*** FMC PRIVATE *** FMC TECHNOLOGIES

REPORT BY: Gomes, Debora 30-SEP-2015 Page: 1 OF 4 PART REPORT

PART DESCRIPTION

PART NUMBER:
P7000048053 MANIFOLD, ASSY, F/ GAS AND/OR WATER
REVISION: B INJECTION, 10 KSI, HH, F/ 4 WELLS, PREECN: 7066179 SALT MANIFOLD DRAWING REV: B
DWG OWN: RIO AE

TYPE: N STATUS: RELEASED OWNERSHIP: RIO AE UOM: EA WEIGHT: 416674 (189000)

LBS (KGS)

PART DATA

PROD SPEC : SEE GWI045 QUALITY LVL: PSL 3

MATL CLASS: HH TEMP RANGE: 35F(2C) TO 180F(82C) PR# : GR# : SRV CLASS:

REVIEWED BY: Pereira, Vitor REVIEW DATE : 26-JUN-2015 APPROVED BY: Carvalho, Marcelo APPROVAL DATE: 26-JUN-2015

BILL OF MATERIAL

ITEM	PART NUMBER	DESCRIPTION	DWG NUMBER	UM	QTY	MATERIAL
1	P7000062146	MANIFOLD, GENERAL ARRANGEMENT, F/ GAS AND/OR WATER INJECTION, PRE-SALT MANIFOLD, ASSY ON SUB SUPLIER	DU700173972	EA	1	
2	P7000048055		DU700155055	EA	1	
3	P7000055449	MANIFOLD, ELECTRICAL DISTRIBUTION MODULE, ASSY, PRE-SALT MSIAG	DU700162339	EA	2	
4	P7000048257	MANIFOLD, ELECTRIC CONTROLS PACKAGE, F/ FIELD MANIFOLD PRE SALT PROJECT	DU700155062	EA	1	
5	P7000059893	MANIFOLD, CABLE, 3.45 TON WLL/SWL, 1 LEGGED WIRE ROPE, 115.9 IN LENGTH WITH 8 IN TURNBUCKLE - ABNT STANDARD, PRE-SALT MSIAG	DA700165286	PC	1	
6	P7000048258	GROUP OF PARTS, NEXT ASSY LEVEL, F/ PRE-SALT MANIFOLD HYDRAULIC DISTRIBUTION - HYDRAULIC FLYING LEADS	DU700151043	EA	1	
7	P7000064674	MANIFOLD, SHACKLE, PRE SALT MANIFOLD	DU700184661	PC	4	
8	180-700-731	CABO P/ CONDUTIBILIDADE ELETRICA P/ PROTECAO CATODICA (400MM DE	DS180-700-731	PC	4	

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		BILL OF MATERIA	·				
ITEM	PART NU	MBER DESCRIPTIO	N DWG NUMBER				
9	701-439-0	COMPRIMENTO) 7 INTERNAL TOOTH L WASHERS, 6.4 MM 304 / 316 STAINL	I.D.,	PC	12		
10	701-048-1	IN - 24UNC-2A X		PC	12		
11	P70000566	LG 14 CONTINUITY CABLE LENGTH 1.5 M	, DA700151228	PC	4		
12	701-233-0	HELLERMAN CLAMP NYLON 6.6	T250R, NO-DWG	PC	16		
13	701-494-0	GARRA DE CABO Ø1 MATERIAL ACO INO 316		PC	8		
14	P70000619		AT TECH	EA	1		
		QUALITY MATRIX:					
SECT	ION: 4.3	REV: B ASSEMBLY - NON-MONOGR	OWNER: RIO COE				
3520		VISUAL EXAMINATION.					
Q0050	01	MARK AT LOCATION SHOW	N ON DRAWING/SPECIFI	CATION.			
Q0340	01	SERIALIZATION.					
Q0065	51	HANDLING, STORAGE AND	SHIPPING PROCEDURE.				
			URNISH DOCUMENTATION REQUIRED BY API 17D, CERTIFICATE OF OMPLIANCE, ASSEMBLY TRACEABILITY AND PRESSURE TEST RECORDS.				
			R SSV/USV GATE VALVES ONLY: FURNISH DOCUMENTATION PER API IN COMPLIANCE WITH SSV/USV REQUIREMENTS.				
			NON-STANDARD ASSEMBLIES: ASSEMBLE AND TEST PER PROJECT CEDURES, IF APPLICABLE.				
NOTE	5	ADDITIONAL REQUIREMEN	TS AS LISTED ON THE	DBI AND	OOR S	PC.	
		ENGINEERING NOTES AND	SPECIFICATIONS				
		MISCELLANEOUS NOTES					
NOTE 1: DWG NOTE;							
NOTE	- •	,					

(continued...)

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P/N: P700004805			3 01 1	
	ENGINEERING NOTES AND	SPECIFICATIONS (Continu	ed)	
NOTE 3:	DWG NOTE;			
NOTE 4:	DWG NOTE;			
MARK ACCORDING TO 4067 (BLACK MUNSELL N-1) WHERE INDICATED (THE BOX SHOWN IN THE DWG IS A REFERENCE AREA, AND THE MARKIN CAN BE DONE OUTSIDE OF IT): FMC TECHNOLOGIES AND CUSTOMER LOGO MANIFOLD DE INJECAO DE AGUA E GAS PROJETO MANIFOLD PRE SAL NP / REV: NS: PCS E ITEM: PESO:				
NOTE 6: THE PAIR OF SHACKLES POSITIONED ON THE BOW SHALL BE PAINTED IN COLOR GREEN WHERE INDICATED; THE PAIR OF SHACKLES POSITIONED ON THE STERN SHALL BE PAINTED IN COLOR RED WHERE INDICATED;				
NOTE 7:	DWG NOTE;			
==========	DOCUMENTS LIST		=======	
DOCUMENT NUMBER	DESCRIPTION		RICTION	
	PRODUCTION DOC	UMENTS		
TST70017287	TEST PROCEDURE, FACTORY TEST (FAT), SUBSEA - TEMPLATE/MODULE/MANIFOL	ACCEPTANCE NO-SUP	PLIER-LINK	

