

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

July 1986

Doug Porter





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http://www.inl.gov

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DRAWING NO.	PART NAME OR DESCRIPTION	REMARKS	MATERIAL					MATERIAL POPULATION
FROM SHEET		FRUM SHEET #4			24	PIPE 12 SEN 408 MATERIAL ASTM 4312-TP 304		SST PER MFG STD
- ISTA SPIEZE	PHOT VALUE JE 8345 EN PROT AIR SUPPLY 80 PSIG	<u> </u>		開から				
				el constant de la con	25	TEE 12" 150 THREADED MATERIAL ASTM A182-F30	24	SST PER MFG STD
	ELECTRIC 120 VAC, AND LIMIT SWITCH ASSEMBLY	1		100 mm (**) 100 de 1 100 mm (**) 100 mm (**)				
we are the terminal to the terminal ter	(2-DPDT) 8706D WITH MITS. HARDWARE (E9365C			E	26	VALUE, MANUAL 1/2" FEMALE NPT BOTH ENDS		SST PER
36 v	TO ACTUATOR. ALL ASSEMBLED AND TESTED BY					.250 ORIFICE WHITEY NO SS-26 UFB		
·	MARPAC MARK CONTROLS CORP.			***				
			304/316 557		27	ELL, 1/2" 90° 150 LBS THREADED MATERIAL ASTMA-1	182	SST PER MIG STO
	SINGLE RUPTURE DISC HOLDER, INSERT TYPE FOR		MFG STO	**************************************		-F304		7
	2 INCH NPS ANSI 150" FLANGES, FIKE GI INSERT			要かって 報介でで 数子・・・ 第 年から			· · · · · · · · · · · · · · · · · · ·	
	ASSEMIBLY			13.6	28		e in the title of the second o	SST PER
				ing to ship Appaya is		UNION /2 150 185 THREADED MATERIAL ASTM A182-F 30	24	MFG SFO
	SINGLE RUPTURE DISC, WITH CPV SUPPORT AND		MFG 3TD	機のから 開発の対	30			
	TOP RING FOR 2" NPS FIKE GI INSERT, ALUMINUM	,		新味さ 選称 要 要	67	FLEXIBLE COUPLING, FLANGE TO FLANGE STRAIGHT	OREQUAL	MFG STO
	BURST PRESSURE 50 PSIG			The state of the s		CONNECTOR 3"NPS ASA 150 LBS FLANGES WITH		
				Øn 20 Prof Prof Prof Prof Prof Prof		SMOOTH FACE 125 RMS FINISH OR BETTER		
	SINGLE RUPTURE DISC, WITH CPV SUPPORT AND		MFG STD	With Market A Market A Market Mar		STOKES VACUUM DIVISION (6" FROM FLG. TOFL	<i>G.)</i>	
	TOP RING FOR Z"NPS FIKE GI INSERT, ALUMINUM,			Markets Markets Markets Markets Markets				
				Basic con- Especial Basic con- Series con- central con-				
	BURST PRESSURE 100 PS14			*** *** *** *** *** *** *** *** *** **				
•		ON CRITING FUR ASSEMBLY I	10. Of '	Manager Same Same Same Same Same Same Same Same		ARGONNE APP'D CHECKED DRAWN Z	7-79-85 ASSEMBLY 7-25-26 7-25-26 7-25-26	
