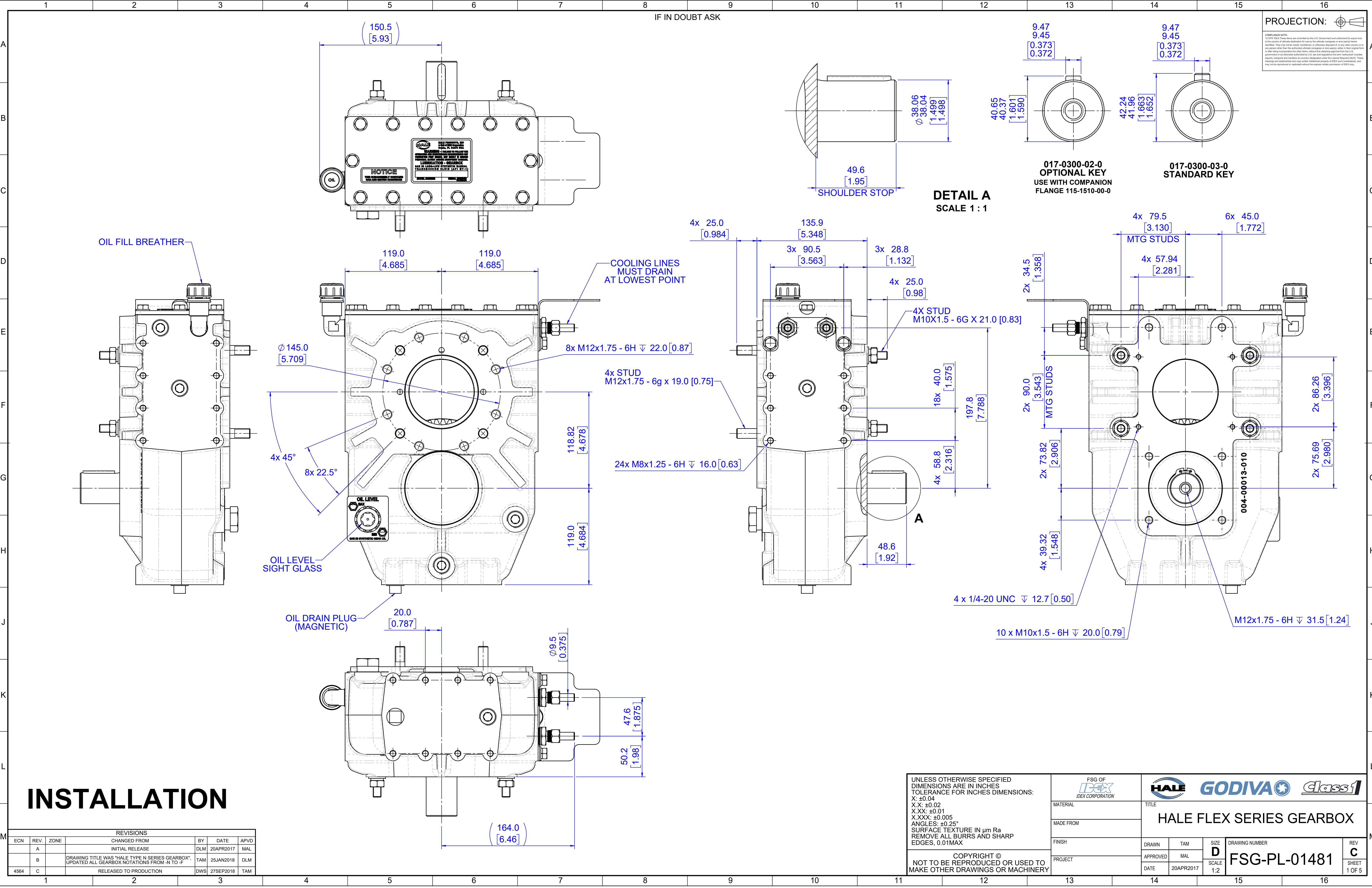




INSTALLATION

REVISIONS						
ECN	REV.	ZONE	CHANGED FROM	BY	DATE	APVD
	A		INITIAL RELEASE	DLM	20APR2017	MAL
	B		DRAWING TITLE WAS "HALE TYPE N SERIES GEARBOX", UPDATED ALL GEARBOX NOTATIONS FROM "N TO "F"	TAM	25JAN2018	DLM
4564	C		RELEASED TO PRODUCTION	DWS	27SEP2018	TAM

