



F3502-0013-pl-02 FMF Vacuum System Assy Injection Casting Furnace Parts List

July 1986

Changing the World's Energy Future

Doug Porter



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<http://www.inl.gov>

**Prepared for the
U.S. Department of Energy
Under DOE Idaho Operations Office
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PART NO.	DRAWING NO.	PART NAME OR DESCRIPTION	REMARKS	FOR PURCH. PARTS ONLY	
				MATERIAL	QTY
	FROM SHEET #4	74g POSITIONER WITH MTS. HARDWARE (E9381F)	FROM SHEET #4		
		PILOT VALVE JB 834511 PILOT AIR SUPPLY 80 PSIG, (CVAE)			
		ELECTRIC 120 VAC, AND LIMIT SWITCH ASSEMBLY (2-DDPT) 8706D WITH MTS. HARDWARE (E9365C)			
		TO ACTUATOR. ALL ASSEMBLED AND TESTED BY MARPAC MARK CONTROLS CORP.			
21		SINGLE RUPTURE DISC HOLDER, INSERT TYPE FOR 2 INCH NPS ANSI 150# FLANGES, FINE G1 INSERT ASSEMBLY		304/316 SST MFG STD	2
22		SINGLE RUPTURE DISC, WITH CPV SUPPORT AND TOP RING FOR 2" NPS FINE G1 INSERT, ALUMINUM, BURST PRESSURE 50 PSIG		MFG STD	1
23		SINGLE RUPTURE DISC, WITH CPV SUPPORT AND TOP RING FOR 2" NPS FINE G1 INSERT, ALUMINUM, BURST PRESSURE 100 PSIG		MFG STD	1
SYM.		CHANGE	BY	CK.	DATE

PART NO.	DRAWING NO.	PART NAME OR DESCRIPTION	REMARKS	FOR PURCH. PARTS ONLY																														
				MATERIAL	QTY.																													
30		FLEXIBLE COUPLING, FLANGE TO FLANGE STRAIGHT CONNECTOR 2" NPS ASA 150 LBS FLANGES WITH SMOOTH FACE -125 RMS FINISH OR BETTER STOKES VACUUM DIVISION (5 1/2" FROM FLG. TO FLG.)	OR EQUAL	MFG STD	1																													
31		VACUUM PUMP, STOKES MECHANICAL MICROVAC MODEL 212 H; 150 CFM DISPLACEMENT, 7.5 HP MOTOR, SINGLE STAGE, 440 VAC, 60 HZ, 3" DIA	OR EQUAL	MFG STD	1																													
32	F3502-0084-EB	GASKET (PARTS 1 THRU 5)	SEE DRAWING		1/16																													
33	F3502-0085-EB	GASKET SPACER RING (PARTS 1 THRU 10)	SEE DRAWING		1/16																													
34		BOLT, HEX HD, 5/8-11 UNC-2A x 1 1/2 LG	ASTM A193 GR B7	37L MFG STD	4																													
35		BOLT, HEX HD, 5/8-11 UNC-2A x 2 1/2 LG	ASTM A193 GR B7	37L MFG STD	60																													
36		NUT, HEX, 5/8-11 UNC-2B	ASTM A194 37L MFG STD	37L MFG STD	60																													
<table><tr><td>SYM.</td><td>CHANGE</td><td>BY</td><td>CK.</td><td>DATE</td><td rowspan="4">THIS PARTS LIST IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY</td><td>ASSEMBLY FINE VACUUM SYSTEM ASSY INJECTION CASTING FURNACE</td><td rowspan="4">SHEET 7 OF 15</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>APPROVED</td><td>ASSEMBLY NO.</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>CHECKED</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>DRAWN</td><td></td></tr></table>						SYM.	CHANGE	BY	CK.	DATE	THIS PARTS LIST IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY	ASSEMBLY FINE VACUUM SYSTEM ASSY INJECTION CASTING FURNACE	SHEET 7 OF 15						APPROVED	ASSEMBLY NO.						CHECKED							DRAWN	
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ANL-146 (1-65) ENGINEERING PARTS LIST

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9/9/1984 1984-753

PART NO.	DRAWING NO.	PART NAME OR DESCRIPTION	REMARKS	FOR PURCH. PARTS ONLY	
				MATERIAL	QTY.
24		PIPE 1/2" SCH 40S MATERIAL ASTM A312-TP 304		SST PER MFG STD	1/16
25		TEE 1/2" 150# THREADED MATERIAL ASTM A182-F304		SST PER MFG STD	3
26		VALVE, MANUAL 1/2" FEMALE NPT BOTH ENDS .250 ORIFICE WHITEY NR SS-26 VFB		SST PER MFG STD	1
27		ELL, 1/2" 90° 150 LBS THREADED MATERIAL ASTM A182-F304		SST PER MFG STD	1
28		UNION 1/2 150 LBS THREADED MATERIAL ASTM A182-F304		SST PER MFG STD	1
29		FLEXIBLE COUPLING, FLANGE TO FLANGE STRAIGHT CONNECTOR 3"NPS ASA 150LBS FLANGES WITH SMOOTH FACE 125 RMS FINISH OR BETTER STOKES VACUUM DIVISION (6" FROM FLG. TO FLG.)	OR EQUAL	MFG STD	1

PART NO.	DRAWING NO.	PART NAME OR DESCRIPTION	REMARKS	FOR PURCH. PARTS ONLY																																	
				MATERIAL	QTY.																																
37		BOLT, HEX HD 5/8-11 UNC-2A X 1 3/4 LG	ASTM A193 GR B7	37L MFG STD	12																																
38		BOLT, HEX HD 3/4-10 UNC-2A X 2" LG	ASTM A193 GR B7	37L MFG STD	16																																
39		BOLT, HEX HD 5/8-11 UNC-2A X 2 1/4 LG	ASTM A193 GR B7	37L MFG STD	8																																
40		BOLT, HEX HD 5/8-11 UNC-2A X 4" LG	ASTM A193 GR B7	37L MFG STD	8																																
41		BOLT, HEX HD 3/4-10 UNC-2A X 3" LG	ASTM A193 GR B7	37L MFG STD	16																																
42		NUT, HEX 3/4-10 UNC-2B	ASTM A194 37L MFG STD	16	16																																
43	F3502-0134-EC	GAGE PANEL P2			1																																
44	F3502-0135-EC	GAGE PANEL P3			1																																
45	F3502-0136-EC	GAGE PANEL P4			1																																
46		GAGE 0-100 PSIG E054E (MARCH) GENERAL SIGNAL CORP.	OR EQUAL	MFG STD	1																																
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