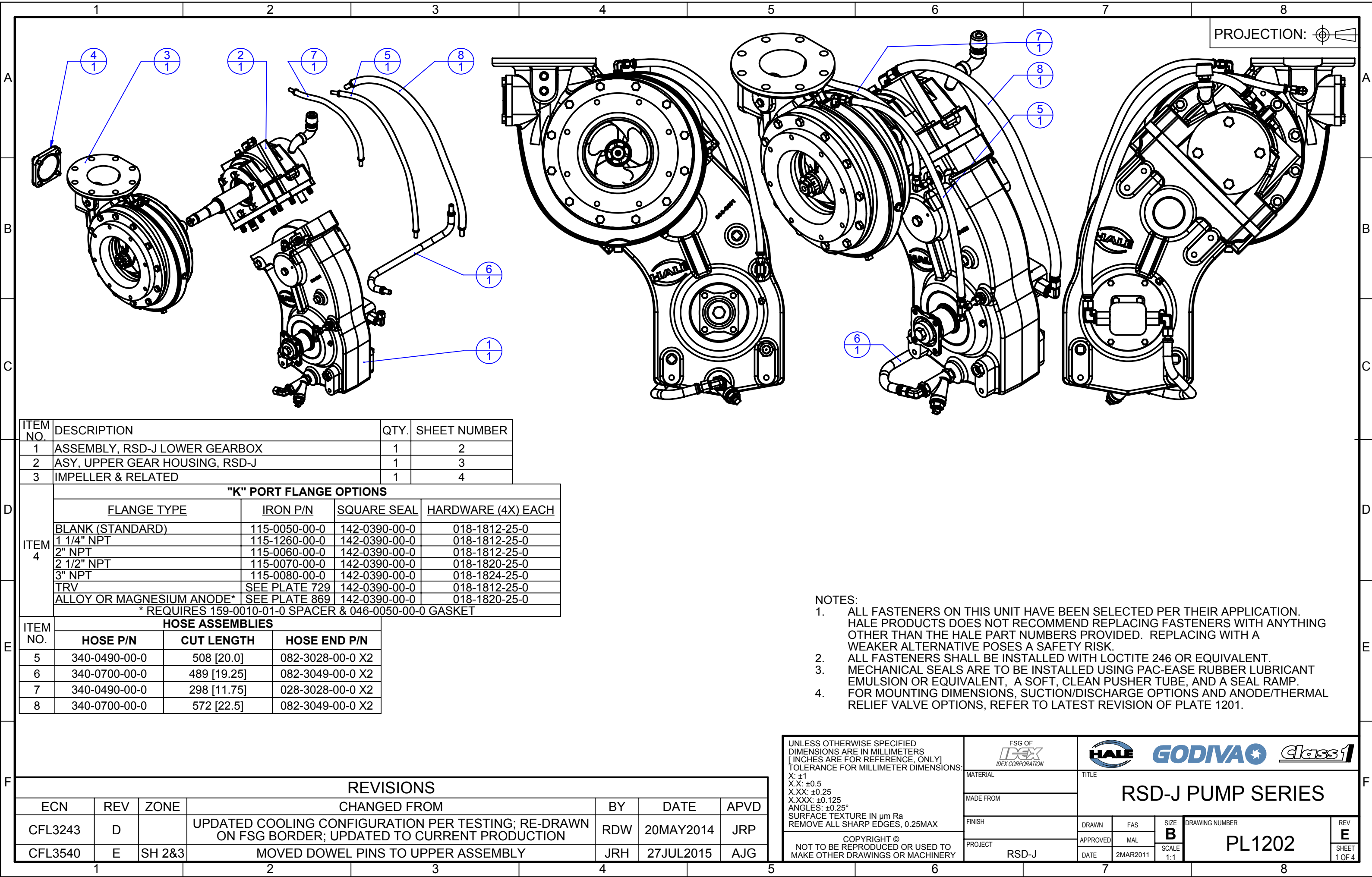




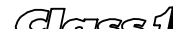
ITEM NO.	DESCRIPTION	QTY.	SHEET NUMBER
1	ASSEMBLY, RSD-J LOWER GEARBOX	1	2
2	ASY, UPPER GEAR HOUSING, RSD-J	1	3
3	IMPELLER & RELATED	1	4