	ARGONNE APP'D CHECKED DRAWN 27	0 7-28-86 F350			ANL-14 (442) ENGINEERING PARTS LIST	WCROFILMED 7-31-86(0)8-19-86(1) 8-27-87(2)	12 17-23-86 1 000	
6 (4-82) ENGINEERING PARTS	NATIONAL LABORATORY CHECKED DRAWN Z7	o ako arras Megaligi kumani pikikila kilikisis saras salah kangan perperangan perundan dan ana ana ana sara sa Perundan	☆ GP 0: 1984-75	130	ANL-14 (442) ENGINEERING PARTS LIST	WCROFILMED 7-31-86(0)8-19-86(1) 8-27-87(2)		☆ GPO: 1984-75
DRAWING NO.	NATIONAL LABORATORY CHECKED DRAWN 27	o ako arras Megaligi kumani pikikila kilikisis saras salah kangan perperangan perundan dan ana ana ana sara sa Perundan		130 ···	ANL-146 (4-42) ENGINEERING PARTS US TO ANGLES OF THE PART NO. DRAWING NO.	WCROFILMED 7-31-86(0)8-19-86(1) 8-27-87(2) PART NAME OR DESCRIPTION	REMARKS	⇔ GPO: 1984-7
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	PART NAME OR DESCRIPTION FLEXIBLE COUPLING, PLANGE TO FLANGE STRAIGHT CONNECTOR 2" NPS ASA 150 LBS	REMARKS	PURCH. PARTS ONL	130 ···	PART NO. DRAWING NO.	PART NAME OR DESCRIPTION BOLT, HEXHD SE-MONC-2A X / 34 24	REMARKS ASTALLA STATEMENT OF THE STATEM	FOR PURCH. PARTS MATERIAL MATERIAL STZ
DRAWING NO.	PART NAME OR DESCRIPTION FLEXIBLE COUPLING, FLANGE TO FLANGE STRAIGHT CONNECTOR 2" NPS ASA 150 LBS FLANGES WITH SMOOTH FACE-125 RMS FINISH	REMARKS FO	PURCH. PARTS ONL	130 ···	PART NO. DRAWING NO.	WCROFILMED 7-31-86(0)8-19-86(1) 8-27-87(2) PART NAME OR DESCRIPTION	REMARKS	FOR PURCH. PARTS MATERIAL MING STO
DRAWING NO.	PART NAME OR DESCRIPTION FLEXIBLE COUPLING, PLANGE TO FLANGE STRAIGHT CONNECTOR 2" NPS ASA 150 LBS	REMARKS FO	PURCH. PARTS ONL	130	PART NO. DRAWING NO.	PART NAME OR DESCRIPTION BOLT, HEX HO SE-HONG-2A X 1 34 29 EDLT, HEX HO 34-10 UNC-2A X 2"29	REMARKS ASTALLA ASSA	FOR PURCH. PARTS MATERIAL MING STO
DRAWING NO.	PART NAME OR DESCRIPTION FLEXIBLE COUPLING, FLANGE TO FLANGE STRAIGHT CONNECTOR 2" NPS ASA ISOLBS FLANGES WITH SMOOTH FACE-125 RMS FINISH OR BETTER STOKES VACUUM DIVISION (51/2" FROM FLA.TOPE	REMARKS COR EQUAL	PURCH. PARTS ONL	130	PART NO. DRAWING NO.	PART NAME OR DESCRIPTION BOLT, HEXHD SE-MONC-2A X / 34 24	REMARKS ASTALLA ASSA	FOR PURCH. PARTS MATERIAL MING STO
