				1		1		T T			1	
	!		1	Tag No.		Case		72-MOV-12	2			
	neral		2	Service		P&ID No.		JET FROM	TRT-3 T	O COLONIAL 8	F3-3400-0395	
Dat	а		3	Line No.		Piping class	 S	083P-0001-	-16"-G1 <i>A</i>	\-3-N	150	
			4	Line Size		Line Sched		16 in			STD	
			_		.i.a.l	Line Scried	uie				[51]	
			5	Line Mater	naı			Carbon Stee	eı			
			6	1			1				1	
			7	Fluid		Phase	State	JET			Single phase	Liquid
One	erating		8	Press.	Min. Nor	m. Max.	Units					
	nditions	}	9	Temp.	Min. Nor	m. Max.	Units		1	15		°F
			10	Max.DP CI	losed Valve			265	p	si	•	
			1		open to clos	e		60 sec				
			12		close to ope			60 sec				
			13	<u> </u>				Open/Close	/Stop			
			_	Valve type		Model		Butterfly Sh		n	30,000 Series	
			15	1		Rating		Double Flan			150 ANSI RF	
			16	1	COTTRECTION	Rating		By vendor	ige		1 130 ANOI IXI	
Val	/e			+				FCI 70-2, cl	loop IV/			
Det			17			4 1						
			18		rial / Stem Ma			Stellite 21/U				
			19		rial / Disc Ma	iterial Mate	rial detail	ASTM A216			By vendor	
			20					Valve Stem	in Vertic	al up Position & a	actuator motor in H	or.
			2	Mechanica	al handwheel			Yes				
			22	Allowable t	torque Maxi.			By vendor				
Tord	que		23	Rated	Seating	Star	rting	By vendor		By vendor	Bv	vendor
			24	1		1 5 5 5 5		Class I, Divi	ision 2 (1-7	
			25		orotection Cla	ass		NEMA 4X	<u>-,</u> ₹	·		
			26			Power		480 VAC/ 3	Phase		By vendor	
				1 10.10 0. 1 0.11				1	Tilasc		 	
Lie	ctrical		27			Average		By vendor			By vendor	
			28					By vendor				
			29		lation class			Class F				
			30		p. rise			Class B				
			3′	Actuator m	nodel			Q4G2-3				
			32	Integrated	starter			Yes				
			33	Motor then	mal protect.			Yes				
			34					By vendor				
Acc	essori	es	35	Torque pro	otection			By vendor				
			36					Hard Wired				
			37			Open	Close	Yes (72-ZS0			Yes (72-ZSC-122))
			38		otentiometer	Орсп	01030	N/A	0-122)		100 (12 200 122	-)
1.00	al Stati	ion	39		oteritionietei			1				
LUC	ai Stati	UII		1				Yes				
_				Remote				N/A				
	note		4					Yes				
Cor	ntrols		42					Yes				
Pov			43	Cable type	<u> </u>			<u></u>				
Cat	ole		44	Diam. sea		Overall						
Cor	ntrol		45	Cable type	;							
Cat				Diam. Sea		Overall						
Loc	c. stat.		47								 	
Cal				Diam. seal		Overall						
				Cable glan		Ovoidii		1			<u> </u>	
				Valve Mfr.	и туре	Model Na		VANESSA			30 000 80	
D	rohoo-					Model No.	l	VANESSA			30,000 Series	
ı Pul	rchase		51			Serial Num		EIM_M2CP			By vendor	
			52			equisition No.	Item					
			53	Material Co	ode			<u> </u>				
Note	s: See	notes										
			Π		1					EOIEIO ATTO		
								INSTRUM	IENT SF	ECIFICATION	1	
0	LG	NP	PB	2/1/2010	legued for D	urchase (IFF	D)		/lotorized	Lvalve	1	
	LG	_	_				J	-	violorize0	valve	1	
_		RR	NP		Issued for C			-			01 1-1	-1.0
_	LG	RR	NP		Issued for C			0-1- 011	ln. v		Sheet 1	of 2
No.	Ву	_I Chkd	Appr	Date		Revision		Code: 211	I DOC NO) H269-0000-	INST-T-TDS-72MO	OV122 Rev.: 0