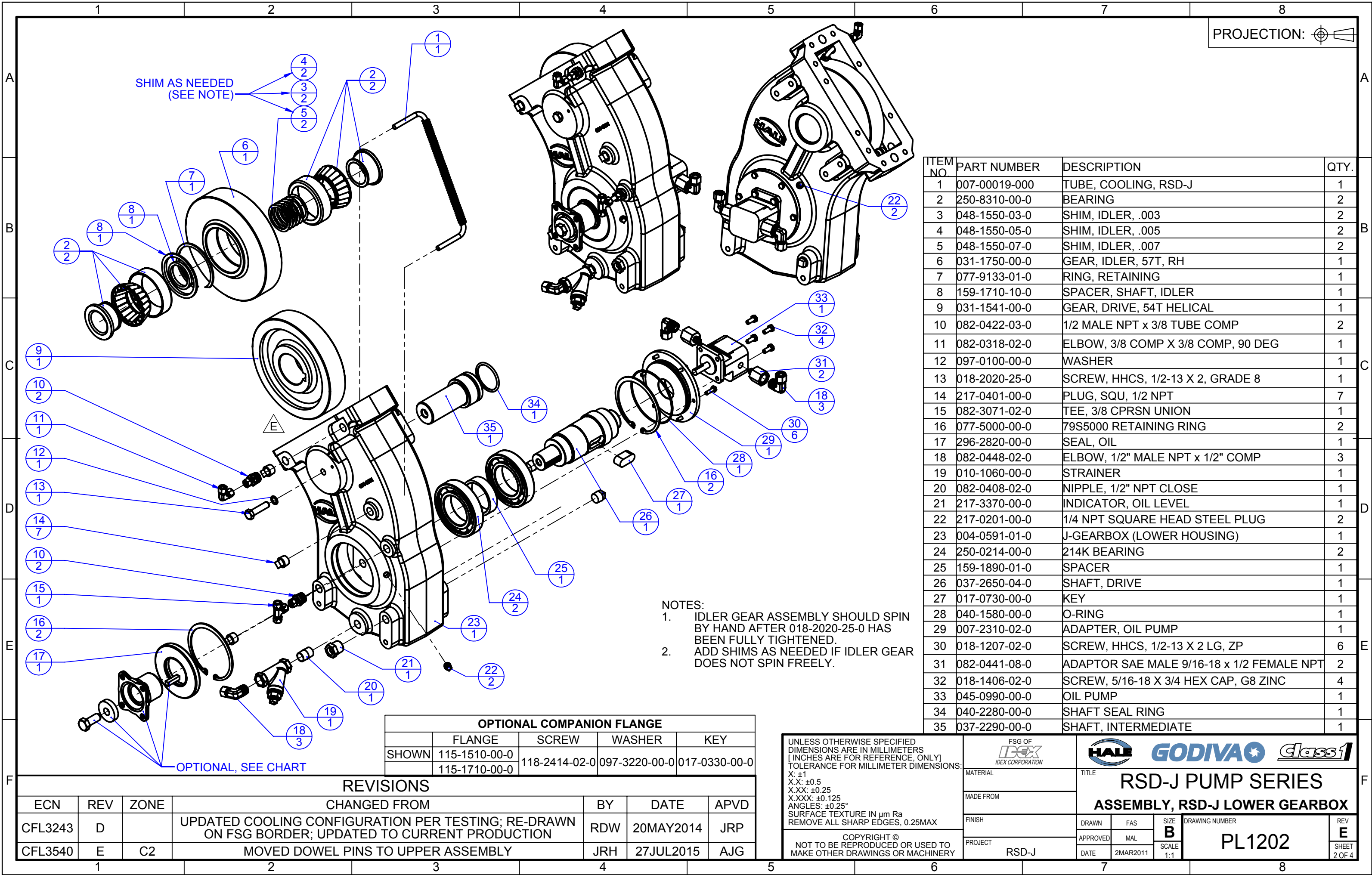
ITEM 4	"K" PORT FLANGE OPTIONS			
	FLANGE TYPE	IRON P/N	SQUARE SEAL	HARDWARE (4X) EACH
	BLANK (STANDARD)	115-0050-00-0	142-0390-00-0	018-1812-25-0
	1 1/4" NPT	115-1260-00-0	142-0390-00-0	018-1812-25-0
	2" NPT	115-0060-00-0	142-0390-00-0	018-1812-25-0
	2 1/2" NPT	115-0070-00-0	142-0390-00-0	018-1820-25-0
	3" NPT	115-0080-00-0	142-0390-00-0	018-1824-25-0
	TRV	SEE PLATE 729	142-0390-00-0	018-1812-25-0
	ALLOY OR MAGNESIUM ANODE*	SEE PLATE 869	142-0390-00-0	018-1820-25-0
	* REQUIRES 159-0010-01-0 SPACER & 046-0050-00-0 GASKET			

