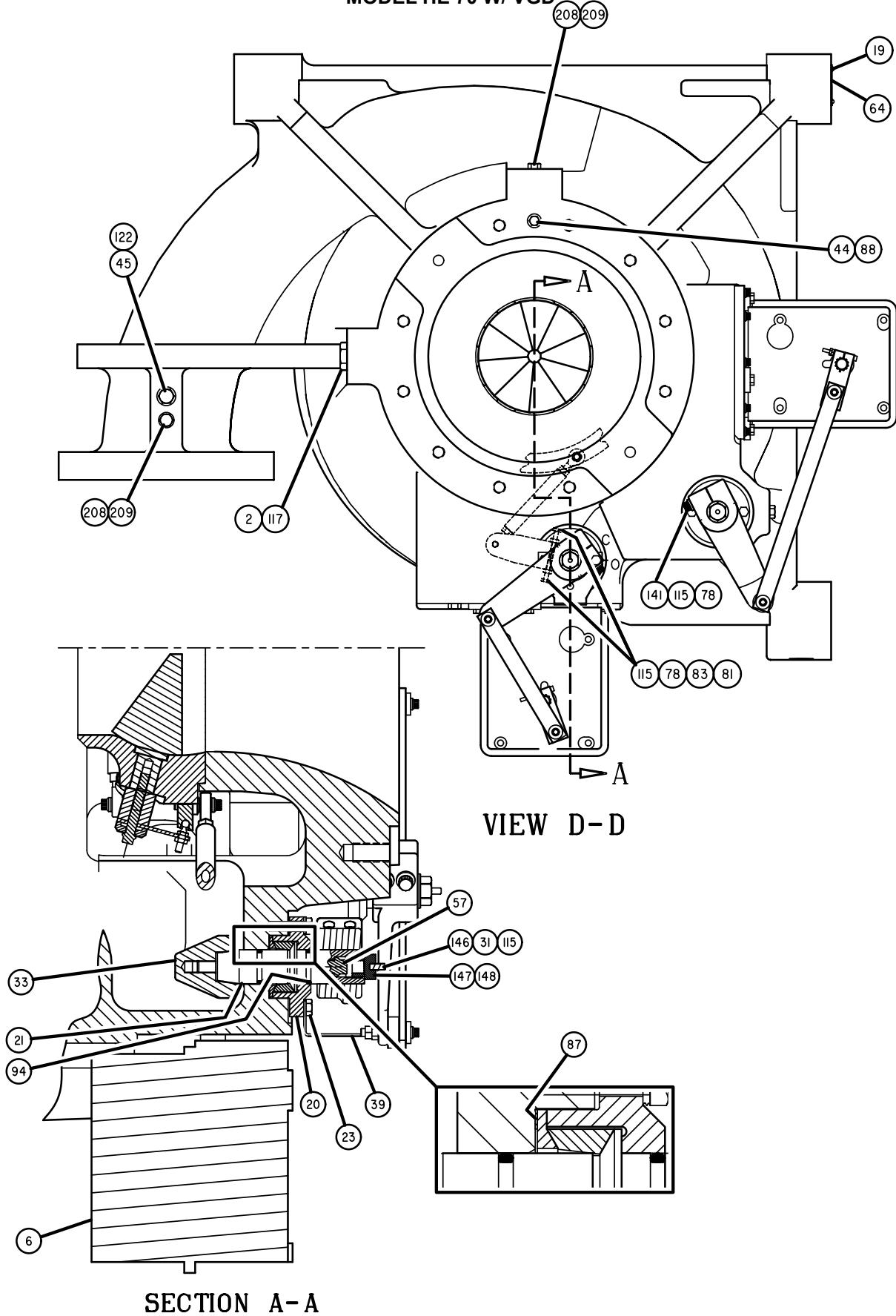


FIG. 22 – HE COMPRESSOR (70)

HE COMPRESSOR
MODEL HE 70 W/ VGD

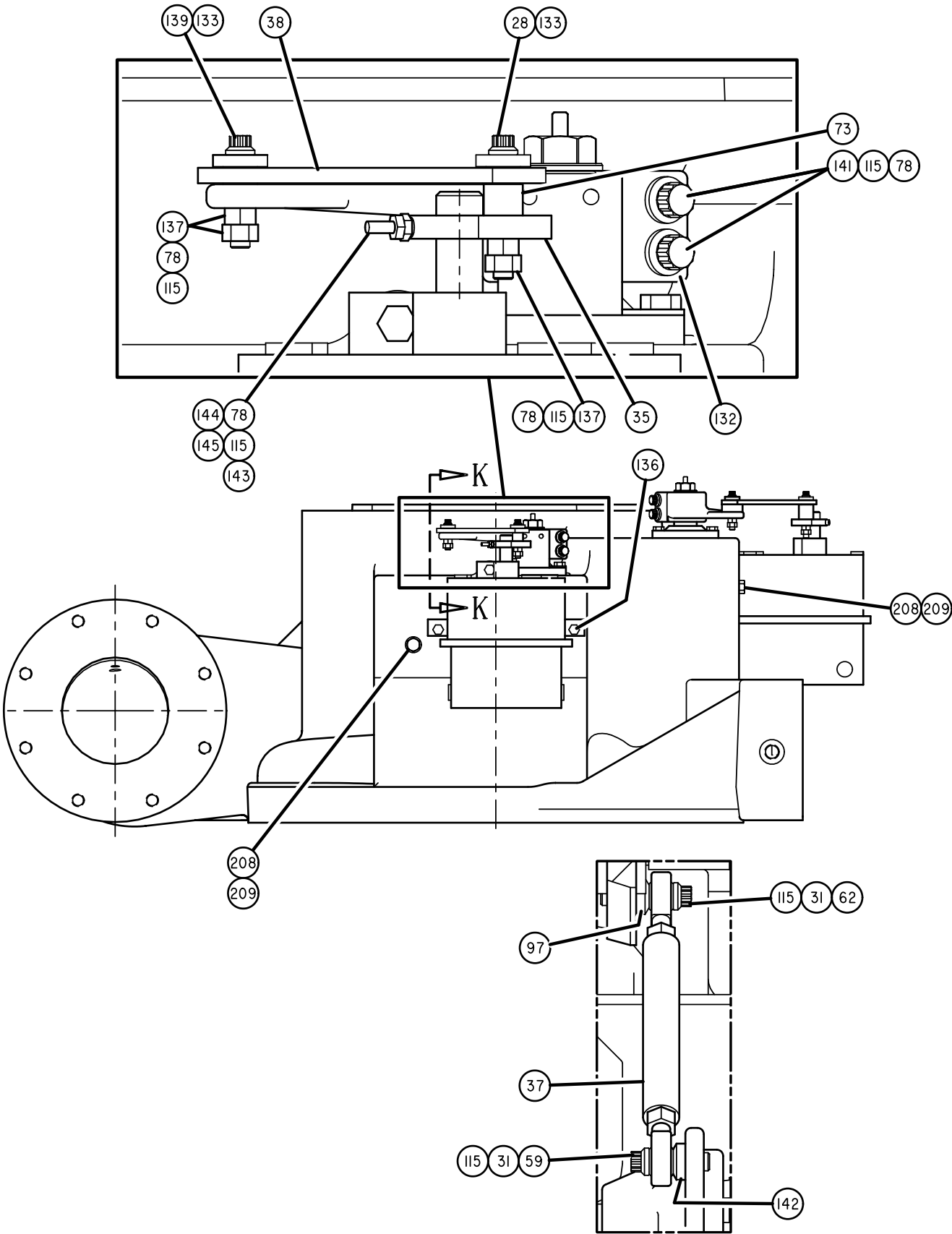


FIG. 23 – HE COMPRESSOR (70)

SECTION K-K

LD12093

HE COMPRESSOR
MODEL HE 70 W/ VGD

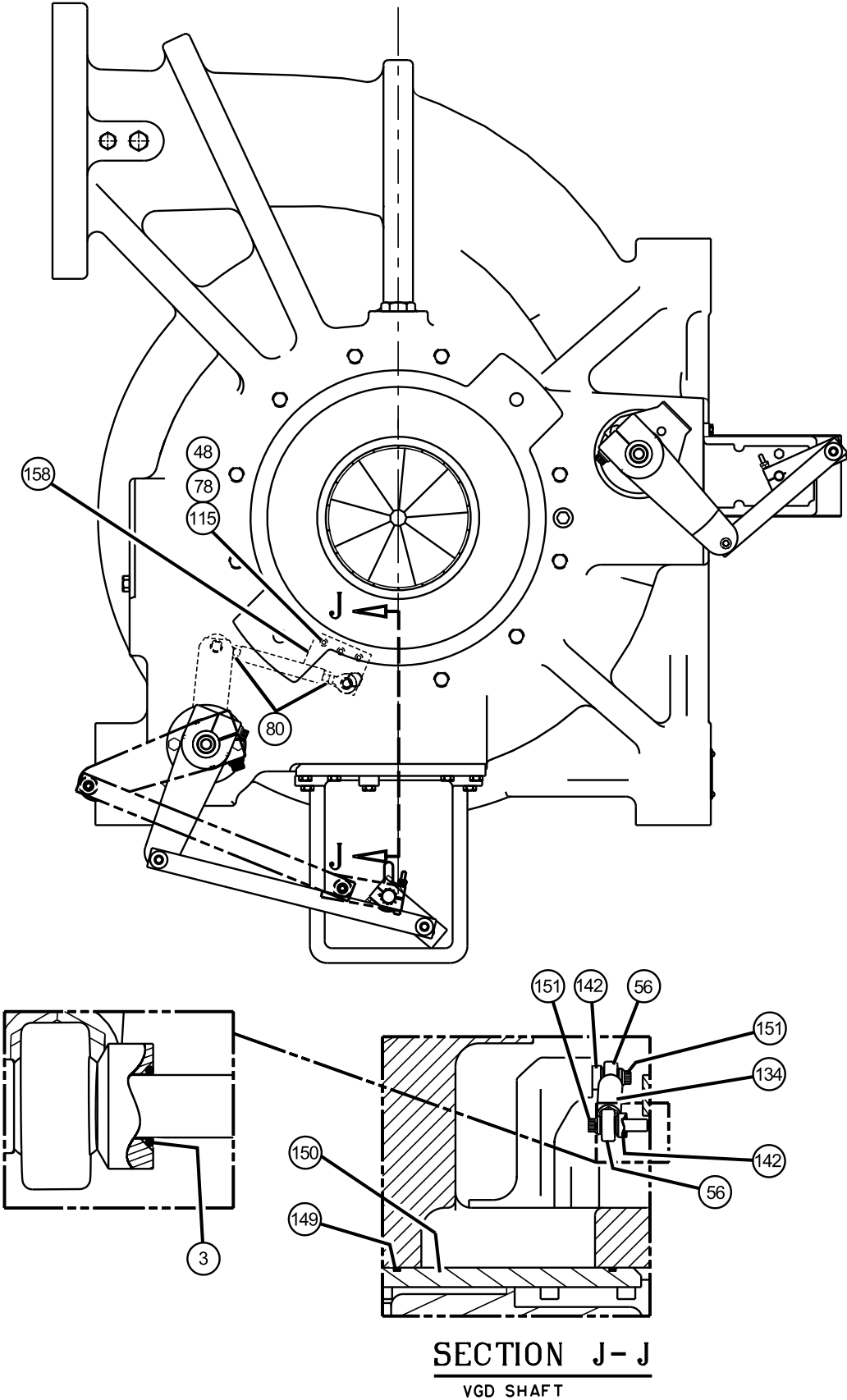
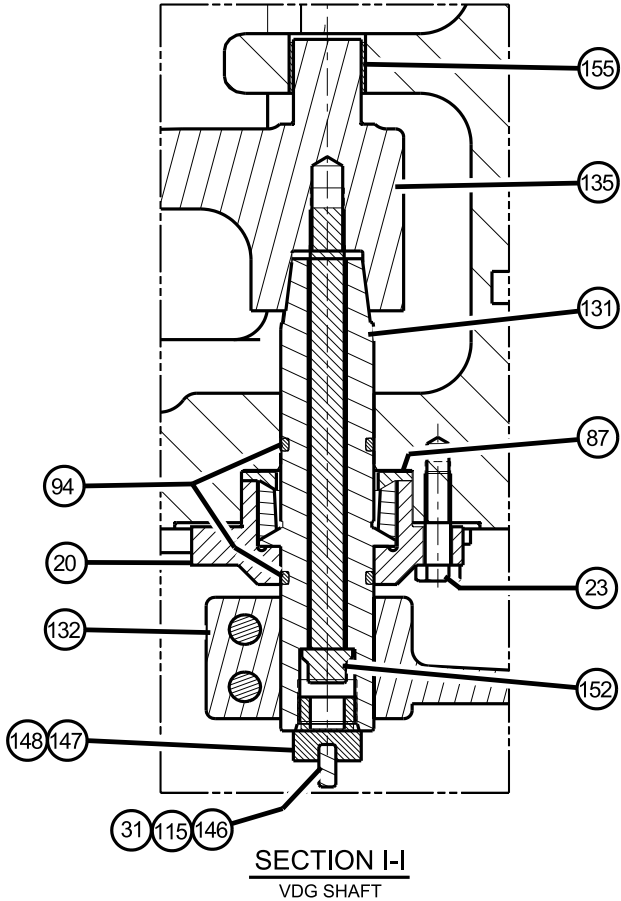
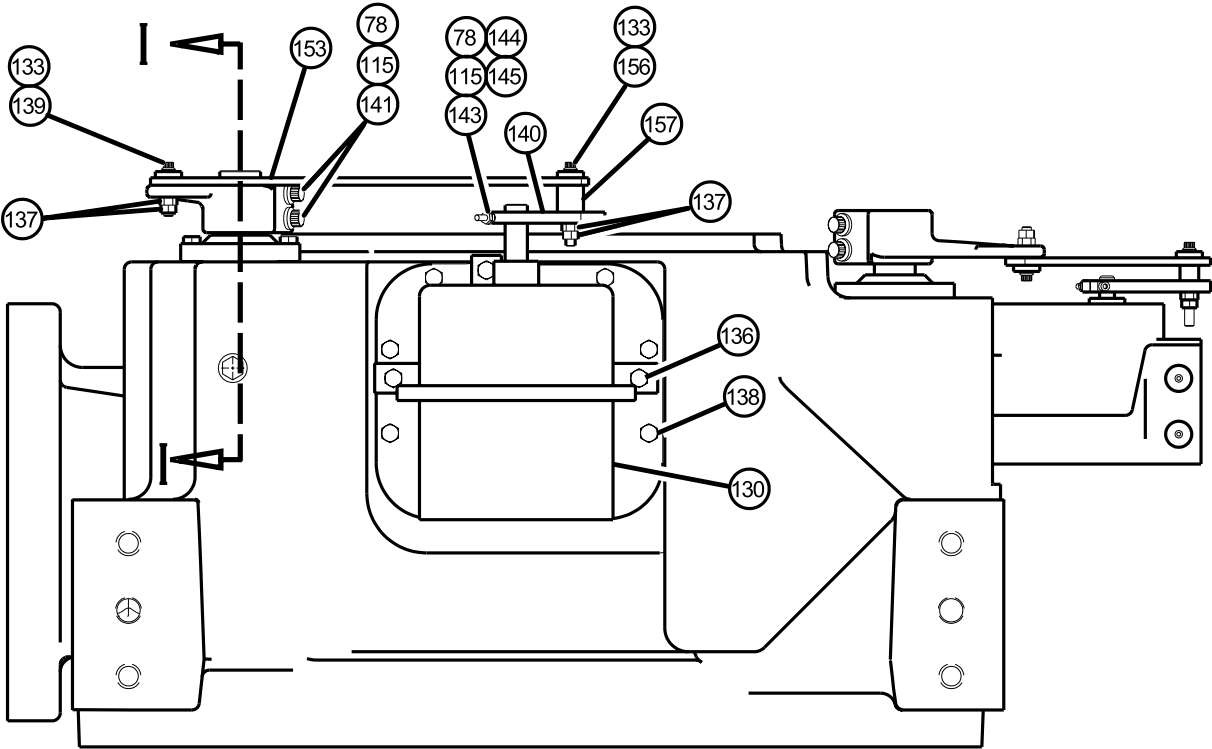


FIG. 24 – VGD DEVICE (HE 70)

HE COMPRESSOR
MODEL HE 70 W/ VGD



LD10711

FIG. 25 – VGD DEVICE (HE 70)

VGD DEVICE
MODEL HE 70
PART NO. 364 51184 000

ITEM	DESCRIPTION	QTY.	PART NUMBER
1	RING, DIFFUSER HE VGD	1	064 51429 000
2	SCREW, CAP HEX SOC HD 5/16"	6	021 31527 000
3	PIN, DRIVE HE 58-62	3	064 50767 000
4	BEARING, MCGILL CF-3/4-B	3	029 24103 000
5	NUT, HEX 3/8"-24 UNF-2B	6	021 00474 000
6	SPACER, VGD	3	064 50758 000
7	BEARING, MCGILL CYR 1-3/8"	3	029 24104 000
8	SCREW, CAP HEX SOC HD 3/8"	3	021 01508 000
9	WASHER, PLAIN .384 ID X 5/8 OD	3	021 31155 000
10	SUPPORT, AXIAL BEARING	3	064 50469 000
11	BEARING, MCGILL CFE-3/4-B	3	029 24102 000
12	SCREW, CAP HEX SOC HD	6	021 19223 000
13	SCREW, CAP HEX SOC HD 5/16"	1	021 31326 000
14	WASHER, PLAIN HARDENED 3/8 ID	2	021 31323 000
15	WASHER, CONICAL DISK	12	021 31324 000
16	BUSHING, GARLOCK 16DU12	6	029 24555 000
17	SCREW, CAP HEX SOC HD 1/4"	1	021 02578 000
18	SCREW, SET HEX SOCKET 1/4"	1	021 31328 000
19	PIN, TENSIONER VGD DRIVE RING	1	064 50830 000
20	BLOCK, TENSIONER VGD DRIVE RING	1	064 50824 000
21	SCREW, SHOULDER SOC HD 5/16"	1	021 31322 000
22	RING, DRIVE VGD	1	064 51437 000
23	PRIMER, LOCQUIC GRADE N	.025	013 01753 000
24	SEALER, REMOVABLE THREAD	.010	013 01678 000
25	SHIM, BRACKET VGD SUPPORT BLOCK	6	064 51137 000
26	WASHER, PLAIN 13/32" ID X 13/16"	3	021 01274 000

VGD DEVICE
MODEL HE 70

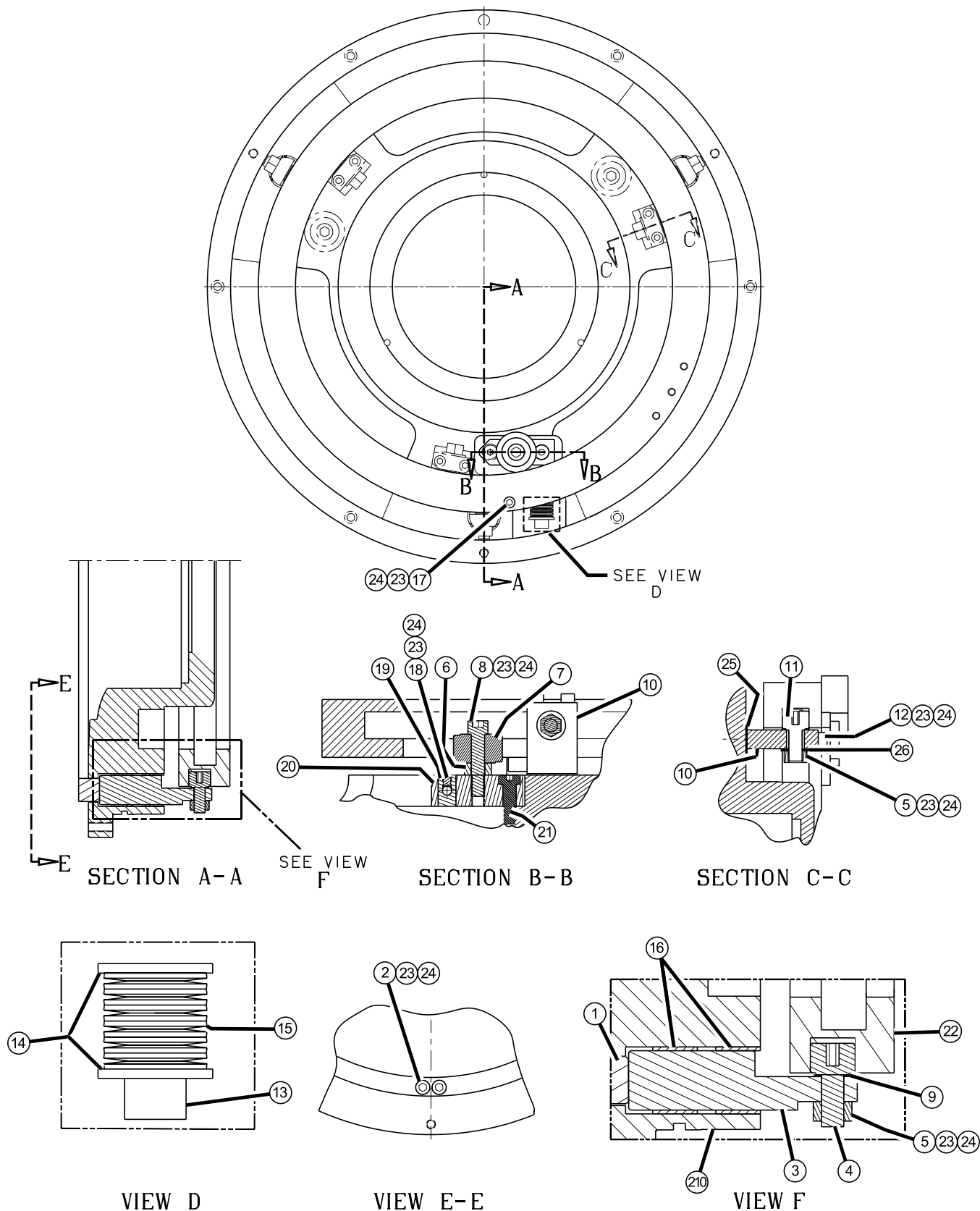
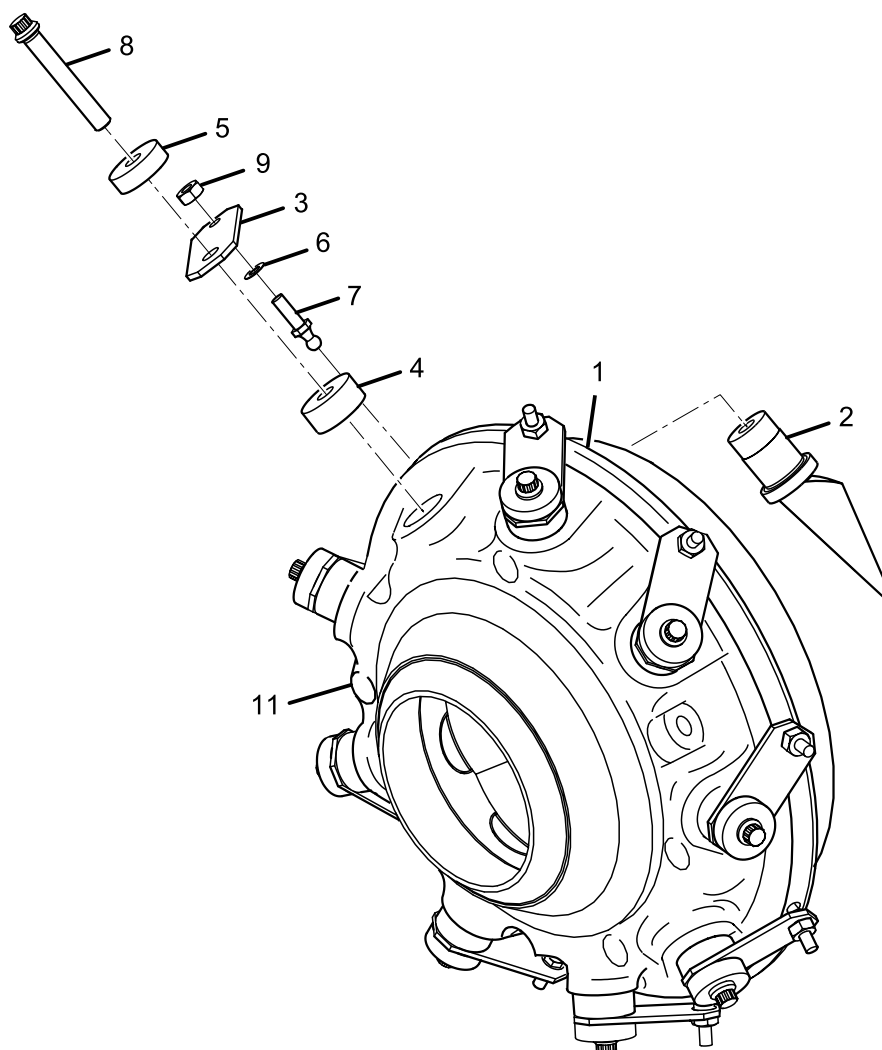


FIG. 26 – VGD DEVICE (HE 70)

LD10712

DEVICE PRE-ROTATION MODEL HE 70



LD12110

FIG. 27 – DEVICE PRE-ROTATION (HE 70)

ITEM	DESCRIPTION	QTY.	PART NUMBER
	COMMON PARTS	-	364 51428 000
001	RING, VANE DRIVING	1	064 50370 000
002	VANE, PRE-ROTATION	9	064 51413 000
003	ARM , VANE PRV	9	064 47952 000
004	SPACER, PRV ARM	9	064 49712 000
005	WASHER, SPL 25/64 ID	9	064 09289 000
006	WASHER, PLAIN LT 17/64 ID 1/2	18	021 11973 000
007	STUD, BALL 1/4-28 UNF	9	029 15924 000
008	SCREW, CAP 12 PT HD 3/8	9	021 17245 000
009	NUT, SELF LOCK 1/4 - 28 UNF	9	021 12943 000
011	HOUSING, PRE-ROT VANES	1	064 51452 000

HG COMPRESSOR

MODELS HG 65, 73 W/O VGD

ITEM	DESCRIPTION	HG 65		HG 73	
		QTY.	PART #	QTY.	PART #
001	PRIMER, LOCQUIC GRADE N,	-	013 01753 000	-	013 01753 000
*002	BEARING, H.S. FRONT HG 65-73	1	064 50618 000	1	064 50618 000
003	PLUG, PIPE FLUSH TYPE HEX	3	023 21738 000	3	023 21738 000
005	SUPPORT, ROTOR W/HSG BEARING	1	364 50409 000	1	364 50409 000
006	WIRING, MOTOR ACTUATOR	1	375 49340 103	1	375 49340 103
007	SET SCREW, ORIFICE	1	064 51402 000	1	064 51402 000
*008	BEARING, H.S. REAR	1	064 50619 000	1	064 50619 000
*009	BEARING, L.S. REAR	1	064 50621 000	1	064 50621 000
*010	BEARING, L.S. FRONT	1	064 50620 000	1	064 50620 000
*011	BEARING, THRUST	1	029 20900 002	1	029 20900 002
012	SCREW, CAP 12PT HD 3/8	6	021 11148 000	6	021 11148 000
*013	COLLAR, THRUST H.S.	1	064 47904 000	1	064 47904 000
*014	COLLAR, THRUST L.S.	1	064 47770 000	1	064 47770 000
015	COLLAR, IMPELLER CLAMPING	1	064 48123 000	1	064 48123 000
016	RETAINER B.P. SEAL WASHER	1	064 50404 000	1	064 50404 000
017	BEARING, H.S. REVS THRUST	1	029 20898 002	1	029 20898 002
†018	SEAL, O-RING 8 ID X 8-1/4 OD X	1	028 12255 000	1	028 12255 000
020	COVER, PRV SHAFT CONTROL	1	064 48861 000	1	064 48861 000
021	SHAFT, CONTL PREROT DEVICE	1	364 50631 000	1	364 50631 000
022	SLEEVE, FLARE HYDRAULIC 3/8 OD	3	023 10001 000	3	023 10001 000
023	SCREW, CAP HEX 3/8 -16UNC	2	021 18901 000	2	021 18901 000
024	WASHER, SPRING HG 65-73	1	064 50405 000	1	064 50405 000
025	PLUG, HEX HEAD 7/16	1	023 18279 000	1	023 18279 000
026	SPACER, .50 LG X .33 ID X .063 OD	1	064 50611 000	1	064 50611 000
027	ORIFICE, H.S. OIL FEED	1	064 48034 000	1	064 48034 000
028	PLUG, PRV ASSEMBLY	1	064 50632 000	1	064 50632 000
029	WASHER, PLAIN 9/32 ID X 5/8 OD	4	021 05165 000	4	021 05165 000
030	NUT, FLARE HYDRAULIC 3/8 OD	3	023 09673 000	3	023 09673 000
031	SEALER, GRADE AVV LOCTITE 086	-	013 01671 000	-	013 01671 000
032	SEALER, REFRIGERANT PIPE	-	013 02894 000	-	013 02894 000
033	LEVER, PRV INTERNAL	1	064 50726 000	1	064 50726 000
034	LEVER, EXTERNAL PRV	1	064 50613 000	1	064 50613 000
035	LEVER, PRV MOTOR	1	064 50614 000	1	064 50614 000
036	LINK, EXTERNAL PRV	2	064 28261 000	2	064 28261 000
037	ROD, ADJ FOR P. R. DEVICE	1	064 51753 000	1	064 51753 000
038	PROBE, PROXIMITY	1	025 40496 000	1	025 40496 000
039	PLUG, HEX HEAD 1-1/16	1	023 18295 000	1	023 18295 000
040	RETAINER, BEARING S STAGE TURBO	3	064 46886 000	3	064 46886 000
041A	PLUG, PIPE 1/4 HEX SOCKET	2	023 01973 000	2	023 01973 000
†042	SEAL, O-RING NEOPRENE	1	028 12961 004	1	028 12961 004
043	CONNR, FLARE HYDRAULIC 1/4 OD	1	023 09668 000	1	023 09668 000
045	CONNR, FLA M X M 3/8 OD FLA	1	023 20853 000	1	023 20853 000
†046	SEAL, O-RING .351 ID X	1	028 13832 000	1	028 13832 000
047	ELBOW, CINCH 3/8 TUBE X	1	023 22141 000	1	023 22141 000
048	STUD, CONTS THD 5/8-11 UNC-2B	2	021 31782 000	2	021 31782 000