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCE FOR INCHES DIMENSIONS:
X: ±0.04
X.X: ±0.02
X.XX: ±0.01
X.XXX: ±0.005
ANGLES: ±0.25°
SURFACE TEXTURE IN µm Ra
REMOVE ALL BURRS AND SHARP
EDGES, 0.01MAX

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MAKE OTHER DRAWINGS OR MACHINERY

FSG OF
IDEX
CORPORATION

MATERIAL

MADE FROM

FINISH

PROJECT

HALE

GODIVA

Class1

TITLE
HALE FLEX SERIES GEARBOX

DRAWN

TAM

APPROVED

MAL

DATE

20APR2017

SIZE
D

SCALE
1:2

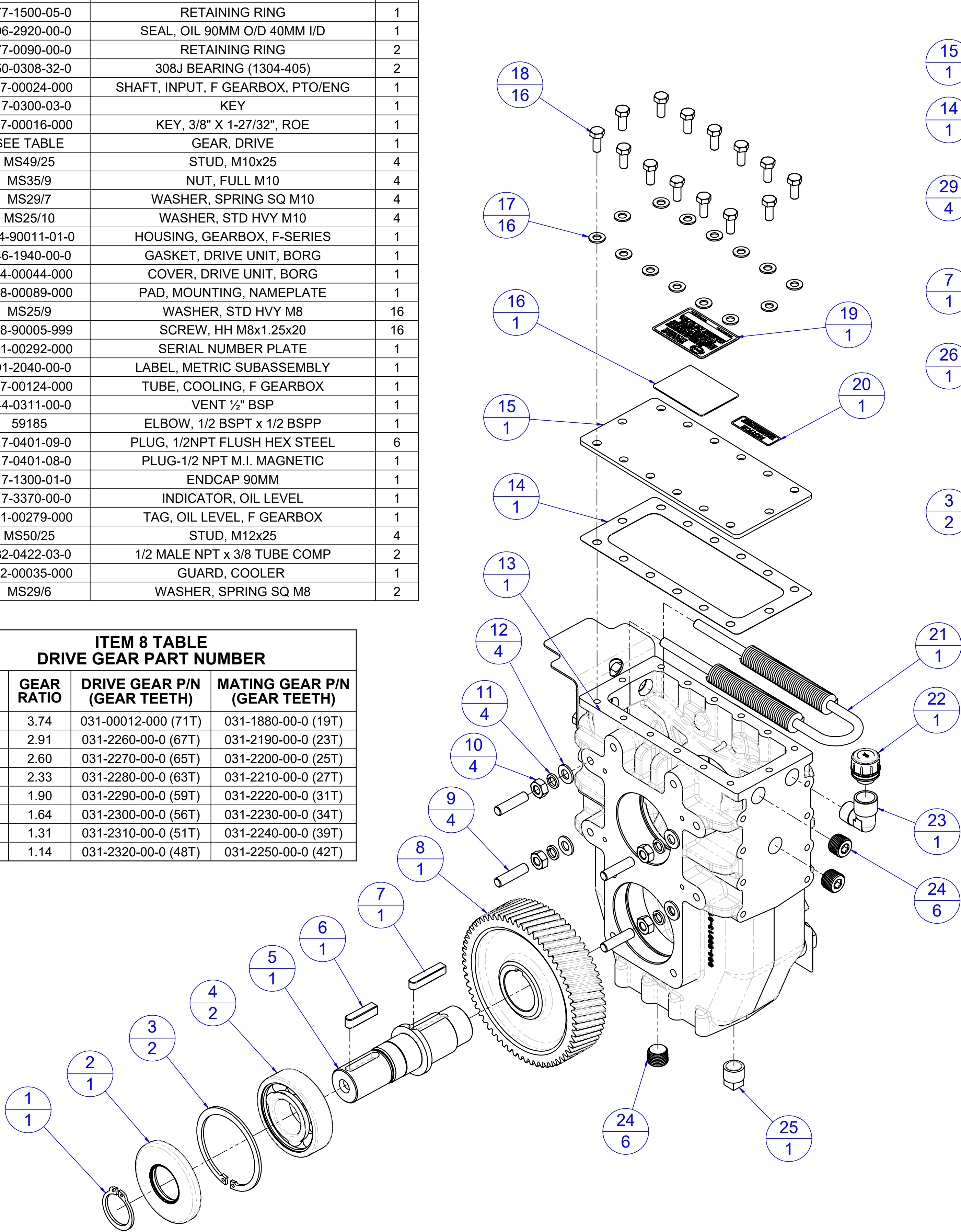
DRAWING NUMBER
FSG-PL-01481

REV
C

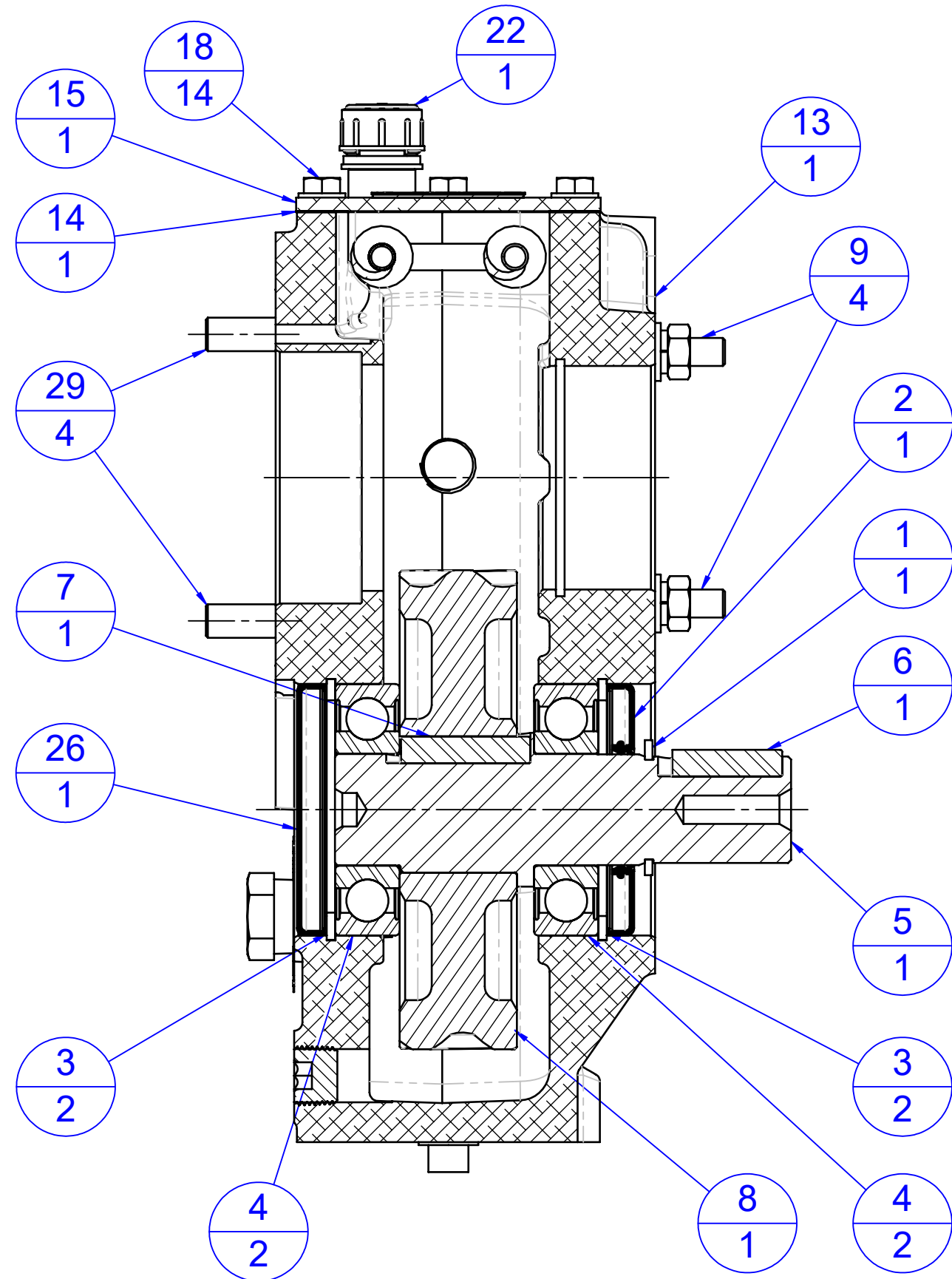
SHEET
1 OF 5