ITEM NO.	HOSE ASSEMBLIES		
	HOSE P/N	CUT LENGTH	HOSE END P/N
5	340-0490-00-0	508 [20.0]	082-3028-00-0 X2
6	340-0700-00-0	489 [19.25]	082-3049-00-0 X2
7	340-0490-00-0	298 [11.75]	028-3028-00-0 X2
8	340-0700-00-0	572 [22.5]	082-3049-00-0 X2

- NOTES:
- ALL FASTENERS ON THIS UNIT HAVE BEEN SELECTED PER THEIR APPLICATION. HALE PRODUCTS DOES NOT RECOMMEND REPLACING FASTENERS WITH ANYTHING OTHER THAN THE HALE PART NUMBERS PROVIDED. REPLACING WITH A WEAKER ALTERNATIVE POSES A SAFETY RISK.
 - ALL FASTENERS SHALL BE INSTALLED WITH LOCTITE 246 OR EQUIVALENT.
 - MECHANICAL SEALS ARE TO BE INSTALLED USING PAC-EASE RUBBER LUBRICANT EMULSION OR EQUIVALENT, A SOFT, CLEAN PUSHER TUBE, AND A SEAL RAMP.
 - FOR MOUNTING DIMENSIONS, SUCTION/DISCHARGE OPTIONS AND ANODE/THERMAL RELIEF VALVE OPTIONS, REFER TO LATEST REVISION OF PLATE 1201.

REVISIONS						
ECN	REV	ZONE	CHANGED FROM	BY	DATE	APVD
CFL3243	D		UPDATED COOLING CONFIGURATION PER TESTING; RE-DRAWN ON FSG BORDER; UPDATED TO CURRENT PRODUCTION	RDW	20MAY2014	JRP
CFL3540	E	SH 2&3	MOVED DOWEL PINS TO UPPER ASSEMBLY	JRH	27JUL2015	AJG

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS [INCHES ARE FOR REFERENCE, ONLY] TOLERANCE FOR MILLIMETER DIMENSIONS: X: ±1 X.X: ±0.5 X.XX: ±0.25 X.XXX: ±0.125 ANGLES: ±0.25° SURFACE TEXTURE IN µm Ra REMOVE ALL SHARP EDGES, 0.25MAX	FSG OF 		  					
	MATERIAL		TITLE RSD-J PUMP SERIES					
	MADE FROM							
	FINISH		DRAWN	FAS	SIZE B	DRAWING NUMBER PL1202	REV E	
	PROJECT RSD-J		APPROVED	MAL			SHEET 1 OF 4	
		DATE	2MAR2011	SCALE 1:1				



PROJECTION:

ITEM NO	PART NUMBER	DESCRIPTION	QTY.
1	007-00019-000	TUBE, COOLING, RSD-J	1
2	250-8310-00-0	BEARING	2
3	048-1550-03-0	SHIM, IDLER, .003	2
4	048-1550-05-0	SHIM, IDLER, .005	2
5	048-1550-07-0	SHIM, IDLER, .007	2
6	031-1750-00-0	GEAR, IDLER, 57T, RH	1
7	077-9133-01-0	RING, RETAINING	1
8	159-1710-10-0	SPACER, SHAFT, IDLER	1
9	031-1541-00-0	GEAR, DRIVE, 54T HELICAL	1
10	082-0422-03-0	1/2 MALE NPT x 3/8 TUBE COMP	2
11	082-0318-02-0	ELBOW, 3/8 COMP X 3/8 COMP, 90 DEG	1
12	097-0100-00-0	WASHER	1
13	018-2020-25-0	SCREW, HHCS, 1/2-13 X 2, GRADE 8	1
14	217-0401-00-0	PLUG, SQU, 1/2 NPT	7
15	082-3071-02-0	TEE, 3/8 CPRSN UNION	1
16	077-5000-00-0	79S5000 RETAINING RING	2
17	296-2820-00-0	SEAL, OIL	1
18	082-0448-02-0	ELBOW, 1/2" MALE NPT x 1/2" COMP	3
19	010-1060-00-0	STRAINER	1
20	082-0408-02-0	NIPPLE, 1/2" NPT CLOSE	1
21	217-3370-00-0	INDICATOR, OIL LEVEL	1
22	217-0201-00-0	1/4 NPT SQUARE HEAD STEEL PLUG	2
23	004-0591-01-0	J-GEARBOX (LOWER HOUSING)	1
24	250-0214-00-0	214K BEARING	2
25	159-1890-01-0	SPACER	1
26	037-2650-04-0	SHAFT, DRIVE	1
27	017-0730-00-0	KEY	1
28	040-1580-00-0	O-RING	1
29	007-2310-02-0	ADAPTER, OIL PUMP	1
30	018-1207-02-0	SCREW, HHCS, 1/2-13 X 2 LG, ZP	6
31	082-0441-08-0	ADAPTOR SAE MALE 9/16-18 x 1/2 FEMALE NPT	2
32	018-1406-02-0	SCREW, 5/16-18 X 3/4 HEX CAP, G8 ZINC	4
33	045-0990-00-0	OIL PUMP	1
34	040-2280-00-0	SHAFT SEAL RING	1
35	037-2290-00-0	SHAFT, INTERMEDIATE	1