* Included in Bearing Kit † Included in O-Ring Kit

HG COMPRESSOR

MODELS HG 65, 73 W/O VGD

ITEM	DESCRIPTION	HG 65		HG 73	
		QTY.	PART #	QTY.	PART #
049	NUT, HEX 5/8 -11 UNC-2B	2	021 17659 000	2	021 17659 000
050	SCREW, CAP 12PT HD 5/16	1	021 12197 000	1	021 12197 000
†051	SEAL, O-RING 2-9/16 ID X 2-3/4	3	028 11976 000	3	028 11976 000
052	PIN, SLOT SPG 1/4 X 3/4	1	029 04750 000	1	029 04750 000
†053	SEAL ,O-RING NEOPRENE	1	028 12961 006	1	028 12961 006
054	SCREW, CAP 12PT HD 5/16	1	021 11142 000	1	021 11142 000
055	FILLPIECE, PREROT DEVICE	1	064 10821 000	1	064 10821 000
057	SCREW, CAP 12 PT HD 1/2	1	021 31125 000	1	021 31125 000
058	SCREW, CAP 12 PT HD 1/2	3	021 11515 000	3	021 11515 000
059	SCREW, CAP 12PT HD 3/8	1	021 17618 000	1	021 17618 000
060	BRACKET, SUPPORT LOWER PRV	1	064 48851 000	1	064 48851 000
061	SCREW, CAP 12 PT HD 1/4	3	021 11505 000	3	021 11505 000
062	TUBE, TEE-DRAIN	1	064 51462 000	1	064 51462 000
065	WASHER, PLAIN CLIPPED HARDENED	40	021 17593 000	40	021 17593 000
066	SCREW, CAP 12PT HD 5/8	38	021 11553 000	38	021 11553 000
067	SCREW, CAP FLAT SOC HD 3/8	2	021 13856 000	2	021 13856 000
068	CONNR, CINCH 3/8 TUBE	3	023 06801 000	3	023 06801 000
069	SCREW, CAP HEX 3/8 -16UNC	2	021 01477 000	2	021 01477 000
071	SCREW, CAP HEX 3/8 -16UNC	3	021 01510 000	3	021 01510 000
072	PLATE, MTG	1	064 47998 000	1	064 47998 000
073	HEADER, SPRAY	1	064 48003 000	1	064 48003 000
074	SCREW, SET HEX SOC CUP PT	1	021 03910 000	1	021 03910 000
075	WASHER, PLAIN 13/32 ID X 13/16	2	021 01274 000	2	021 01274 000
076	PLUG, HEX HD 1-5/16	1	023 18282 000	1	023 18282 000
†077	SEAL, O-RING NEOPRENE	1	028 12961 008	1	028 12961 008
078	SCREW, SET HEX SOC CUP PT	1	021 00774 000	1	021 00774 000
079	LOCKWASHER, HEL SPG 1/4 REG	2	021 05267 000	2	021 05267 000
081	NUT, HEX 1/4 - 20 UNC-2B	10	021 00450 000	10	021 00450 000
082	PIN, DOWEL TAPPED 3/8 DIA	3	029 18459 000	3	029 18459 000
083	SCREW, CAP HEX 1/4 -20UNC	4	021 01392 000	4	021 01392 000
084	SCREW, SHOULDER SOC HD	6	021 17557 000	6	021 17557 000
†085	SEAL, O-RING .301 ID X .064	1	028 12209 000	1	028 12209 000
†086	SEAL, O-RING 5/16 ID X	2	028 12513 000	2	028 12513 000
087	GASKET, 2-1/2 OD X 2 ID X 1/32	1	064 47751 000	1	064 47751 000
088	CONN, OIL DRAIN HG 65-73	1	364 50633 000	1	364 50633 000
089	VALVE, CHECK OIL 1/8 NPTE	1	022 04444 000	1	022 04444 000
091	SEAL, DOUBLE SHAFT	1	029 22428 000	1	029 22428 000
091A	C-RING, REPLACEMENT FOR SHAFT SEAL	1	028 14492 000	1	028 14492 000
†092	SEAL, O-RING 5-5/8 ID X 5-7/8	1	028 12258 000	1	028 12258 000
093	TUBE, GEAR COOLING	1	064 51249 000	1	064 51249 000
†094	SEAL, O-RING 1-1/8 ID X 1/8	3	028 12200 000	3	028 12200 000
095	NUT, HEX 5/16-18UNC-2B	4	021 02523 000	4	021 02523 000
096	PLUG, PIPE, FLUSH TYPE HEX	2	023 05366 000	2	023 05366 000
098	SCREW, CAP HEX 3/8 -16UNC	16	021 10037 000	16	021 10037 000
099	FITTING, LIQUID TIGHT 1/2 NPT	1	025 28720 000	1	025 28720 000

* Included in Bearing Kit † Included in O-Ring Kit

JOHNSON CONTROLS

HG COMPRESSOR

MODELS HG 65, 73 W/O VGD

ITEM	DESCRIPTION	HG 65		HG 73	
		QTY.	PART #	QTY.	PART #
101	TUBE, .50 LG +/- .03 X 1/4 OD X	1	064 49229 000	1	064 49229 000
102	TUBE, H.S. SOL H 36-57	1	064 49044 000	1	064 49044 000
*103	BEARING, L.S. THRUST HG 65-73	1	029 23760 000	1	029 23760 000
104	VALVE, STOP ANG VERTICAL	1	022 09578 000	1	022 09578 000
105	SCREW, CAP HEX SOC HD 1/4	16	021 02578 000	16	021 02578 000
106	TUBE, SHAFT SEAL OIL SUPPLY	1	364 51755 000	1	064 51755 000
107	SEALER, REMOVABLE THREAD	-	013 03375 000	-	013 03375 000
108	PIN, SLOT SPG 3/16 X 1/2	1	029 04138 000	1	029 04138 000
109	SCREW, CAP HEX 3/8 -16UNC	4	021 09071 000	4	021 09071 000
†110	SEAL, O-RING SPLICED 37.050 ID	1	028 15083 000	1	028 15083 000
111	FILLPIECE, PRETOT DEVICE	1	064 47935 000	1	064 47935 000
112	SCREW, CAP 12PT HD 3/8	1	021 11956 000	1	021 11956 000
114	STRAP, CABLE T&B L4-18-9-M	2	025 18167 000	2	025 18167 000
115	TEE, INSTM UNION 3/8 TUBE	1	023 10595 000	1	023 10595 000
116	TUBE, H.S.-TEE H 36-57	1	064 48215 000	1	064 48215 000
†117	SEAL, O-RING SPLICED 19.719 ID	1	028 12227 000	1	028 12227 000
†118	SEAL, O-RING 4-1/4 ID X 4-1/2	1	028 12259 000	1	028 12259 000
†119	SEAL, O-RING SPLICED 31.174 ID	1	028 15072 000	1	028 15072 000
120	SCREW, CAP HEX 1/4 -20UNC	6	021 16826 000	6	021 16826 000
121	SCREW, CAP HEX 3/8 -16UNC	13	021 14374 000	13	021 14374 000
†123	SEAL, O-RING 3-3/4 ID X 3-15/16	2	028 15074 000	2	028 15074 000
124	PLUG, HEX HD 3/4	2	023 18280 000	2	023 18280 000
125	SCREW, CAP HEX 3/8 -16UNC	6	021 01485 000	6	021 01485 000
126	SCREW, CAP HEX 3/8 -16UNC	3	021 01483 000	3	021 01483 000
127	TUBE, L.S. OIL DRAIN	1	064 51221 000	1	064 51221 000
128	TUBE, OIL DRAIN	1	064 51224 000	1	064 51224 000
129	PLUG, HEX HD 9/16	6	023 18962 000	6	023 18962 000
†130	SEAL, O-RING NEOPRENE	10	028 12961 003	10	028 12961 003
131	COVER, VGD SHAFT	1	064 51197 000	1	064 51197 000
132	PLATE, COVER HANDHOLE	1	064 50139 000	1	064 50139 000
†133	SEAL, O-RING 8.234 ID X	1	028 15078 000	1	028 15078 000
134	SCREW, CAP 21PT HD 3/8	10	021 11141 000	10	021 11141 000
135	ELBOW, CINCH 90 DEG 1/2 OD TUBE	1	023 17687 000	1	023 17687 000
136	TEE, CINCH 1/2 TUBE X 3/8 OD	1	023 22396 000	1	023 22396 000
137	REDUCER, CINCH 1/2 X 3/8 TUBE	1	023 22397 000	1	023 22397 000
138	CONNR, CINCH 1/2 OD X TUBE	1	023 18044 000	1	023 18044 000
139	TUBE, 3/8 OD X .049 X 1-1/2 LG	1	064 51463 000	1	064 51463 000
140	PIN, DOWEL STR	1	029 24130 000	1	029 24130 000
†141	SEAL, O-RING NEOPRENE	1	028 12961 005	1	028 12961 005
142	SEALER, GASKET ELIMINATOR	.20	013 02827 000	.20	013 02827 000
143	LUBE, VALVE STEM 2 OZ. TIN	.020	360 00125 000	.020	360 00125 000
144	SPACER, FLANGED, PRV & VGD	2	064 50612 000	2	064 50612 000
145	ELBOW, FLARE HYDRAULIC 3/8 OD	3	023 18920 000	3	023 18920 000
146	SCREW, CAP HEX SOC HD #10-32	1	021 31182 000	1	021 31182 000
147	LOCKWASHER, HEL SPG #10 REG	1	021 05265 000	1	021 05265 000

* Included in Bearing Kit † Included in O-Ring Kit

HG COMPRESSOR

MODELS HG 65, 73 W/O VGD

ITEM	DESCRIPTION	HG 65		HG 73	
		QTY.	PART #	QTY	PART #
148	NUT, MACH SCR #10-32	2	021 08670 000	2	021 08670 000
201	IMPELLER	1	064 50398 001	1	064 50399 001
202	PLATE, NOZZLE BASE	1	064 50249 000	1	064 50328 000
203	PLATE, DIFFUSER	1	064 50400 000	1	064 50401 000
204	DEVICE, PRV	1	364 51450 001	1	364 51450 002
205	WASHER, SPRING	1	064 50323 000	1	064 50324 000
206	RING, EYE SEAL	1	064 50341 000	1	064 50406 000
207	RETAINER, EYE SEAL	1	064 50252 000	1	064 50326 000
208	SCROLL, ROTOR	1	064 50790 000	1	064 50790 000
209	RING, BALANCE PISTON SEAL	1	064 50402 000	1	064 50403 000
210	RETAINER, EYE SEAL WASHER	1	064 50321 000	1	064 50322 000

* Included in Bearing Kit

† Included in O-Ring Kit

HG COMPRESSOR
MODELS HG 65, 73 W/O VGD

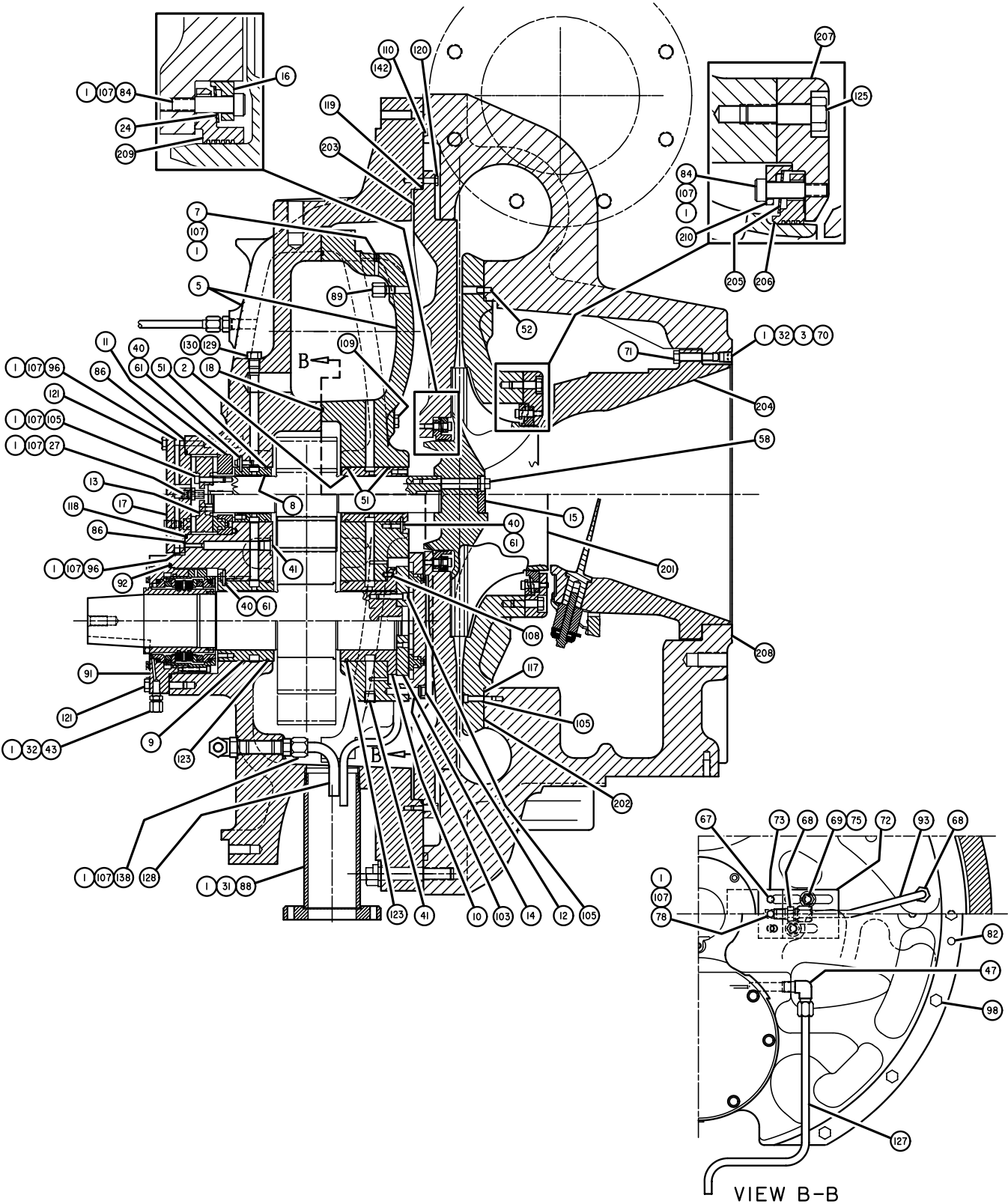


FIG. 28 – HG COMPRESSOR (65, 73)

LD12098

HG COMPRESSOR
MODELS HG 65, 73 W/O VGD

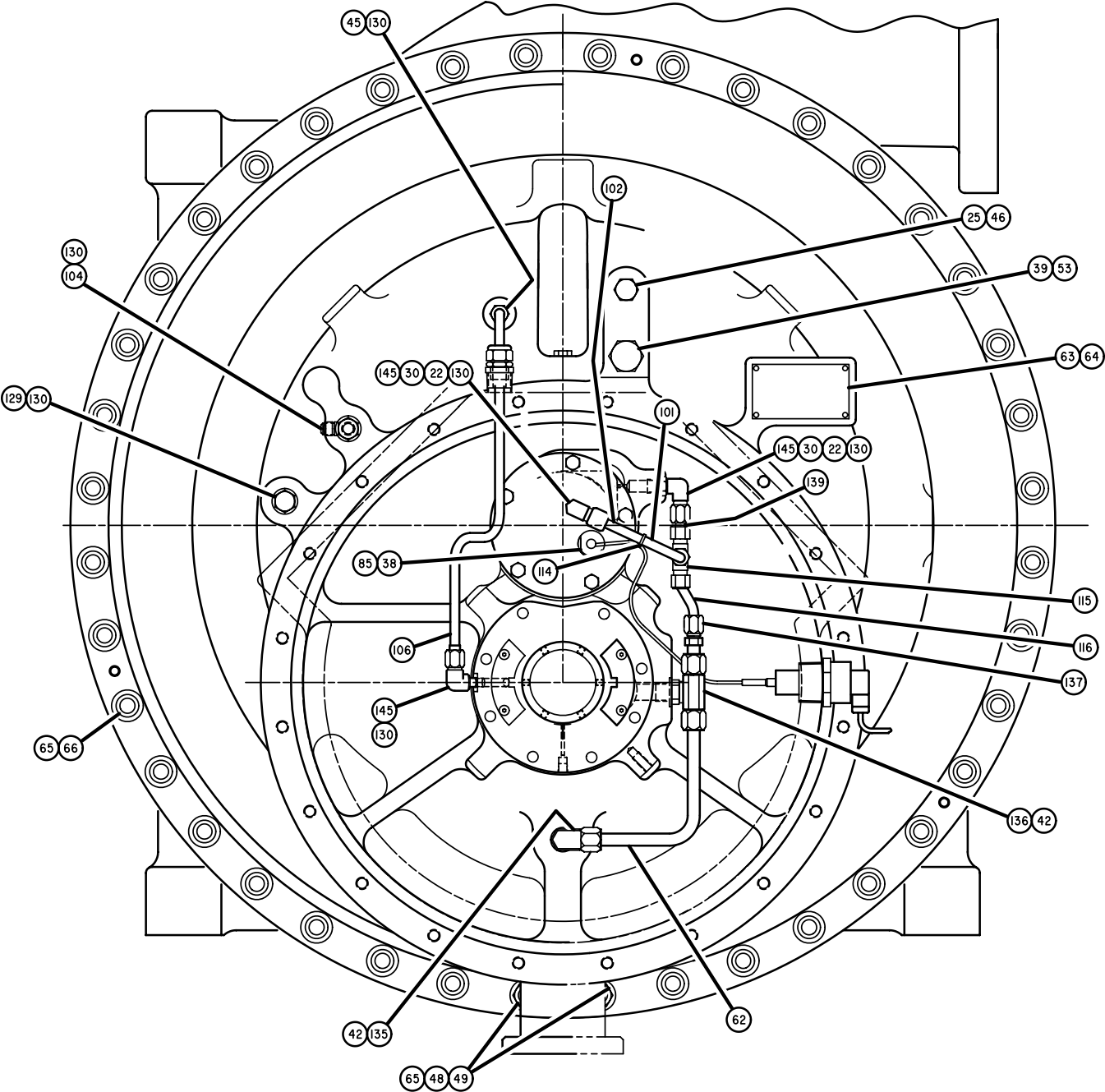


FIG. 29 – HG COMPRESSOR (65, 73)

HG COMPRESSOR
MODELS HG 65, 73 W/O VGD

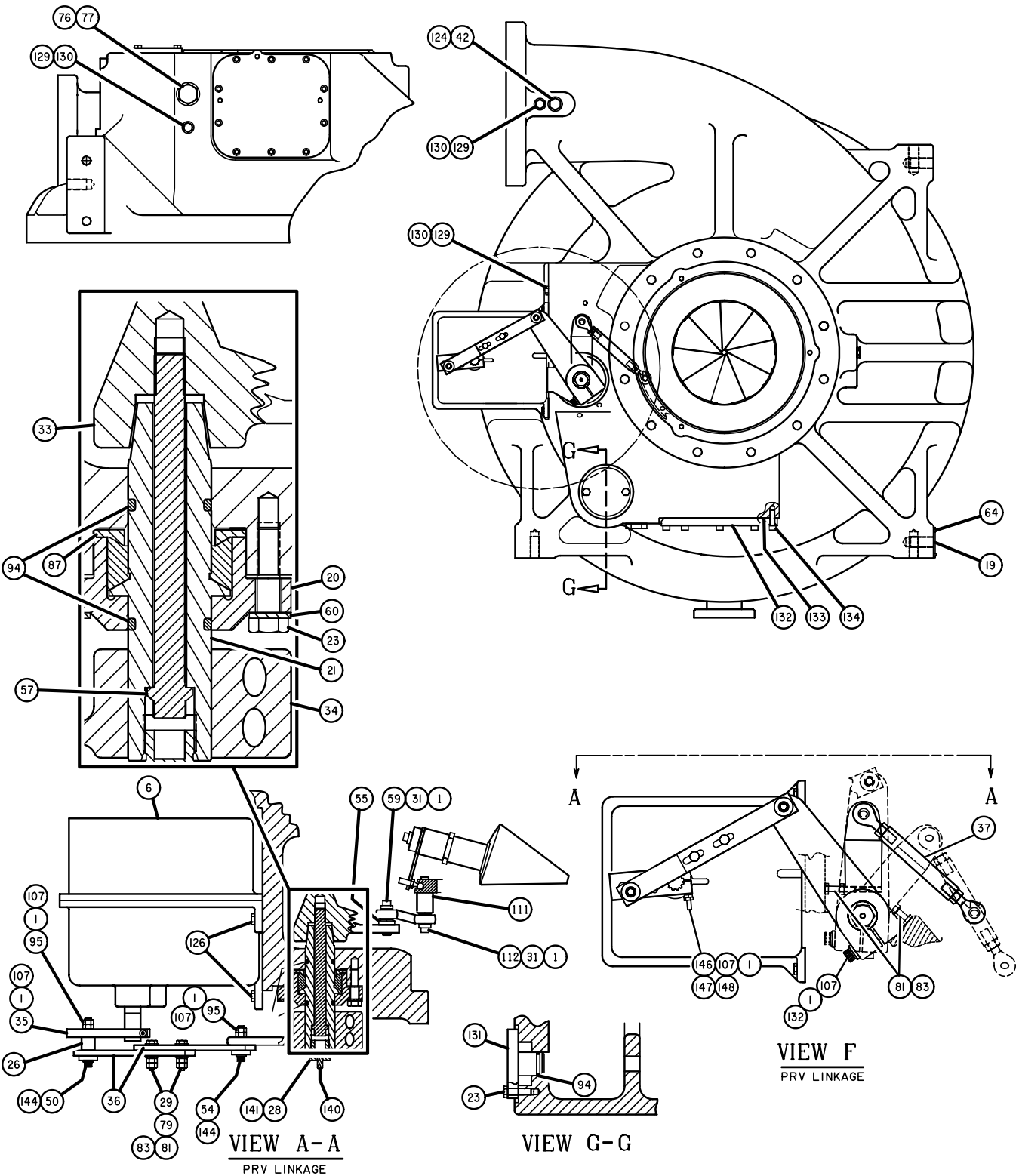


FIG. 30 – HG COMPRESSOR (65, 73)

LD12072

HG COMPRESSOR

MODELS HG 65, 73 W/ VGD

ITEM	DESCRIPTION	HG 65		HG 73	
		QTY.	PART NUMBER	QTY.	PART NUMBER
001	PRIMER, LOCQUIC GRADE N	0.142	013 01753 000	0.142	013 01753 000
*002	BEARING, H.S. FRONT HG 65-73	1	064 50618 000	1	064 50618 000
003	PLUG, PIPE FLUSH TYPE HEX	3	023 21738 000	3	023 21738 000
004	HHCS, 0.375-16 X 0.875 GR 5 BL	6	021 01470 000	6	021 01790 000
006	WIRING, PRV MOTOR ACTUATOR	2	375 49340 103	2	375 49340 103
007	ORIFICE SET SCREW	1	064 51402 000	1	064 51402 000
*008	BEARING, H.S. REAR HG 65-73	1	064 50619 000	1	064 50619 000
*009	BEARING, L.S. REAR HG 65-73	1	064 50621 000	1	064 50621 000
*010	BEARING, L.S. FRONT HG 65-73	1	064 50620 000	1	064 50620 000
*011	BEARING, THRUST H.S.	1	029 20900 002	1	029 20900 002
012	SCREW, CAP 12PT HD 3/8	6	021 11148 000	6	021 11148 000
*013	COLLAR, THRUST H.S.	1	064 47904 000	1	064 47904 000
*014	COLLAR, THRUST L.S.	1	064 47770 000	1	064 47770 000
015	COLLAR, IMPELLER CLAMPING	1	064 48123 000	1	064 48123 000
016	RETAINER, B.P. SEAL WASHER	1	064 50404 000	1	064 50404 000
017	BEARING, H.S. REVERSE THRUST	1	029 20898 003	1	029 20898 003
†018	SEAL, O-RING 8 ID X 8-1/4 OD X	1	028 12255 000	1	028 12255 000
019	NAMEPLATE, PATENT	1	029 13270 002	1	029 13270 002
020	COVER, PRV SHAFT CONTROL	2	064 48861 000	2	064 48861 000
021	SHAFT, CONTL PREROT DEVICE	1	364 50631 000	1	364 50631 000
022	SLEEVE, FLARE HYDRAULIC 3/8 OD	2	023 10001 000	2	023 10001 000
023	HHCS, 0.375-16 X 1.500 GR 5 ZN	4	021 18901 000	4	021 18901 000
024	WASHER, SPRING HG 65-73	1	064 50405 000	1	064 50405 000
025	PLUG, HEX HD 1-1/16	1	023 18295 000	1	023 18295 000
026	SPACER, .50 LG X .33 ID X .63OD	1	064 50611 000	1	064 50611 000
027	ORIFICE, HS OIL FEED	1	064 48034 000	1	064 48034 000
029	SEALER, GASKET ELIMINATOR	0.2	013 02827 000	0.2	013 02827 000
030	NUT, FLARE HYDRAULIC 3/8 OD	2	023 09673 000	2	023 09673 000
031	SEALER, GRADE AVV LOCTITE 086	0.008	013 01671 000	0.008	013 01671 000
032	SEALER, REFRIGERANT PIPE	0.008	013 02894 000	0.008	013 02864 000
033	LEVER, PRV INTERNAL 65-73	1	064 50726 000	1	064 50726 000
034	LEVER, PRV EXTERNAL	2	064 50613 000	2	064 50613 000
035	ARM, PRV MOTOR H 65-104	1	064 50614 000	1	064 50614 000
036	LINK, EXTERNAL PRV & MOT T108	2	064 28261 000	2	064 28261 000
037	ROD, ADJUSTABLE PRV & VGD	2	364 51753 700	2	364 51753 700
038	PROBE, PROXIMITY	1	025 40496 000	1	025 40496 000
039	PLUG, HEX HD 7/16	1	023 18279 000	1	023 18279 000
040	RETAINER, BRG S STAGE TURBO	3	064 46886 000	3	064 46886 000
041	PLUG, PIPE 1/4 HEX SOCKET	2	023 01973 000	2	023 01973 000
042	PIN, SLOT SPG 1/4 X 3/4	1	029 04750 000	1	029 04750 000
043	CONNR, FLARE HYDRAULIC 1/4 OD	1	023 09668 000	1	023 09668 000
045	CONNR, FLA M X M 3/8 OD FLA	1	023 20853 000	1	023 20853 000
†046	SEAL, O-RING .351 ID X	1	028 13832 000	1	028 13832 000
047	ELBOW, CINCH 3/8 TUBE X	1	023 22141 000	1	023 22141 000
048	STUD, CONTS THD 5/8-11 UNC-3A	2	021 31782 000	2	021 31782 000

* Included in Bearing Kit † Included in O-Ring Kit

JOHNSON CONTROLS

HG COMPRESSOR

MODELS HG 65, 73 W/ VGD

ITEM	DESCRIPTION	HG 65		HG 73	
		QTY.	PART NUMBER	QTY.	PART NUMBER
049	NUT, HEX 5/8 -11 UNC-2B	2	021 17659 000	2	021 17659 000
†051	SEAL, O-RING 2-9/16 ID X 2-3/4	3	028 11976 000	3	028 11976 000
†052	SEAL, O-RING NEOPRENE	1	028 12961 001	1	028 12961 001
053	ELBOW, FLARE HYDRAULIC 3/8 OD	3	023 18920 000	3	023 18920 000
054	SPACER, FLANGED, PRV & VGD	4	064 50612 000	4	064 50612 000
055	FILLPIECE, PREROT DEVICE	2	064 10821 000	2	064 10821 000
057	SCREW, CAP 12 PT HD 1/2	1	021 11998 000	1	021 11998 000
058	SCREW, CAP 12 PT HD 1/2	3	021 11515 000	3	021 11515 000
059	SCREW, CAP 12PT HD 3/8	2	021 17618 000	2	021 17618 000
060	BRACKET, SUPPORT LOWER PRV	1	064 48851 000	1	064 48850 000
061	SCREW, CAP 12 PT HD 1/4	3	021 11505 000	3	021 11505 000
062	TUBE, TEE-DRAIN	1	064 51462 000	1	064 51462 000
063	NP, DATA	1	029 21398 000	1	029 21398 000
064	SCREW, DRIVE TY U #4 X 1/4	8	021 03720 000	8	021 03720 000
065	WASHER, PLAIN CLIPPED HARDENED	40	021 17593 000	40	021 17593 000
066	SCREW, CAP 12PT HD 5/8	38	021 11553 000	38	021 11553 000
067	SCREW, CAP FLAT SOC HD 3/8	2	021 13856 000	2	021 13856 0000
068	CONNR, CINCH 3/8 TUBE X	2	023 06801 000	2	023 06801 000
069	SCREW, CAP HEX 3/8 -16UNC	2	021 01477 000	2	021 01477 000
070	EPOXY STICK, MAGIC BOND	0.008	044 03420 000	0.008	044 03420 000
071	HHCS, 0.375-16 X 2.000 GR 5 BL	3	021 01510 000	3	021 01510 000
072	PLATE, MTG	1	064 47998 000	1	064 47988 000
073	HEADER, SPRAY	1	064 48003 000	1	064 48003 000
074	SCREW, SET HEX SOC CUP PT	1	021 03910 000	1	021 03910 000
075	WASHER, PLAIN 13/32 ID X 13/16	2	021 01274 000	2	021 01274 000
076	PLUG, HEX HD 1-5/16	1	023 18282 000	1	023 18282 000
†077	SEAL, O-RING NEOPRENE	1	028 12961 008	1	028 12961 008
078	SCREW, SET HEX SOC CUP PT	1	021 00774 000	1	021 00774 000
079	LOCKWASHER, HEL SPG 1/4 REG	2	021 05267 000	2	021 05267 000
081	NUT, HEX 1/4 - 20 UNC-2B	6	021 00450 000	6	021 00450 000
082	PIN, DOWEL TAPPED 3/8 DIA	3	029 18459 000	3	029 18459 000
083	HHCS, 0.250-20 X 1.250 GR 5 BL	4	021 01392 000	4	02101392 000
084	SCREW, SHOULDER SOC HD	6	021 17557 000	6	021 17557 000
†085	SEAL, O-RING .301 ID X .064	1	028 12209 000	1	028 12209 000
†086	SEAL, O-RING 5/16 ID X	2	028 12513 000	2	028 12513 000
087	GASKET, 2-1/2 OD X 2 ID X 1/32	2	064 47751 000	2	064 47751 000
088	CONN, OIL DRAIN HG 65-73	1	364 50633 000	1	364 50633 000
089	VALVE, CHECK OIL 1/8 NPTE	1	022 04444 000	1	022 04444 000
090	GREASE, POE	0.015	044 03199 000	0.015	044 03199 000
091	SEAL, DOUBLE SHAFT G & H MODEL	1	029 22428 001	1	029 22428 000
091A	C-RING, REPLACEMENT FOR SHAFT SEAL	1	028 14492 000	1	028 14492 000
†092	SEAL, O-RING 5-5/8 ID X 5-7/8	1	028 12258 000	1	028 12258 000
093	TUBE, GEAR COOLING	1	064 51249 000	1	064 51249 000
†094	SEAL, O-RING 1-1/8 ID X 1/8	4	028 12200 000	4	028 12200 000
096	PLUG, PIPE, FLUSH TYPE HEX	2	023 05366 000	2	023 05366 000

* Included in Bearing Kit † Included in O-Ring Kit

HG COMPRESSOR

MODELS HG 65, 73 W/ VGD

ITEM	DESCRIPTION	HG 65		HG 73	
		QTY.	PART #	QTY.	PART #
098	HHCS, 0.375-16 X 2.500 GR 5 BL	16	021 10037 000	16	021 10037 000
101	TUBE, .50 LG +/- .03 X 1/4 OD X	1	064 49229 000	1	064 49229 000
102	TUBE, H.S. SOL	1	064 49044 000	1	064 49044 000
*103	BEARING, L.S. THRUST HG 65-73	1	029 23760 000	1	029 23760 000
104	VALVE, STOP ANG VERTICAL	1	022 09578 000	1	022 09578 000
105	SCREW, CAP HEX SOC HD 1/4	16	021 02578 000	16	021 02578 000
106	TUBE, SHAFT SEAL OIL SUPPLY	1	364 51755 000	1	364 51755 000
107	SEALER, REMOVABLE THREAD	0.001	013 03375 000	0.001	013 03375 000
108	PIN, SLOT SPG 3/16 X 1/2	1	029 04138 000	1	029 04138 000
109	SCREW, CAP HEX 3/8 -16UNC	4	021 09071 000	4	021 09071 000
†110	SEAL, O-RING MOLDED 37.050 ID	1	028 15083 000	1	028 15083 000
111	FILLPIECE, PRETOT DEVICE	1	064 47935 000	1	064 47935 000
112	SCREW, CAP 12PT HD 3/8	1	021 11956 000	1	021 11956 000
114	STRAP, CABLE T&B L4-18-9-M	1	025 18167 000	1	025 18167 000
115	TEE, INSTM UNION 3/8 TUBE	1	023 10595 000	1	023 10595 000
116	TUBE, H.S.TEE	1	064 48215 000	1	064 48215 000
†117	SEAL, O-RING SPLICED 19.719 ID	1	028 12227 000	1	028 12227 000
†118	SEAL, O-RING 4-1/4 ID X 4-1/2	1	028 12259 000	1	028 12259 000
†119	SEAL, O-RING SPLICED 31.174 ID	1	028 15072 000	1	028 15072 000
120	SCREW, CAP HEX 1/4 -20UNC	6	021 16826 000	6	021 16826 000
121	SCREW, CAP HEX 3/8 -16UNC	13	021 14374 000	13	021 14374 000
122	ENAMEL, CARIBBEAN BLUE	0.05	013 01835 000	0.05	013 01835 000
†123	SEAL, O-RING 3-3/4 ID X 3-15/16	2	028 15074 000	2	028 15074 000
124	SEAL, O-RING NEOPRENE	1	028 12961 006	1	028 12961 000
125	LEVER, INTERNAL VGD	1	064 51215 000	1	064 51215 000
127	NUT, HEX 5/16 - 18UNC-2B	8	021 02523 000	8	021 02523 000
128	SCREW, CAP 12PT HD 3/8	10	021 11141 000	10	021 11141 000
129	SCREW, CAP 12PT HD 5/16	1	021 12197 000	1	021 12197 000
130	SCREW, CAP 12PT HD 5/16	2	021 11142 000	2	021 11142 000
131	ARM, MOTOR	1	064 50856 000	1	064 50856 000
132	SCREW, CAP 12 PT HD 1/2	4	021 11926 000	4	021 11926 000
133	SCREW, CAP 12 PT HD 1/2	1	021 31600 000	1	021 31600 000
134	NUT, HEX MACH SCR #10 - 32	4	021 08670 000	4	021 08670 000
135	LOCKWASHER, HEL SPG #10 REG	2	021 05265 000	2	021 05265 000
136	SCREW, CAP HEX SOC HD #10-32	2	021 31182 000	2	021 31182 000
137	DOWEL, PIN STR	2	029 24130 000	2	029 24130 000
138	PLUG, PRV ASSEMBLY	2	064 50632 000	2	064 50632 000
†139	SEAL, O-RING NEOPRENE	2	028 12961 005	2	028 12961 000
†140	SEAL, O-RING 8.234 ID X	1	028 15078 000	1	028 15078 000
141	FILLPIECE, PRE-ROTATION DEVICE	1	064 50765 000	1	064 50765 000
142	PLATE, COVER HANDHOLE	1	064 50139 000	1	064 50139 000
143	SCREW, CAP 12 PT HEAD 3/8	1	021 17553 000	1	021 17553 000
144	SCREW, CAP 12 PT HD 1/2	1	021 31125 000	1	021 31125 000
145	PLUG, HEX HD 9/16	6	023 18962 000	6	023 18962 000
†146	SEAL, O-RING NEOPRENE	11	028 12961 003	11	028 12961 003