DRAWING NO.	PART NAME OR DESCRIPTION FLEXIBLE COUPLING, FLANGE TO FLANGE STRAIGHT CONNECTOR 2" NPS ASA ISOLBS FLANGES WITH SMOOTH FACE-125 RMS FINISH OR BETTER STOKES VACUUM DIVISION (51/2" FROM FLATORE VACUUM PUMP, STOKES MECHANICAL MICROVAC	REMARKS OR EQUAL	PURCH. PARTS ONL MATERIAL QT	130	PART NO. DRAWING NO.	PART NAME OR DESCRIPTION BOLT, HEX HD SE-HONG-2A X 1 34 29 BOLT, HEX HD 34-10 UNC-2A X 2"29 EDIT, HEX HD 34-10 UNC-2A X 2"4 EDIT, HEX HD 38-HUNG-2A X 274"19	REMARKS ASTMAN ANS STATEMENT AND STATEMENT	FOR PURCH. PARTS MATERIAL MING STD STZ MING STD
DRAWING NO.	PART NAME OR DESCRIPTION FLEXIBLE COUPLING, TLANGE TO FLANGE STRAIGHT CONNECTOR 2" NPS ASA ISOLBS FLANGES WITH SMOOTH FACE-125 RMS FINISH OR BETTER STOKES VACUUM DIVISION (5½" FROM FLATORE VACUUM PUMP, STOKES MECHANICAL MICROVAC MODEL 212 H; ISO CFM DISPLACEMENT, 7.5 HP	REMARKS OR EQUAL	PURCH. PARTS ONL MATERIAL QT	130	PART NO. DRAWING NO.	PART NAME OR DESCRIPTION BOLT, HEX HO SE-HONG-2A X 1 34 29 EDLT, HEX HO 34-10 UNC-2A X 2"29	REMARKS ASTMAN ANS STATEMENT AND STATEMENT	FOR PURCH. PARTS MATERIAL MING STD STZ MING STD
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DRAWING NO.	PART NAME OR DESCRIPTION FLEXIBLE COUPLING, FLANGE TO FLANGE STRAIGHT CONNECTOR 2" NPS ASA ISOLBS FLANGES WITH SMOOTH FACE-125 RMS FINISH OR BETTER STOKES VACUUM DIVISION (5½"FROM FLATORE WACUUM PUMP, STOKES MECHANICAL MICROVAC MODEL 212 H; ISO CFM DISPLACEMENT, 7.5 HP MOTOR, SIMGLE STAGE, 440 VAC, 60 HZ, 3" DIA	REMARKS OR EQUAL	PURCH. PARTS ONL MATERIAL QT	130	PART NO. DRAWING NO. 37 40 41	PART NAME OR DESCRIPTION BOLT, HEX HD SA-HUNC-ZA X 1 74 LG BOLT, HEX HD 94-10 UNC-ZA X 2"LG BOLT, MEX HD 98-HUNC-ZA X 2"LG BOLT, MEX HD 98-HUNC-ZA X 2"LG BOLT, MEX HD 98-HUNC-ZA X 4"LG BOLT, MEX HD 98-HUNC-ZA X 4"LG	REMARKS ASTM ASS GR. B7 ASTM ASS GR. B7 ASTM ASS GR. B7	FOR PURCH. PARTS MATERIAL STA MING STD STA MING STD STA MING STD
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F3502-0084-2	PART NAME OR DESCRIPTION FLEXIBLE COUPLING, FLANGE TO FLANGE STRAIGHT CONNECTOR 2" NPS ASA 150LBS FLANGES WITH SMOOTH FACE-125 RMS FINISH OR BETTER STOKES VACUUM DIVISION (51/2" FROM FLATURE WACUUM PUMP, STOKES MECHANICAL MICROVAC MODEL 212 H; 150 CFM DISPLACEMENT, 7.5 MP MOTOR, SIMGLE STAGE, 440 VAC, 60 HZ, 3" DIA 3 ASKET (PARTS TARU 5)	REMARKS OR EQUAL OR EQUAL	PURCH. PARTS ONL MATERIAL QT		PART NO. DRAWING NO. 37 38 40 47 47	PART NAME OR DESCRIPTION BOLT, HEX HD SE-HONG-2A X 1 34 29 BOLT, HEX NO 34-10 UNC-2A X 2"29 EOST, HEX HD SE-HONG-2A X 2"49 EOST, HEX HD SE-HONG-2A X 4"29 BOLT, HEX HD SE-HONG-2A X 4"29 BOLT, HEX HD SE-HONG-2A X 4"29 BOLT, HEX HD SE-HONG-2A X 3"29 NOT, HEX SE-HONG-2A X 3"29	REMARKS ASTM ASS GR. B7 ASTM ASS GR. B7 ASTM ASS GR. B7	FOR PURCH. PARTS MATERIAL STA MING STD STA MING STD STA MING STD