- NOTES:
1. IDLER GEAR ASSEMBLY SHOULD SPIN BY HAND AFTER 018-2020-25-0 HAS BEEN FULLY TIGHTENED.
 2. ADD SHIMS AS NEEDED IF IDLER GEAR DOES NOT SPIN FREELY.

OPTIONAL COMPANION FLANGE				
	FLANGE	SCREW	WASHER	KEY
SHOWN	115-1510-00-0	118-2414-02-0	097-3220-00-0	017-0330-00-0
	115-1710-00-0			

REVISIONS

ECN	REV	ZONE	CHANGED FROM	BY	DATE	APVD
CFL3243	D		UPDATED COOLING CONFIGURATION PER TESTING; RE-DRAWN ON FSG BORDER; UPDATED TO CURRENT PRODUCTION	RDW	20MAY2014	JRP
CFL3540	E	C2	MOVED DOWEL PINS TO UPPER ASSEMBLY	JRH	27JUL2015	AJG

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X: ±1
X.X: ±0.5
X.XX: ±0.25
X.XXX: ±0.125
ANGLES: ±0.25°
SURFACE TEXTURE IN µm Ra
REMOVE ALL SHARP EDGES, 0.25MAX

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MATERIAL

MADE FROM

FINISH

PROJECT
RSD-J

TITLE
RSD-J PUMP SERIES
ASSEMBLY, RSD-J LOWER GEARBOX

DRAWN
FAS

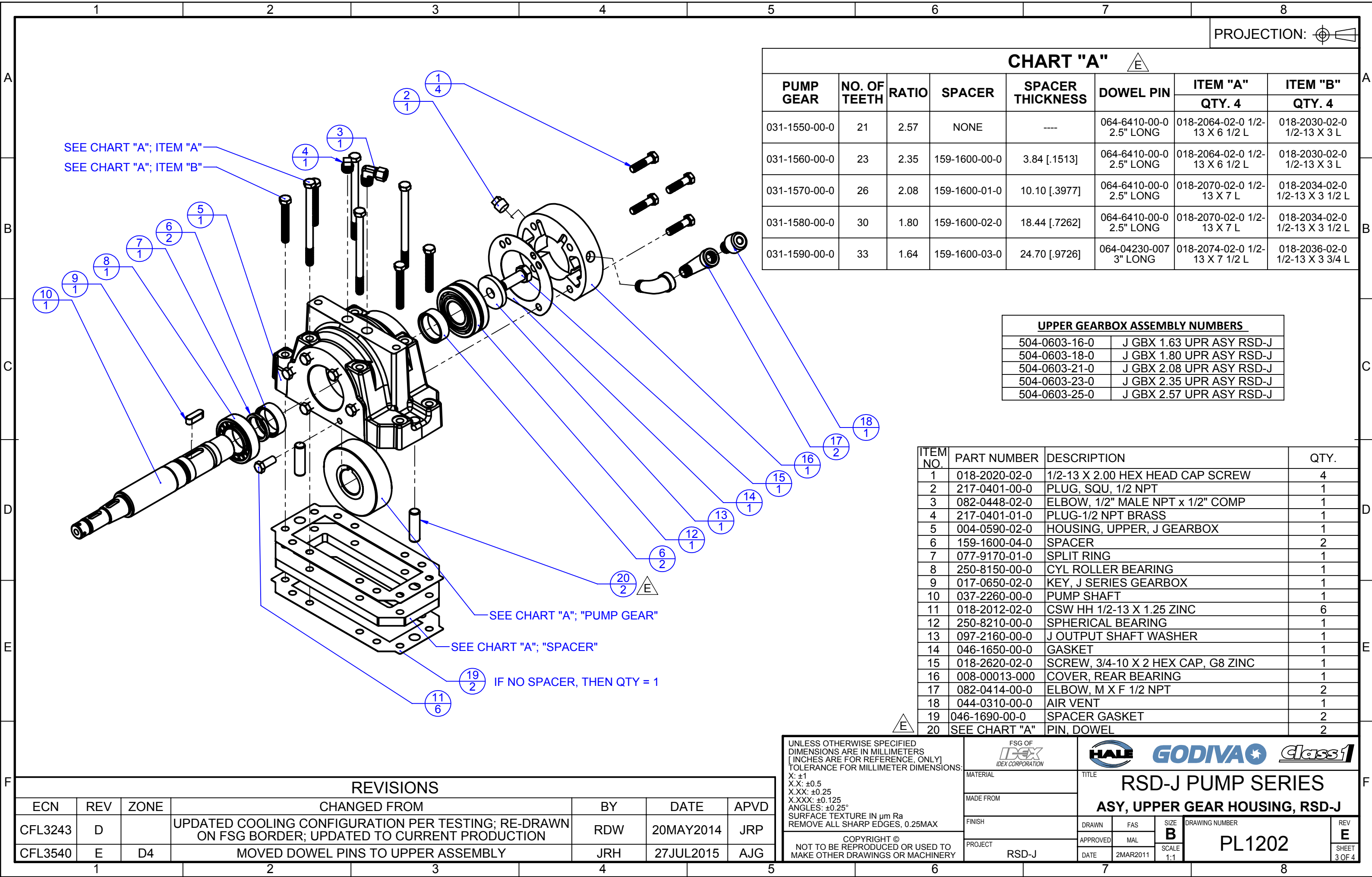
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MAL