* Included in Bearing Kit † Included in O-Ring Kit

JOHNSON CONTROLS

HG COMPRESSOR

MODELS HG 65, 73 W/ VGD

ITEM	DESCRIPTION	HG 65		HG 73	
		QTY.	PART #	QTY.	PART #
147	LINK, EXTERNAL VGD	1	064 50951 000	1	064 50951 000
148	PLUG, HEX HD 3/4	2	023 18280 000	2	023 18280 000
†149	SEAL, O-RING NEOPRENE	4	028 12961 004	4	028 12961 004
151	SHAFT, CONTROL PREROT DEVICE	1	364 51220 000	1	364 51220 000
152	BUSHING, GARLOCK 16DU12	1	029 24100 000	1	029 24100 000
153	SCREW, CAP 12PT HD 5/16	1	021 12202 000	1	021 12202 000
154	SPACER, HAH, HG - 65-73 VGD	1	064 51050 000	1	064 51050 000
155	TUBE, L.S. OIL DRAIN	1	064 51221 000	1	064 51221 000
156	TUBE, OIL DRAIN	1	064 51224 000	1	064 51224 000
157	ELBOW, CINCH 90 DEG 1/2 OD TUBE	1	023 17687 000	1	023 17687 000
158	TEE, CINCH 1/2 TUBE X 1/2 TUBE	1	023 22396 000	1	023 22396 000
159	REDUCER, CINCH 1/2 X 3/8 OD	1	023 22397 000	1	023 22397 000
160	CONNR, CINCH 1/2 OD TUBE X	1	023 18044 000	1	023 18044 000
161	TUBE, 3/8 OD X .049 X 1-1/2 LG	1	064 51463 000	1	064 51463 000
162	LUB, VALVE STEM 2 OZ TIN	0.02	360 00125 000	0.02	360 00125 000
163	WASHER, PLAIN 9/32 ID X 5/8 OD	4	021 05165 000	4	021 05165 000
201	IMPELLER	1	064 50398 001	1	064 50399 001
202	PLATE, NOZZLE BASE	1	064 50249 000	1	364 50795 001
203	PLATE, DIFFUSER	1	064 50400 000	1	064 50401 000
204	DEVICE, PRV	1	364 51450 001	1	364 51450 002
205	WASHER, SPRING	1	064 50323 000	1	064 50324 000
206	RING, EYE SEAL	1	064 50341 000	1	064 50406 000
207	RETAINER, EYE SEAL	1	064 50252 000	1	064 50326 000
208	SCROLL, ROTOR HG 65 & 73 VGD	1	064 50790 000	1	064 50790 000
209	RING, BALANCE PISTON SEAL	1	064 50402 000	1	064 50403 000
210	RETAINER, EYE SEAL WASHER	1	064 50321 000	1	064 50322 000

* Included in Bearing Kit † Included in O-Ring Kit

HG COMPRESSOR **MODELS HG 65, 73 W/ VGD**

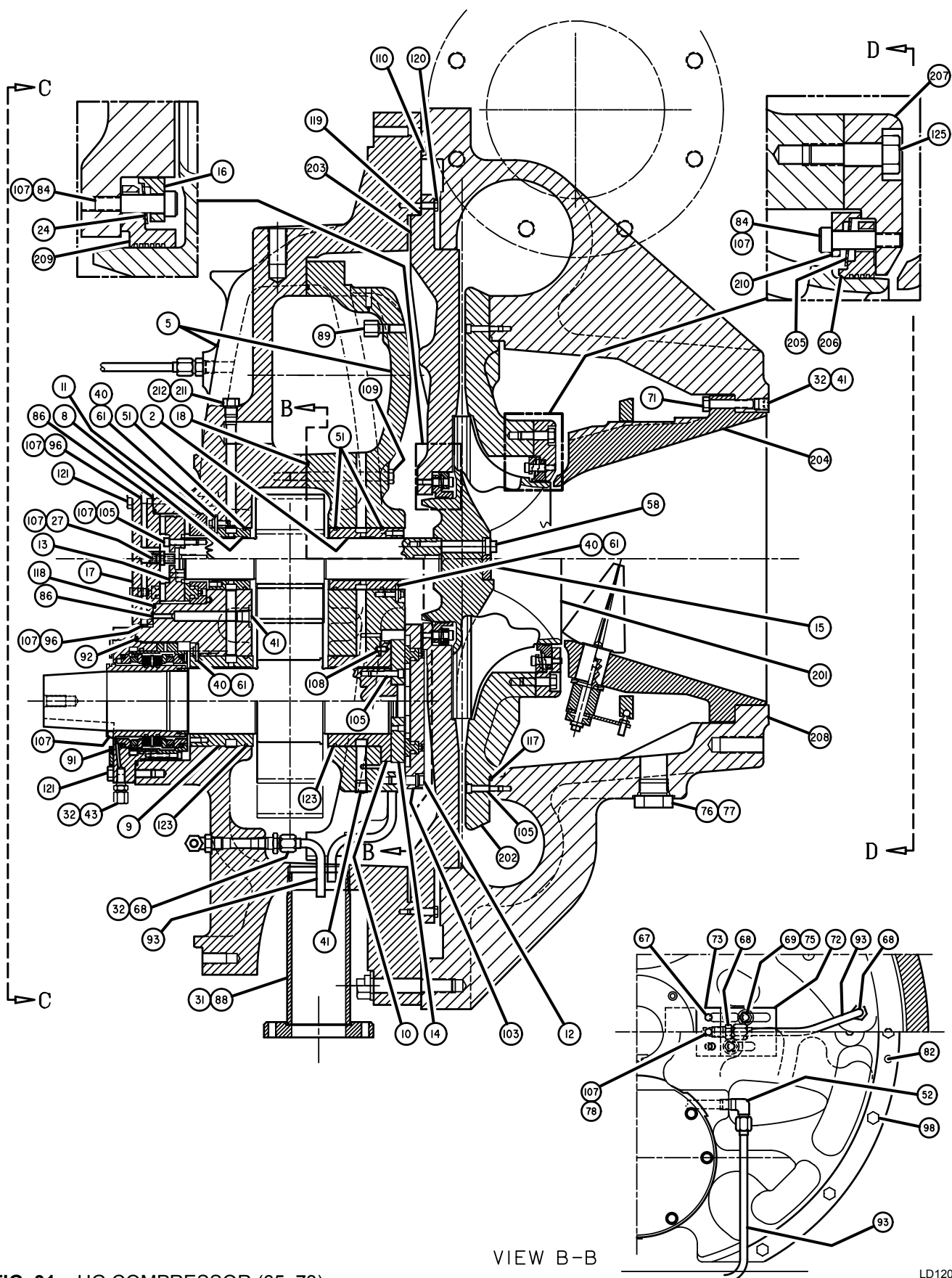


FIG. 31 – HG COMPRESSOR (65, 73)

HG COMPRESSOR
MODELS HG 65, 73 W/ VGD

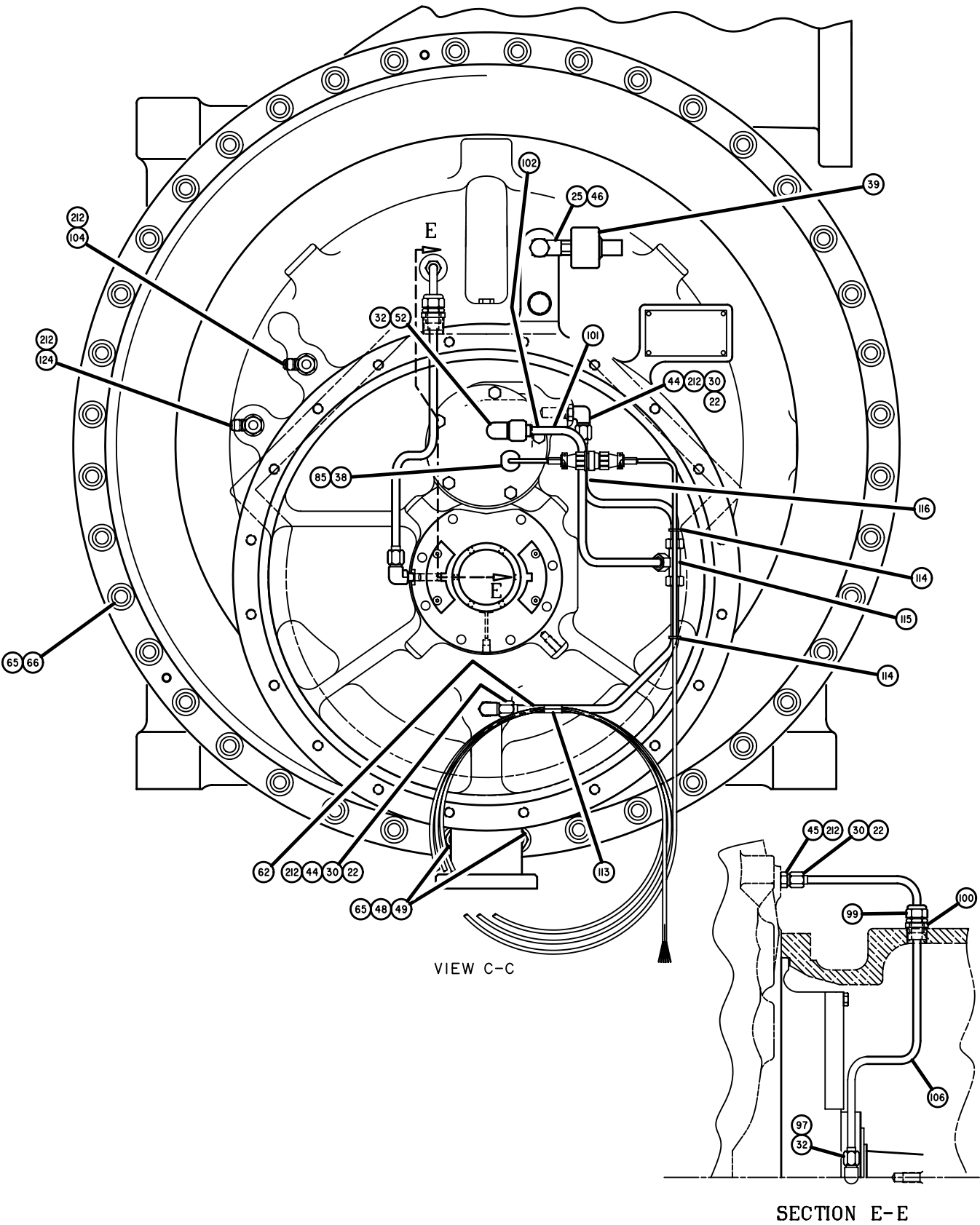


FIG. 32 – HG COMPRESSOR (65, 73)

LD12073

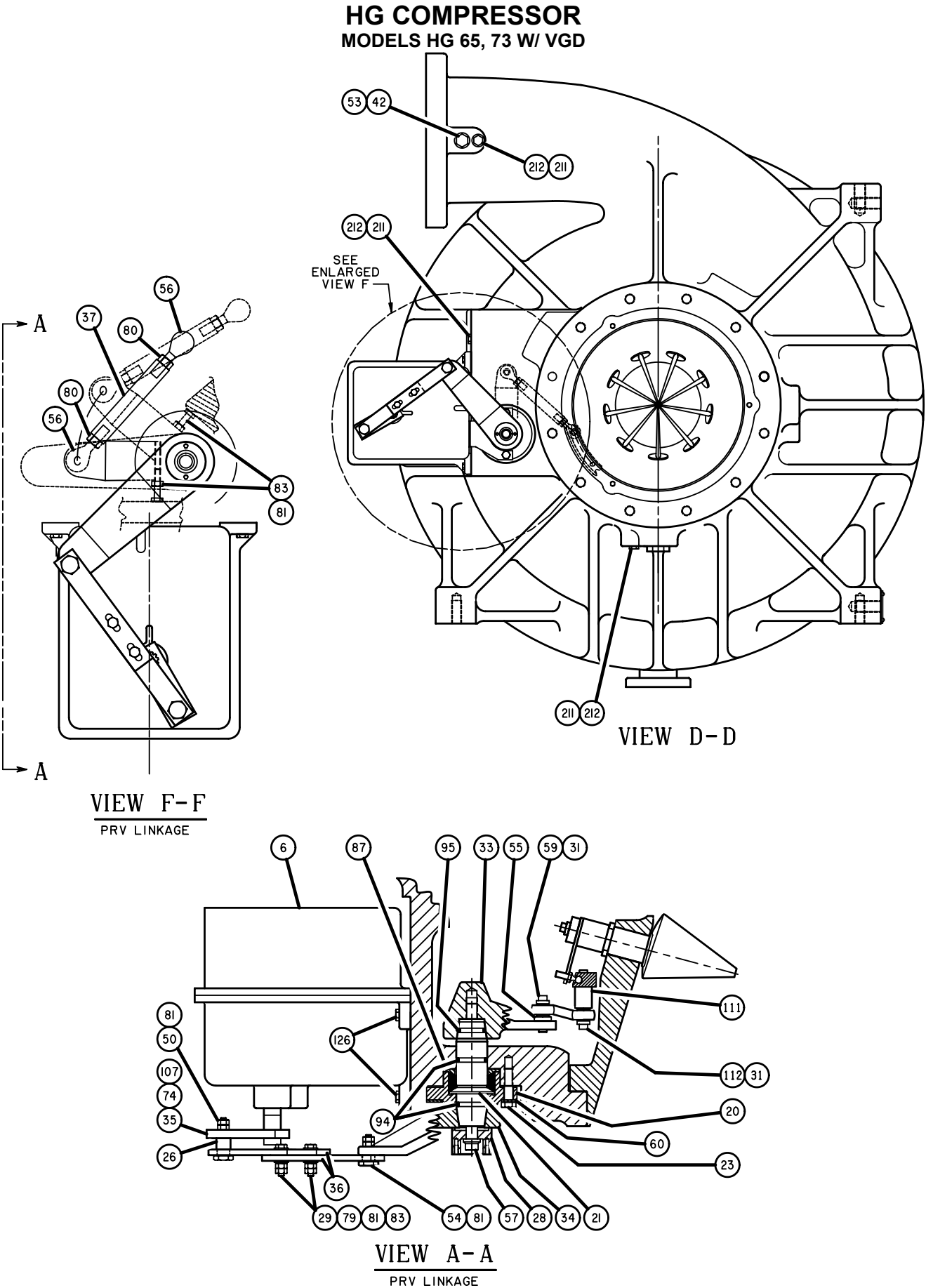


FIG. 33 – HG COMPRESSOR (65, 73)

HG COMPRESSOR
MODELS HG 65, 73 W/ VGD

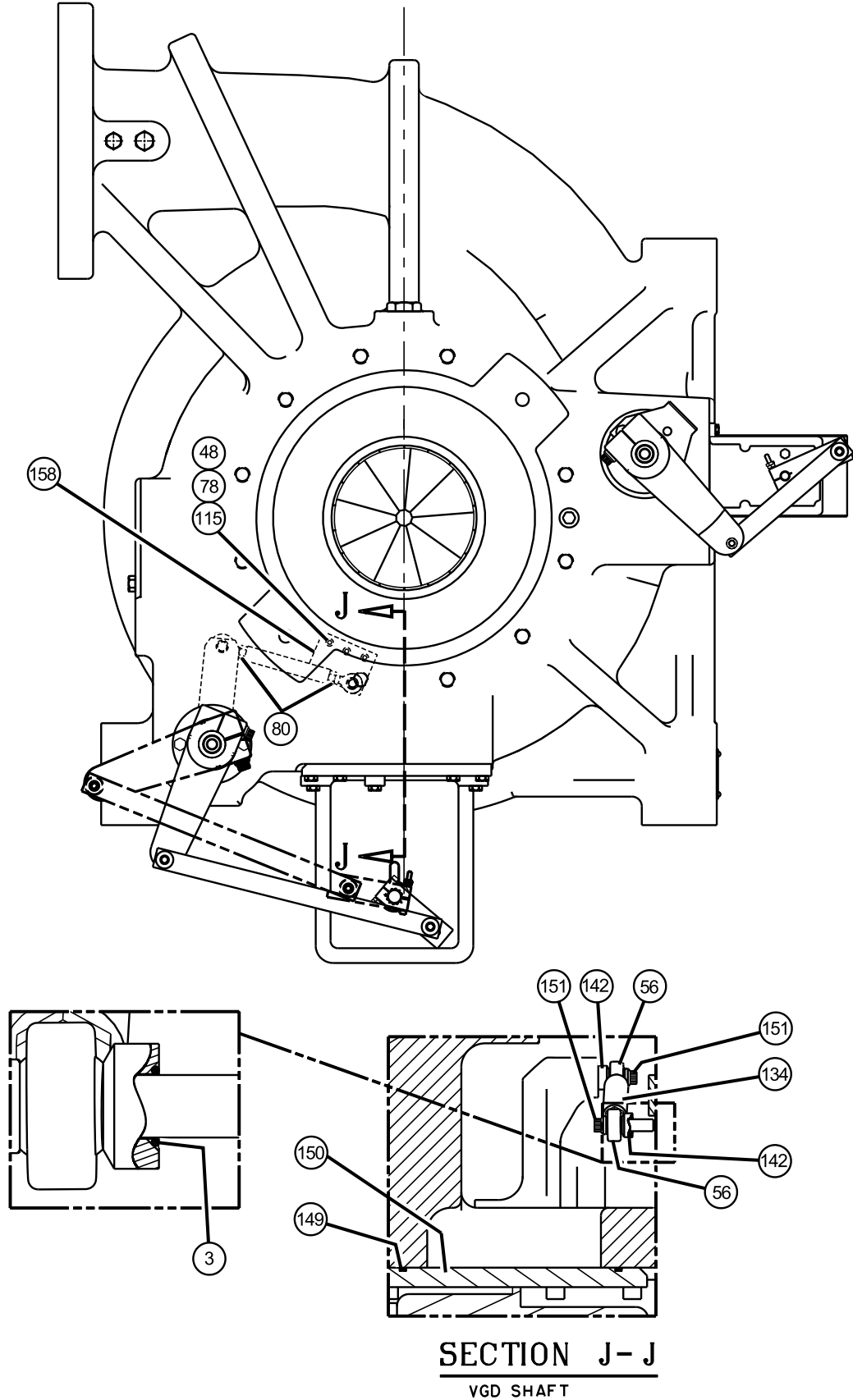


FIG. 34 – HG COMPRESSOR (HG 65, 73)

HG COMPRESSOR
MODELS HG 65, 73 W/ VGD

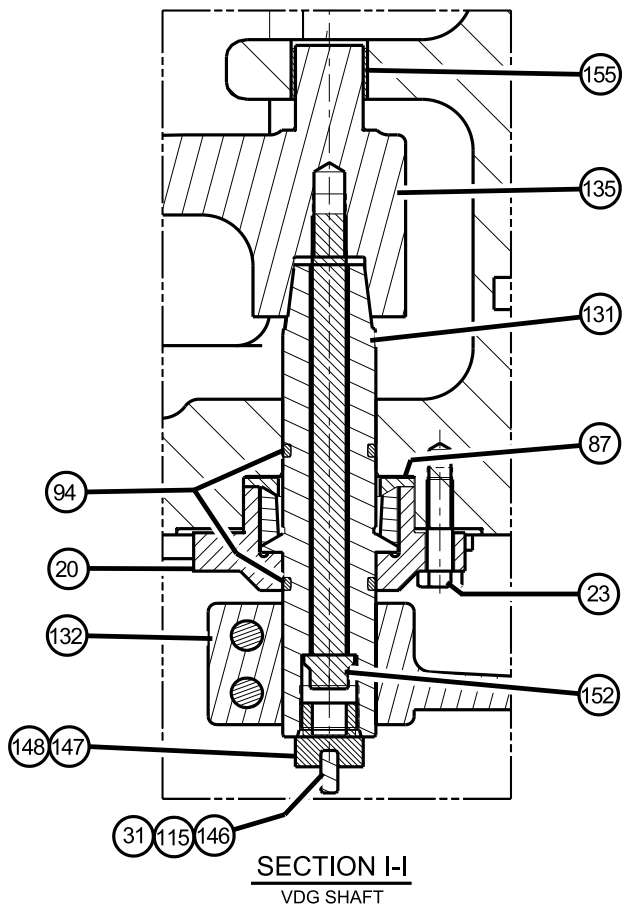
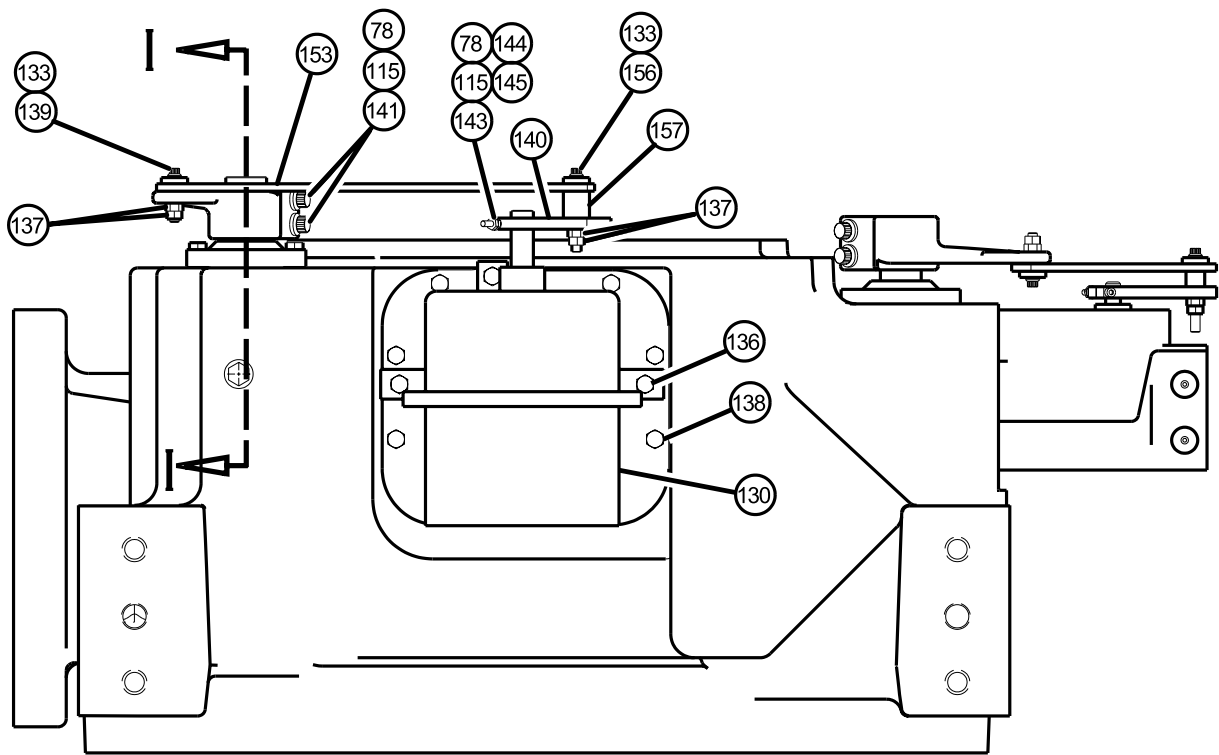


FIG. 35 – VGD DEVICE (HG 65, 73)

VGD DEVICE
MODEL HG 65, 73
PART NO. 364 50795 001

ITEM	DESCRIPTION	QTY.	COMPONENT
001	RING, DIFFUSER HAH & HG 65-73	1	064 51429 000
002	SCREW, CAP HEX SOC HD 5/16	6	021 31527 000
003	PIN, DRIVE	3	064 50767 000
004	BEARING, MCGILL CF-3/4-B	3	029 24103 000
005	NUT, HEX 3/8 - 24 UNF-2B	6	021 00474 000
006	SPACER, VGD	3	064 50758 000
007	BEARING, MCGILL CYR 1 3/8	3	029 24104 000
008	SCREW, CAP HEX SOC HD 3/8	3	021 01508 000
009	WASHER, PLAIN .384 ID X 5/8 OD	3	021 31155 000
010	SUPPORT, AXIAL BEARING	3	064 50469 000
011	BEARING, MCGILL CFE-3/4-B	3	029 24102 000
012	SCREW, CAP HEX SOC HD	6	021 19223 000
013	SCREW, CAP HEX SOC HD 5/16	1	021 31326 000
014	WASHER, PLAIN HARDENED 3/8 ID	2	021 31323 000
015	WASHER, CONICAL DISK	12	021 31324 000
016	BUSHING, GARLOCK 16DU8	6	029 24555 000
017	SCREW, CAP HEX SOC HD 1/4	1	021 02578 000
018	SCREW, SET HEX SOCKET 1/4	1	021 31328 000
019	PIN, TENSIONER VGD DRIVE RING	1	064 50830 000
020	BLOCK, TENSIONER VGD DRIVE RING	1	064 50824 000
021	SCREW, SHOULDER SOC HD 5/16	1	021 31322 000
023	PRIMER, LOCQUIC GRADE N	0.025	013 01753 000
024	SEALER, REMOVABLE THREAD	0.01	013 01678 000
025	SHIM, BRACKET VGD SUPPORT BLOCK	6	064 51137 000
026	WASHER, PLAIN 13/32 ID X 13/16	3	021 01274 000
027	RING, DRIVE HAH & HG 65-73 VGD	1	064 51430 000

VGD DEVICE
MODEL HG 65, 73

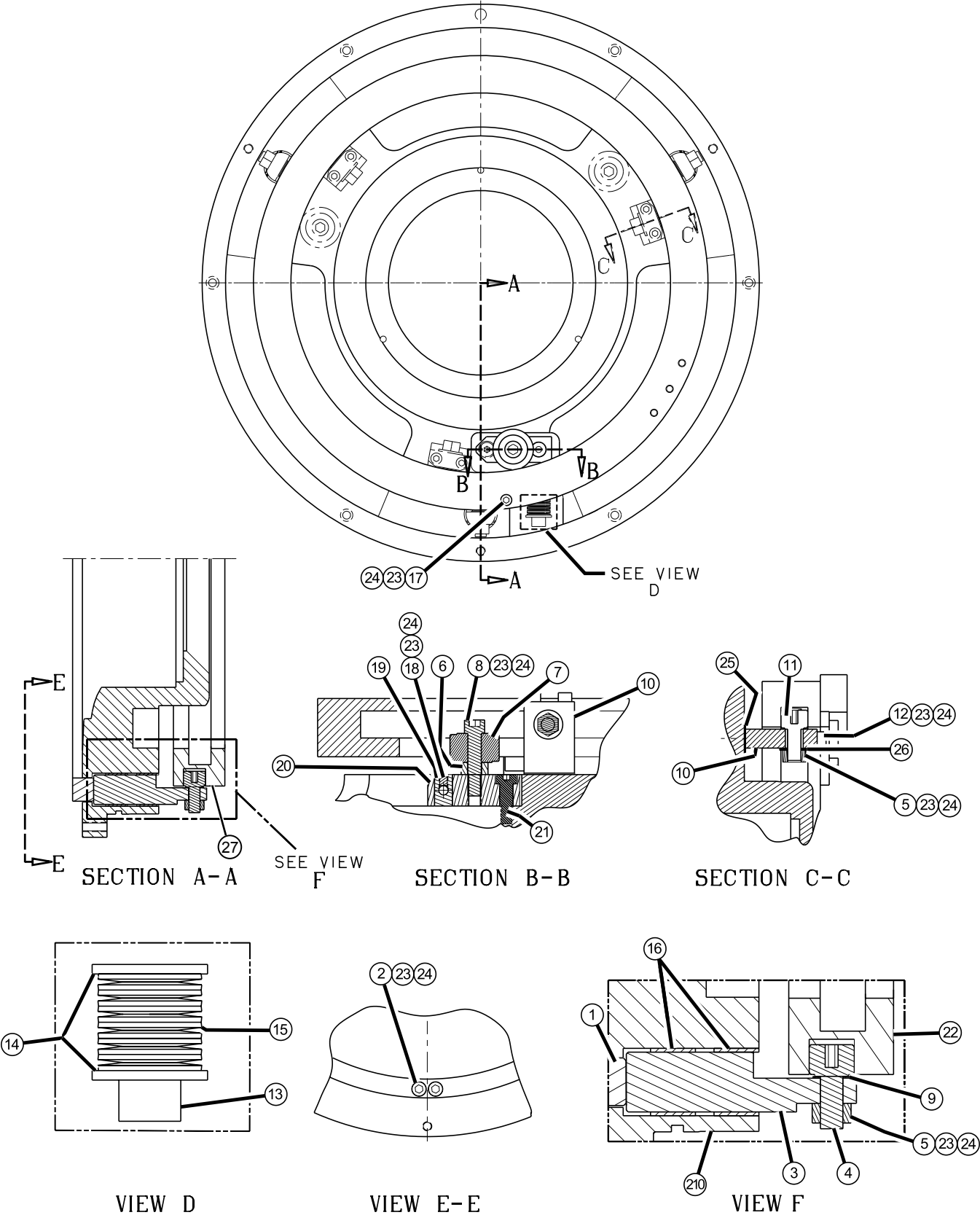
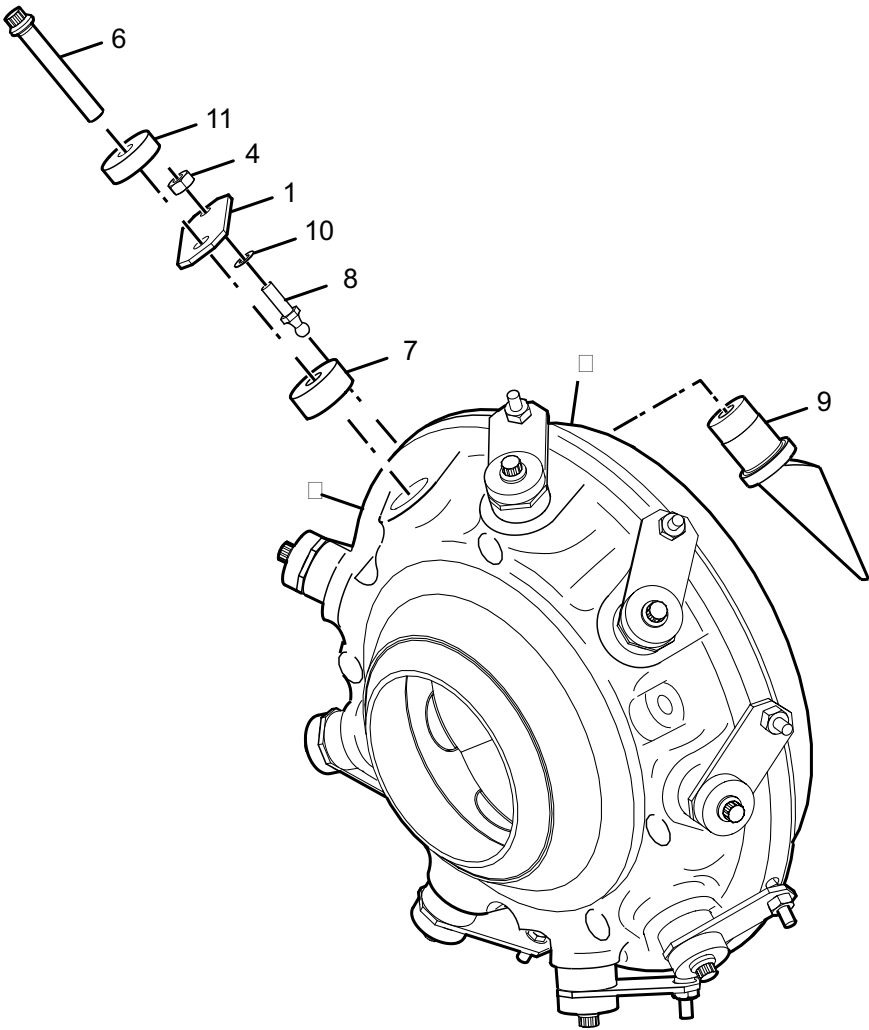