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	077-1500-05-0	RETAINING RING	1
2	296-2920-00-0	SEAL, OIL 90MM O/D 40MM I/D	1
3	277-0090-00-0	RETAINING RING	2
4	250-0308-32-0	308J BEARING (1304-405)	2
5	037-00024-000	SHAFT, INPUT, F GEARBOX, PTO/ENG	1
6	017-0300-03-0	KEY	1
7	017-00016-000	KEY, 3/8" X 1-27/32", ROE	1
8	SEE TABLE	GEAR, DRIVE	1
9	MS49/25	STUD, M10x25	4
10	MS35/9	NUT, FULL M10	4
11	MS29/7	WASHER, SPRING SQ M10	4
12	MS25/10	WASHER, STD HVY M10	4
13	004-90011-01-0	HOUSING, GEARBOX, F-SERIES	1
14	046-1940-00-0	GASKET, DRIVE UNIT, BORG	1
15	044-00044-000	COVER, DRIVE UNIT, BORG	1
16	048-00089-000	PAD, MOUNTING, NAMEPLATE	1
17	MS25/9	WASHER, STD HVY M8	16
18	218-90005-999	SCREW, HH M8x1.25x20	16
19	101-00292-000	SERIAL NUMBER PLATE	1
20	101-2040-00-0	LABEL, METRIC SUBASSEMBLY	1
21	007-00124-000	TUBE, COOLING, F GEARBOX	1
22	044-0311-00-0	VENT 1/2" BSP	1
23	59185	ELBOW, 1/2 BSPT x 1/2 BSPP	1
24	217-0401-09-0	PLUG, 1/2NPT FLUSH HEX STEEL	6
25	217-0401-08-0	PLUG-1/2 NPT M.I. MAGNETIC	1
26	217-1300-01-0	ENDCAP 90MM	1
27	217-3370-00-0	INDICATOR, OIL LEVEL	1
28	101-00279-000	TAG, OIL LEVEL, F GEARBOX	1
29	MS50/25	STUD, M12x25	4
30	082-0422-03-0	1/2 MALE NPT x 3/8 TUBE COMP	2
31	142-00035-000	GUARD, COOLER	1
32	MS29/6	WASHER, SPRING SQ M8	2