		Tag Nur	mber :	72-MOV-122				
seria and r opera attac 2 In opera 3 S 4Fa Des Desi 5Fii 6Lo	I number maximum ating ran whed by fadividual ation of the upplier to ail Position ign Presign Tempre tested ocal valve	r, area electrical n seating torque. ge, materials of pastenings made integral pushbut he valve and for ocomply client son: FL s.: 265 psig D.: 150 °F design per API e position indicate	classification Valve body parts expose of the same ttons, or sing maintenance specification 609 Categor ion per GP	equipment identification numbers, Operator type, voltage, freeze will be label with equipment ided to process fluid, size (body material as that of the plates gle three-way pushbutton with e purposes. GP15-09-02, GP 15-09-01, GP 15-09-01, GP 15-09-02, GP 15-09-01, GP 15-09-02 Section 4.3 witch w/off position padlocking the purpose of	euency, phase, and dentification number and inner valve), a twist action, shall GP 03-12-01 and G	rated hp, as applicable, er (tag number), Manufact and flow capacity (Cv). Na also be provided, when sept 03-12-09.	maximum design differen rurer name, model, serial Imeplate material shall be	tial pressure number, e SS shall be
					MOTELLE	ENT ODEOLEIOATION		
		0/4/0015	lan. 15	Durah as a (IED)		ENT SPECIFICATION		
0 B	LG LG	2/1/2019 10/17/2018	 	Purchase (IFP) Quote (IFQ)	— Mo	otorized valve		
Α	LG	10/2/2018		Quote (IFQ)		1	Sheet 2 of	
No.	Ву	Date		Revision	Code: 211	Dwg. No.: H269-0000-I	NST-T-TDS-72MOV122	Rev.: 0

				1				I				
0-			1	Tag No.		Case		72-MOV-12	3			
	neral		2	Service		P&ID No.		JET FROM	TR3 TO F	RODUCTS PL	3-3400-0388	
Dat	a		3	+		Piping class	<u> </u>	083P-0002-			150	
								+				
			4			Line Sched	uie	14 in			STD	
			_ 5		rial			Carbon Stee	el			
			6	<u> </u>								
			7	' Fluid		Phase	State	JET			Single phase	Liquid
			8		Min. Nor		Units	· - ·			onigio pridoc	2.90.0
	erating		_		- I				11:	-		105
Cor	nditions	3	9		Min. Nor	m. Max.	Units		1 1)		°F
			10	Max.DP C	losed Valve			265	psi			
			1.	1 Oper. time	open to clos	е		60 sec				
			12	Oper. time	close to ope	n		60 sec				
			1:	 	•			Open/Close	/Ston			
				Valve type		Model		Butterfly Sh			30,000 Series	
			_									
			1:	4	connection	Rating		Double Flan	ige		150 ANSI RF	
			16	Code				By vendor				
Val			17	7 Valve tight	ness			FCI 70-2, cl	ass IV			
Det	ails		18	Seat Mater	rial / Stem Ma	aterial		Stellite 21/U	INS S4100	00		
			19	+	erial / Disc Ma		rial detail	ASTM A216			By vendor	
			_			iteriai IVIATE	ııaı utıdli					
			20						ın Vertical	up Position & a	ctuator motor in H	or.
			2		al handwheel			Yes				
			22	2 Allowable t	torque Maxi.			By vendor				
Tord	que		23	1	Seating	Star	rtina	By vendor		By vendor	l _{Rv}	vendor
			24			Joiai	wiig		icion 2 Cr		ا ال	
								Class I, Divi	SIUII Z, Gľ	oup C,D		
			2		orotection Cla	1		NEMA 4X				
			26	Rated volta	age	Power		480 VAC/ 3	Phase		By vendor	
Ele	ctrical		2	7 Current sta	art	Average		By vendor			By vendor	
			28	B Full load c	urrent			By vendor			•	
			29	+	lation class			Class F				
			_									
			30	+				Class B				
			3	1 Actuator m	nodel			Q4G2-3				
			32	2 Integrated	starter			Yes				
			3:	Motor ther	mal protect.			Yes				
			34					By vendor				
۸۰۰	cessori	00	3	+				By vendor				
ACC	,C35011	C S	_									
			36	+				Hard Wired				
			3	7 Limit Swite	ch	Open	Close	Yes (72-ZS0	O-123)		Yes (72-ZSC-123	<u>)</u>
			38	Position Po	otentiometer			N/A				
Loc	al Stati	ion	39					Yes				
				Remote				N/A				
D	moto				ntral							
	note ntrols		4					Yes				
COI	เแบเร		42	+				Yes				
Pov	ver		43	Cable type	·							
Cab	ole		44			Overall						
Car	ntrol			Cable type		10101011						
Cat						0						
				Diam. Sea		Overall		Į.				
	c. stat.		4									
Cal	ble		48	B Diam. seal	l	Overall						
_			49	Cable glan	nd type		_					
				Valve Mfr.		Model No.		VANESSA			30.000 Series	
Div	rchase		_		A.C.	_	hor				,	
r'ul	iciiase		5			Serial Num		EIM_M2CP			By vendor	1
			52	2 Client Refe	erence Re	equisition No.	Item					
			53	Material C	ode			<u></u>				
Note	es: See	notes	•									
					I			INICTOL	IENIE ODE	OIEIO ATION:		
		 						INSTRUM	IENT SPE	CIFICATION		
$\overline{}$	10	NID.	DD	2/4/2040	looured for 5	urabasa (IFD	۸		10to::	ah a		
	LG	NP	PB			urchase (IFP)	-l	/lotorized v	aive		
	LG	RR	NP		Issued for C			_				
Α	LG	RR	NP	10/2/2018	Issued for C	luote (IFQ)					Sheet 1	of 2
No.	Ву	Chkd	Appr	Date		Revision		Code: 211	Doc No.:	H269-0000-I	NST-T-TDS-72MC	V123 Rev.: 0
_			_				_		_			