FIG. 36 – VGD DEVICE (HG 65, 73)

DEVICE PRE-ROTATION
MODELS HG 65, 73



LD08907

FIG. 37– DEVICE PRE-ROTATION (HG 65, 73)

ITEM	DESCRIPTION	HG 65		HG 73	
		QTY.	PART NUMBER	QTY.	PART NUMBER
	COMPLETE PRV DEVICE		364 51450 001		364 51450 002
001	ARM, VANE PRV	9	064 47952 000	9	064 47952 000
002	HOUSING, PRV	1	064 50678 000	1	064 50679 000
004	NUT, SELF LOCK 1/4 - 28UNF	9	021 12943 000	9	021 12943 000
005	RING, VANE DRIVING	1	064 50370 000	1	064 50370 000
006	SCREW, CAP 12 PT HD 3/8	9	021 17245 000	9	021 17245 000
007	SPACER, ARM PRV	9	064 49712 000	9	064 49712 000
008	STUD, BALL 1/4 -28 UNF	9	029 15924 000	9	029 15924 000
009	VANE, PRE-ROTATION	9	064 51413 000	9	064 51413 000
010	WASHER, PLAIN LT 17/64 ID 1/2	18	021 11973 000	18	021 11973 000
011	WASHER, SPL 25/64 ID	9	064 09289 000	9	064 09289 000

HG COMPRESSOR

MODELS HA 81, 90 W/O VGD

ITEM	DESCRIPTION	HA 81		HA 90	
		QTY.	PART NUMBER	QTY.	PART NUMBER
001	SCREW, SET HEX SOC CUP PT	1	021 00774 000	1	021 00774 000
*002	BEARING, H.S. FRONT	1	064 48223 000	1	064 48223 000
003	SCREW, CAP HEX 3/8 -16UNC	3	021 01483 000	3	021 01483 000
†004	SEAL, O-RING .301 ID X .064	1	028 12209 000	1	028 12209 000
006	WIRING, PRV MOTOR ACTUATOR	1	375 49340 103	1	375 49340 103
†007	SEAL, O-RING 5/16 ID X	2	028 12513 000	2	028 12513 000
*008	BEARING, H.S. REAR	1	064 48207 000	1	064 48207 000
*009	BEARING, L.S. REAR	1	064 47858 000	1	064 47858 000
*010	BEARING, L.S. FRONT	1	064 47857 000	1	064 47857 000
*011	BEARING, THRUST H.S.	1	029 20896 002	1	029 20896 002
*013	COLLAR, THRUST H.S.	1	064 47855 000	1	064 47855 000
*014	COLLAR, THRUST L.S.	1	064 47856 000	1	064 47856 000
015	COLLAR, IMPELLER CLAMPING	1	064 47853 000	1	064 47853 000
016	ELBOW, CINCH 3/8 TUBE X	1	023 22141 000	1	023 22141 000
017	BEARING, H.S.REVERSE THRUST	1	029 20895 003	1	029 20895 003
†018	SEAL, O-RING 10-1/2 ID X 1/8	1	028 12226 000	1	028 12226 000
019	NAMEPLATE, PATENT	1	029 13270 002	1	029 13270 002
020	COVER, PRV SHAFT CONTROL	1	064 48861 000	1	064 48861 000
021	SHAFT, CONTL PREROT DEVICE	1	364 50631 000	1	364 50631 000
023	HHCS, 0.375-16 X 1.500 GR 5 ZN	4	021 18901 000	4	021 19801 000
025	SCREW, CAP FLAT SOC HD 3/8	2	021 13856 000	2	021 13856 000
026	SPACER, .50 LG X .33 ID X .63OD	1	064 50611 000	1	064 50611 000
027	ORIFICE, H.S. OIL FEED	1	064 49203 000	1	064 49203 000
028	DOWEL, PIN STR	1	029 24130 000	1	029 24130 000
029	WASHER, PLAIN 9/32 ID X 5/8 OD	4	021 05165 000	4	021 05165 000
030	PLUG, HEX HD 1-1/16	1	023 18295 000	1	023 18295 000
031	CONNR, CINCH 3/8 TUBE X	2	023 06801 000	2	023 06801 000
032	SEALER, REFRIGERANT PIPE	0.008	013 02894 000	.008	013 02894 000
033	LEVER, INTERNAL	1	064 50498 000	1	064 50498 000
034	LEVER, PRV EXTERNAL	1	064 50613 000	1	064 50613 000
035	ARM, PRV MOTOR H 65-104	1	064 50614 000	1	064 50614 000
036	LINK, EXT PRV & MOT TK131	2	064 46880 000	2	064 46880 000
037	ROD, ADJUSTABLE PRV & VGD	1	364 51754 663	1	364 51754 663
038	PLUG, HEX HD 7/16	1	023 18279 000	1	023 18279 000
039	SEAL, O-RING NEOPRENE	1	028 12961 006	1	028 12961 006
040	RETAINER, BRG S STAGE TURBO	3	064 46886 000	3	064 46886 000
041	SCREW, CAP HEX 3/8 -16UNC	2	021 01477 000	2	021 01477 000
042	TUBE, L.S. OIL DRAIN	1	064 51222 000	1	064 51222 000
043	CONNR, FLARE HYDRAULIC 1/4 OD	1	023 09668 000	1	023 09668 000
044	TUBE, OIL DRAIN	1	064 51224 000	1	064 51224 000
045	WASHER, PLAIN 13/32 ID X 13/16	2	021 01274 000	2	021 01274 000
046	COVER, VGD SHAFT	1	064 51197 000	1	064 51197 000
047	SCREW, CAP 12PT HD 3/8 -	10	021 11141 000	10	021 11141 000
048	PLATE, COVER HANDHOLE	1	064 50139 000	1	064 50139 000
†049	SEAL, O-RING 8.234 ID X	1	028 15078 000	1	028 15078 000

* Included in Bearing Kit † Included in O-Ring Kit

JOHNSON CONTROLS

HG COMPRESSOR

MODELS HA 81, 90 W/O VGD

ITEM	DESCRIPTION	HA 81		HA 90	
		QTY.	PART NUMBER	QTY.	PART NUMBER
050	SCREW, CAP 12PT HD 5/16	1	021 12197 000	1	021 12197 000
051	PLUG, PIPE 1/4 HEX SOCKET	2	023 01973 000	2	023 01973 000
053	PLUG, HEX HD 3/4	2	023 18280 000	2	023 18280 000
054	SCREW, CAP 12PT HD 5/16	1	021 11142 000	1	021 11142 000
055	FILLPIECE, PREROT DEVICE	1	064 09070 000	1	064 09070 000
057	SCREW, CAP 12 PT HD 1/2	1	021 31125 000	1	021 31125 000
059	SCREW, CAP 12 PT HD 1/2	1	021 11984 000	1	021 11984 000
061	SCREW, CAP 12 PT HD 1/4	3	021 11505 000	3	021 11505 000
062	TUBE, TEE-DRAIN	1	064 51408 000	1	064 51408 000
063	SCREW, CAP HEX SOC HD 1/4	4	021 02578 000	4	021 02578 000
064	SCREW, DRIVE TY U #4 X 1/4	8	021 03720 000	8	021 03720 000
065	WASHER, PLAIN CLIPPED HARDENED	40	021 17593 000	40	021 17593 000
066	SCREW, CAP 12PT HD 5/8	38	021 11629 000	38	021 11629 000
067	STUD, CONTS THD 5/8-11 UNC-3A	2	021 31782 000	2	021 31782 000
068	NUT, HEX 5/8 -11 UNC-2B	2	021 17659 000	2	021 17659 000
070	ORIFICE, SET SCREW	1	064 51402 000	1	064 51402 000
071	SCREW, CAP HEX 3/8 -16UNC	6	021 01497 000	6	021 01497 000
073	PLATE, MTG	1	064 47998 000	1	064 47998 000
074	SCREW, CAP HEX SOC HD #10-32	1	021 31182 000	1	021 31182 000
075	HEADER, SPRAY	1	064 47999 000	1	064 47999 000
076	PLUG, HEX HD 9/16	6	023 18962 000	6	023 18962 000
†077	SEAL, O-RING NEOPRENE	11	028 12961 003	11	028 12961 003
078	TUBE, GEAR COOLING	1	064 51248 000	1	064 51248 000
079	LOCKWASHER, HEL SPG 1/4 REG	2	021 05267 000	2	021 05267 000
081	NUT, HEX 1/4 - 20 UNC-2B	6	021 00450 000	6	021 00450 000
082	PIN, DOWEL TAPPED 3/8 DIA	3	029 18459 000	3	029 18459 000
083	HHCS, 0.250-20 X 1.250 GR 5 BL	4	021 01392 000	4	021 01392 000
084	SCREW, SHOULDER SOC HD	6	021 17557 000	6	021 17557 000
085	PLUG, HEX HD 1-5/16	2	023 18282 000	2	023 18282 000
†086	SEAL, O-RING NEOPRENE	2	028 12961 008	2	028 12961 008
087	GASKET, 2-1/2 OD X 2 ID X 1/32	1	064 47751 000	1	064 47751 000
088	CONN, OIL DRAIN H 36-90	1	364 48291 000	1	364 48291 000
089	VALVE, CHECK OIL 1/8 NPTE	1	022 04444 000	1	022 04444 000
090	GREASE, POE	0.015	044 03199 000	.015	044 03199 000
092	SEAL, O-RING 6-1/2 ID X 1/8	1	028 12224 000	1	028 12224 000
†093	SCREW, CAP HEX 3/8 -16UNC	3	021 01485 000	3	021 01485 000
094	SEAL, O-RING 1-1/8 ID X 1/8	3	028 12200 000	3	028 12200 000
095	NUT, HEX 5/16 - 18UNC-2B	4	021 02523 000	4	021 02523 000
096	PLUG, PIPE, FLUSH TYPE HEX	2	023 05366 000	2	023 05366 000
098	HHCS, 0.375-16 X 2.000 GR 5 BL	16	021 01510 000	16	021 01510 000
099	EPOXY STICK, MAGIC BOND	0.008	044 03420 000	.008	044 03420 000
100	PLUG, PIPE, FLUSH TYPE HEX	3	023 21738 000	3	023 21738 000
*103	BEARING, THRUST	1	029 20839 001	1	029 20839 001
105	SCREW, CAP 12 PT HD 1/4	6	021 14108 000	6	021 14108 000
107	SEALER, REMOVABLE THREAD	0.001	013 03375 000	.001	013 03375 000

* Included in Bearing Kit † Included in O-Ring Kit

HG COMPRESSOR

MODELS HA 81, 90 W/O VGD

ITEM	DESCRIPTION	HA 81		HA 90	
		QTY.	PART NUMBER	QTY.	PART NUMBER
109	HHCS, 0.375-16 X 3.750 GR 5 BL	4	021 17556 000	4	021 17556 000
†110	SEAL, O-RING MOLDED 37.050 ID	1	028 15083 000	1	028 15083 000
111	FILLPIECE, PRV LINKAGE	1	064 47727 000	1	064 47727 000
112	SCREW, CAP 12 PT HD 1/2	1	021 11525 000	1	021 11525 000
113	ELBOW, CINCH 90 DEG 1/2 OD TUBE	1	023 17687 000	1	023 17687 000
114	TEE, CINCH 1/2 TUBE X 1/2 TUBE	1	023 22396 000	1	023 22396 000
115	REDUCER, CINCH 1/2 X 3/8 OD	1	023 22397 000	1	023 22397 000
116	CONNR, CINCH 1/2 OD TUBE X	1	023 18044 000	1	023 18044 000
117	TUBE, 3/8 OD X .049 X 2-3/8LG	1	064 51409 000	1	064 51409 000
†121	SEAL, O-RING SPLICED 32.456 ID	1	028 12569 000	1	028 12569 000
†122	SEAL, O-RING 4-7/8 ID X 1/8	1	028 12225 000	1	028 12225 000
†124	SEAL, O-RING SPLICED 34.067 ID	1	028 12248 000	1	028 12248 000
125	SCREW, CAP HEX SOC HD 1/4	6	021 17765 000	6	021 17765 000
130	SCREW, CAP HEX SOC HD 1/4	1	021 01377 000	1	021 01377 000
131	SCREW, CAP HEX 3/8 -16UNC	14	021 14374 000	14	021 14374 000
132	SEALER, GRADE AVV LOCTITE 086	0.008	013 01671 000	0.008	013 01671 000
133	PRIMER, LOCQUIC GRADE N	0.142	013 01753 000	0.142	013 01753 000
134	ENAMEL, CARIBBEAN BLUE	0.05	013 01835 000	0.05	013 01835 000
139	TEE, INSTM UNION 3/8 TUBE	1	023 10595 000	1	023 10595 000
140	TUBE, H.S.-TEE H 65-90	1	064 48218 000	1	064 48218 000
141	PROBE, PROXIMITY	1	025 40496 000	1	025 40496 000
148	STRAP, CABLE T&B L4-18-9-M	1	025 18167 000	1	025 18167 000
151	LUB, VALVE STEM 2 OZ TIN	0.02	360 00125 000	0.02	360 00125 000
152	NP, DATA	1	029 21398 000	1	029 21398 000
153	BRACKET, SUPPORT LOWER PRV	1	064 48851 000	1	064 48851 000
155	CONNR, FLA M X M 3/8 OD FLA	1	023 20853 000	1	023 20853 000
158	SEAL, DOUBLE SHAFT J MODELS	1	029 22429 001	1	029 22429 001
158A	C-RING, SHAFT SEAL REPLACEMENT	1	028 14493 000	1	028 14493 000
160	TUBE, SHAFT SEAL OIL SUPPLY	1	364 51756 000	1	364 51756 000
164	TUBE, H.S. SOL H 65-90	1	064 49047 000	1	064 49047 000
165	TUBE, .50 LG +/- .03 X 1/4 OD X	1	064 49229 000	1	064 49229 000
†167	SEAL, O-RING .351 ID X	1	028 13832 000	1	028 13832 000
168	NUT, FLARE HYDRAULIC 3/8 OD	2	023 09673 000	2	023 09673 000
169	SLEEVE, FLARE HYDRAULIC 3/8 OD	2	023 10001 000	2	023 10001 000
†170	SEAL, O-RING NEOPRENE	4	028 12961 004	4	028 12961 004
171	ELBOW, FLARE HYDRAULIC 3/8 OD	3	023 18920 000	3	023 18920 000
172	VALVE, STOP ANG VERTICAL	1	022 09578 000	1	022 09578 000
173	SPACER, FLANGED, PRV & VGD	2	064 50612 000	2	064 50612 000
174	SCREW, CAP 12 PT HD 1/2	2	021 11926 000	2	021 11926 000
175	PLUG, PRV ASSEMBLY	1	064 50632 000	1	064 50632 000
176	SEAL, O-RING NEOPRENE	1	028 12961 005	1	028 12961 005
†177	NUT, HEX MACH SCR #10 - 32	1	021 08670 000	1	021 08670 000
178	LOCKWASHER, HEL SPG #10 REG:	1	021 05265 000	1	021 05265 000
179	PIN, SLOT SPG 1/4 X 3/4	1	029 04750 000	1	029 04750 000
180	SEALER, GASKET ELIMINATOR	0.2	013 02827 000	0.2	013 02827 000

* Included in Bearing Kit † Included in O-Ring Kit

HG COMPRESSOR

MODELS HA 81, 90 W/O VGD

ITEM	DESCRIPTION	HA81		HA 90	
		QTY.	PART NUMBER	QTY.	PART NUMBER
201	IMPELLER	1	064 48155 001	1	064 48156 001
202	PLATE, NOZZLE BASE	1	064 50615 000	1	064 50616 000
203	PLATE, DIFFUSER	1	064 50315 000	1	064 50318 000
204	DEVICE, PRV	1	364 50208 002	1	364 50208 003
205	SCREW, CAP HEX SOC HD 3/8	6	021 17766 000	6	021 17766 000
206	RING, EYE SEAL	1	064 50247 000	1	064 50250 000
209	SCROLL, ROTOR VGD	1	064 50477 000	1	064 50477 000
211	SCREW, CAP 12 PT HD 1/2	6	021 17571 000	6	021 17571 000
221	RING, BALANCE PISTON SEAL	1	064 50241 000	1	064 50241 000
222	RETAINER, B.P. SEAL WASHER	1	064 50242 000	1	064 50242 000
223	WASHER, SPRING BALANCE	1	064 50243 000	1	064 50243 000
224	WASHER, SPRING EYE	1	064 50248 000	1	064 50251 000
225	RETAINER, EYE SEAL WASHER	1	064 50311 000	1	064 50314 000

* Included in Bearing Kit

† Included in O-Ring Kit

HG COMPRESSOR
MODELS HA 81, 90 W/O VGD

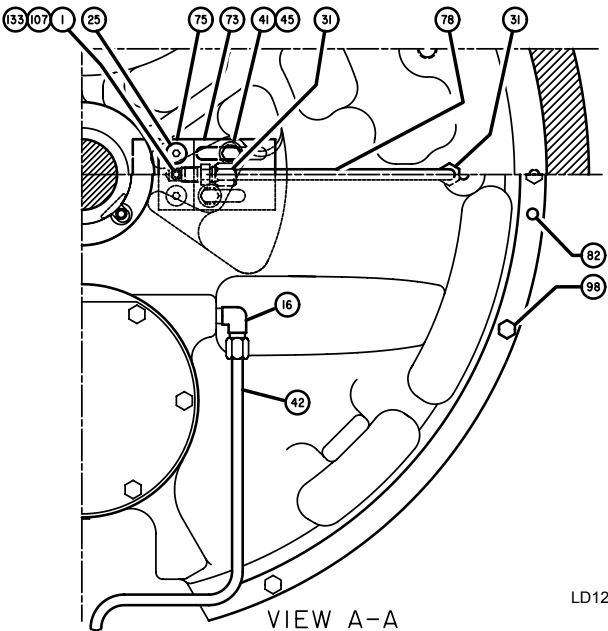
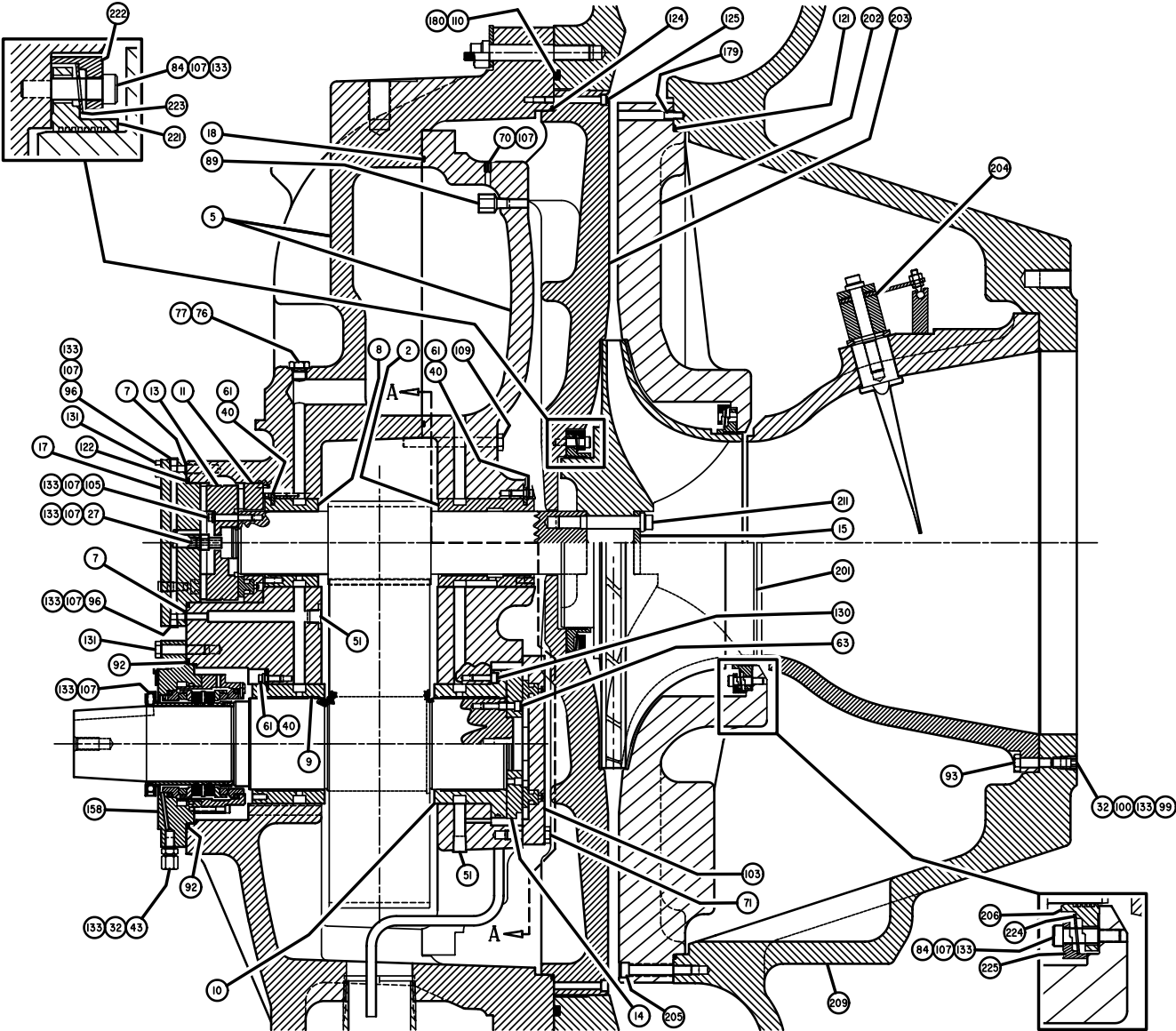


FIG. 38 – HG COMPRESSOR (81, 90)

HG COMPRESSOR
MODELS HA 81, 90 W/O VGD

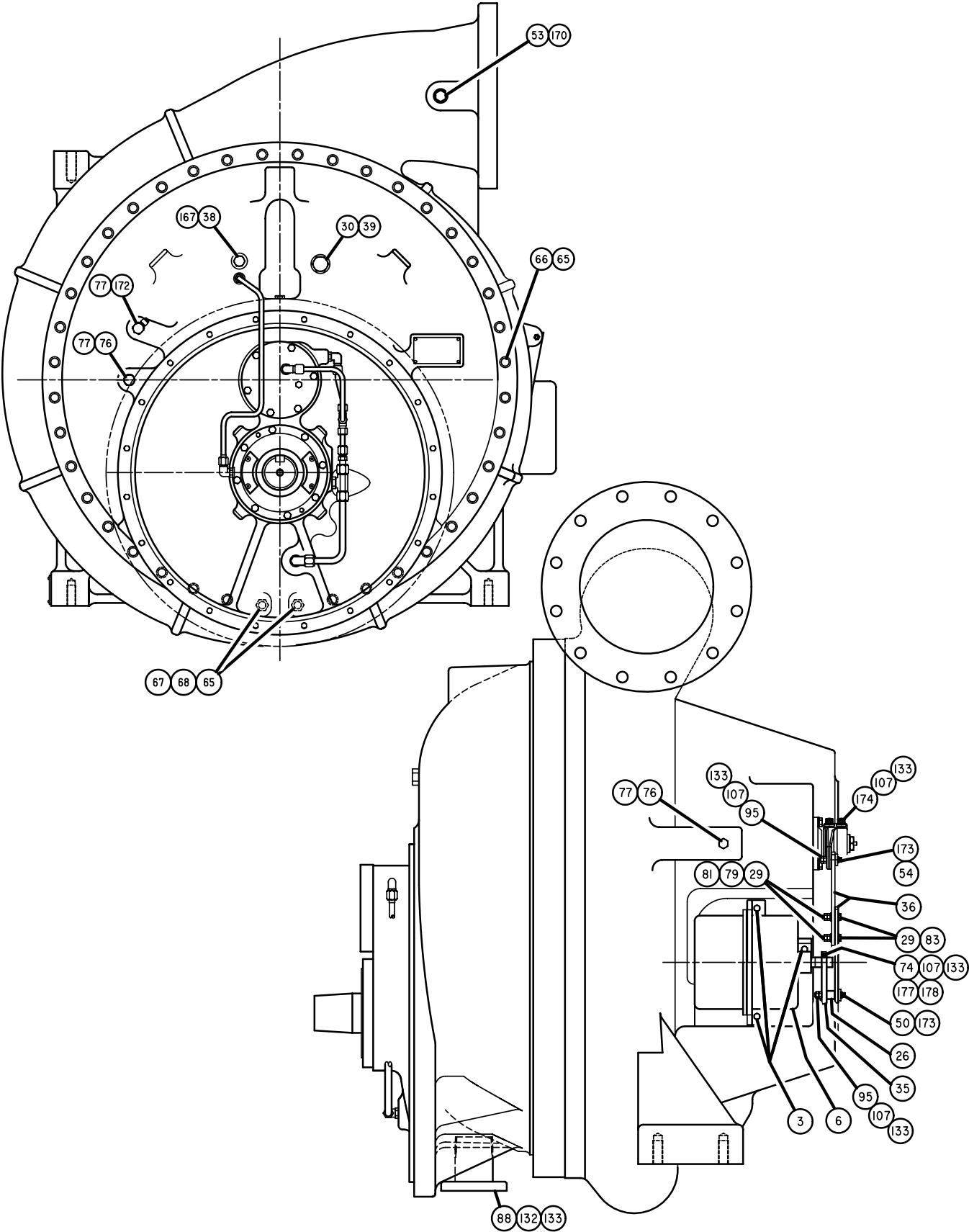


FIG. 39 – HG COMPRESSOR (81, 90)

LD12105

HG COMPRESSOR
MODELS HA 81, 90 W/O VGD

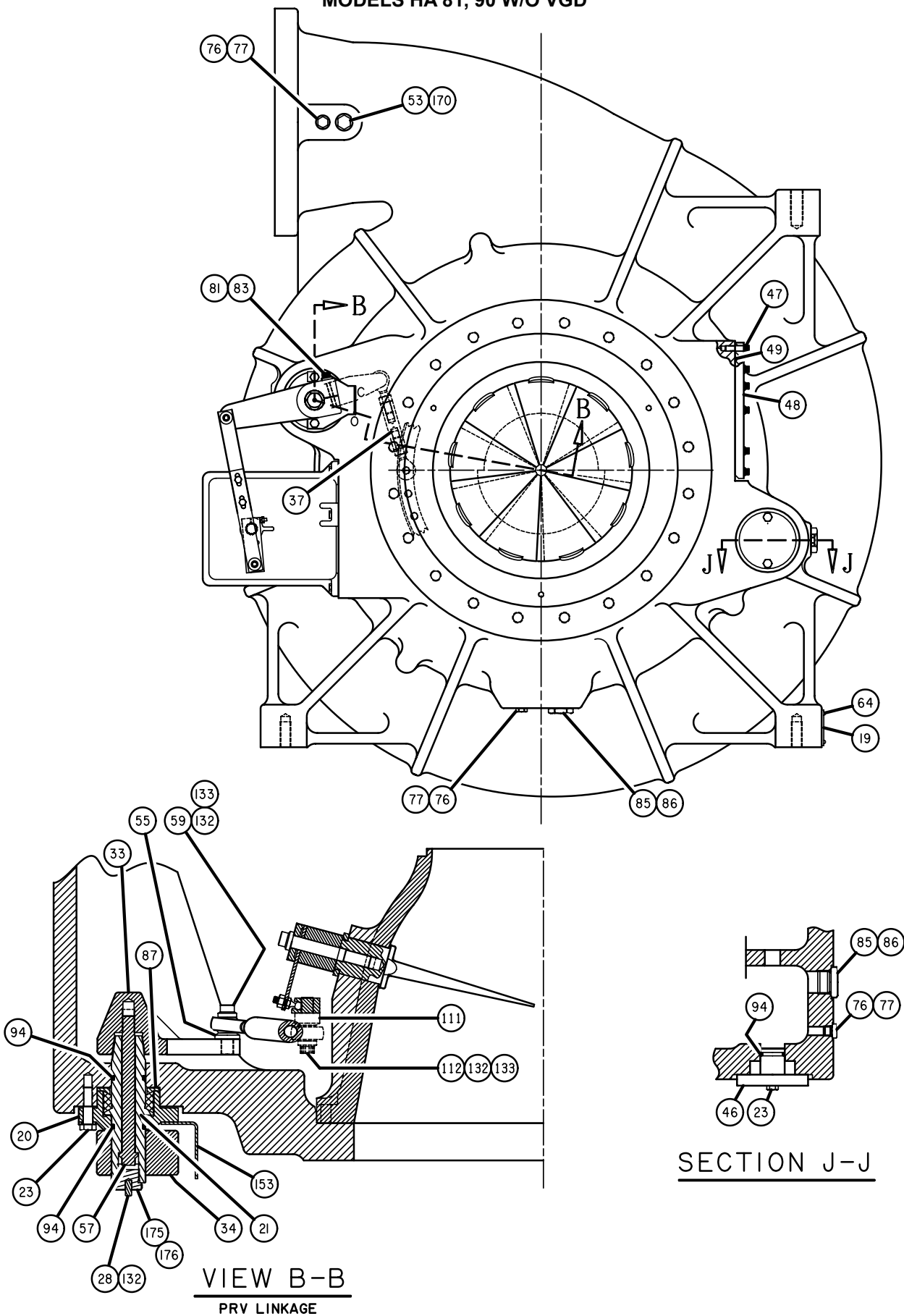


FIG. 40 – HG COMPRESSOR (81, 90)