F3502-0084-2	PART NAME OR DESCRIPTION FLEXIBLE COUPLING, TLANGE TO FLANGE STRAIGHT CONNECTOR 2" NPS ASA 150 LBS FLANGES WITH SMOOTH FACE-125 RMS FINISH OR BETTER STOKES VACUUM DIVISION (5½" FROM FLATOR WACUUM PUMP, STOKES MECHANICAL MICROVAC MODEL 212 H; 150 CFM DISPLACEMENT, 7.5 HP MOTOR, SIMGLE STAGE, 440 VAC, 60 HZ, 3" DIA GRSKET SPACER RING (PIRTS TMRU 10)	REMARKS OR EQUAL OR EQUAL SEE DRAWING SEE DRAWING ASTMI A193	PURCH. PARTS ONL MATERIAL QT MFG STD STZ		PART NO. DRAWING NO. 37 38 40 47 47	PART NAME OR DESCRIPTION BOLT, HEX HD SA-HUNC-ZA X 1 74 LG BOLT, HEX HD 94-10 UNC-ZA X 2"LG BOLT, MEX HD 98-HUNC-ZA X 2"LG BOLT, MEX HD 98-HUNC-ZA X 2"LG BOLT, MEX HD 98-HUNC-ZA X 4"LG BOLT, MEX HD 98-HUNC-ZA X 4"LG	REMARKS ASTM ASS GR. B7 ASTM ASS GR. B7 ASTM ASS GR. B7	FOR PURCH. PARTS MATERIAL STA MING STD STA MING STD STA MING STD
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DRAWING NO.	PART NAME OR DESCRIPTION FLEXIBLE COUPLING, TLANGE TO FLANGE STRAIGHT CONNECTOR 2" NPS ASA ISOLAS FLANGES WITH SMOOTH FACE-125 RMS FINISH OR BETTER STOKES VACUUM DIVISION(5½ FROM FURNOR) WACUUM PUMP, STOKES MECHANICAL MICROVAC MODEL 212 H; ISO CFM DISPLACEMENT, 7.5 HP MOTOR, SINGLE STAGE, 440 VAC, 60 HZ, 3" DIA GASKET SPACER RING (PARTS I THRU 10) EXT, HEX HD. 5/8-11 UNC-24 × 1/2 LG	REMARKS OR EQUAL OR EQUAL SEE DRAWING SEE DRAWING ASTMA 193 ASTMA 193	PURCH. PARTS ONL MATERIAL QT MFG STD STZ M/G STD	110 - 10 - 10 - 10 - 10 - 10 - 10 - 10	PART NO. DRAWING NO. 37 38 40 41 42 43 F3502-0134 EC	PART NAME OR DESCRIPTION BOLT, HEX HD SE-HONG-2A X 1 34 29 BOLT, HEX NO 34-10 UNC-2A X 2"29 EOST, HEX HD SE-HONG-2A X 2"49 EOST, HEX HD SE-HONG-2A X 4"29 BOLT, HEX HD SE-HONG-2A X 4"29 BOLT, HEX HD SE-HONG-2A X 4"29 BOLT, HEX HD SE-HONG-2A X 3"29 NOT, HEX SE-HONG-2A X 3"29	REMARKS ASTM ASS GR. B7 ASTM ASS GR. B7 ASTM ASS GR. B7	FOR PURCH. PARTS MATERIAL STA MING STD STA MING STD STA MING STD