	DDODIGETON DOGEMENTED	
	PRODUCTION DOCUMENTS	
TST70017287	TEST PROCEDURE, FACTORY ACCEPTANCE TEST (FAT), SUBSEA - TEMPLATE/MODULE/MANIFOLD, F/ MECHANICAL INTEGRATION TEST, PRE-SALT MANIFOLD, MSIAG	NO-SUPPLIER-LINK
TST70017275	TEST PROCEDURE, FACTORY ACCEPTANCE TEST (FAT), SUBSEA - TEMPLATE/MODULE/MANIFOLD, F/ CATHODIC PROTECTION TEST, F/ PRE-SALT MANIFOLD, MSIAG	NO-SUPPLIER-LINK
TST70021180	TEST PROCEDURE, SYSTEM INTEGRATION TEST (SIT), PROJECT DOCUMENTATION, PETROBRAS PRE-SALT WATER AND GAS INJECTION SUBSEA MANIFOLD (MSIAG) WITH FMC SUBSEA CONTROL MODULE - CONTROLS TEST	NO-SUPPLIER-LINK
TST70017290	TEST PROCEDURE, FACTORY ACCEPTANCE TEST (FAT), SUBSEA - TEMPLATE/MODULE/MANIFOLD, MANIFOLD WEIGHING AND FILLING, PRE-SALT MANIFOLD, MSIAG	NO-SUPPLIER-LINK

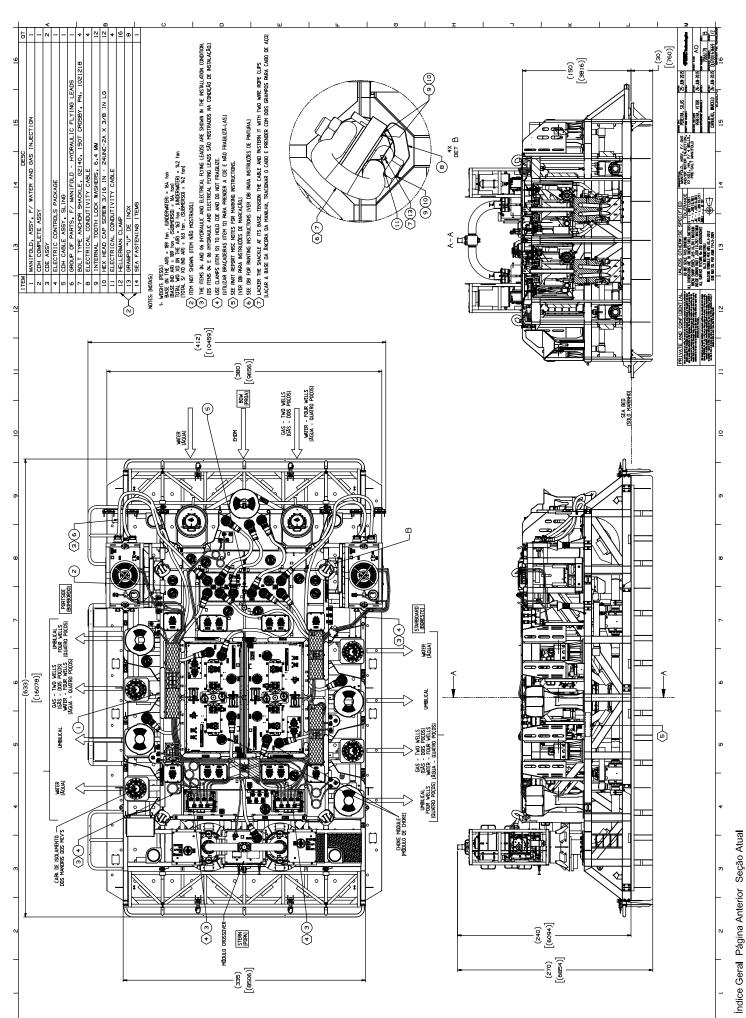
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P/N: P/000048033	PARI REPORT		
	DOCUMENTS LIST (Continued)		
TST70017288	TEST PROCEDURE, FACTORY ACCEPTANCE TEST (FAT), SUBSEA - TEMPLATE/MODULE/MANIFOLD, F/ PIG TEST, PRE-SALT MANIFOLD, MSIAG	NO-SUPPLIER-LINK	
LST70021318	LIST, CHECKLIST, SUBSEA - TEMPLATE/MODULE/MANIFOLD, FINAL INSPECTION, F/ MANIFOLD, PRE-SALT MANIFOLD, MSIAG/MSIA	NO-SUPPLIER-LINK	
	ENGINEERING DOCUMENTS		
DA700141504	SUBSEA SYSTEM DRAWING, WATER AND GAS INJECTION MANIFOLD FLOWCHART, PRE SALT MANIFOLD		
DA700142633	SUBSEA CONTROLS DRAWING, HYDRAULIC DISTRIBUTION, PRE-SALT MANIFOLD PROJECT		
DA700141386	SUBSEA CONTROLS ELECTRICAL SCHEMATIC, PRE-SALT MANIFOLD		



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