HG COMPRESSOR
MODELS HA 81, 90 W/O VGD

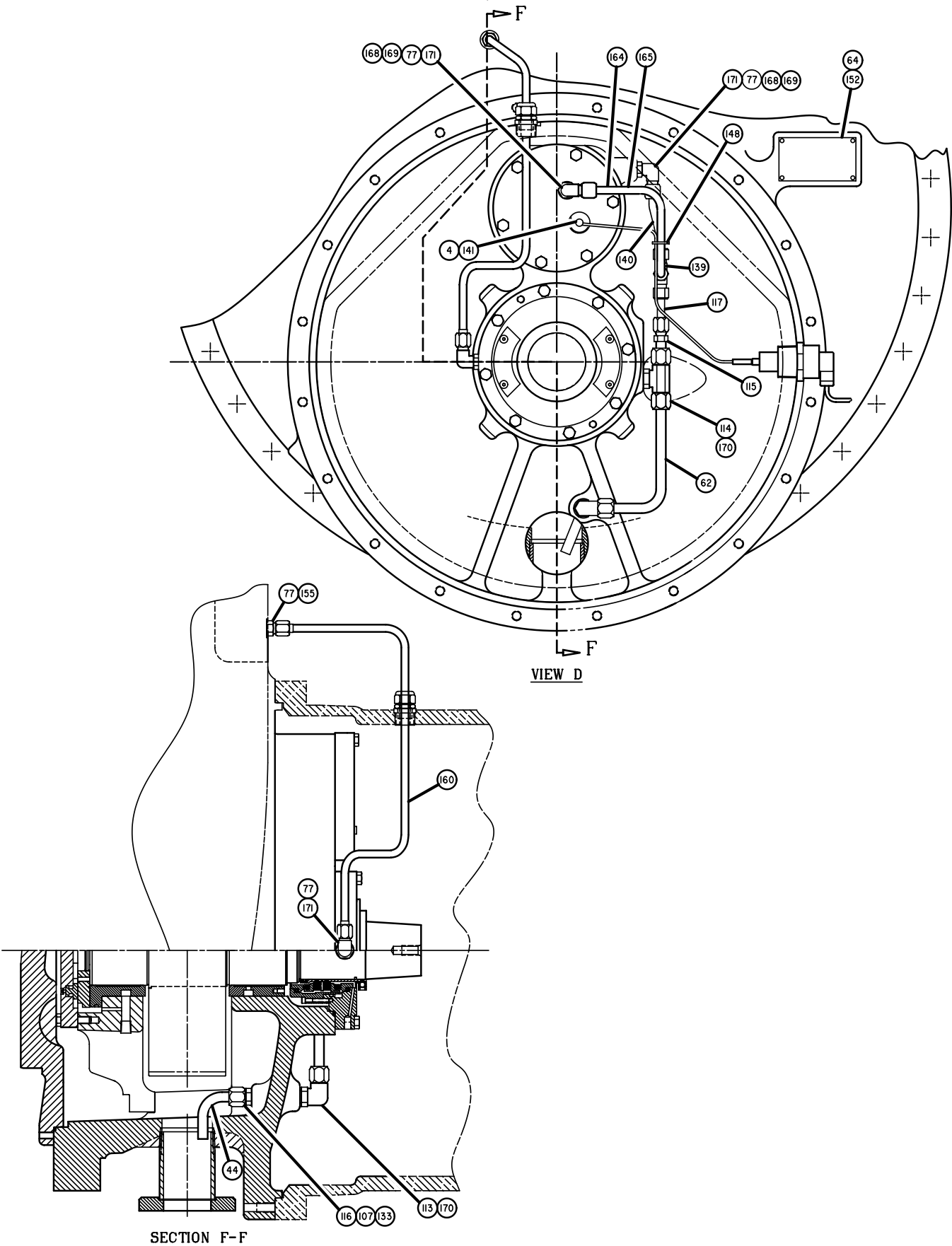
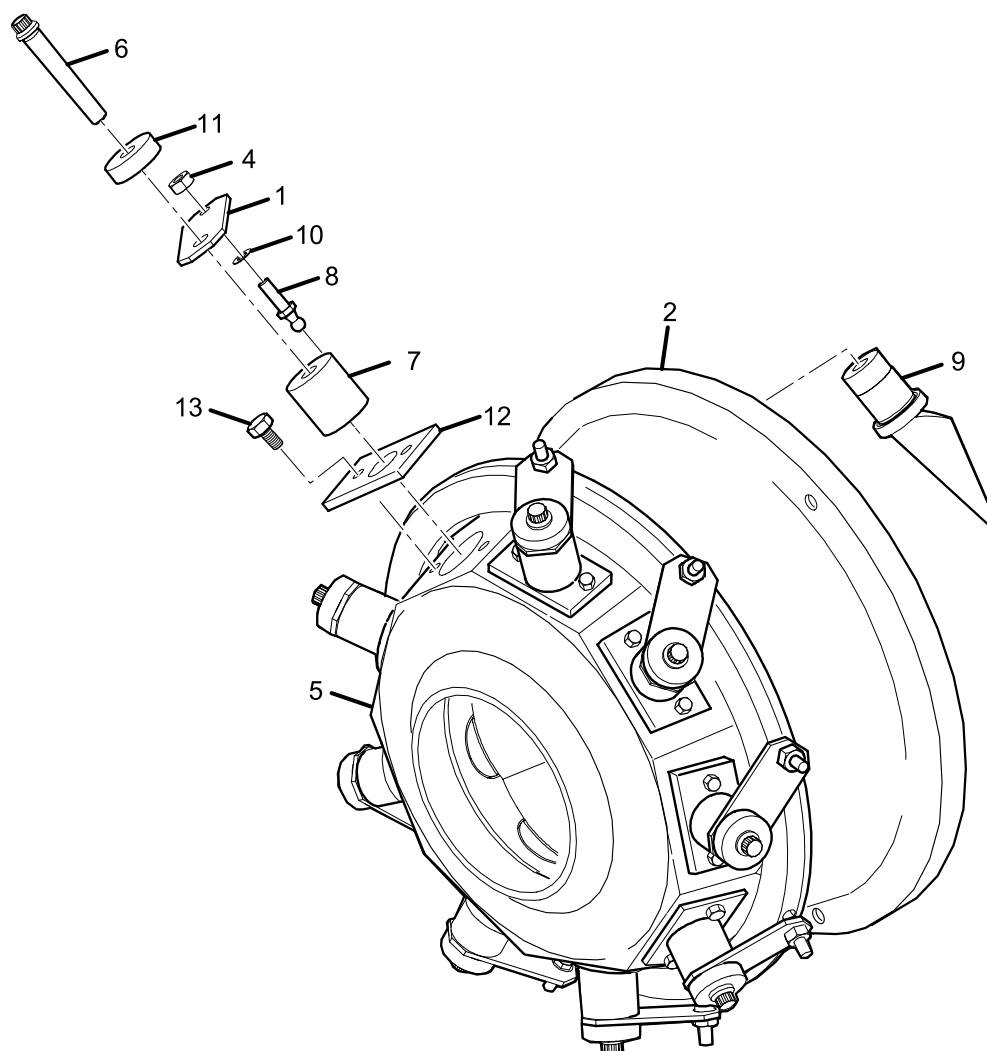


FIG. 41 – HG COMPRESSOR (81, 90)

LD12107

DEVICE PRE-ROTATION MODELS HA 81, 90



LD12066

FIG. 42– DEVICE PRE-ROTATION (HA 81, 90)

ITEM	DESCRIPTION	QTY.	PART NUMBER
	COMPLETE PRV DEVICE		364 50208 001
001	ARM, VANE PRV	9	064 47508 000
002	HOUSING, PRV	1	064 50206 000
004	NUT, SELF LOCK 1/4 - 28UNF	9	021 12943 000
005	RING, VANE DRIVING	1	064 50205 000
006	SCREW, CAP 12 PT HD 1/2	9	021 17571 000
007	SPACER, ARM PRV	9	064 48199 000
008	STUD, BALL 1/4 -28 UNF	9	029 15924 000
009	VANE, PRE-ROTATION	9	064 48206 000
010	WASHER, PLAIN LT 17/64 ID 1/2	18	021 11973 000
011	WASHER, SPL 25/64 ID	9	064 47516 000
012	RETAINER, PRV	9	064 47505 000
013	SCREW, CAP HEX 1/4 -20UNC	18	021 01372 000

HA COMPRESSOR

WITH SQUARE DRIVE PRV CONTROL SHAFT AND PINCHED JOINT CONTROL ARM

MODELS HA 81, 90, 104 W/VGD

ITEM	DESCRIPTION	HA 81		HA 90		HA 104	
		QTY.	PART NUMBER	QTY.	PART NUMBER	QTY.	PART NUMBER
001	SCREW, SET HEX SOC CUP PT	1	021 00774 000	1	021 00774 000	1	021 00774 000
*002	BEARING, HS FRONT HA 81/90/104	1	064 48223 000	1	064 48223 000	1	064 48223 000
003	SCREW, CAP HEX 3/8 -16UNC	3	021 01483 000	3	021 01483 000	3	021 01483 000
†004	SEAL, O-RING .301 ID X .064	1	028 12209 000	1	028 12209 000	1	028 12209 000
005	SUPPORT, ROTOR W/HSG BRG HA	1	364 50429 000	1	364 50429 000	1	364 50429 000
006	PRV, MOTOR ACTUATOR	1	025 29657 000	1	025 29657 000	1	025 29657 000
†007	SEAL, O-RING 5/16 ID X	2	028 12513 000	2	028 12513 000	2	028 12513 000
*008	BEARING, HIGH SPEED REAR	1	064 48207 000	1	064 48207 000	1	064 48207 000
*009	BEARING, LOW SPEED REAR	1	064 47858 000	1	064 47858 000	1	064 47858 000
*010	BEARING, LOW SPEED FRONT	1	064 47857 000	1	064 47857 000	1	064 47857 000
*011	BEARING, THRUST HIGH SPEED	1	029 20896 002	1	029 20896 002	1	029 20896 002
*013	COLLAR, THRUST HIGH SPEED	1	064 47855 000	1	064 47855 000	1	064 47855 000
*014	COLLAR, THRUST LOW SPEED	1	064 47856 000	1	064 47856 000	1	064 47856 000
015	COLLAR, IMPELLER CLAMPING	1	064 47853 000	1	064 47853 000	1	064 47853 000
017	BEARING, HIGH SPEED REVS THRUST	1	029 20895 002	1	029 20895 002	1	029 20895 002
†018	SEAL, O-RING 10-1/2 ID X 1/8	1	028 12226 000	1	028 12226 000	1	028 12226 000
020	COVER, PRV SHAFT CONTROL	1	064 48861 000	1	064 48861 000	1	064 48861 000
021	SHAFT, CONTL PREROT DEVICE	1	364 50631 000	1	364 50631 000	1	364 50631 000
023	SCREW, CAP HEX 3/8 -16UNC	2	021 18901 000	2	021 18901 000	2	021 18901 000
025	SCREW, CAP FLAT SOC HD 3/8	2	021 13856 000	2	021 13856 000	2	021 13856 000
026	SPACER	1	064 50611 000	1	064 50611 000	1	064 50611 000
027	ORIFICE, HIGH SPEED OIL FEED	1	064 49203 000	1	064 49203 000	1	064 49203 000
028	DOWEL, PIN STR	1	064 24130 000	1	064 24130 000	1	064 24130 000
029	WASHER, PLAIN 9/32 ID X 5/8 OD	4	021 05165 000	4	021 05165 000	4	021 05165 000
030	VALVE, STOP ANG VERTICAL	1	022 10054 000	1	022 10054 000	1	022 10054 000
031	CONNR, FLARE HYDRAULIC 3/8 OD	3	023 09671 000	3	023 09671 000	3	023 09671 000
032	SEALER, REFRIGERANT PIPE	-	013 02894 000	-	013 02894 000	-	013 02894 000
033	LEVER, INTERNAL	1	064 50498 000	1	064 50498 000	1	064 50498 000
034	LEVER, PRE-ROT VANE EXTERNAL	1	064 50613 000	1	064 50613 000	1	064 50613 000
035	LEVER, PRV MOTOR	1	064 50614 000	1	064 50614 000	1	064 50614 000
036	LINK, EXT PRV & MOT TK131	2	064 46880 000	2	064 46880 000	2	064 46880 000
037	ROD, ADJ FOR PREROT DEVICE	1	064 09080 000	1	064 09080 000	1	064 09080 000
038	VALVE, STOP ANG VERTICAL	1	022 09577 000	1	022 09577 000	1	022 09577 000
039	TRANSDUCER, PRESSURE	1	025 28678 006	1	025 28678 006	1	025 28678 006
040	RETAINER, BRG S STAGE TURBO	3	064 46886 000	3	064 46886 000	3	064 46886 000
041	SCREW, CAP HEX 3/8 -16UNC	2	021 01477 000	2	021 01477 000	2	021 01477 000
043	CONNR, FLARE HYDRAULIC 1/4 OD	1	023 09668 000	1	023 09668 000	1	023 09668 000
045	WASHER, PLAIN 13/32 ID X 13/16	2	021 01274 000	2	021 01274 000	2	021 01274 000
050	SCREW, CAP 12PT HD 5/16	1	021 12197 000	1	021 12197 000	1	021 12197 000
051	PLUG, PIPE 1/4 HEX SOCKET	2	023 01973 000	2	023 01973 000	2	023 01973 000
053	SENSOR, TEMPERATURE 50,000 OHMS	1	025 33288 000	1	025 33288 000	1	025 33288 000
054	SCREW, CAP 12PT HD 5/161	1	021 11142 000	1	021 11142 000	1	021 11142 000
055	FILLPIECE, PREROT DEVICE	1	064 09070 000	1	064 09070 000	1	064 09070 000
056	BRG, ROD END W/SST ISRT CHROME	2	029 07015 000	2	029 07015 000	2	029 07015 000

* Included in Bearing Kit † Included in O-Ring Kit

HA COMPRESSOR

WITH SQUARE DRIVE PRV CONTROL SHAFT AND PINCHED JOINT CONTROL ARM

MODELS HA 81, 90, 104 W/VGD

ITEM	DESCRIPTION	HA 81		HA 90		HA 104	
		QTY.	PART NUMBER	QTY.	PART NUMBER	QTY.	PART NUMBER
057	SCREW, CAP 12 PT HD 1/2	1	021 31125 000	1	021 31125 000	1	021 31125 000
059	SCREW, CAP 12 PT HD 1/2	1	021 11984 000	1	021 11984 000	1	021 11984 000
060	ELBOW, FLARE HYDRAULIC 3/8 OD	2	023 11343 000	2	023 11343 000	2	023 11343 000
061	SCREW, CAP 12 PT HD 1/4	3	021 11505 000	3	021 11505 000	3	021 11505 000
062	TUBE, TEE-DRAIN	1	064 48219 000	1	064 48219 000	1	064 48219 000
063	SCREW, CAP HEX SOC HD 1/4	4	021 02578 000	4	021 02578 000	4	021 02578 000
065	WASHER, PLAIN CLIPPED HARDENED	40	021 17593 000	40	021 17593 000	40	021 17593 000
066	SCREW, CAP 12PT HD 5/8	38	021 11629 000	38	021 11629 000	38	021 11629 000
067	SCREW, SET HEX SOC CUP PT	2	021 17615 000	2	021 17615 000	2	021 17615 000
068	NUT, HEX 5/8 -11 UNC-2B	2	021 17659 000	2	021 17659 000	2	021 17659 000
070	TUBE, 9 LG 37 DEG SAE FL 1 END	1	064 47557 000	1	064 47557 000	1	064 47557 000
071	SCREW, CAP HEX 3/8 -16UNC	6	021 01497 000	6	021 01497 000	6	021 01497 000
073	PLATE, MOUNTING	1	064 47998 000	1	064 47998 000	1	064 47998 000
074	SCREW, SET HEX SOC CUP PT	1	021 31182 000	1	021 31182 000	1	021 31182 000
075	HEADER, SPRAY	1	064 47999 000	1	064 47999 000	1	064 47999 000
078	TUBE, STEEL 3/8 OD X .049 X	-	003 00240 000	-	003 00240 000	-	003 00240 000
079	LOCKWASHER, HEL SPG 1/4 REG	2	021 05267 000	2	021 05267 000	2	021 05267 000
080	NUT, HEX 1/2 - 20UNF-2B	2	021 10171 000	2	021 10171 000	2	021 10171 000
081	NUT, HEX 1/4 - 20 UNC-2B	6	021 00450 000	6	021 00450 000	6	021 00450 000
082	PIN, DOWEL TAPPED 3/8 DIA	2	029 18459 000	2	029 18459 000	2	029 18459 000
083	SCREW, CAP HEX 1/4 -20UNC	4	021 01392 000	4	021 01392 000	4	021 01392 000
084	SCREW, SHOULDER SOC HD	6	021 17557 000	6	021 17557 000	6	021 17557 000
087	GASKET, 2-1/2 OD X 2 ID X 1/32	1	064 47751 000	1	064 47751 000	1	064 47751 000
088	CONN, OIL DRAIN	1	364 48291 000	1	364 48291 000	1	364 48291 000
089	VALVE, CHECK OIL 1/8 NPTE	1	022 04444 000	1	022 04444 000	1	022 04444 000
090	GREASE, POE	-	044 03199 000	-	044 03199 000	-	044 03199 000
†092	SEAL, O-RING 6-1/2 ID X 1/8	1	028 12224 000	1	028 12224 000	1	028 12224 000
093	SCREW, CAP HEX 3/8 -16UNC	3	021 01485 000	3	021 01485 000	3	021 01485 000
†094	SEAL, O-RING 1-1/8 ID X 1/8	2	028 12200 000	2	028 12200 000	2	028 12200 000
095	NUT, HEX 5/16 - 18UNC 2B	4	028 05628 000	4	028 05628 000	4	028 05628 000
096	PLUG, PIPE, FLUSH TYPE HEX	2	023 05366 000	2	023 05366 000	2	023 05366 000
098	SCREW, CAP HEX 3/8 -16UNC	16	021 01510 000	16	021 01510 000	16	021 01510 000
100	PLUG PIPE, FLUSH TYPE HEX	3	023 21738 000	3	023 21738 000	3	023 21738 000
*103	BEARING, THRUST	1	029 20839 001	1	029 20839 001	1	029 20839 001
105	SCREW, CAP 12 PT HD 1/4	6	021 14108 000	6	021 14108 000	6	021 14108 000
107	SEALER, REMOVABLE THREAD	-	013 01678 000	-	013 01678 000	-	013 01678 000
109	SCREW, CAP HEX HD 3/8 -16UNC-2A	4	021 17556 000	4	021 17556 000	4	021 17556 000
†110	SEAL, O- RING SPLICED 37.050 ID	1	028 15083 000	1	028 15083 000	1	028 15083 000
111	FILLPIECE, PRV LINKAGE	1	064 47727 000	1	064 47727 000	1	064 47727 000
112	SCREW, CAP 12 PT HD 1/2	1	021 11525 000	1	021 11525 000	1	021 11525 000
116	ELBOW, FLARE HYDRAULIC 1/4 OD	1	023 09677 000	1	023 09677 000	1	023 09677 000
†121	SEAL, O-RING SPLICED 32.456 ID	1	028 12569 000	1	028 12569 000	1	028 12569 000
†122	SEAL, O-RING 4-7/8 ID X 1/8	1	028 12225 000	1	028 12225 000	1	028 12225 000
†124	SEAL, O-RING SPLICED 34.067 ID	1	028 12248 000	1	028 12248 000	1	028 12248 000

* Included in Bearing Kit † Included in O-Ring Kit

HA COMPRESSOR

WITH SQUARE DRIVE PRV CONTROL SHAFT AND PINCHED JOINT CONTROL ARM

MODELS HA 81, 90, 104 W/VGD

ITEM	DESCRIPTION	HA 81		HA 90		HA 104	
		QTY.	PART NUMBER	QTY.	PART NUMBER	QTY.	PART NUMBER
125	SCREW, CAP HEX SOC HD 1/4	6	021 17765 000	6	021 17765 000	6	021 17765 000
130	SCREW, CAP HEX SOC HD 1/4	1	021 01377 000	1	021 01377 000	1	021 01377 000
131	SCREW, CAP HEX 3/8 -16UNC	14	021 14374 000	14	021 14374 000	14	021 14374 000
132	SEALER, GRADE AVV LOCTITE 086	-	013 01671 000	-	013 01671 000	-	013 01671 000
133	PRIMER, LOCQUIC GRADE N	-	013 01753 000	-	013 01753 000	-	013 01753 000
139	TEE, INSTM UNION 3/8 TUBE	1	023 10595 000	1	023 10595 000	1	023 10595 000
140	TUBE, HIGH SPEED-TEE	1	064 48218 000	1	064 48218 000	1	064 48218 000
141	PROBE, PROXIMITY	1	025 35900 000	1	025 35900 000	1	025 35900 000
153	BRACKET, SUPPORT LOWER PRV	1	064 48851 000	1	064 48851 000	1	064 48851 000
155	CONNR, FLA M X M 3/8 OD FLA	1	023 20853 000	1	023 20853 000	1	023 20853 000
158	SEAL, DOUBLE SHAFT	1	029 22429 000	1	029 22429 000	1	029 22429 000
158A	C-RING, REPLACEMENT SHAFT SEAL	1	028-14493-000	1	028-14493-000	1	028-14493-000
159	ELBOW, FLARE HYDRAULIC 3/8 OD	1	023 18969 000	1	023 18969 000	1	023 18969 000
160	TUBE, SHAFT SEAL OIL SUPPLY	1	064 49028 000	1	064 49028 000	1	064 49028 000
162	FITTING, LIQUID TIGHT 1/2 NPT	1	025 28720 000	1	025 28720 000	1	025 28720 000
163	BUSH PIPE 3/4 - 14 NPTE X	1	023 04010 000	1	023 04010 000	1	023 04010 000
164	TUBE, HIGH SPEED SOL H 65-90	1	064 49047 000	1	064 49047 000	1	064 49047 000
165	TUBE, .50 LG +/- .03 X 1/4 OD X	1	064 49229 000	1	064 49229 000	1	064 49229 000
168	NUT, FLARE HYDRAULIC 3/8 OD	3	023 09673 000	3	023 09673 000	3	023 09673 000
169	SLEEVE, FLARE HYDRAULIC 3/8 OD	3	023 10001 000	3	023 10001 000	3	023 10001 000
†170	SEAL, O-RING NEOPRENE	1	028 12961 004	1	028 12961 004	1	028 12961 004
171	ELBOW, FLARE HYDRAULIC 3/8 OD	2	023 18920 000	2	023 18920 000	2	023 18920 000
172	VALVE, STOP ANG VERTICAL	1	022 09578 000	1	022 09578 000	1	022 09578 000
173	SPACER	2	064 50612 000	2	064 50612 000	2	064 50612 000
174	SCREW, CAP 122 PT HD 1/2	2	021 11926 000	2	021 11926 000	2	021 11926 000
175	PLUG, PRV ASSEMBLY	1	064 50632 000	1	064 50632 000	1	064 50632 000
176	SEAL, O-RING NEOPRENE	1	028 12961 005	1	028 12961 005	1	028 12961 005
177	NUT, HEX MACH SCR #10 - 32	1	021 08670 000	1	021 08670 000	1	021 08670 000
178	LOCKWASHER, HEL SPG #10 REG	1	021 05265 000	1	021 05265 000	1	021 05265 000
201	IMPELLER	1	064 48155 001	1	064 48156 001	1	064 50394 001
202	PLATE, NOZZLE BASE	1	064 50615 000	1	064 50616 000	1	064 50693 000
203	PLATE, DIFFUSER	1	064 50315 000	1	064 50318 000	1	064 50414 000
204	DEVICE PRV	1	364 50208 002	1	364 50208 003	1	364 50208 004
205	SCREW, CAP HEX SOC HD 3/8	6	021 17766 000	6	021 17766 000	6	021 17298 000
206	RING, EYE SEAL	1	064 50247 000	1	064 50250 000	1	064 50244 000
210	PLUG, HEX HD 1-5/16	2	023 18282 000	2	023 18282 000	2	023 18282 000
211	SCREW, CAP 12 PT HD 1/2	6	021 17571 000	6	021 17571 000	6	021 12165 000
212	PLUG, HEX HD 9/16	4	023 18962 000	4	023 18962 000	4	023 18962 000
221	RING, BALANCE PISTON SEAL	1	064 50241 000	1	064 50241 000	1	064 50238 000
222	RETAINER, B.P. SEAL WASHER	1	064 50242 000	1	064 50242 000	1	064 50239 000
223	WASHER, SPRING BALANCE PISTON	1	064 50243 000	1	064 50243 000	1	064 50240 000
224	WASHER, SPRING EYE	1	064 50248 000	1	064 50251 000	1	064 50245 000
225	RETAINER, EYE SEAL WASHER	1	064 50311 000	1	064 50314 000	1	064 50246 000
†226	SEAL, O-RING NEOPRENE	2	028 12961 008	2	028 12961 008	2	028 12961 008
†227	SEAL, O-RING NEOPRENE	9	028 12961 003	9	028 12961 003	9	028 12961 003

HA COMPRESSOR

WITH SQUARE DRIVE PRV CONTROL SHAFT AND PINCHED JOINT CONTROL ARM

MODELS HA 81, 90, 104 W/VGD

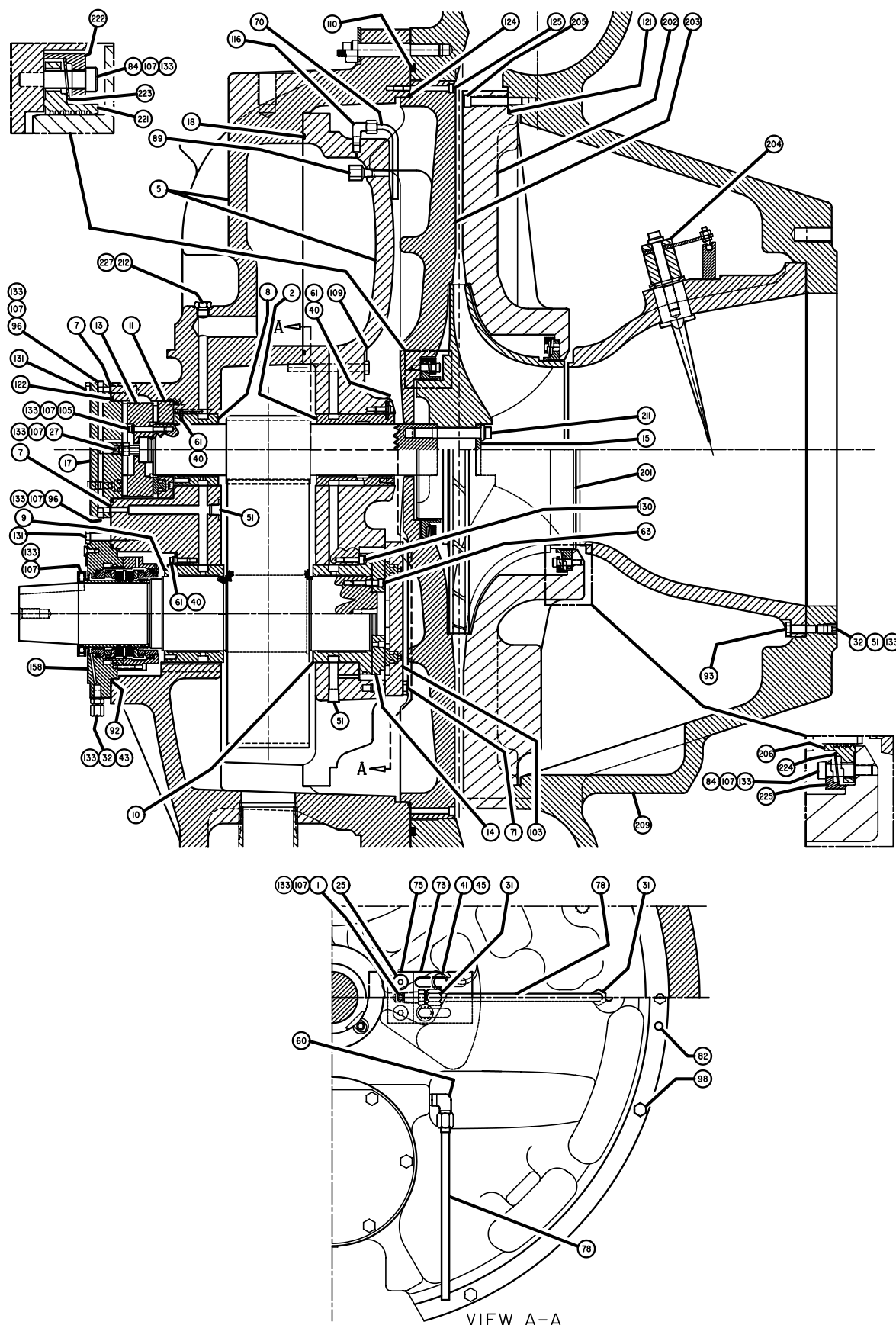


FIG. 43 – HA COMPRESSOR (81, 90, 104)

LD12075

HA COMPRESSOR
WITH SQUARE DRIVE PRV CONTROL SHAFT AND PINCHED JOINT CONTROL ARM
MODELS HA 81, 90, 104 W/VGD

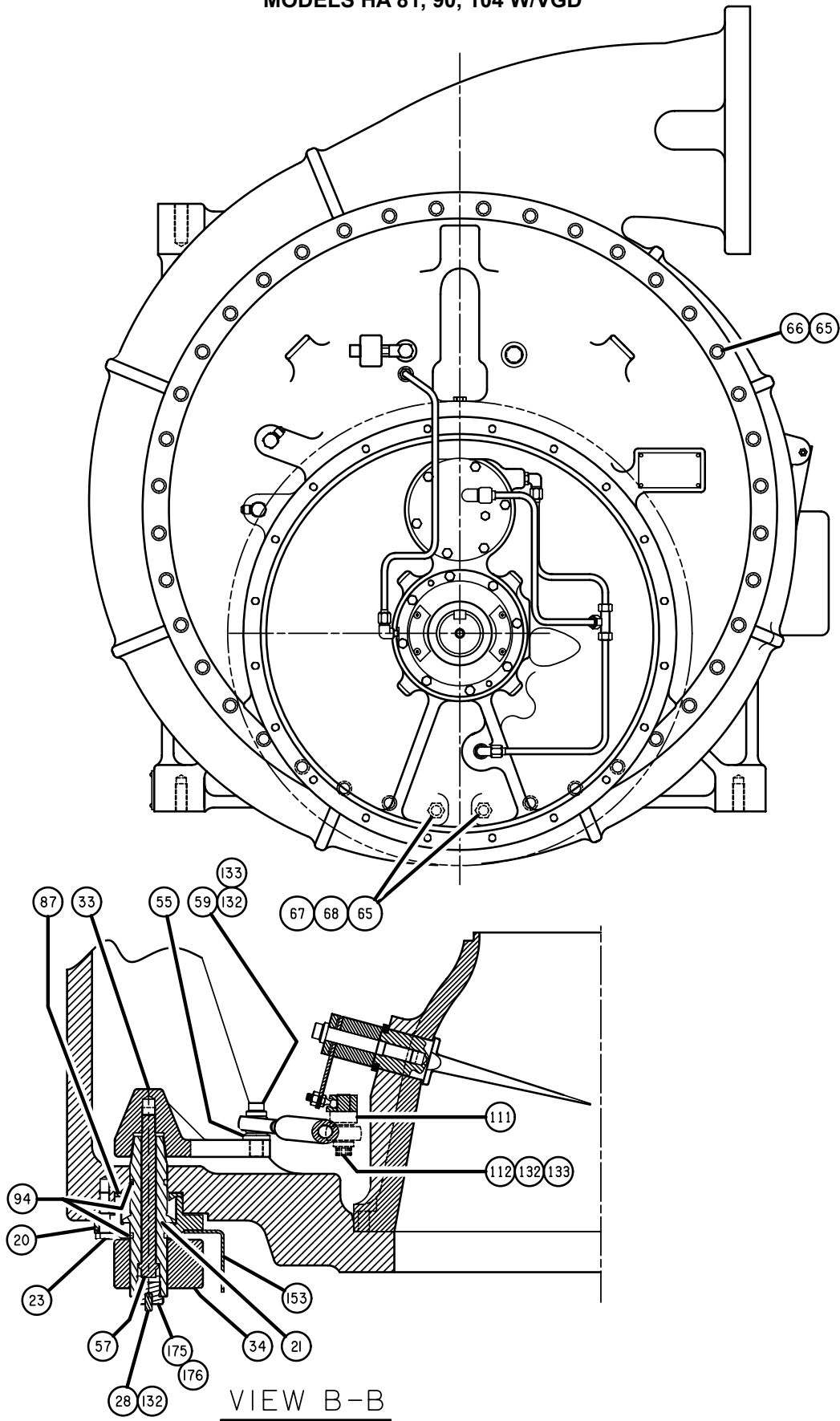


FIG. 44 – HA COMPRESSOR (81, 90, 104)