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DRAWING NO.	PART NAME OR DESCRIPTION FLEXIBLE COUPLING, IZANGE TO FLANGE STRAIGHT CONNECTOR 2" NPS ASA 150LBS FLANGES WITH SMOOTH FACE-125 RMS FINISH OR BETTER STOKES VACUUM DIVISION (5½" FROM RIGIDAR WACUUM PUMP, STOKES MECHANICAL MICROVAC MODEL 212 H; 150 CFM DISPLACEMENT, 7.5 HP MOTOR, SIMGLE STAGE, 440 VAC, GO HZ, 3" DIA GASKET SPACER RING (PARTS 1 THRU 10) EXT, HEX HD. 56-11 UNC-2A X 1/2 LG	REMARKS OR EQUAL OR EQUAL SEE DRAWING SEE DRAWING ASTMI A193 BR B7 ASTMI A193 GR B7	STE STE	110 - 1	PART No. DRAWING NO. 37 38 40 41 42 43 F3502-0134-EC 45 F3502-0136-EC	PART NAME OR DESCRIPTION BOLT, HEX NO SELLONG-2A X 1 34 24 ROLT, HEX NO 34-10 UNC-2A X 2"24 EAST, MEX NO 98-11 UNC-2A X 2"4 EAST, MEX NO 98-11 UNC-2A X 4" 24 BOLT, MEX NO 98-11 UNC-2A X 4" 24 BOLT, MEX NO 98-11 UNC-2A X 4" 24 BOLT, MEX NO 98-11 UNC-2A X 4" 24 GAGE PANEL P2 GAGE PANEL P3	REMARKS ASTM A193 GR. 87 ASTM A193 GR. 87 ASTM A193 GR B7 ASTM A193 GR B7 ASTM A193 GR B7	FOR PURCH. PARTS MATERIAL MING STD STE MING STD STE MING STD CTE MING STD CTE MING STD
DRAWING NO.	PART NAME OR DESCRIPTION FLEXIBLE COUPLING, IZANGE TO FLANGE STRAIGHT CONNECTOR 2" NPS ASA ISOLASS FLANGES WITH SMOOTH FACE-125 RMS FINISM OR BETTER STOKES VACUUM DIVISION (5½ FROM FLANGE) WASSUUM PUMP, STOKES MECHANICAL MICROVAC MODEL 212 H; 150 CFM DISPLACEMENT, 7.5 HP MOTOR, SINGLE STAGE, 440 VAC, GO NZ, 3" DIA GRSKET SPACER RING (PARTS TMRU 10) EXT, HEX HD, 5/8-11 UNC-2H × 1/2 LG NUT, HEX, 5/8-11 UNC-2H × 2/2 LG NUT, HEX, 5/8-11 UNC-2B	REMARKS OR EQUAL OR EQUAL SEE DRAWING SEE DRAWING ASTMA 193 BR B7 ASTMA 193 GR B7 ASTMA 193 GR B7 ASTMA 194 FR EH / SME	PURCH. PARTS ONL MATERIAL QT MFG STD STZ MFG STD STZ MFG STD	110 - 1	PART No. DRAWING NO. 37 38 40 41 42 43 F3502-0134-EC 45 F3502-0136-EC	PART NAME OR DESCRIPTION BOLT, HEX HD SENIONC-2A X 1 34 29 ROLT, HEX HD SENIONC-2A X 2"14 EDIT, HEX HD SENIONC-2A X 4" 19 BOLT, HEX HD SENIONC-2A X 4" 19 BOLT, HEX HD SENIONC-2A X 3"23 HUT, HEX HD SENIONC-2A X 3"23 GAGE PANEL P2 GAGE PANEL P3	REMARKS ASTM A193 GR. 87 ASTM A193 GR. 87 ASTM A193 GR B7 ASTM A193 GR B7 ASTM A193 GR B7	FOR PURCH. PARTS MATERIAL MING STD STE MING STD
