



GENERAL	1	Tag Number			48FRQ -060 /F29				
	2	Service			NITROGEN DISTR. SYSTEM				
	3	PEFS			T-10.090.730				
	4	Line Number			G 48 1257-11080X-3				
	5	Line Size	Line Sched.						
	6								
PROCESS CONDITIONS	7	Fluid	Phase		Nitrogen		Gas/Vapor		
	8	State			Single phase				
	9	Corrosive	Erosive	Toxic	N		N		
	10	Coloured	Transp	Build Up					
	11				Units	@ Max. Flow	@ Norm. Flow	@ Min. Flow	
	12	Flow			kg/s	1.2731	1.205		
	13	Pressure			bar-g		7.8		
	14	Temperature			°C		40		
	15	Density			kg/m ³		9.49		
	16	Viscosity at Operating Conditions			cS		1.791		
	17	Compressibility Factor					0.95		
	18	Vapour Pressure							
	19	Spec. Gravity at Base	Oper.						
	20	Molecular Weight			28				
	21	Des. Press. Max / Min	Des. Temp. Max / Min		15.8	bar-g	100	°C	
	22	Critical Pressure			Critical Temperature				
	23	Cp/Cv @ Flow			1.41				
	24	Quality	Superheat						
	25	Supercomp. Factor							
	26	Velocity			6,960 m/s				
	27								
	28								
	METER	29	Size			3 in			
		30	Flange Type	Flange Rating		Flange RF		150 #	
		31	Flange Finish			Ra 3.2 - 6.3 µm			
		32	Flow Range From / To			0	to 1.5		kg/s
		33	Output Signal	Power		4 To 20 mA			
		34	Cable Entry			ISO M20x1.5			
35		Area Classification			Zone 2 IIAT3				
36		Electrical Protection			Eexd				
37		Body Material			316 SS				
38		Trim			316 SS				
39		Permanent Pressure Loss			163	mbar			
40		Min Meter Flow			0.075	kg/s			
41		Max Meter Flow			3.006	kg/s			
42		Min Flow Reynolds No.			1582570 at max. flow				
43		Accuracy			0.1%				
44		Electrical							
45		TLA Setting							
46		Ingress Protection			IP65				
47									
PURCHASE		48	Calibrated Certificate Required			Yes			
	49	Manufacturer			YOKOGAWA				
	50	Model			DY080-ECLBA1-4D/X1/KF1/SCT/FPC				
	51	Requisition Number			JP 3000/32/54 NLG				
	52	Item Number	Quantity					1	
	53	Serial Number							
	54	Engineered By			EC				

Notes:

CD	SPF	31/08/2007	FSW	VPR	Updated for construction	INSTRUMENT DATA SHEET NLNG Six Project Vortex Meter	 		
CC	MCA	31/01/2007	FSW	VPR	Issued for construction				
CB	MCA	11/08/2006	FSW	VPR	Issued for purchase order				
CA	MCA	05/05/2006	FSW	VPR	Issued for enquiry				
CO	MCA	31/03/2006	FSW	VPR	First Issue				
No.	By	Date	Chkd	Apprd	Description	Code: 151	Dwg. No.: T-3.109.766	Sheet 10 of 10	Rev.: CD