LD12079

HA COMPRESSOR
WITH SQUARE DRIVE PRV CONTROL SHAFT AND PINCHED JOINT CONTROL ARM
MODELS HA 81, 90, 104 W/VGD

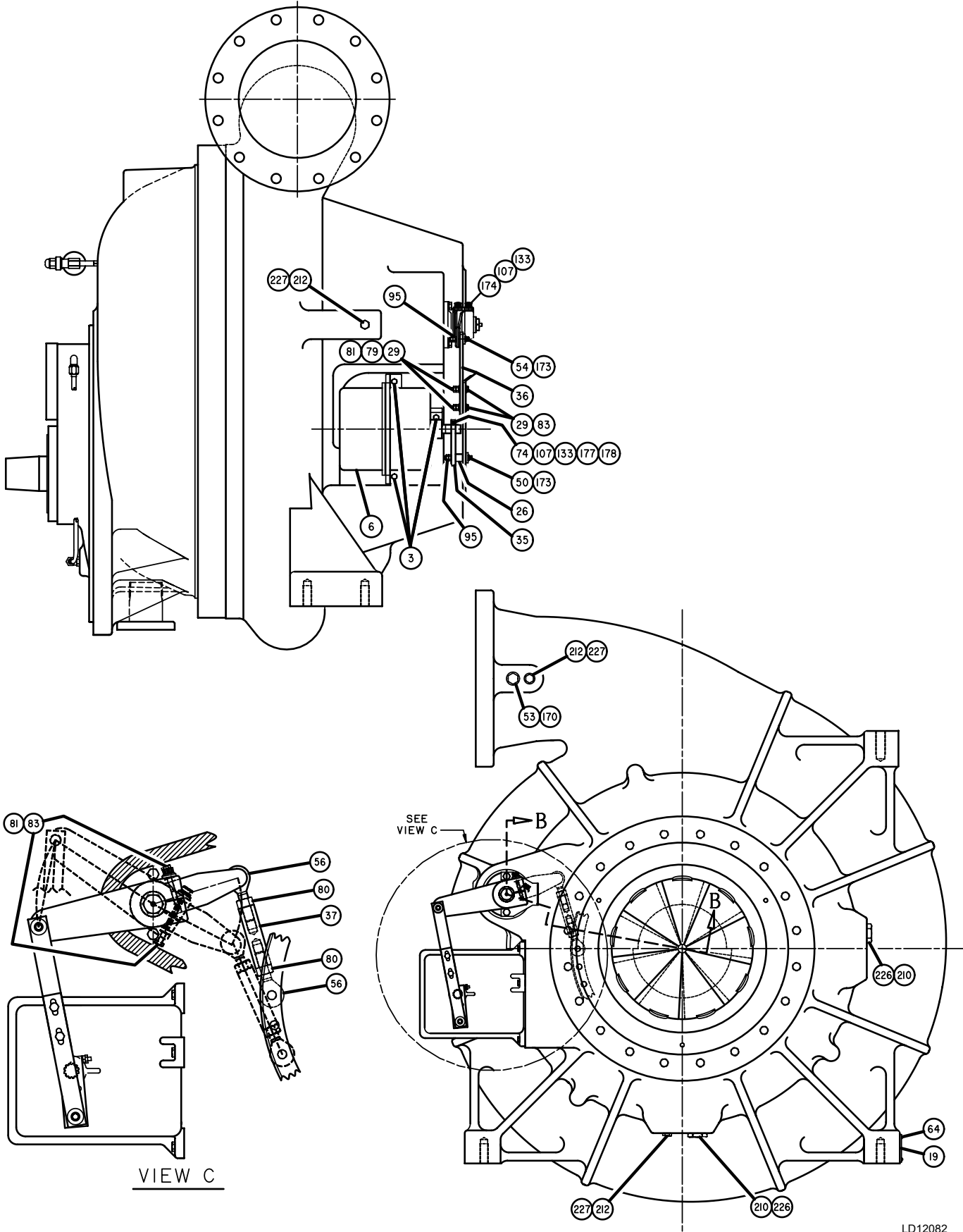


FIG. 45 – HA COMPRESSOR (81, 90, 104)

HA COMPRESSOR
WITH SQUARE DRIVE PRV CONTROL SHAFT AND PINCHED JOINT CONTROL ARM
MODELS HA 81, 90, 104 W/VGD

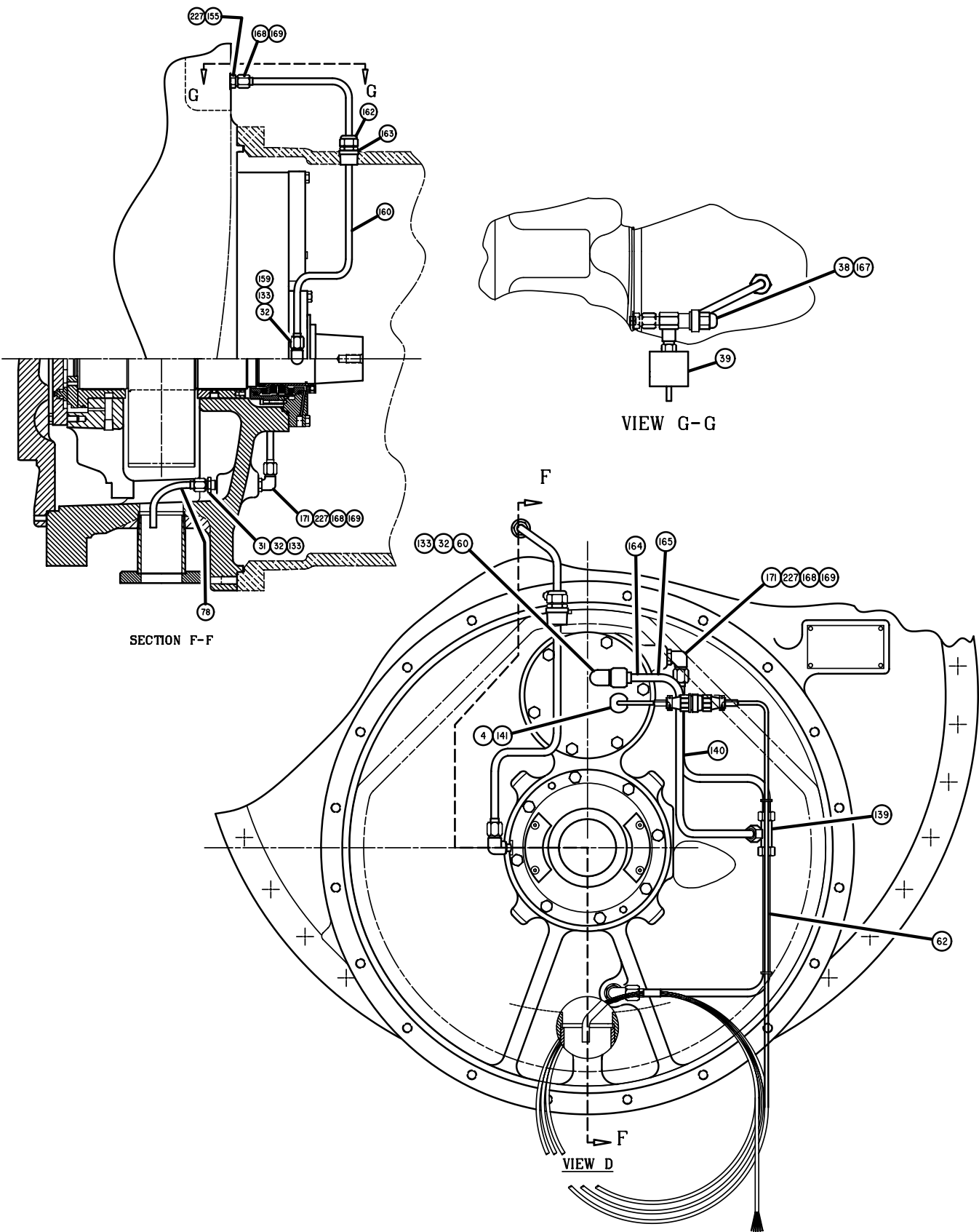
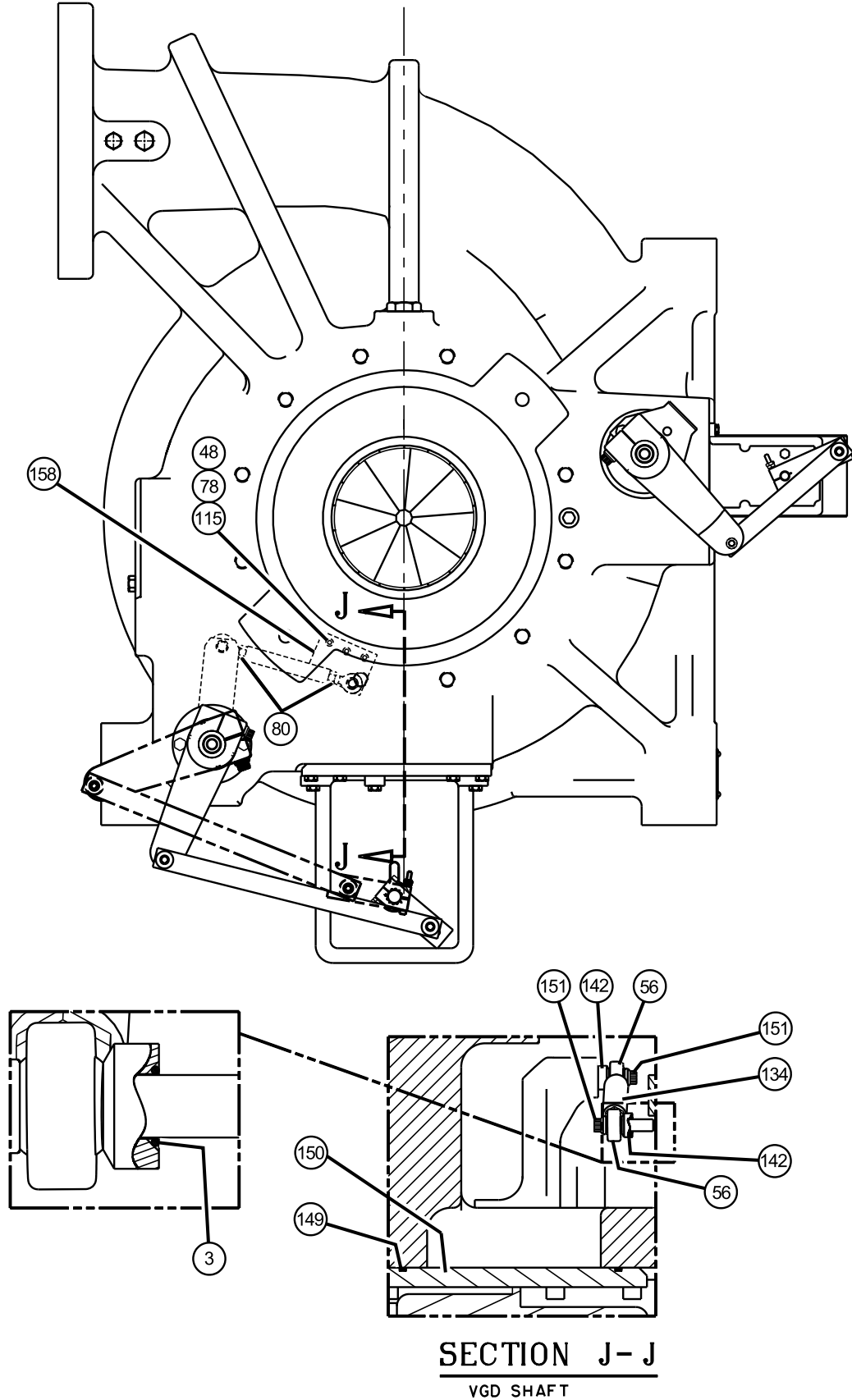


FIG. 46 – HA COMPRESSOR (81, 90, 104)

LD12078

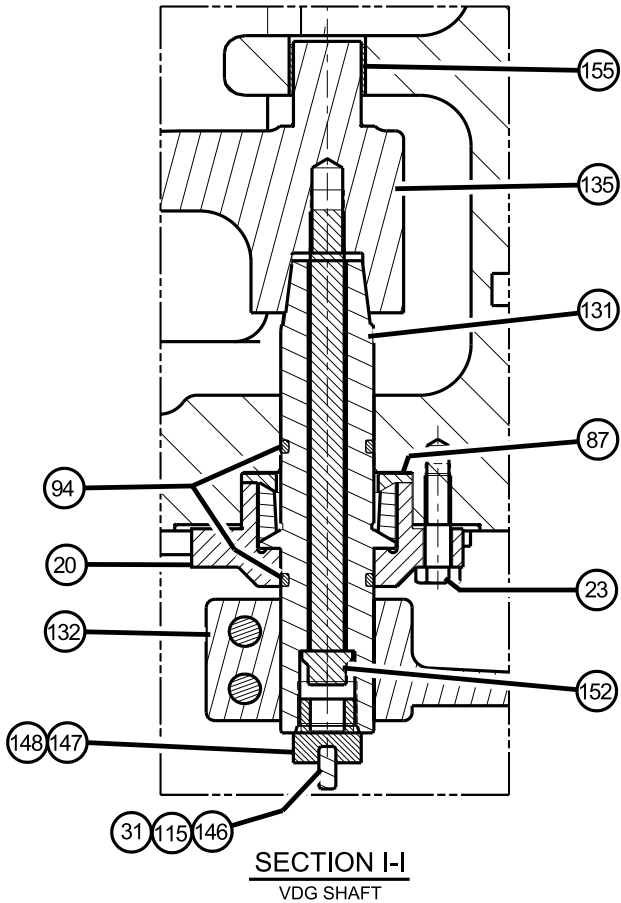
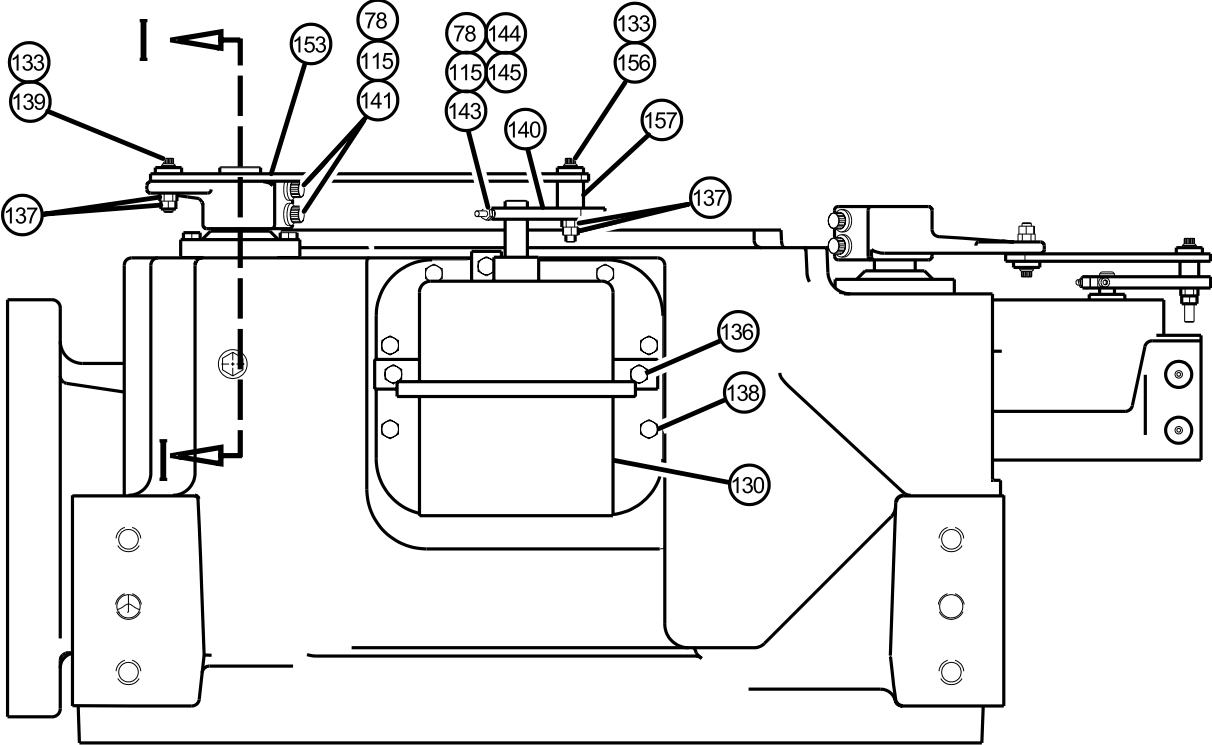
HA COMPRESSOR
WITH SQUARE DRIVE PRV CONTROL SHAFT AND PINCHED JOINT CONTROL ARM
MODELS HA 81, 90, 104 W/VGD



LD10710

FIG. 47 – HA COMPRESSOR (81, 90, 104)

HA COMPRESSOR
WITH SQUARE DRIVE PRV CONTROL SHAFT AND PINCHED JOINT CONTROL ARM
MODELS HA 81, 90, 104 W/VGD

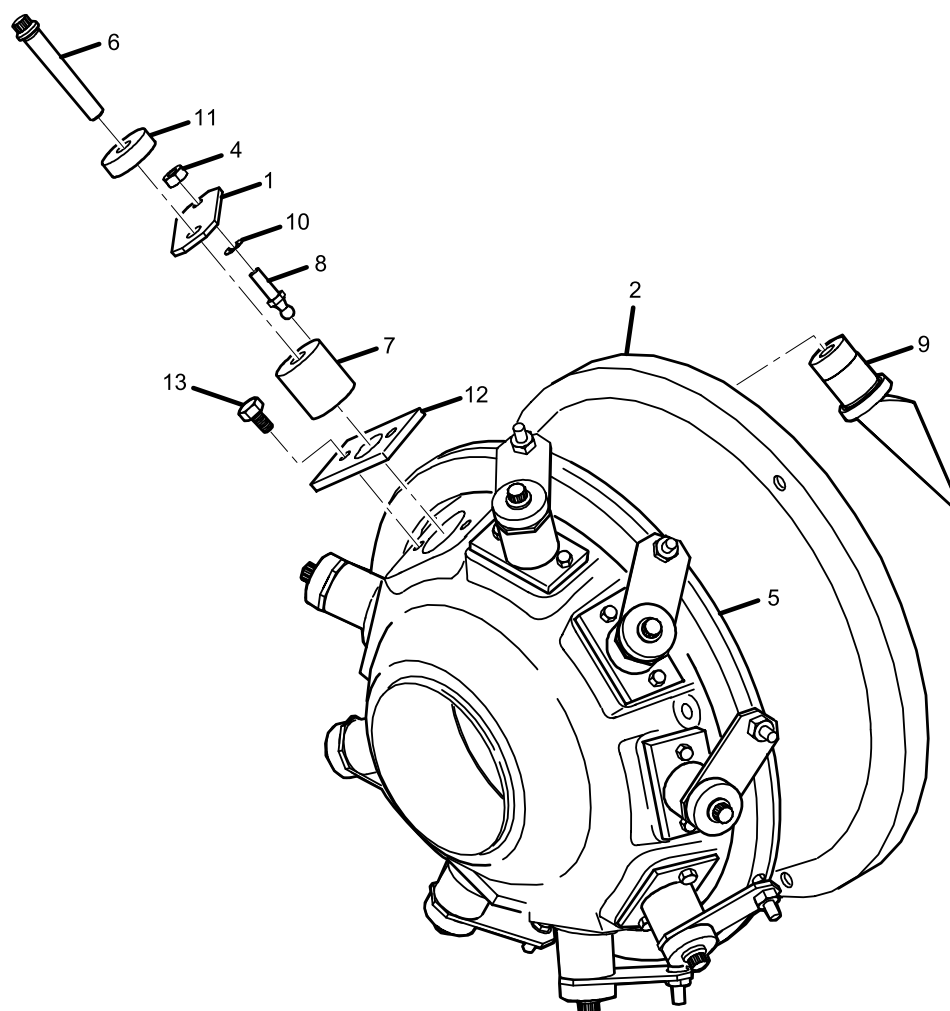


LD10711

FIG. 48 – HA COMPRESOR (81, 90, 104)

DEVICE PRE-ROTATION

MODELS HA 81, 90, 104



LD12085

FIG. 49 – DEVICE PRE-ROTATION (HA 81, 90, 104)

ITEM	DESCRIPTION	HA 81		HA 90		HA 104	
		QTY.	PART NUMBER	QTY.	PART NUMBER	QTY.	PART NUMBER
	COMPLETE PRV DEVICE	-	364 50208 002	-	364 50208 003	-	364 50208 004
001	ARM, VANE PRV	9	064 47508 000	9	064 47508 000	9	064 47508 000
002	HOUSING	1	064 50206 000	1	064 50207 000	1	064 50413 000
004	NUT, SELF LOCK 1/4 - 28	9	021 12943 000	9	021 12943 000	9	021 12943 000
005	RING, VANE DRIVING	1	064 50205 000	1	064 50205 000	1	064 50205 000
006	SCREW, CAP 12 PT HEAD 3/8	9	021 17571 000	9	021 17571 000	9	021 17571 000
007	SPACER, ARM PRV	9	064 48199 000	9	064 48199 000	9	064 48199 000
008	STUD, BALL 1/4 -28	9	029 15924 000	9	029 15924 000	9	029 15924 000
009	VANE, PRE-ROTATION	9	064 48206 000	9	064 48206 000	9	064 48206 000
010	WASHER, PLAIN LT 17/64 ID 1/2	18	021 11973 000	18	021 11973 000	18	021 11973 000
011	WASHER, SPL	9	064 47516 000	9	064 47516 000	9	064 47516 000
012	RETAINER	9	064 47505 000	9	064 4705 000	9	064 47505 000
013	SCREW, CAP HEX 1/4 - 20	18	021 01372 000	18	021 01372 000	18	021 01372 000

VGD DEVICE
MODEL HA 81, 90, 104
PART NO. 364 51237 001

COMMON PARTS			
ITEM	DESCRIPTION	QTY.	PART NUMBER
1	RING, DIFFUSER HA VGD	1	064 51431 000
2	SCREW, CAP HEX SOC HD 5/16"	8	021 31527 000
3	PIN, DRIVE	4	064 50470 000
4	BEARING, MCGILL CF-3/4-B	4	029 24103 000
5	NUT, HEX 3/8-24 UNF-2B	8	021 00474 000
6	SPACER, VGD	4	064 50758 000
7	BEARING, MCGILL CYR 1-3/8"	4	029 24104 000
8	SCREW, CAP HEX SOC HD 3/8"	4	021 01508 000
9	WASHER, PLAIN .384 ID X 5/8 OD	4	021 31155 000
10	SUPPORT, AXIAL BEARING	4	064 50469 000
11	BEARING, MCGILL CFE-3/4-B	4	029 24102 000
12	SCREW, CAP HEX SOC HD	8	021 19223 000
13	WASHER, PLAIN 13/32 ID X 13/16	4	021 01274 000
14	BUSHING, GARLOCK 16DU12	8	029 24100 000
15	WASHER, CONICAL DISK	24	021 31324 000
16	WASHER, PLAIN HARDENED 3/8 ID	4	021 31323 000
17	SCREW, CAP HEX SOC HD 1/4"	1	021 02578 000
18	SCREW, SET HEX SOCKET 1/4"	2	021 31328 000
19	PIN, TENSIONER VGD DRIVE RING	2	064 50830 000
20	PRIMER, LOCQUIC GRADE N	.035	013 01753 000
21	SEALER, REMOVABLE THREAD	.024	013 01678 000
22	TENSIONER, BLOCK VGD DRIVE RING	2	064 50824 000
23	SCREW, SHOULDER SOC HD 5/16	2	021 31322 000
24	SCREW, CAP HEX SOCHD 5/16	2	021 31327 000
25	SHIM, BRACKET VGD SUPPORT BLOCK	8	064 51137 000

UNIT SPECIFIC PARTS			
ITEM	DESCRIPTION	QTY.	PART NUMBER
*	RING, DRIVE VGD HA 81	1	064 51432 000
*	RING, DRIVE VGD HA 90	1	064 51433 000
*	RING, DRIVE VGD HA 104	1	064 51434 000

* Items are NOT shown.

VGD DEVICE
MODEL HA 81, 90, 104

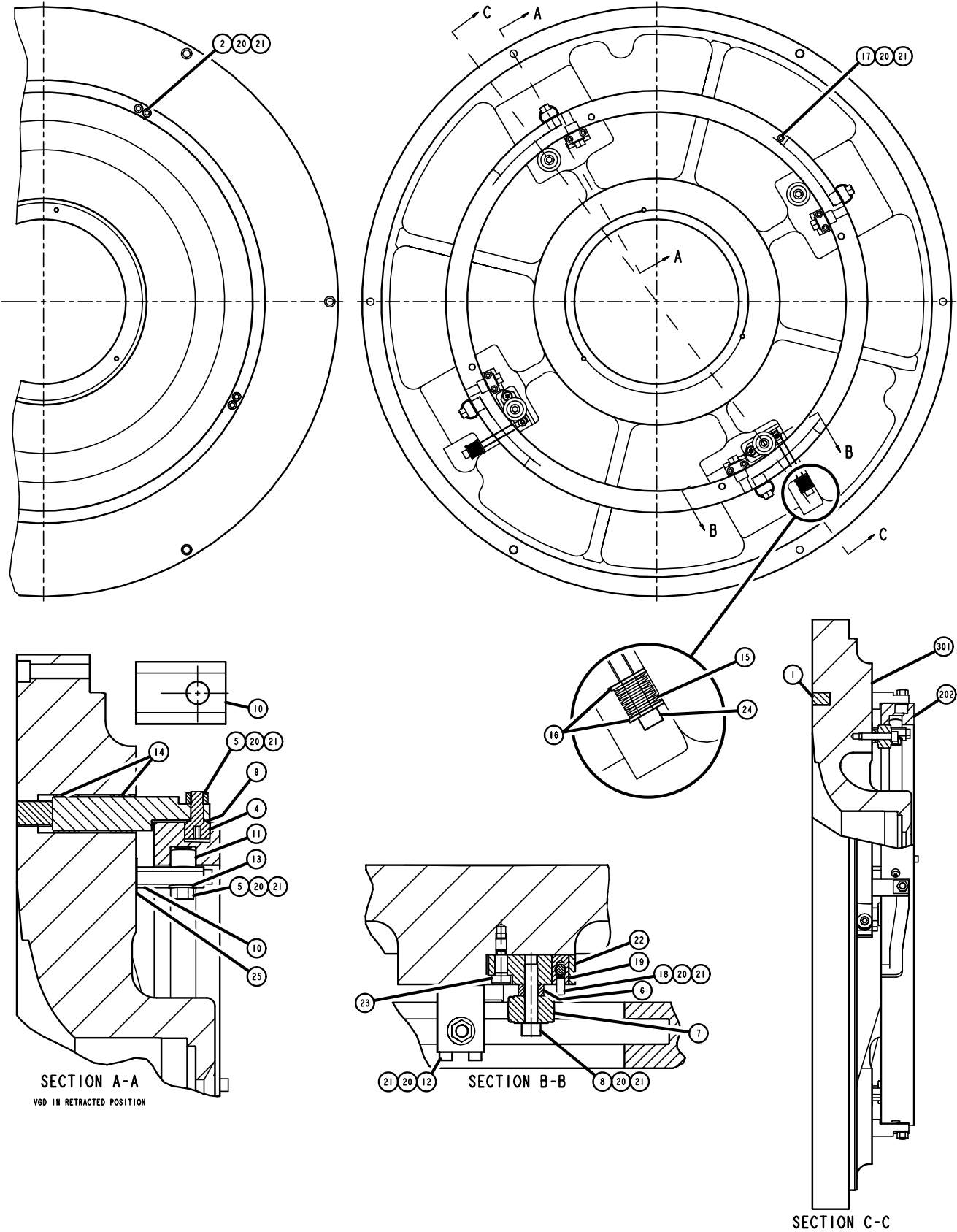


FIG. 50 – VGD DEVICE (HA 81, 90, 104)

HA COMPRESSOR

MODEL HA 119 W/ VGD

ITEM	DESCRIPTION	QTY.	PART NUMBER
001	SCREW, SET HEX SOC CUP PT	1	021 00774 000
*002	BEARING, HIGH SPEED FRONT	1	064 51495 000
003	HHCS, 0.375-16 X 0.875 GR 5 BL	6	021 01470 000
004	SEAL, O-RING .301 ID X .064	1	028 12209 000
006	WIRING, PRV MOTOR ACTUATOR	2	375 49340 105
007	SEAL, O-RING 5/16 ID X	3	028 12513 000
*008	BEARING, HIGH SPEED REAR	1	064 51494 000
*009	BEARING, LOW SPEED REAR	1	064 47858 000
*010	BEARING, LOW SPEED FRONT	1	064 47857 000
*011	BEARING, HIGH SPEED FOR THRUST	1	029 24759 000
*013	COLLAR, HIGH SPEED THRUST	1	064 51493 000
*014	COLLAR, LOW SPEED THRUST	1	064 51492 000
015	COLLAR, IMPELLER CLAMPING	1	064 51501 000
016	ELBOW, CINCH 3/8 TUBE X	2	023 22141 000
017	BEARING, HIGH SPEED REV THRUST	1	029 24758 000
†018	SEAL, O-RING 10-1/2 ID X 1/8	1	028 12226 000
019	NAMEPLATE, PATENT	1	029 13270 002
020	COVER, PRV SHAFT CONTROL	2	064 48861 000
021	SHAFT, CONTROL PREROT DEVICE	2	364 51220 000
023	HHCS, 0.375-16 X 1.500 GR 5 ZN	4	021 18901 000
025	SCREW, CAP FLAT SOC HD 3/8	2	021 13856 000
026	SPACER, .50 LG X .33 ID X .63OD	2	064 50611 000
027	ORIFICE, HIGH SPEED OIL FEED	1	064 49203 000
028	SCREW, CAP 12 PT HD 1/2	2	021 31600 000
029	WASHER, PLAIN 11/32 ID X 11/16	4	021 05166 000
030	SCREW, CAP 12PT HD 3/8	18	021 11141 000
031	CONNR, CINCH 3/8 TUBE X	3	023 06801 000
032	SEAL, DOUBLE SHAFT	1	029 24762 000
032A	C-RING, REPLACEMENT FOR SHAFT SEAL	1	028 14493 000
033	LEVER, INTERNAL	1	064 51516 000
034	LEVER, PRV EXTERNAL	1	064 51518 000
035	ARM, MOTOR	1	064 51522 000
036	LINK, EXTERNAL PRV	1	064 51788 000
037	ROD, ADJUSTABLE PRV & VGD	1	364 51754 800
038	PLUG, HEX HD 1-1/16	1	023 18295 000
†039	SEAL, O-RING NEOPRENE	1	028 12961 006
040	RETAINER, BEARING S STAGE TURBO	2	064 46886 000
041	SCREW, CAP HEX 3/8 -16UNC	2	021 01477 000
042	TUBE, LOW SPEED OIL DRAIN	1	064 51222 000
043	CONNR, CINCH 1/4 OD TUBE X	1	023 17641 000
044	TUBE, OIL DRAIN SHAFT SEAL	1	064 51637 000
045	WASHER, PLAIN 13/32 ID X 13/16	2	021 01274 000
046	RING, BALANCE PISTON SEAL HJ-119	1	064 51509 000
047	RETAINER, BALANCE PISTON SEAL WASHER HJ119	1	064 51510 000
048	WASHER, SPRING BALANCE	1	064 51511 000
049	IMPELLER, 11.89 EYE HARD COAT	1	064 51499 001

* Included in Bearing Kit † Included in O-Ring Kit

HA COMPRESSOR

MODEL HA 119 W/ VGD

ITEM	DESCRIPTION	QTY.	PART NUMBER
050	SCREW, CAP 12PT HD 5/16	1	021 12197 000
051	PLUG, PIPE 1/4 HEX SOCKET	3	023 01973 000
052	DEVICE, VGD	1	364 51517 000
053	PLUG, HEX HD 7/16	1	023 18279 000
054	SCREW, CAP 12PT HD 5/16	1	021 11142 000
055	FILLPIECE, PRV DEVICE	1	064 51523 000
057	DOWEL, PIN STR	2	029 24130 000
059	SCREW, CAP 12 PT HD 1/2	1	021 11984 000
060	PLUG, HOLLOW HEX 7/16"	4	023 18921 000
061	SCREW, CAP HEX SOC HD 1/4	3	021 29501 000
062	TUBE, OIL DRAIN H.S. THRUST	1	064 51638 000
063	SCREW, CAP HEX SOC HD 1/4	8	021 02578 000
064	SCREW, DRIVE TY U #4 X 1/4	8	021 03720 000
065	LEVER, PRV EXTERNAL	1	064 50613 000
066	SCREW, CAP 12PT HD 5/8	56	021 11553 000
067	SCREW, CAP 12 PT HD 1/2	6	021 12165 000
068	SCREW, CAP HEX SOC HD 1/4	3	021 08993 000
069	LINK, EXTERNAL	1	064 51549 000
070	ORIFICE, SET SCREW	1	064 51402 000
071	SCREW, CAP HEX SOC HD 1/4	8	021 29576 000
072	PLUG, HEX HD 3/4	2	023 18280 000
073	PLATE, MTG	1	064 47998 000
074	SCREW, CAP HEX SOC HD #10-32	2	021 31182 000
075	HEADER, SPRAY	1	064 47999 000
076	PLUG, HEX HD 9/16	8	023 18962 000
†077	SEAL, O-RING NEOPRENE	9	028 12961 003
078	TUBE, GEAR COOLING	1	064 51248 000
079	LOCKWASHER, HEL SPG 5/16 REG	2	021 05268 000
081	NUT, HEX 1/4 - 20 UNC-2B	2	021 00450 000
082	PIN, DOWEL TAPPED 3/8 DIA	3	029 18459 000
083	HHCS, 0.250-20 X 1.250 GR 5 BL	2	021 01392 000
084	SCREW, SHOULDER SOC HD	6	021 17557 000
085	PLUG, HEX HD 1-5/16	1	023 18282 000
†086	SEAL, O-RING NEOPRENE	1	028 12961 008
087	GASKET, 2-1/2 OD X 2 ID X 1/32	2	064 47751 000
088	BRACKET, SUPPORT LOWER PRV	1	064 48851 000
089	VALVE, CHECK OIL 1/8 NPTE	1	022 04444 000
090	GREASE, POE	0.015	044 03199 000
091	PLATE, COVER HANDHOLE	1	064 50139 000
†092	SEAL, O-RING 5-7/8 ID X 1/8	1	028 12204 000
093	SCREW, CAP 12 PT HD 3/8	3	021 18808 000
†094	SEAL, O-RING 1-1/8 ID X 1/8	4	028 12200 000
095	PLUG, PRV ASSEMBLY	2	064 50632 000
096	PLUG, PIPE, FLUSH TYPE HEX	3	023 05366 000
†097	SEAL, O-RING NEOPRENE	2	028 12961 005