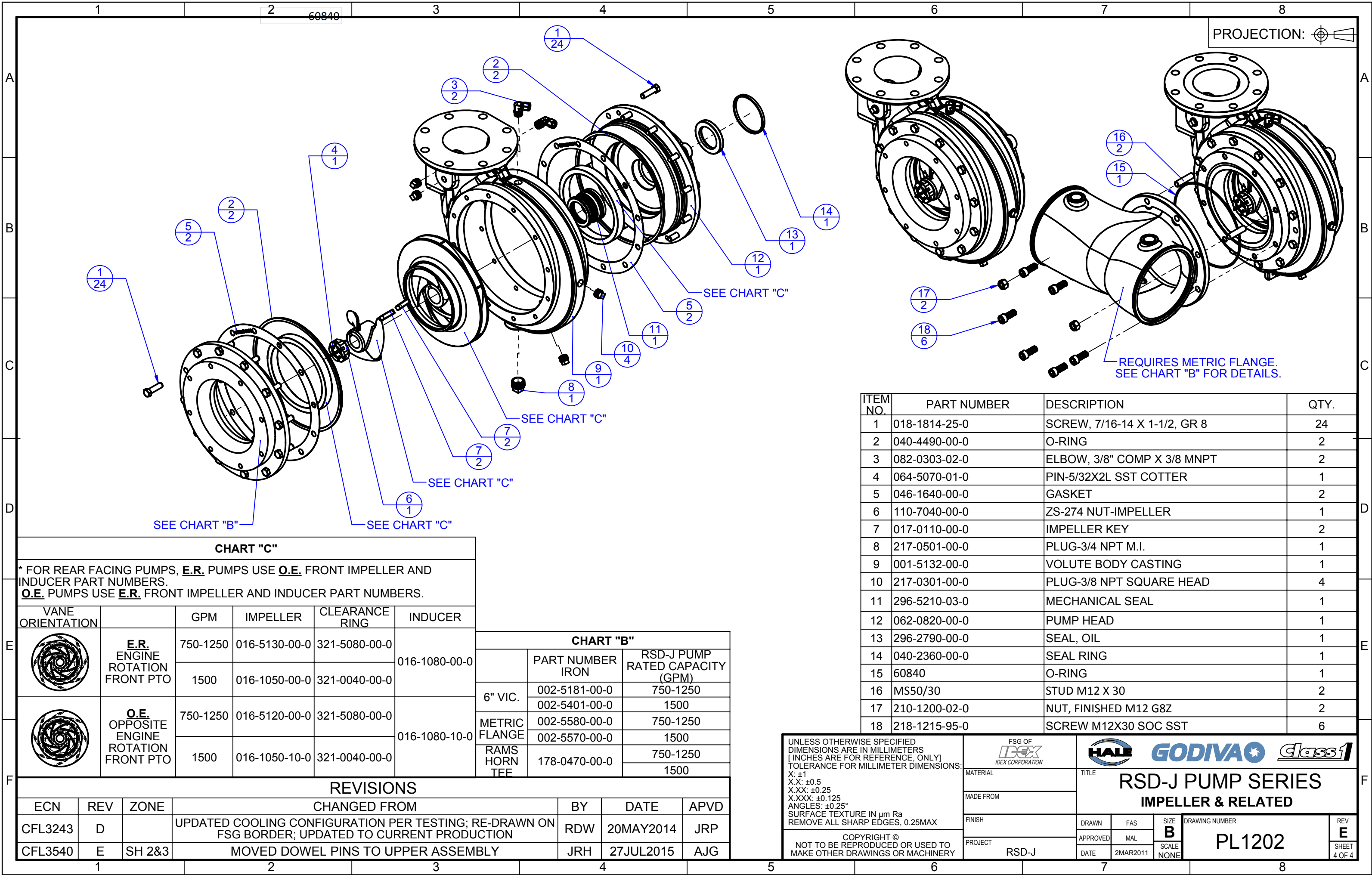
DATE
2MAR2011

SIZE
B
SCALE
1:1

DRAWING NUMBER
PL1202

REV
E
SHEET
2 OF 4





SEE CHART "B"

SEE CHART "C"

SEE CHART "C"

SEE CHART "C"

SEE CHART "C"

REQUIRES METRIC FLANGE.
SEE CHART "B" FOR DETAILS.

CHART "C"

* FOR REAR FACING PUMPS, **E.R.** PUMPS USE **O.E.** FRONT IMPELLER AND INDUCER PART NUMBERS.
O.E. PUMPS USE **E.R.** FRONT IMPELLER AND INDUCER PART NUMBERS.

VANE ORIENTATION		GPM	IMPELLER	CLEARANCE RING	INDUCER
	E.R. ENGINE ROTATION FRONT PTO	750-1250	016-5130-00-0	321-5080-00-0	016-1080-00-0
		1500	016-1050-00-0	321-0040-00-0	
	O.E. OPPOSITE ENGINE ROTATION FRONT PTO	750-1250	016-5120-00-0	321-5080-00-0	016-1080-10-0
		1500	016-1050-10-0	321-0040-00-0	

CHART "B"

	PART NUMBER IRON	RSD-J PUMP RATED CAPACITY (GPM)
6" VIC.	002-5181-00-0	750-1250
	002-5401-00-0	1500
METRIC FLANGE	002-5580-00-0	750-1250
	002-5570-00-0	1500
RAMS HORN TEE	178-0470-00-0	750-1250 1500