		Tag Nur	mber :	72-MOV-123				
seria and r opera attac 2 In opera 3 S 4Fa Des Desi 5Fii 6Lo	I number maximum ating ran whed by fadividual ation of the upplier to ail Position ign Presign Tempre tested ocal valve	r, area electrical n seating torque. ge, materials of pastenings made integral pushbut he valve and for ocomply client son: FL s.: 265 psig D.: 150 °F design per API e position indicate	classification Valve body parts expose of the same ttons, or sing maintenance specification 609 Categor ion per GP	equipment identification number, Operator type, voltage, frectivity be label with equipment ided to process fluid, size (body material as that of the plates. gle three-way pushbutton with e purposes. GP15-09-02, GP 15-09-01, COMPUTE OF TOP 15-09-02, GP 15-09-01, COMPUTE OF 15-09-02 Section 4.3 witch w/off position padlocking with the purposes.	uency, phase, and dentification numbe and inner valve), a twist action, shall GP 03-12-01 and G	rated hp, as applicable, iter (tag number), Manufact and flow capacity (Cv). Na also be provided, when septime 03-12-09.	maximum design differen rurer name, model, serial Imeplate material shall be	tial pressure number, e SS shall be
\vdash					INICTOLIM	ENT SPECIFICATION		
0	1.0	2/1/2010	legued for	Purchase (IED)	_			
0 B	LG LG	2/1/2019 10/17/2018		Purchase (IFP) Quote (IFQ)		torized valve		
Α	LG	10/2/2018	Issued for	Quote (IFQ)		In	Sheet 2 of	
No.	Ву	Date		Revision	Code: 211	Dwg. No.: H269-0000-I	NST-T-TDS-72MOV123	Rev.: 0