* Included in Bearing Kit

† Included in O-Ring Kit

HA COMPRESSOR

MODEL HA 119 W/ VGD

ITEM	DESCRIPTION	QTY.	PART NUMBER
098	HHCS, 0.375-16 X 2.000 GR 5 BL	16	021 01510 000
†099	SEAL, O-RING 6-3/4 ID X	1	028 15446 000
100	SEALER, GASKET ELIMINATOR	0.2	013 02827 000
*103	BEARING, LOW SPEED THRUST	1	029 24757 000
104	ARM, MOTOR	1	064 51548 000
105	SCREW, CAP 12PT HD 3/8	6	021 11916 000
106	SCREW, CAP 12 PT HD 3/8	2	021 31767 000
107	SEALER, REMOVABLE THREAD	0.001	013 03375 000
108	FILLPIECE, VGD DEVICE	2	064 51551 000
109	HHCS, 0.375-16 X 3.750 GR 5 BL	4	021 17556 000
†110	SEAL, O-RING MOLDED 44.050 ID	1	028 15443 000
111	LINK, EXTERNAL PRV	1	064 51789 000
112	PROBE, PROXIMITY	1	025 40496 000
113	NP, DATA	1	029 21398 000
114	VALVE, STOP ANG VERTICAL	1	022 09578 000
†115	SEAL, O-RING 8.234 ID X	1	028 15078 000
116	NUT, HEX 5/16 - 18UNC-2B	12	021 02523 000
117	ROD, ADJUSTABLE PRV & VGD	1	364 51753 860
118	RING, EYE SEAL	1	064 51506 000
119	RETAINER, EYE SEAL	1	064 51507 000
120	WASHER, SPRING EYE	1	064 51508 000
†121	SEAL, O-RING SPLICED 33.510 ID	1	028 15445 000
†122	SEAL, O-RING 5-5/8 ID X 5-7/8	1	028 12258 000
†123	SEAL, O-RING NEOPRENE	1	028 12961 001
†124	SEAL, O-RING 40.690 ID	1	028 15444 000
125	SCREW, CAP HEX SOC HD 1/4	8	021 17765 000
126	SPACER, FLANGED, PRV & VGD	4	064 50612 000
127	SCREW, CAP 12 PT HD 1/2	4	021 11926 000
128	LEVER, INTERNAL VGD	1	064 51216 000
†129	SEAL, O-RING .351 ID X	3	028 13832 000
†130	SEAL, O-RING NEOPRENE	2	028 12961 004
131	SCREW, CAP 12PT HD 3/8	14	021 11920 000
132	SEALER, GRADE AVV LOCTITE 086	0.008	013 01671 000
133	PRIMER, LOCQUIC GRADE N	0.142	013 01753 000
135	BUSHING, GARLOCK 16DU12	2	029 24100 000
136	LOCKWASHER, HEL SPG #10 REG	2	021 05265 000
137	NUT, HEX MACH SCR #10 - 32	4	021 08670 000
138	LUB, VALVE STEM 2 OZ TIN	0.02	360 00125 000
139	FILLPIECE, PRV LINKAGE	1	064 47727 000
140	SCREW, CAP 12 PT HD 1/2	1	021 11525 000
†141	SEAL, O-RING 7/16 ID X 3/32	1	028 15428 000
142	CLAMP, TUBE 1/8 OD	1	023 06163 000
143	SCREW, CAP HEX SOC HD #8	1	021 19153 000
144	SCREW, CAP 12PT HD 5/16	3	021 19241 000
145	SCREW, CAP 12PT HD 5/16	1	021 12202 000

* Included in Bearing Kit † Included in O-Ring Kit

HA COMPRESSOR MODEL HA 119 W/ VGD

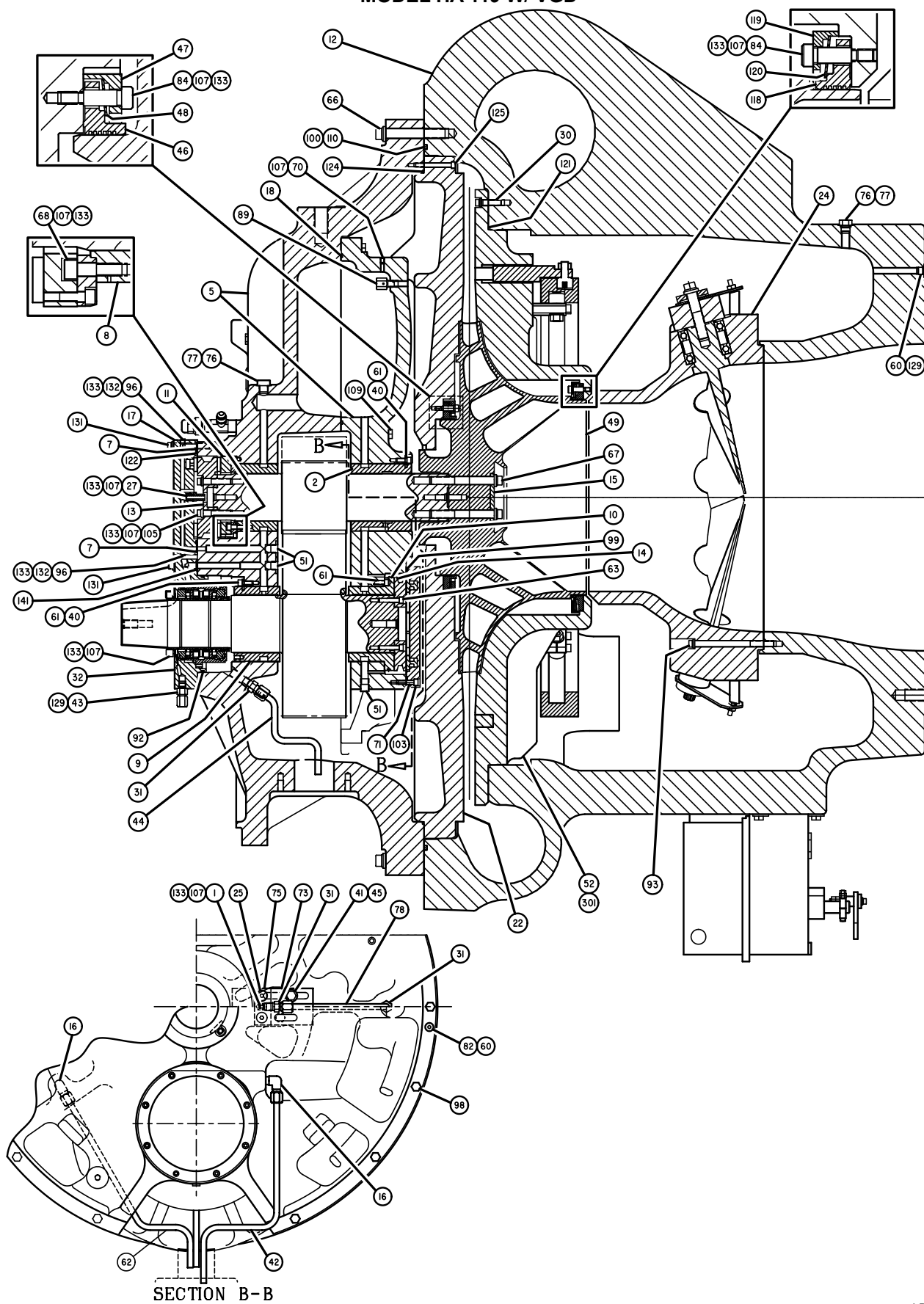


FIG. 51 – HA COMPRESSOR (119)

LD12094

HA COMPRESSOR
MODEL HA 119 W/ VGD

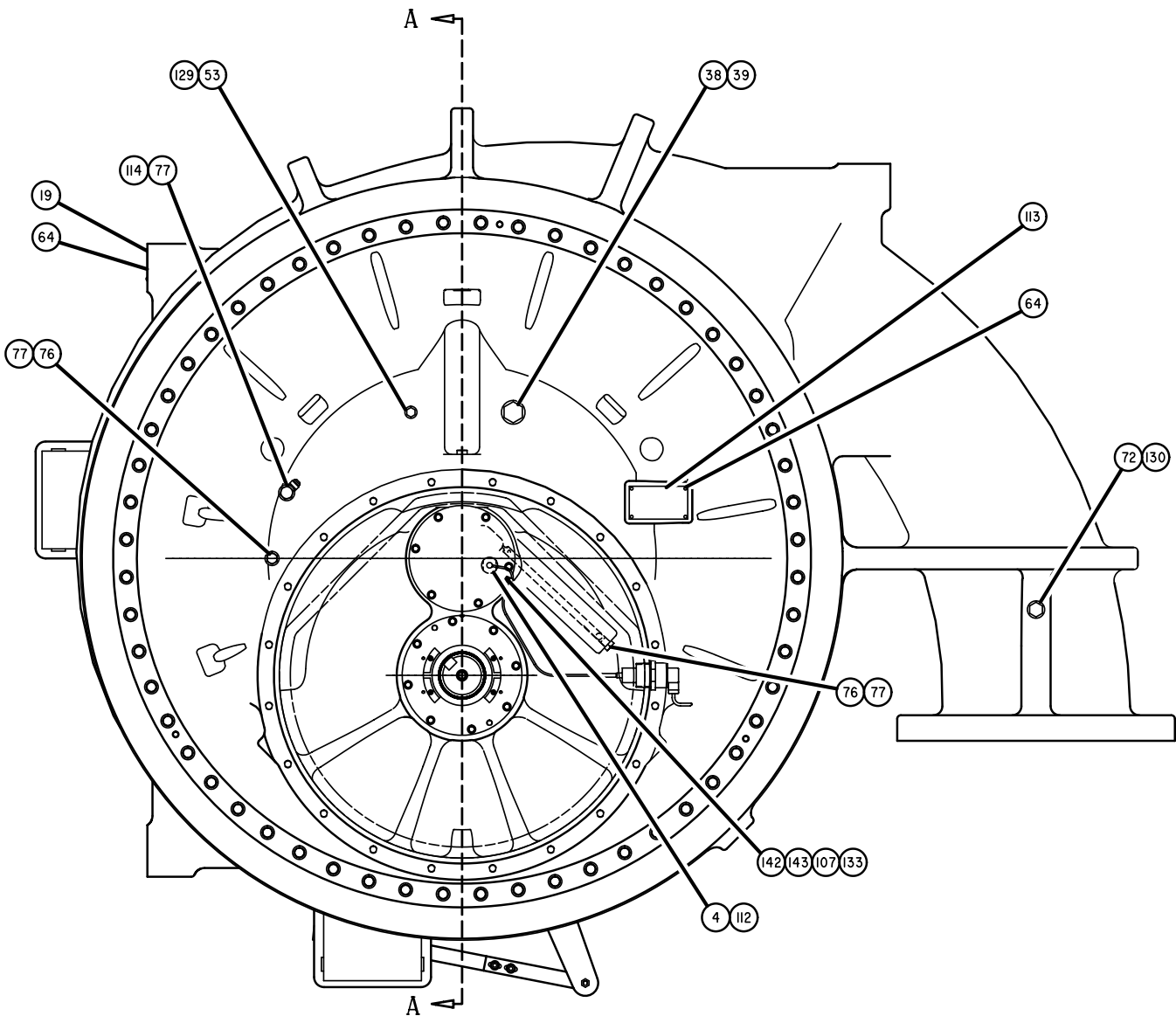


FIG. 52 – HA COMPRESSOR (119)

LD12095

HA COMPRESSOR
MODEL HA 119 W/ VGD

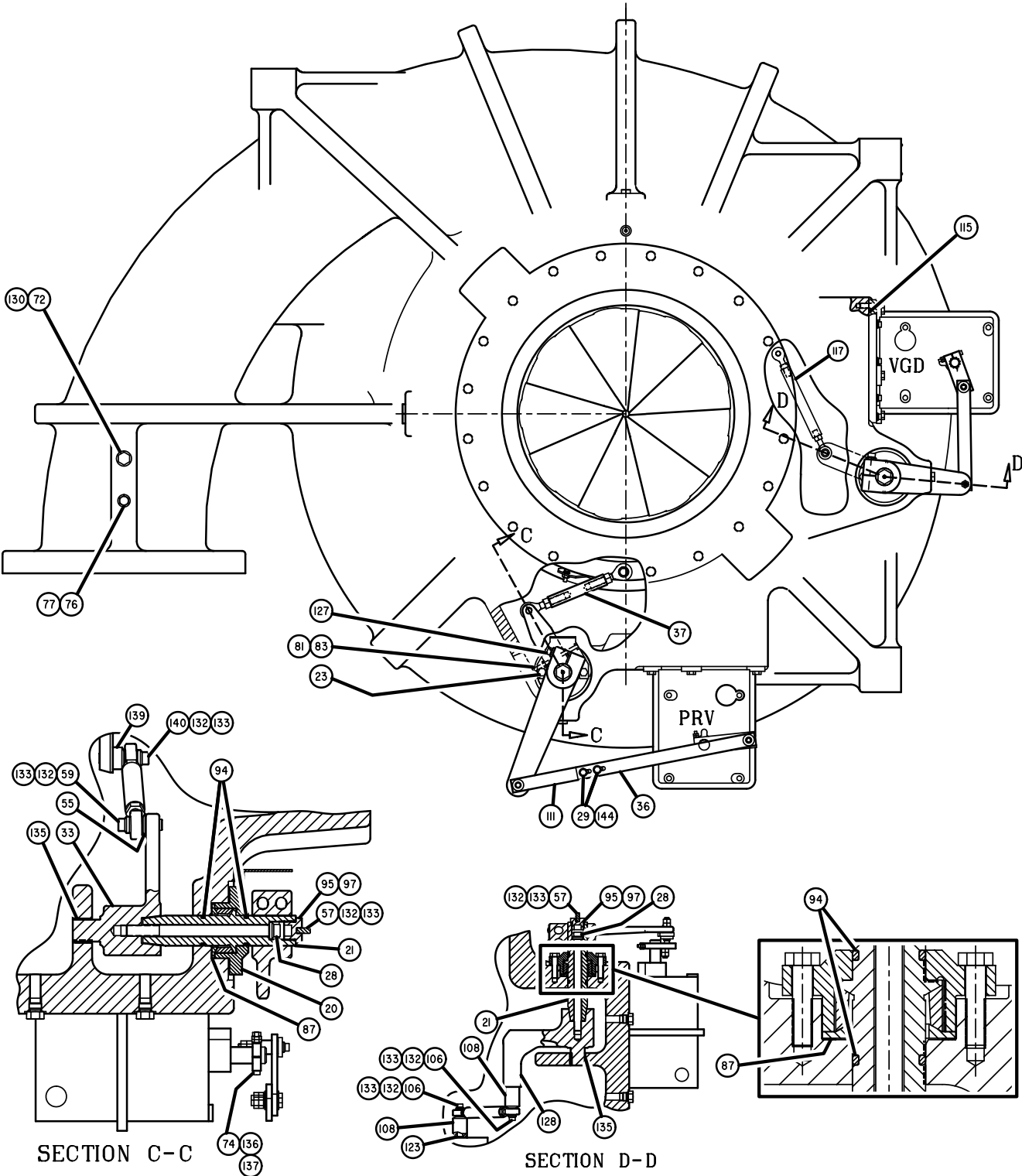


FIG. 53 – HA COMPRESSOR (119)

HA COMPRESSOR
MODEL HA 119 W/ VGD

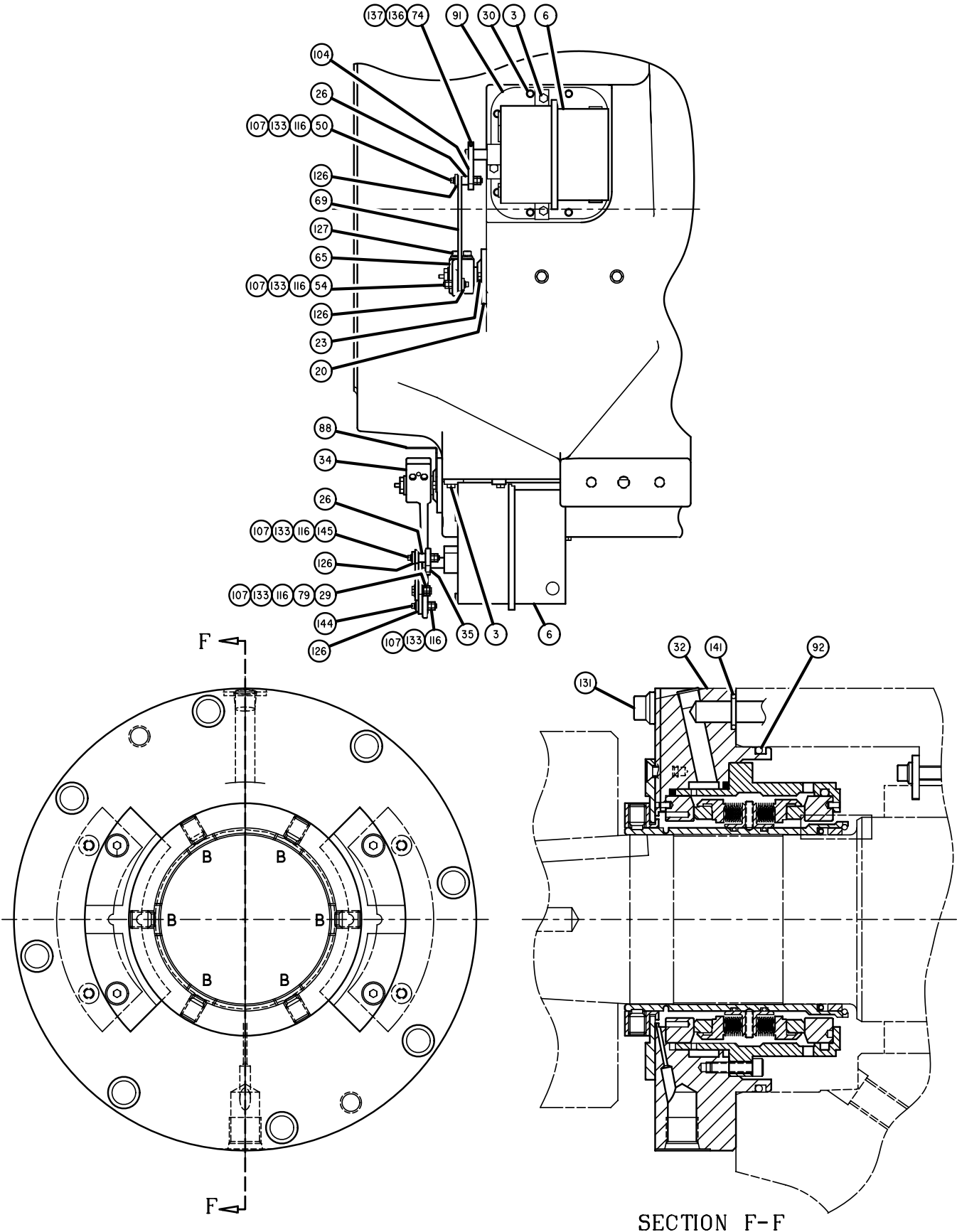


FIG. 54 – HA COMPRESSOR (119)

LD12097

VGD DEVICE
MODEL HA 119
PART NO. 364 51517 000

ITEM	DESCRIPTION	QTY.	PART NUMBER
1	RING, DIFFUSER HA VGD	1	064 51535 000
2	SCREW, CAP HEX SOC HD 5/16"	8	021 31527 000
3	PIN, DRIVE	4	064 5133 000
4	BEARING, MCGILL CF-1-B	4	029 24890 000
5	NUT, HEX 7/16 - 20UNF-2B	8	021 31755 000
6	SPACER, VGD	4	064 50758 000
7	BEARING, MCGILL CYR 1-3/8"	4	029 24104 000
8	SCREW, CAP HEX SOC HD 3/8"	4	021 01508 000
9	WASHER, PLAIN .453 ID X .750 OD	4	021 31755 000
10	SUPPORT, AXIAL BEARING	4	064 51534 000
11	BEARING, MCGILL CFE-1-B	4	029 24891 000
12	SCREW, CAP HEX SOC HD	8	021 31754 000
13	WASHER, PLAIN 15/32 ID X 59/64	4	021 14111 000
14	BUSHING, GARLOCK 16DU12	8	029 24100 000
15	WASHER, CONICAL DISK	24	021 31324 000
16	WASHER, PLAIN HARDENED 3/8 ID	4	021 31323 000
17	SCREW, CAP HEX SOC HD 1/4"	1	021 18994 000
18	SCREW, SET HEX SOCKET 1/4"	2	021 31328 000
19	PIN, TENSIONER VGD DRIVE RING	2	064 50830 000
20	PRIMER, LOCQUIC GRADE N	.035	013 01753 000
21	SEALER, REMOVABLE THREAD	.024	013 01678 000
22	TENSIONER, BLOCK VGD DRIVE RING	2	064 50824 000
23	SCREW, SHOULDER SOC HD 5/16	2	021 31322 000
24	SCREW, CAP HEX SOCHD 5/16	2	021 31762 000
25	RING, DRIVE J7	1	064 51535 000

* Items are NOT shown.

VG D DEVICE

MODEL HA 119

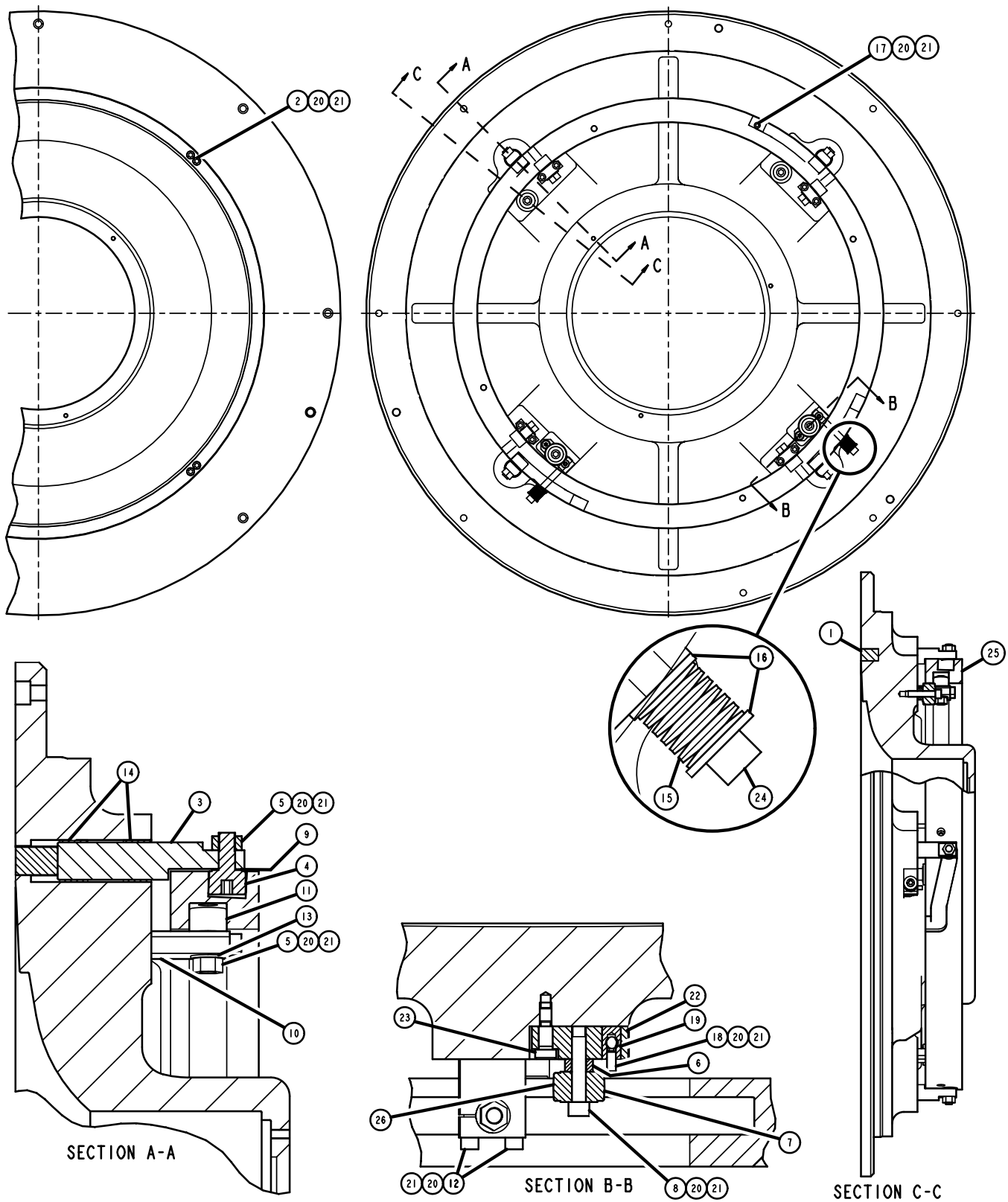
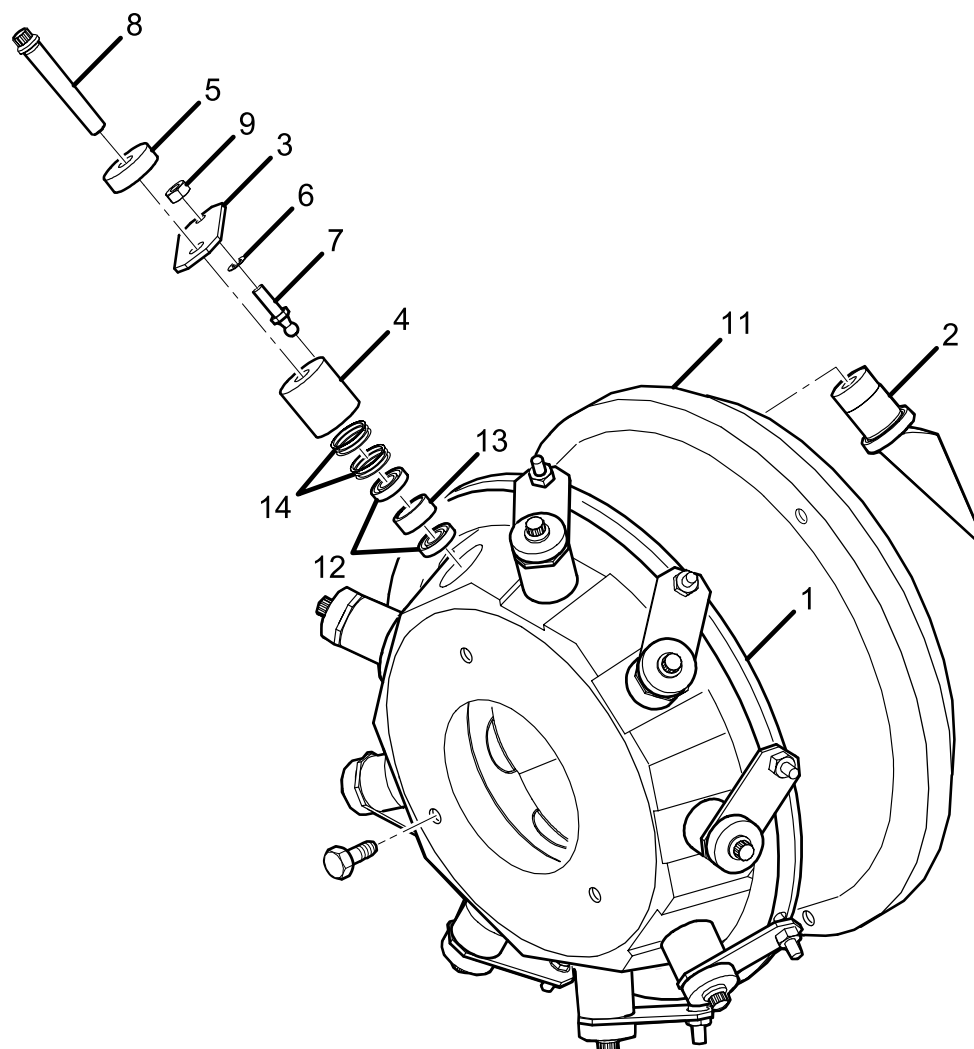


FIG. 50 – VGD DEVICE (HA 119)

DEVICE PRE-ROTATION MODELS HA 119



LD12108

FIG. 55– DEVICE PRE-ROTATION (HA 119)

ITEM	DESCRIPTION	QTY.	PART NUMBER
	COMMON PARTS	-	364 51515 000
001	RING, VANE DRIVING	1	064 51514 000
002	VANE, PRE ROT	9	064 51503 000
003	ARM, PRV VANE	9	064 51513 000
004	SPACER, PRV ARM	9	064 51512 000
005	WASHER, SPECIAL PRE ROT	9	064 47318 000
006	WASHER, PLAIN LT 17/64 ID 1/2	18	021 11973 000
007	STUD, BALL 1/4 - 28 UNF	9	029 15924 000
008	SCREW, CAP 12 PT HEAD 5/8	9	021 17265 000
009	NUT, SELF LOCK 1/4 - 28 UNF	9	021 12943 000
010	LUBRICANT, MOLYBDENUM	.001	011 00253 000
011	HOUSING, PRE-ROT VANES	1	064 51502 000
012	BEARING, BALL DEEP GROOVE	18	029 25081 000
013	SPACER	9	064 51783 000
014	SPRING, OVERLAP TYPE WAVE	18	029 25082 000

OIL PUMP HOUSING

ITEM	DESCRIPTION	FIG.	YORK P/N
1	BODY, OIL PUMP HOUSING WELDING H9	32	375-59318-001
2	PUMP, OIL 20 GPM YK	32	026-37937-000
3	BLOCK, OIL EDUCTOR SPECIAL K	32	026-37533-000
4	HEATER, ELECTRIC IMMER TY (200-346 VOLT)	32	025-32909-000
	HEATER, ELECTRIC IMMER TY (380-416 VOLT)	32	025-32917-000
	HEATER, ELECTRIC IMMER TY (440-600 VOLT)	32	025-32918-000
5	VALVE, STOP ANGLE VERTICAL	32	022-09578-000
6	VALVE, STOP ANGLE VERTICAL	32	022-09577-000
7	VALVE, STOP ANGLE VERTICAL	32	022-10054-000
8	CAGE, LIQUID LEVEL SIGHT FRONT	32	026-37571-000
9	SENSOR, TEMPERATURE 50,000 OHMS	32	025-33288-000
10	TERMINAL, HV FUSED GLASS	32	025-32933-000
11	VALVE, STOP ANGLE VERTICAL	32	022-10047-000
12	SCREW, CAP HEX SOC HD 3/8	32	021-01508-000
13	SEAL, O-RING NEOPRENE	32	028-12961-010
14	SEAL, O-RING NEOPRENE	32	028-12961-008
15	SEAL, O-RING NEOPRENE	32	028-12961-006
16	SEAL, O-RING NEOPRENE	32	028-12961-004
17	SEAL, O-RING NEOPRENE	32	028-12961-003
18	SEAL, O-RING NEOPRENE	32	028-12961-035
19	SEAL, O-RING 5/8 ID X 3/32	32	028-12961-001
20	SEAL, O-RING NEOPRENE	32	028-12961-035
21	BOX, ELEC 4 OCTAGON X 4 DEEP	32	025-33238-000
22	COVER, FILTER OUTPUT ASSY	32	375-26580-000
23	SCREW, MACH PAN HD RECD 1	32	021-03741-000
24	TERMINAL, PUSH-ON STR 14-10	32	025-09455-000
25	STRAP, CABLE T & B L7-50-9-M	*	025-09607-000
26	CAP, SEALING, CAPLUG 250	*	028-04574-000
27	INSR, ELEC	*	025-10371-000
28	FERR, SPLICE CAP	*	025-10372-000
29	PLATE, OIL PUMP MTG MACHINING	32	075-54038-000
30	PIN, SLOT SPG 3/16 X 1/2	*	029-04138-000
31	SEAL, O-RING NEOPRENE	32	028-11977-000

NOTE: Items with an * are NOT represented.