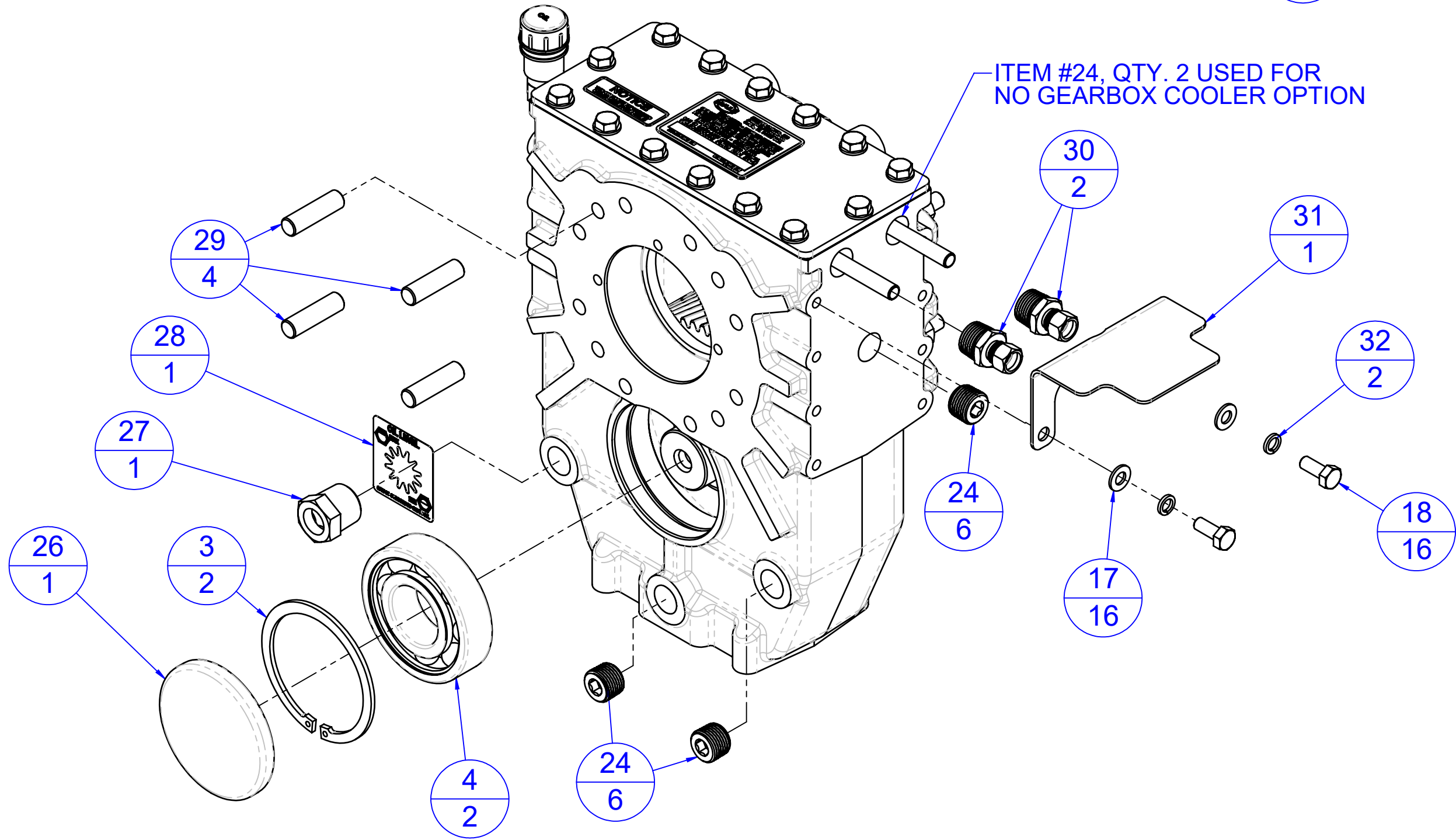
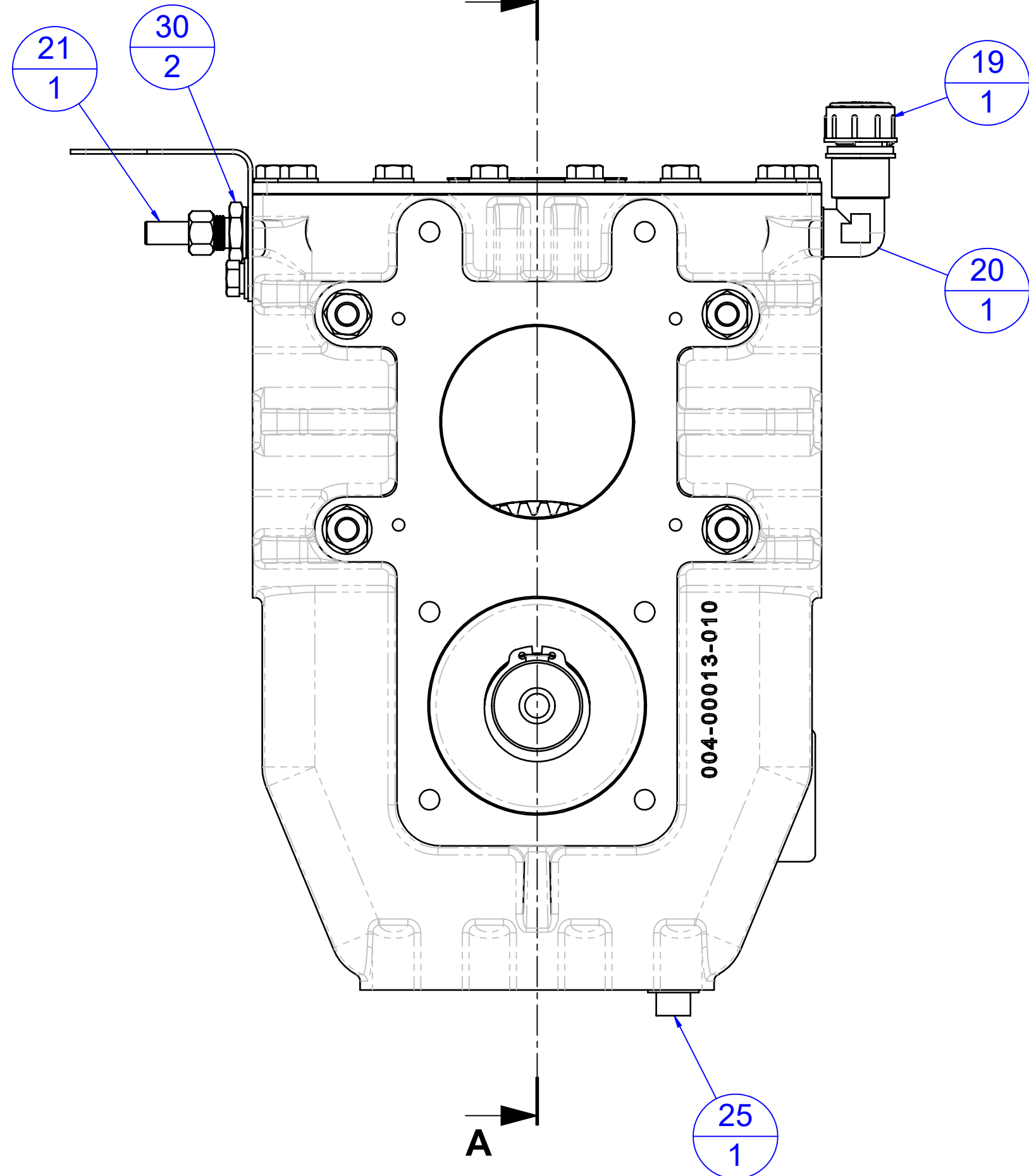
ITEM 8 TABLE DRIVE GEAR PART NUMBER			
RATIO NAME	GEAR RATIO	DRIVE GEAR P/N (GEAR TEETH)	MATING GEAR P/N (GEAR TEETH)
-37F	3.74	031-00012-000 (71T)	031-1880-00-0 (19T)
-29F	2.91	031-2260-00-0 (67T)	031-2190-00-0 (23T)
-26F	2.60	031-2270-00-0 (65T)	031-2200-00-0 (25T)
-23F	2.33	031-2280-00-0 (63T)	031-2210-00-0 (27T)
-19F	1.90	031-2290-00-0 (59T)	031-2220-00-0 (31T)
-16F	1.64	031-2300-00-0 (56T)	031-2230-00-0 (34T)
-13F	1.31	031-2310-00-0 (51T)	031-2240-00-0 (39T)
-11F	1.14	031-2320-00-0 (48T)	031-2250-00-0 (42T)