				1				I			1	
	nor-!		1	Tag No.		Case		72-MOV-12	4			
Ger Dat	neral		2	Service		P&ID No.		JET FROM	TR3 TO	MOBIL HEAT	3-3400-0388A	
Dai	а		3	Line No.		Piping class	 S	083P-0003-	18"-G1A	-3-N	150	
			4	+		Line Sched		18 in			STD	
			-		rial	Line ouncu	uic	Carbon Stee			TOID	
			_		ıldı			Carbon Stee	51			
			- 6	+			1				T =	T
			7			Phase	State	JET			Single phase	Liquid
One	erating		8	Press.	Min. Nor	m. Max.	Units					
	nditions	}	9	Temp.	Min. Nor	m. Max.	Units		1	15		°F
			10	Max.DP C	losed Valve			265	р	si		
			1		open to clos	e		60 sec				
			12	 	close to ope			60 sec				
			13	<u> </u>				Open/Close	/Stop			
			-	Valve type		Model		Butterfly Sh		n	30,000 Series	
			1:			Rating		Double Flan			150 ANSI RF	
			10	1	COTTTECTION	Rating		By vendor	ige		130 ANOI IXI	
Valv	/e			1				FCI 70-2, cl	000 11/			
Det			1			4 1		+				
			18	+	rial / Stem Ma			Stellite 21/U			1	
			19		rial / Disc Ma	iterial Mate	rial detail	ASTM A216			By vendor	
			20					Valve Stem	in Vertica	al up Position & a	actuator motor in H	or.
			2	Mechanica	al handwheel			Yes				
			22	Allowable t	torque Maxi.			By vendor				
Tord	que		23	Rated	Seating	Star	rting	By vendor		By vendor	Bv	vendor
			24			1 2 3 3 3		Class I, Divi	ision 2 G		1-7	
			2		orotection Cla	ass		NEMA 4X				
			26			Power		480 VAC/ 3	Dhaca		By vendor	
	-4-:1		_	1 10110 0 1 0 11				t	1 Hase		 	
Lie	ctrical		2			Average		By vendor			By vendor	
			28	+				By vendor				
			29		lation class			Class F				
			30	 	p. rise			Class B				
			3	Actuator m	nodel			Q4G2-3				
			32					Yes				
			33	Motor ther	mal protect.			Yes				
			34	Phase disc	criminator			By vendor				
Acc	essorie	es	3	Torque pro	tection			By vendor				
			36					Hard Wired				
			3			Open	Close	Yes (72-ZS0			Yes (72-ZSC-124	1)
			38		otentiometer	Орон	0.000	N/A	J-12 4)		100 (12 200 12	• /
Loc	al Stati	ion	39		oteritionictei			1				
	ai Olali	OH		1				Yes				
Davi				Remote				N/A				
	note ntrols		4	+				Yes				
			42					Yes				
Pov			43	Cable type)			<u></u>				
Cat	ole		44	Diam. sea		Overall						
Cor	ntrol		4	Cable type	;							
Cab				Diam. Sea		Overall						
Loc	c. stat.		4			•					•	
Cal				Diam. seal		Overall		†			1	
			-	Cable glan		10.000		†			1	
				Valve Mfr.	iu typ c	Model No.		VANESSA			30.000 Series	
D	rchase		_	+	46.	+	hor	!			,	
l Fui	ulase		5			Serial Num		EIM_M2CP			By vendor	<u> </u>
			52			equisition No.	Item	.				
			5	Material Co	ode							
Note	s: See	notes										
											1	
			 					INSTRUM	IENT SP	ECIFICATION		
	1.0	ND	DD	2/1/2010	legued for D	Jurobasa (IED	·\	-	Antori-o-l	valvo		
	LG	NP	PB			urchase (IFP)	- "	/lotorized	valve		
_	LG	RR	NP		Issued for C			-			<u> </u>	
_	LG	RR	NP		Issued for C			0 ,	I	11000	Sheet 1	of 2
No.	Ву	Chkd	Appr	Date		Revision		Code: 211	I Doc No	.: H269-0000-	INST-T-TDS-72MO	OV124 Rev.: 0