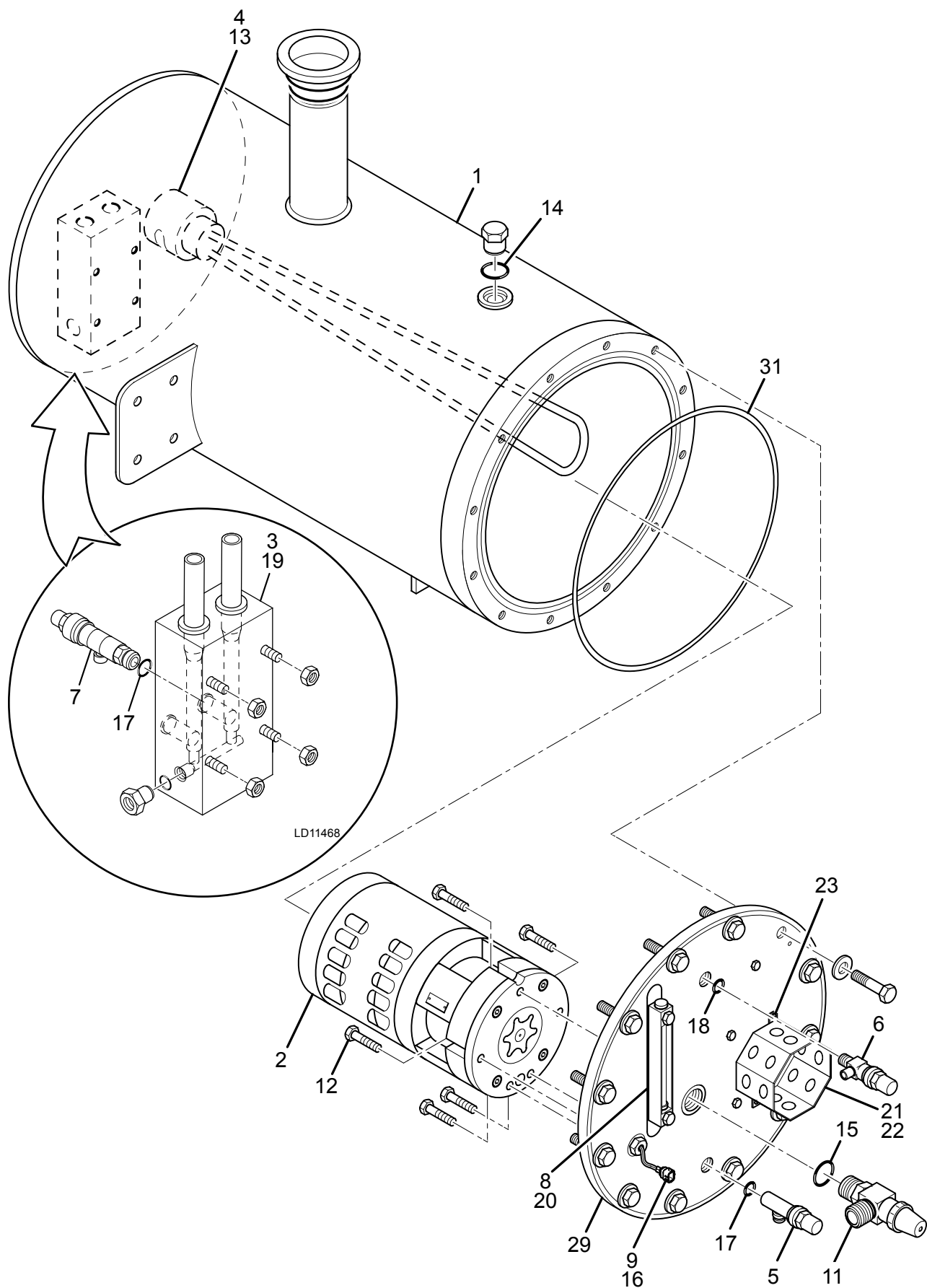


FIG. 56 – OIL PUMP HOUSING ASSEMBLY

OIL RETURN LINE

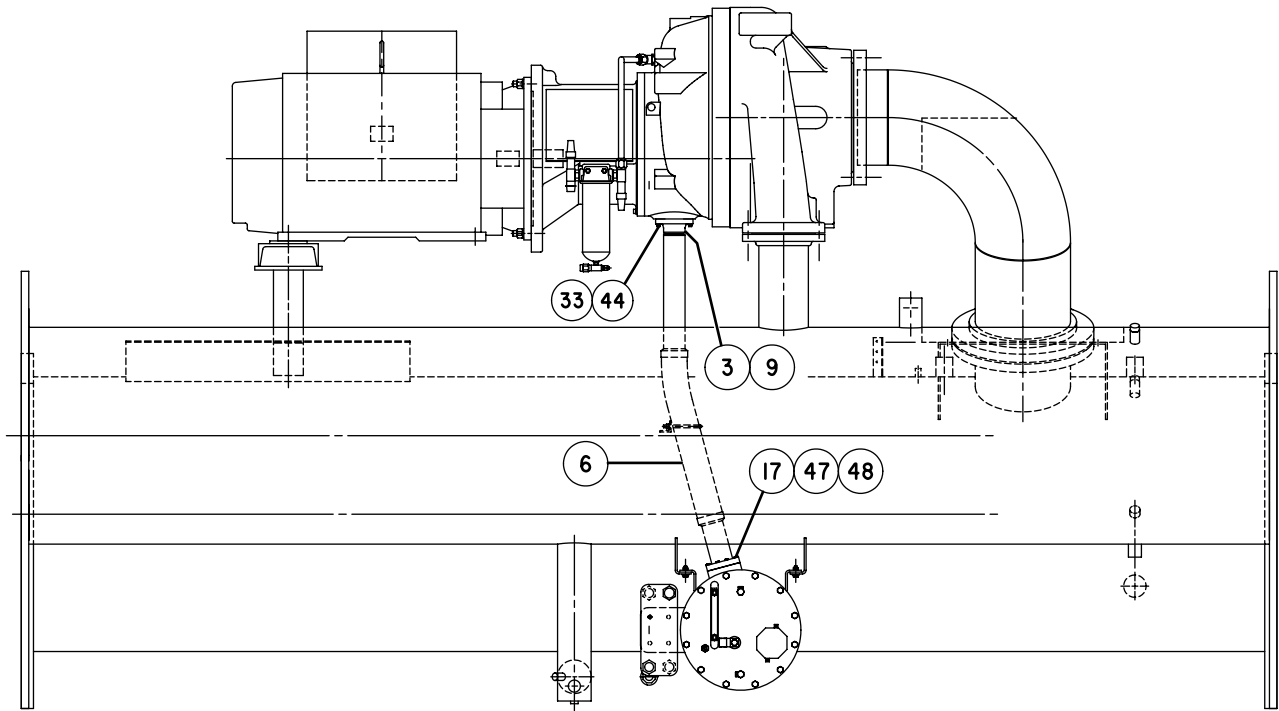


FIG. 57 - OIL RETURN LINE

LD08939

ITEM	DESCRIPTION	QTY.	PART NUMBER
003	FLANGE, OIL DRAIN H 36-90	1	064 48289 000
006	HOSE, BRAIDED FLEX METAL	-	-
	50" LONG	1	026 37992 001
	46" LONG	1	026 37992 002
	56" LONG	1	026 37992 003
	58" LONG	1	026 37992 004
	63" LONG	1	026 37992 005
009	SEAL, O-RING 3-1/8 ID X 3-1/2	1	028 12597 000
017	SCREW, CAP HEX 1/4 -20UNC	8	021 01392 000
033	LOCKWASHER, HEL SPG 3/8 REG	8	021 05269 000
044	SCREW, CAP 12PT HD 3/8	8	021 11175 000
047	LOCKWASHER, HEL SPG 1/4 REG	8	021 05267 000
048	SEAL, O-RING 2-3/4 ID X	1	028 05166 000

COMPRESSOR PIPING

ITEM	DESCRIPTION	QTY.	PART NUMBER
003	VALVE, STOP ANG VERTICAL	1	022 10054 000
006	VALVE, STOP ANG VERTICAL	2	022 10046 000
009	ELBOW, 3/4 O.D.TUBE 90 DEG MALE	1	023 18291 000
017	ELBOW, CONNR 3/4 O.D. (USE ON HE COMPRESSORS)	1	023 20272 000
	CONNR, STRAIGHT 3/4 O.D. (USE ON HA, HB, & HG COMPRESSORS)	-	023 18290 000
027	SEAL, O-RING NEOPRENE	2	028 12961 006
031	SEAL, O-RING NEOPRENE	4	028 12961 015
032	SEAL, O-RING NEOPRENE	2	028 12961 016
033	SLEEVE, 1" O.D. TUBE	2	023 18285 000
035	SLEEVE, SST 3/4 O.D. TUBE	1	023 20827 005
037	SLEEVE, PLATED STEEL 3/4 O.D. TUBE	3	023 18284 000
040	NUT, 3/4 O.D. TUBE	4	023 18286 000
041	NUT, 1" O.D. TUBE	2	023 18287 000
046	CONNR, 3/8 O.D.TUBE MALE	1	023 18976 000
047	CONNR, 1 O.D. TUBE MALE	1	023 18972 000
161	NUT, 3/8 O.D. TUBE	3	023 18977 000
165	SEAL, O-RING NEOPRENE	2	028 12961 012
166	SEAL, O-RING NEOPRENE	1	028 12961 003
167	SEAL, O-RING NEOPRENE	1	028 12961 008
170	SLEEVE, 3/8 O.D. TUBE	3	023 18978 000

COMPRESSOR PIPING

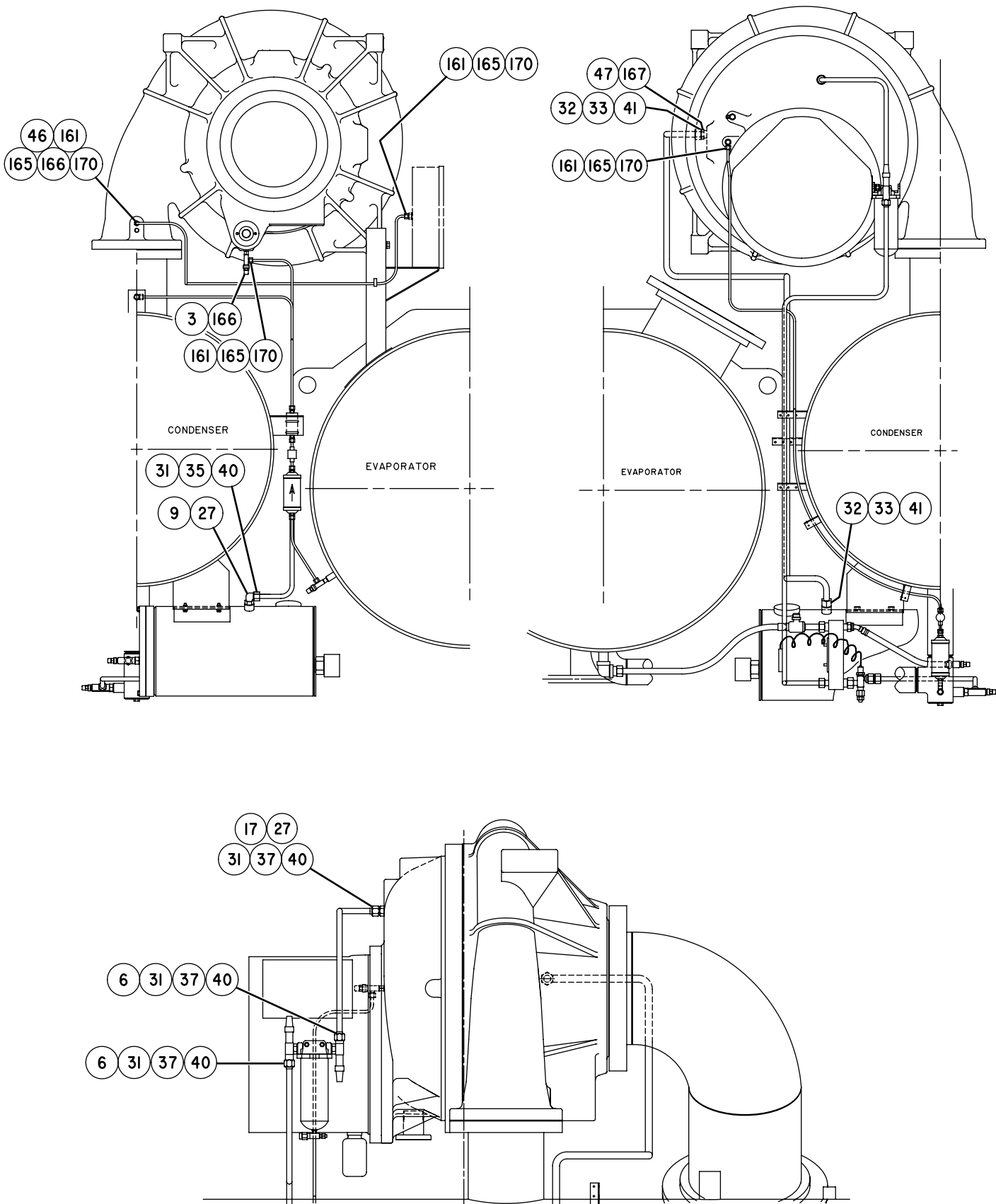


FIG. 58 - COMPRESSOR PIPING

LD08940

GEAR CODES

SPEED CODE	PART NUMBER 029-14400-XXX
AD	824
AE	825
AF	826
EA	401
EB	402
EC	403
ED	404
EE	405
EF	406
EG	407
EH	408
EJ	409
EK	410
EL	411
EM	412
EN	413
EP	414
EQ	415
ER	416
ES	417
ET	418
EU	419
EV	420
EW	421
EX	422
EY	423
FA	301
FB	302
FC	303
FD	304
FE	305
FF	306
FF	306
FG	307
FG	307
FH	308
FJ	309
FK	310
FL	311
FM	312
FN	313
FP	314
FQ	315
FR	316
FS	317
FT	318
FU	319
FV	320
FW	321
NA	331
NB	332

SPEED CODE	PART NUMBER 029-14400-XXX
NC	333
ND	334
NE	335
NF	336
NG	337
NH	338
NJ	339
NK	340
NL	341
NM	342
NN	343
NP	344
NQ	345
NR	346
NS	347
NT	348
NU	349
NV	350
NW	351
NX	352
NY	353
NZ	354
PA	355
PB	356
PR	392
PS	393
PT	394
PU	395
PV	396
PW	397
PX	398
PY	399
PZ	400
RA	150
RB	151
RC	152
RD	153
RE	154
RF	155
RG	156
RH	157
RI	158
RJ	159
RK	160
RL	161
RM	162
RN	163
RO	164
RP	165
RQ	166
RR	167

SPEED CODE	PART NUMBER 029-14400-XXX
RS	168
RT	169
RU	170
RV	171
RW	172
RX	173
RY	174
RZ	175
SA	176
SB	177
SC	178
SD	179
SE	180
SF	181
SG	182
SH	183
TA	800
TB	801
TC	802
TD	803
TE	804
TF	805
TG	806
TH	807
TJ	808
TK	809
TL	810
TM	811
TN	812
TP	813
TQ	814
TR	815
TS	816
TT	817
TU	818
TV	819
TW	820
TX	821
TY	822
TZ	823

GEAR CODES (CON'T)

HA 119 (J7)	
SPEED CODE	PART NUMBER 029-14400-XXX
MC	111
MD	112
ME	113
MF	114
MG	115
MH	116
MJ	117
MK	118
ML	119
MM	120
MN	121
MP	122
MQ	123
MR	124
MS	125
MT	126
MU	127
MV	128
MW	129
MX	130
MY	131
MZ	132
AG	133
AH	134
AJ	135
AK	136
AL	137
AM	138
AN	139

BEARING KITS

HA 41 BEARING KIT		
664 48647 000		
DESCRIPTION	QTY.	PART NUMBER
BEARING, THRUST L.S.	1	029 20839 001
BEARING, THRUST H.S.	1	029 21377 002
COLLAR, THRUST L.S.	1	064 47770 000
BEARING, H.S. FRONT	1	064 48050 000
BEARING, L.S. REAR	1	064 47901 000
BEARING, L.S. FRONT	1	064 47902 000
COLLAR, THRUST H.S.	1	064 48051 000
BEARING, H.S. REAR	1	064 48212 000

HG 65-73 BEARING KIT		
464 50724 000		
DESCRIPTION	QTY.	PART NUMBER
BEARING, H.S. FRONT	1	064 50618 000
BEARING, H.S. REAR	1	064 50619 000
BEARING, L.S. REAR	1	064 50621 000
BEARING, L.S. FRONT	1	064 50620 000
BEARING, H.S. FWD THRUST	1	029 20900 002
BEARING, L.S. THRUST	1	029 23760 000
COLLAR, THRUST L.S.	1	064 47770 000
COLLAR, THRUST H.S.	1	064 47904 000

HB 61 BEARING KIT		
664 48646 000		
DESCRIPTION	QTY.	PART NUMBER
BEARING, THRUST L.S.	1	029 20839 001
BEARING, THRUST H.S.	1	029 20900 001
COLLAR, THRUST L.S.	1	064 47770 000
BEARING, H.S. FRONT	1	064 47900 000
BEARING, L.S. REAR	1	064 47901 000
BEARING, L.S. FRONT	1	064 47902 000
COLLAR, THRUST H.S.	1	064 47904 000
BEARING, H.S. REAR	1	064 48208 000

HA 81, 90, 104 BEARING KIT		
464 49802 000		
DESCRIPTION	QTY.	PART NUMBER
BEARING, THRUST L.S.	1	029 20839 001
BEARING, THRUST H.S.	1	029 20896 002
COLLAR, THRUST H.S.	1	064 47855 000
COLLAR, THRUST L.S.	1	064 47856 000
BEARING, L.S. FRONT	1	064 47857 000
BEARING, L.S. REAR	1	064 47858 000
BEARING, H.S. REAR	1	064 48207 000
BEARING, H.S. FRONT	1	064 48223 000

HE 50, 57, 59, 61 BEARING KIT		
464 49801 000		
DESCRIPTION	QTY.	PART NUMBER
BEARING, H.S. REAR	1	064 49164 000
BEARING, L.S. REAR	1	064 49162 000
BEARING, L.S. FRONT	1	064 49161 000
BEARING, H.S. FWD THRUST	1	029 22451 000
COLLAR, H.S. THRUST	1	064 50392 001
COLLAR, L.S. THRUST	1	064 49158 000
BEARING, H.S. FRONT	1	064 49163 000
BEARING, L.S. THRUST	1	029 22450 000

HA 119 BEARING KIT		
464 51830 000		
DESCRIPTION	QTY.	PART NUMBER
BEARING, THRUST L.S.	1	029 24757 000
BEARING, THRUST H.S.	1	029 24759 000
COLLAR, THRUST H.S.	1	064 51493 000
COLLAR, THRUST L.S.	1	064 51492 000
BEARING, L.S. FRONT	1	064 47857 000
BEARING, L.S. REAR	1	064 47858 000
BEARING, H.S. REAR	1	064 51494 000
BEARING, H.S. FRONT	1	064 51495 000

HE 70 BEARING KIT		
464 51831 000		
DESCRIPTION	QTY.	PART NUMBER
BEARING, THRUST L.S.	1	029 22450 000
BEARING, THRUST H.S.	1	029 22451 000
COLLAR, THRUST L.S.	1	064 49158 000
BEARING, H. S. FRONT	1	064 49163 000
BEARING, L.S. REAR	1	064 49162 000
BEARING, L.S. FRONT	1	064 49161 000
COLLAR, THRUST H.S.	1	064 50392 001
BEARING, H.S. REAR	1	064 49164 000

O-RING KITS W/O VGD

HA 41 O-RING KIT		
664 48648 000		
DESCRIPTION	QTY.	PART NUMBER
SEAL, O-RING 1 1/8 ID X 1/8	3	028 12200 000
SEAL, O-RING 1 ID X 1/8	1	028 12201 000
SEAL, O-RING .301 ID X .064	1	028 12209 000
SEAL, O-RING 8 ID X 8-1/4 OD X	1	028 12255 000
SEAL, O-RING 18 ID X 18-1/4 OD	1	028 12257 000
SEAL, O-RING 1-1/4 ID X	1	028 05181 000
SEAL, O-RING 5-5/8 ID X 5-7/8	1	028 12258 000
SEAL, O-RING 4-1/4 ID X 4-1/2	1	028 12259 000
SEAL, O-RING SPLICED 28.482 ID	1	028 12260 000
SEAL, O-RING .351 X	1	028 13832 000
SEAL, O-RING 7 ID X 7-1/4 OD X	1	028 12550 000
SEAL, O-RING NEOPRENE	9	028 12961 003
SEAL, O-RING 5/16 ID X	2	028 12513 000
GASKET, 2-1/2 OD X 2 ID X 1/32	1	064 47751 000
GASKET, ROT SUP/SCROLL 36 - 57	1	064 47875 000

HB 61 O-RING KIT		
464 51840 000		
DESCRIPTION	QTY.	PART NUMBER
SEAL, O-RING 8 ID X 8-1/4 OD X	1	028 12255 000
SEAL, O-RING NEOPRENE	1	028 12961 004
SEAL, O-RING 8-1/2 ID X	1	028 12902 000
SEAL, O-RING .301 ID X .064	1	028 12209 000
SEAL, O-RING 5/16 ID X	1	028 12513 000
SEAL, O-RING 5-5/8 ID X 5-7/8	1	028 12258 000
SEAL, O-RING 1-1/8 ID X	2	028 12200 000
SEAL, O-RING 1 ID X 1/8	1	028 12201 000
SEAL, O-RING NEOPRENE	1	028 12961 008
SEAL, O-RING 18 ID X 18-1/4 OD	1	028 12257 000
SEAL, O-RING 4-1/4 ID X 4-1/2	1	028 12259 000
SEAL, O-RING SPLICED 28.482 ID	1	028 12260 000
SEAL, O-RING .351 X	1	028 13832 000
SEAL, O-RING NEOPRENE	9	028 12961 003
GASKET, 2-1/2 OD X 2 ID X 1/32	1	064 47751 000
GASKET, ROT SUP/SCROLL 36 - 57	1	064 47875 000

HE 50 O-RING KIT		
464 51843 000		
DESCRIPTION	QTY.	PART NUMBER
SEAL, O-RING 7 ID X 7-1/4 OD	1	028 12550 000
SEAL, O-RING .351 ID X	2	028 13832 000
SEAL, O-RING 24.462 ID X	1	028 13847 000
SEAL, O-RING 4-1/8 ID X 4-3/8	1	028 12205 000
SEAL, O-RING 18 ID X 18-1/4 OD	1	028 12257 000
SEAL, O-RING 26.623 ID X	1	028 13846 000
SEAL, O-RING 5/16 ID X	3	028 12513 000
SEAL, O-RING 5-5/8 ID X 5-7/8 OD	1	028 12258 000
SEAL, O-RING 1-1/8 ID X 1/8	2	028 12200 000
SEAL, O-RING 1 ID X 1/8	1	028 12201 000
SEAL, O-RING 5-3/4 ID X 5-15/16	1	028 13870 000
SEAL, O-RING NEOPRENE	1	028 12961 008
SEAL, O-RING NEOPRENE	1	028 12961 004
SEAL, O-RING .301 ID X .064	2	028 12209 000

HE 57, 59, 61 O-RING KIT		
464 49800 000		
DESCRIPTION	QTY.	PART NUMBER
SEAL, O-RING 7 ID X 7-1/4 OD X	1	028 12550 000
SEAL, O-RING 24.462 ID X	1	028 13847 000
SEAL, O-RING 4-1/8 ID X 4-3/8	1	028 12205 000
SEAL, O-RING 18 ID X 18-1/4 OD	1	028 12257 000
SEAL, O-RING 26.623 ID X	1	028 13846 000
SEAL, O-RING 5/16 ID X	4	028 12513 000

O-RING KITS W/O VGD

HG 65-73 O-RING KIT		
464 50725 000		
DESCRIPTION	QTY.	PART NUMBER
SEAL, O-RING 8 ID X 8-1/4 OD X	1	028 12255 000
SEAL, O-RING NEOPRENE	1	028 12961 004
SEAL, O-RING .351 ID X	1	028 13832 000
SEAL, O-RING 2-9/16 ID X 2-3/4	3	028 11976 000
SEAL, O-RING NEOPRENE	1	028 12961 008
SEAL, O-RING .301 ID X .064	1	028 12209 000
SEAL, O-RING 5/16 ID X	2	028 12513 000
SEAL, O-RING 5-5/8 ID X 5-7/8	1	028 12258 000
SEAL, O-RING 1-1/8 ID X 1/8	3	028 12200 000
SEAL, O-RING 1 ID X 1/8	1	028 12201 000
SEAL, O-RING SPLICED 37.050 ID	1	028 15083 000
SEAL, O-RING SPLICED 19.719 ID	1	028 12227 000
SEAL, O-RING 4-1/4 ID X 4-1/2	1	028 12259 000
SEAL, O-RING SPLICED 31.174 ID	1	028 15072 000
SEAL, O-RING NEOPRENE	1	028 12961 005
SEAL, O-RING NEOPRENE	1	028 12961 006
SEAL, O-RING 8.234 ID X	1	028 15078 000
SEAL, O-RING 3-3/4 ID X 3-15/16	2	028 15074 000
SEAL, O-RING NEOPRENE	10	028 12961 003

HA 81, 90 O-RING KIT		
464 50761 000		
DESCRIPTION	QTY.	PART NUMBER
SEAL, O-RING .301 ID X .064	1	028 12209 000
SEAL, O-RING 5/16 ID X	2	028 12513 000
SEAL, O-RING 10-1/2 ID X 1/8	1	028 12226 000
SEAL, O-RING 6-1/2 ID X 1/8	1	028 12224 000
SEAL, O-RING 1-1/8 ID X 1/8	3	028 12200 000
SEAL, O-RING SPLICED 37.050 ID	1	028 15083 000
SEAL, O-RING SPLICED 32.456 ID	1	028 12569 000
SEAL, O-RING 4-7/8 ID X 1/8	1	028 12225 000
SEAL, O-RING SPLICED 34.067 ID	1	028 12248 000
SEAL, O-RING NEOPRENE	1	028 12961 005
SEAL, O-RING NEOPRENE	1	028 13832 000
SEAL, O-RING NEOPRENE	1	028 15078 000
SEAL, O-RING NEOPRENE	1	028 12961 006
SEAL, O-RING NEOPRENE	4	028 12961 004
SEAL, O-RING NEOPRENE	2	028 12961 008
SEAL, O-RING NEOPRENE	11	028 12961 003

O-RING KITS W/ VGD

HE 70 O-RING KIT		
464 51833 000		
DESCRIPTION	QTY.	PART NUMBER
SEAL, O-RING 7 ID X 7-1/4 OD	1	028 12550 000
SEAL, O-RING NEOPRENE	1	028 12961 006
SEAL, O-RING .351 ID X	2	028 13832 000
SEAL, O-RING NEOPRENE	1	028 12961 001
SEAL, O-RING 24.462 ID X	1	028 13847 000
SEAL, O-RING 4-1/8 ID X 4-3/8	1	028 12205 000
SEAL, O-RING 26.623 ID X	1	028 13846 000
SEAL, O-RING 5/16 ID X	3	028 12513 000
SEAL, O-RING 5-5/8 ID X 5-7/8	1	028 12258 000
SEAL, O-RING 1-1/8 ID X 1/8	4	028 12200 000
SEAL, O-RING 1-3/4 ID X	1	028 05188 000
SEAL, O-RING 5-3/4 ID X 5-15/16	1	028 13870 000
SEAL, O-RING NEOPRENE	1	028 12961 008
SEAL, O-RING NEOPRENE	2	028 12961 004
SEAL, O-RING .301 ID X .064	2	028 12209 000
SEAL, O-RING NEOPRENE	2	028 12961 005
SEAL, O-RING 8.234 ID X	1	028 15078 000
SEAL, O-RING NEOPRENE	8	028 12961 003
SEAL, O-RING SPLICED 19.719 ID	1	028 12227 000

HA 81, 90, 104 O-RING KIT		
464 51841 000		
DESCRIPTION	QTY.	PART NUMBER
SEAL, O-RING .301 ID X .064	1	028 12209 000
SEAL, O-RING 5/16 ID X	2	028 12513 000
SEAL, O-RING 10-1/2 ID X 1/8	1	028 12226 000
SEAL, O-RING 6-1/2 ID X 1/8	1	028 12224 000
SEAL, O-RING 1-1/8 ID X 1/8	4	028 12200 000
SEAL, O-RING SPLICED 37.050 ID	1	028 15083 000
SEAL, O-RING SPLICED 32.456 ID	1	028 12569 000
SEAL, O-RING 4-7/8 ID X 1/8	1	028 12225 000
SEAL, O-RING SPLICED 34.067 ID	1	028 12248 000
SEAL, O-RING NEOPRENE	4	028 12961 004
SEAL, O-RING NEOPRENE	2	028 12961 008
SEAL, O-RING NEOPRENE	1	028 12961 006
SEAL, O-RING NEOPRENE	2	028 12961 005
SEAL, O-RING 8.234 ID X	1	028 15078 000
SEAL, O-RING NEOPRENE	11	028 12961 003
SEAL, O-RING NEOPRENE	1	028 12961 001
SEAL, O-RING NEOPRENE	1	028 13832 000

HG 65-73 O-RING KIT		
464 51842 000		
DESCRIPTION	QTY.	PART NUMBER
SEAL, O-RING 8 ID X 8-1/4 OD X	1	028 12255 000
SEAL, O-RING NEOPRENE	4	028 12961 004
SEAL, O-RING .351 ID X	1	028 13832 000
SEAL, O-RING 2-9/16 ID X 2-3/4	3	028 11976 000
SEAL, O-RING NEOPRENE	1	028 12961 008
SEAL, O-RING .301 ID X .064	1	028 12209 000
SEAL, O-RING 5/16 ID X	2	028 12513 000
SEAL, O-RING 5-5/8 ID X 5-7/8	1	028 12258 000
SEAL, O-RING 1-1/8 ID X 1/8	4	028 12200 000
SEAL, O-RING NEOPRENE	1	028 12961 001
SEAL, O-RING NEOPRENE	1	028 12961 006
SEAL, O-RING NEOPRENE	2	028 12961 005
SEAL, O-RING 8.234 ID X	1	028 15078 000
SEAL, O-RING SPLICED 37.050 ID	1	028 15083 000
SEAL, O-RING SPLICED 19.719 ID	1	028 12227 000
SEAL, O-RING 4-1/4 ID X 4-1/2	1	028 12259 000
SEAL, O-RING SPLICED 31.174 ID	1	028 15072 000
SEAL, O-RING 3-3/4 ID X 3-15/16	2	028 15074 000
SEAL, O-RING NEOPRENE	11	028 12961 003

HA 119 O-RING KIT		
464 51832 000		
DESCRIPTION	QTY.	PART NUMBER
SEAL, O-RING 10-1/2 ID X 1/8	1	028 12226 000
SEAL, O-RING NEOPRENE	1	028 12961 006
SEAL, O-RING NEOPRENE	9	028 12961 003
SEAL, O-RING NEOPRENE	1	028 12961 008
SEAL, O-RING 5-7/8 ID X 1/8	1	028 12204 000
SEAL, O-RING 1-1/8 ID X 1/8	4	028 12200 000
SEAL, O-RING NEOPRENE	2	028 12961 005
SEAL, O-RING 6-3/4 ID X	1	028 15446 000
SEAL, O-RING MOLDED 44.050 ID	1	028 15443 000
SEAL, O-RING 8.234 ID X	1	028 15078 000
SEAL, O-RING SPLICED 33.510 ID	1	028 15445 000
SEAL, O-RING 5-5/8 ID X 5-7/8	1	028 12258 000
SEAL, O-RING NEOPRENE	1	028 12961 001
SEAL, O-RING 40.690 ID	1	028 15444 000
SEAL, O-RING .351 ID X	3	028 13832 000
SEAL, O-RING NEOPRENE	2	028 12961 004
SEAL, O-RING 7/16 ID X 3/32	1	028 15428 000

NOTES

NOTES

NOTES



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