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CFL3540	E	SH 2&3	MOVED DOWEL PINS TO UPPER ASSEMBLY	JRH	27JUL2015	AJG

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	018-1814-25-0	SCREW, 7/16-14 X 1-1/2, GR 8	24
2	040-4490-00-0	O-RING	2
3	082-0303-02-0	ELBOW, 3/8" COMP X 3/8 MNPT	2
4	064-5070-01-0	PIN-5/32X2L SST COTTER	1
5	046-1640-00-0	GASKET	2
6	110-7040-00-0	ZS-274 NUT-IMPELLER	1
7	017-0110-00-0	IMPELLER KEY	2
8	217-0501-00-0	PLUG-3/4 NPT M.I.	1
9	001-5132-00-0	VOLUTE BODY CASTING	1
10	217-0301-00-0	PLUG-3/8 NPT SQUARE HEAD	4
11	296-5210-03-0	MECHANICAL SEAL	1
12	062-0820-00-0	PUMP HEAD	1
13	296-2790-00-0	SEAL, OIL	1
14	040-2360-00-0	SEAL RING	1
15	60840	O-RING	1
16	MS50/30	STUD M12 X 30	2
17	210-1200-02-0	NUT, FINISHED M12 G8Z	2
18	218-1215-95-0	SCREW M12X30 SOC SST	6

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HALE **GODIVA** *class1*

RSD-J PUMP SERIES
IMPELLER & RELATED

MATERIAL
MADE FROM
FINISH
PROJECT
RSD-J

DRAWN
FAS
APPROVED
MAL
DATE
2MAR2011

SIZE
B
SCALE
NONE
DRAWING NUMBER
PL1202
REV
E
SHEET
4 OF 4