A LG 10/2/2018 Issued for Quote (IFQ) Sheet 2 of 2			Tag Nur	mber:	72-MOV-124				
Column	seria and r opera attac 2 In opera 3 S 4Fa Des Desi 5Fii 6Lo	I number maximum ating ran whed by fadividual ation of the upplier to ail Position ign Presign Tempre tested ocal valve	r, area electrical n seating torque, ge, materials of astenings made integral pushbut ne valve and for comply client son: FL s.: 265 psig b.: 150 °F design per API e position indicate	classification. Valve body parts expose of the same ttons, or sing maintenance specification 609 Catego tion per GP	n, Operator type, voltage, freez will be label with equipment id to process fluid, size (body material as that of the plates gle three-way pushbutton with e purposes. GP15-09-02, GP 15-09-01, or present the plates of the plat	euency, phase, and dentification numb y and inner valve), n twist action, shall GP 03-12-01 and 0	I rated hp, as applicable, ler (tag number), Manufact and flow capacity (Cv). Na also be provided, when s	maximum design differer turer name, model, serial ameplate material shall b	ntial pressure I number, e SS shall be
Column									
Column									
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Column									
Column						INICTOLINA	IENT SPECIFICATION		
B LG 10/17/2018 Issued for Quote (IFQ) A LG 10/2/2018 Issued for Quote (IFQ) Sheet 2 of 2	0	1.0	2/1/2010	legued for	Purchase (IED)				
	В	LG	10/17/2018	Issued for	Quote (IFQ)	IVIC	SIGNACU VAIVE		
	A No.	LG By	10/2/2018 Date	Issued for	Quote (IFQ) Revision	Code: 211	Dwa No : H269-0000-T		2 Rev.: 0

				_		1		1				
				Tag No.		Case		72-MOV-12	-			
Ger	neral		2	Service				FROM 2B J	ET A T	O DIO DIESEL, I	DIESEL TO WHAF	RF
Date	а			P&ID No.				3-3400-039	5			
				+		Piping class	s	083P-0044-	18"-G1	A-3-N	150	
			-	+		Line Sched		18 in			STD	
					rial			Carbon Stee			10.0	
						Phase	State	DIESEL			Single phase	Liquid
			- 8	-	Min. Nor		Units	2.2022			Single prides	2.94.4
	erating				Min. Nor		Units			115		°F
Cor	nditions	5	1		losed Valve			265		psi	+	1 .
			1	IVIGAL DI C	open to clos	e		60 sec		po.		
			1	· · ·	close to ope			60 sec				
			1	 				Open/Close	/Stop			
			-	1 Valve type		Model		Butterfly Lor		ern API 609	30,000 Series	
			1		connection	Rating		Double Flan			150 ANSI RF	
			1	4		1		By vendor	J			
Valv			1	1	ness			FCI 70-2, cl	ass IV			
Deta	ails		1		rial / Stem Ma	aterial		Stellite 21/U		1000		
			1	Body Mate	erial / Disc Ma	aterial Mate	rial detail	ASTM A216			By vendor	
			2					4			actuator motor in H	lor.
			2		al handwheel			Yes	. 5.0			
			2		torque Maxi.			By vendor				
Tord	que		2	1	Seating	Star	rting	By vendor		By vendor	Rv	vendor
			2			Cital	··· 5	Class I, Divi	sion 2		1 29	
			2		protection Cla	ass		NEMA 4X	0.011 2,	0.00p 0,D		
			2			Power		480 VAC/ 3	Phase		By vendor	
Fled	ctrical		2	1 10110 01 1 0111	_	Average		By vendor			By vendor	
	otilodi		2			, worago		By vendor			Dy vondor	
			2	+	lation class			Class F				
			3					Class B				
			3	+				Q4G2-3				
			3:					Yes				
			3		mal protect.			Yes				
			3					By vendor				
Acc	essorie	es	3	+				By vendor				
			30	+ · · ·				Hard Wired				
			3	+		Open	Close	Yes (72-ZS0			Yes (72-ZSC-125	 5)
			3	+	otentiometer		0.000	N/A	3 120)		1 (. = === .=.	-,
Loc	al Stati	ion	3	+	0.00.00.00.00.00.00.00.00.00.00.00.00.0			Yes				
				Remote				N/A				
Ren	note		4	_	ontrol			Yes				
Con	ntrols		4	-				Yes				
Pov	ver			Cable type				T				
Cab			4	+		Overall		1				
Con	ntrol		4			2.000		†			1	
Cab				Diam. Sea		Overall		†				
Loc	c. stat.		4			,					+	
Cab			4			Overall						
				Cable glan		-					+	
				Valve Mfr.	-71° =	Model No.		VANESSA			30,000 Series	
Pur	rchase		5		Лfr.	Serial Num	ber	EIM_M2CP			By vendor	
			5	+		equisition No.	Item			H269-000	00-INST-X-XER-ID	2
			5	+				1		1 30.		+
Note	s: See	notes		of material e	040							
I												
1	LG	NB	NP	7/18/2010	Change Box	dy to Long Pa	ttern (IFD)	INSTRUM	IENT S	PECIFICATION		
	LG	NP	PB	+	+ <u> </u>	urchase (IFP	, ,	-	/otoriza	nd valve		
	LG	RR	NP PB		Issued for C	•)	-	notorize	d valve		
	LG	RR	NP		Issued for C			-			Sheet 1	of 2
No.	By		Appr	Date	I SSUEU IUI G	Revision		Code: 211	Doc N	lo · H269-0000	INST-T-TDS-72M	
110.	y ر	JIIKU	լ , փիլ	שמכ		LICTIOIOII		J0000. Z11	POOL			OVIZO INGV I

