PETROBRAS NETHERLANDS B.V	DATA SHEET	Nr.:	I-FD-3010.71-1200-831-TKP-011
	Client or User: UN – RIO / ATP - MLS		Sheet: 1 of 139
	Job or Project: MARLIM SUL FIELD DEVELOPMENT		C.C.
	Área or Unit: PETROBRAS 56 (P-56)		SEP:
ENGENHARIA / IEMS	Title: ON-OFF VALVES - DECK BOX		

FSTP Pte. Ltd. / Technip	TKP Nr.:	F70014-M02T-SP-1543-001	
	CONTRACT Nr.:	0801.0000030.07.2	
	TECHNICAL RESP:	NAME: Luiz Gustavo Sá	INITIALS: LGSA
File Nr.: WORD 2000/I-FD-3010.71-1200-831-TKP-011_C.DOC	CREA REG. Nr.:	RJ:53423/D	

REVISION INDEX

REV.	DESCRIPTION AND / OR REVISED SHEETS
0	FOR QUOTATION
A	AS PURCHASED
B	REVISED WHERE INDICATED ACCORDING TO ADP-P56-TKP-00228 / AS PURCHASED
C	REVISED WHERE INDICATED ACCORDING TO ADP-P56-TKP-01186 / AS PURCHASED

Revision 0 of this document was based on P-51 Platform design, document No. I-FD-3010.63-1200-831-TKP-011_E (TECHNIP No. B20257- M02T-SP-1543-001 rev. E) and the changes are indicated by clouds or shading.

	REV. 0	REV. A	REV. B	REV. C	REV. D	REV. E	REV. F	REV. G	REV. H
DATE	11/01/08	29/02/08	07/05/08	21/07/08					
PROJECT	TKP	TKP	TKP	TKP					
EXECUTED	WESTEVES	MCARDEMAN	MCARDEMAN	EGOUGET					
CHECKED	LGSA	LGSA	LGSA	LGSA					
APPROVED	JSIRACUSA	JSIRACUSA	JSIRACUSA	JSIRACUSA					

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General Data	1	Tag No.				XV -5125008B			
	2	Service	P&ID No.			HOT WATER PUMPS		I-DE-3010.71-5125-944-TKP-001	
	3	Line No.	Piping class			16"-HW-C3-2002-HC		300#RF	
	4	Line size	Line sched.			16 in		20	
	5	Line material				API-5L GR. B			
	6	☐ PED						☐ SIL	
Operating Conditions	7	Sour Service	Special Conditions						
	8	Molecular Weight	Viscosity at @ normal						
	9	Cp/Cv	Compressibility						
	10	Density min	Density nor	Density max			936		kg/m³
	11	Vapour Pressure at T nominal							
	12	Critical Pressure	Critical Temperature						
	13	Fluid	Phase	State		HOT WATER		Single Phase	Liquid
	14	Flow Min.	Norm.	Max.	Unit				
	15	Temp. QMin.	Q Norm.	Q Max.	Unit		130		ºC
	16	Press. QMin.	Q Norm.	Q Max.	Unit		2105		kPa-g
	17	DP QMin.	Q Norm.	Q Max.	Unit			2321	kPa
	18	Selected CV							
	19	Design Pressure	Min.	Max.			2422	kPa-g	
	20	Design Temperature	Min.	Max.			210	ºC	
	21	Max.DP closed valve				2321 kPa			
	22	Oper. time open to close				16 sec.			
	23	Oper. time close to open							
	24	Operation							
Valve Details	25	Valve type	Model			BALL VALVE		BOLTED BODY	
	26	Valve end con.& rating	Seat Leakage Class			16 " - 300 lb ANSI RF		API 598	
	27	Code				API 6D / TEST AND LEAKAGE API-598 WITH CERTIFICATE			
	28	Body Material	Material Detail			Carbon st.	ASTM A105N		
	29	Seat/Packing Material				METAL-PEEK (POLYETHERKETONE)			
	30	Line mounting							
	31	Mechanical handwheel				No			
	32	Trim Material				AISI 410 / BALL/ TRUNNION			
Actuator Details	33	Type	Model			Double Effect Cylinder			
	34	Air fail position				Last			
	35	No. of operations							
	36	Air Supply				NOTE 1			
Position Detectors	37	Open	Close			YES		YES	
	38	Open Tag No.	Close Tag No.			ZSH-5122008B		ZSL-5122008B	
	39	SP No.							
Solenoid Valve	40	Tag No.				YES (XYH-5122008B / XYL-5122008B)			
	41	Voltage	Power			24 Vdc		0,5 W	
	42	Spec No.				NOTE 5			
Options	43	Pneum. valve	3-way valve			NO		NO	
	44	Check valve	Lock-up relay			NO		NO	
	45	Flow lim. OPEN	CLOSE						
	46	Bolts and Nuts Material				ASTM A 193 GR-B7 / ASTM A 194 GR-2H (NOTE 15)			
Emergency A/S vessel	47	Capacity							
	48	No. of oper./Capacity							
	49	Safety valve	Model						
	50	Special Characteristic				VET (NOTE 18)			
	51	Area classification				II A T3 / ZONE 2			
	52	Electrical Protection Class				EEx-d + IPW66			
	53	Valve Code				VE-23 VET			
Purchase	54	Valve Mfr.	Model No.			VELAN		VEL-BV6D	
	55	Actuator Mfr.	Serial Number			ROTORK		GP-085S-335A/D1	
	56	Client Reference	Requisition No.	Item					
		Material Code				154301			

Notes:

No.	By	Chk	Appr	Date	Revision
C	EGOUGET	LGSA	JSIRACUSA	7/21/2008	AS PURCHASED
B	MC	LGSA	JS	5/7/2008	AS PURCHASED
A	MC	LGSA	JS	2/29/2008	As Purchased
0	WFE	LGSA	JS	1/11/2008	For Quotation

ON-OFF VALVES
UN - RIO / ATP - MLS
Marlim Sul Field Development
PETROBRAS 56 (P-56)

PETROBRAS

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