F3502-0084-4	PART NAME OR DESCRIPTION PART NAME OR DESCRIPTION FLEXIBLE COUPLING, IZANGE TO FLANGE STRAIGHT CONNECTOR 2" NPS ASA 150LBS FLANGES WITH SMOOTH FACE-125 RMS FINISH OR BETTER STOKES VACUUM DIVISION (5½ FROMFLENDE) WACUUM PUMP, STOKES MECHANICAL MICROVAC MODEL 212 H; 150 CFM DISPLACEMENT, 7.5 HP MOTOR, SIMGLE STAGE, 440 VAC, 60 HZ, 3" DIA GASKET SPACER RING (PARTS TARU 10) EXT, HEX HD, 5/8-11 UNC-2A X 1/2 LG NUT, HEX, 5/8-11 UNC-2B ANGE BY CR. DATE THIS PARTS LIST IS ASSEMBLY AS	REMARKS OR EQUAL OR EQUAL SEE DRAWING SEE DRAWING ASTMIRIPS BR B7 ASTMIRIPS	PURCH. PARTS ONL MATERIAL QT MFG STD STC MFG STD STC MFG STD STC MFG STD SHEET 7		PART No. DRAWING NO. 37 38 40 41 42 43 F3502-0134-EC 45 F3502-0136-EC	PART NAME OR DESCRIPTION BOLT, HEX HD SE-HONG-BAX 134 29 ROLT, HEX HD SE-HONG-BAX 2"29 ROLT, HEX HD SE-HONG-BAX 2"29 BOLT, HEX HD SE-HONG-BAX 2"29 BOLT, HEX HD SE-HONG-BAX 2"49 BOLT, HEX HD SE-HONG-BAX 2"49 BOLT, HEX HD SE-HONG-BAX 2"49 GAGE PANEL P2 GAGE PANEL P3 GAGE PANEL P4 GAGE O-100 PSISTEO B-10 (MARSH) GENERAL SIGNAL CORP	REMARKS ASTM A193 38 87 ASTM A193 38 87 ASTM A193 GR B7 ASTM A193 GR B7 ASTM A193 GR B7 OR EQUAL	FOR PURCH. PARTS MATERIAL STA MING STD
DRAWING NO. F3502-0084-4	PART NAME OR DESCRIPTION PART NAME OR DESCRIPTION FLEXIBLE COUPLING, IZANGE TO FLANGE STRAIGHT CONNECTOR 2" NPS ASA 150LBS FLANGES WITH SMOOTH FACE-125 RMS FINISH OR BETTER STOKES VACUUM DIVISION (5½ FROMFLENDE) WACUUM PUMP, STOKES MECHANICAL MICROVAC MODEL 212 H; 150 CFM DISPLACEMENT, 7.5 HP MOTOR, SIMGLE STAGE, 440 VAC, 60 HZ, 3" DIA GASKET SPACER RING (PARTS TARU 10) EXT, HEX HD, 5/8-11 UNC-2A X 1/2 LG NUT, HEX, 5/8-11 UNC-2B ANGE BY CR. DATE THIS PARTS LIST IS ASSEMBLY AS	REMARKS OR EQUAL OR EQUAL SEE DRAWING SEE DRAWING ASTMA 193 BR B7 ASTMA 193 GR B7 ASTMA 193 GR B7 ASTMA 194 FR EH / SME	STE STE STE		PART NO. DRAWING NO. 37 38 40 41 42 43 F3502-0134-EC 45 F3502-0136-EC	PART NAME OR DESCRIPTION BOLT, HEX NO SETTIONS—2A X 1 34 29 EDIT, HEX NO 34-10 INC-2A X 2"29 EDIT, HEX NO 34-10 INC-2A X 2"4" 29 EDIT, HEX NO 58-11 INC-2A X 4" 29 BOLT, HEX NO 58-11 INC-2A X 4" 29 BOLT, HEX NO 58-11 INC-2A X 3"29 MUT, HEX AD 58-11 INC-2A X 3"29 GAGE PANEL P2 GAGE PANEL P3 GAGE PANEL P4 GAGE OHO PSISTED SHE (MARCH) GENERAL SIGNAL CORP. OR DY CK. DATE THIS PARTS UST IS THE PROPERTY OF THE PROPERTY OF	REMARKS ASTM A193 GR. 87 ASTM A193 GR. 87 ASTM A193 GR B7 ASTM A193 GR B7 ASTM A193 GR B7	FOR PURCH. PARTS MATERIAL STA MING STD SHEET 8