		Tag Nur	mber :	72-MOV-125				
serial and r opera attact 2 In opera 3 Si 4Fa Desi 5Fir 6Lo	I number maximur ating ran thed by fadividual ation of tupplier to ill Positici ign Presign Tempre tested ocal valve	r, area electrical n seating torque. ge, materials of astenings made integral pushbut he valve and for comply client son: FL s.: 265 psig o.: 150 °F design per API e position indicate	classification. Valve bod parts expos of the same ttons, or simple maintenance pecification.	equipment identification number on, Operator type, voltage, freculy will be label with equipment idesed to process fluid, size (body a ematerial as that of the plates. In GP15-09-02, GP 15-09-01, GI ory B (Offset Type). 15-09-02 Section 4.3 switch w/off position padlocking	ency, phase, and entification numbe and inner valve), a wist action, shall	rated hp, as applicable, ler (tag number), Manufact and flow capacity (Cv). Na also be provided, when sep 03-12-09.	maximum design differei urer name, model, serial umeplate material shall b	ntial pressure I number, e SS shall be
\vdash					INIOTEL IS A	THE ODEOLEO ATION		
1	LG	7/18/2019		Body to Long Pattern (IFP)	1	ENT SPECIFICATION		
0 B	LG LG	2/1/2019 10/17/2018		r Purchase (IFP) r Quote (IFQ)	J Mo	torized valve		
А	LG	10/2/2018		r Quote (IFQ)	Code: 044	Dura No : 11200 0000 *		2
No.	Ву	Date	1	Revision	Code: 211	Dwg. No.: H269-0000-I	N21-1-1D2-/2MUV125	Rev.: 1