IF IN DOUBT ASK



SECTION A-A



ITEM #24, QTY. 2 USED FOR
NO GEARBOX COOLER OPTION

PARTS IDENTIFICATION

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 IDEX IDEX CORPORATION		HALE GODIVA Class1	
MATERIAL		MADE FROM		TITLE HALE FLEX SERIES GEARBOX	
FINISH		PROJECT		DRAWN TAM	SIZE D
APPROVED DATE		20APR2017		DRAWING NUMBER FSG-PL-01481	REV C SHEET 2 OF 5

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	077-1500-05-0	RETAINING RING	1
2	017-0300-02-0	KEY	1
3	017-0300-03-0	KEY	1
4	037-00024-000	SHAFT, INPUT, F GEARBOX, PTO/ENG	1
5	115-1510-00-0	1350/1410 COMPANION FLANGE	1
6	115-1710-00-0	1410/1510/1610 COMPANION FLANGE	1
7	097-0890-02-0	WASHER	1
8	MS07/35	SCREW, HEX HD M12x35	1
9	250-0308-32-0	308J BEARING (1304-405)	2
10	MS49/25	STUD, M10x25	4
11	MS25/10	WASHER, STD HVY M10	4
12	MS29/7	WASHER, SPRING SQ M10	4
13	MS35/9	NUT, FULL M10	4
14	004-90011-01-0	HOUSING, GEARBOX, F-SERIES	1

COMPANION FLANGES - PTO DRIVE

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	277-0090-00-0	RETAINING RING	1
2	077-1500-05-0	RETAINING RING	1
3	017-0300-03-0	KEY	2
4	MS65H/25	SCREW, M10-1.5 x 25 mm, HEX SOC HD	4
5	037-00024-001	SHAFT, INPUT, F GEARBOX, AUX DR	1
6	296-2920-00-0	SEAL, OIL 90MM O/D 40MM I/D	1
7	008-00042-000	CAP, BEARING, AUX DRIVE	1
8	142-0520-00-0	SEAL RING	1
9	250-00010	BEARING, 5308CS, ANGULAR CONTACT, DBL ROW	1
10	159-00060-000	SPACER, AUX DR	1
11	115-1710-00-0	1410/1510/1610 COMPANION FLANGE	1
12	097-0890-02-0	WASHER	1
13	MS07/35	SCREW, HEX HD M12x35	1
14	MS49/25	STUD, M10x25	4
15	MS25/10	WASHER, STD HVY M10	4
16	MS29/7	WASHER, SPRING SQ M10	4
17	MS35/9	NUT, FULL M10	4

PTO AUXILIARY DRIVE

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

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IDEX CORPORATION

MATERIAL

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FINISH

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HALE
GODIVA
class1

TITLE

HALE FLEX SERIES GEARBOX

DRAWN

TAM

DATE

20APR2017

SIZE
D

SCALE
1:2

DRAWING NUMBER

FSG-PL-01481

REV
C

SHEET
3 OF 5

M

PROJECTION: 

4 M

REV
C

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