	1	Tag No	Case		72-MOV-12	6			
1 Tag No. Case Case					2A JET A DIESEL TO COKE DOCK 3-3400-0395				
Data	-				+				
	3	Line No.	Piping class		083P-0006-		·N	300	
	4	Line Size	Line Sched	ule	20 in			40	
	5	Line Material			Carbon Stee	el			
	6								
	7	Fluid	Phase	State	DIESEL			Single phase	Liquid
	8	Press. Min. Norr		Units					
Operating	9	Temp. Min. Norr		Units		115			°F
Conditions	10		II. IVIAX.	Office	710				<u> </u>
	\vdash	Max.DP Closed Valve				psi			
	11	Oper. time open to close			60 sec				
	12	Oper. time close to oper	1		60 sec				
	13	Operation			Open/Close	•		ı	
	14	Valve type	Model		Butterfly Sh	•		30,000 Series	
	15	Valve end connection	Rating		Double Flan	ge		300 ANSI RF	
	16	Code			By vendor				
Valve	17	Valve tightness			FCI 70-2, cl	ass IV			
Details	18	Seat Material / Stem Ma	terial		Stellite 21/U)		
	-	Body Material / Disc Mat		rial detail	ASTM A216			By vendor	
	20	Line mounting	ional I mate	nai dolali	4			actuator motor in Ho	nr .
	-	Mechanical handwheel			Yes	ııı v e rtical U	P I USILIUII OX E	iotuatoi IIIOtOI III M	JI.
	21								
Torque	\vdash	Allowable torque Maxi.	1 -		By vendor		1_	1 -	
101940	23	Rated Seating	Star	ting	By vendor		By vendor	By \	vendor
	24	Area classification			Class I, Divi	sion 2, Gro	up C,D		
	25	Electrical protection Cla	ss		NEMA 4X				
	26	Rated voltage	Power		480 VAC/ 3	Phase		By vendor	
Electrical	27	Current start	Average		By vendor			By vendor	
	28	Full load current			By vendor			,	
	29	Motor insulation class			Class F				
	-	Motor temp. rise			Class B				
	31				 	<u> </u>			
	$\overline{}$	Actuator model			DEEA-303E)			
	32	Integrated starter			Yes				
	33	Motor thermal protect.			Yes				
	34	Phase discriminator			By vendor				
Accessories	35	Torque protection			By vendor				
	36	Communication			Hard Wired				
	37	Limit Switch	Open	Close	Yes (72-ZS0	D-126)		Yes (72-ZSC-126)
	38	Position Potentiometer		•	N/A				
Local Station	39	On valve			Yes				
	40	Remote			N/A				
Remote	41	Remote control			Yes				
Controls	42	Remote indication			Yes				
	-				169				
Power Cable	\vdash	,,	lo "		ļ			<u> </u>	
	44	Diam. seal	Overall		1				
Control	-	Cable type	1 _					Γ	
Cable	_	Diam. Seal	Overall		1				
Loc. stat.	47	Cable type							
Cable	48	Diam. seal	Overall						
	49	Cable gland type							
		Valve Mfr.	Model No.		VANESSA			30,000 Series	
Purchase	51	Actuator Mfr.	Serial Num	ber	EIM_M2CP			By vendor	
	52		quisition No.	Item				,	
	_	Material Code	9410111011110.	1110111					
	၂ ၁၁	material COUC			1				
Notes: See notes									
4 54 1.51) T	0/7/0046 5	D	DED'				T	
	РВ	2/7/2019 Re-Issued fo	,		INSTRUM	ENT SPEC	IFICATION		
	₽В	2/1/2019 Issued for Po	,)	_				
C LG RR 1	NΡ	11/5/2018 Issued for Q	uote (IFQ)		_	Notorized va	lve		
B LG RR N	NΡ	10/17/2018 Issued for Q	uote (IFQ)]				
A LG RR N	NΡ	10/2/2018 Issued for Q	uote (IFQ)					Sheet 1	of 2
No. By Chkd A		Date	Revision		Code: 211	Doc No.:	H269-0000-I	NST-T-TDS-72MC	<u> </u>
. , ,		<u>'</u>						3	

Tag Number: 72-MOV-126

1.- Vendor shall provide nameplate with equipment identification number, valve service as especified on this datasheet, Manufacturer's name,model, serial number, area electrical classification, Operator type, voltage, frecuency, phase, and rated hp, as applicable, maximum design differential pressure and maximum seating torque. Valve body will be label with equipment identification number (tag number), Manufacturer name, model, serial number, operating range, materials of parts exposed to process fluid, size (body and inner valve), and flow capacity (Cv). Nameplate material shall be SS shall be attached by fastenings made of the same material as that of the plates.

2.- Individual integral pushbuttons, or single three-way pushbutton with twist action, shall also be provided, when specified, for OPEN-STOP-CLOSE operation of the valve and for maintenance purposes.

3.- Supplier to comply client specification GP15-09-02, GP 15-09-01, GP 03-12-01 and GP 03-12-09.

4.-Fail Position: FL
Design Press.: 710 psig
Design Temp.: 150 °F

5.-Fire tested design per API 609 Category B (Offset Type).

6.-Local valve position indication per GP 15-09-02 Section 4.3

7.-Integral Local / Remote / Off selector switch w/off position padlocking provision per GP 15-09-02 Section 7.

8.Gear Train provided to meet opening/closing time period.

1	DK	2/7/2019	Re-Issued for Purchase (RFP)	INISTRI IMI	ENT SPECIFICATION			
0	LG	2/1/2019	Issued for Purchase (IFP)	II VOTROWII	LIVI OF LOW TOATION			
С	LG	11/5/2018	Issued for Quote (IFQ)	Mo	torized valve			
В	LG	10/17/2018	Issued for Quote (IFQ)					
Α	LG	10/2/2018	Issued for Quote (IFQ)			Sheet 2	of	. 2
No.	Ву	Date	Revision	Code: 211	Dwg. No.: H269-0000-II	NST-T-TDS-72M0	DV126	Rev.: 1

	1	Tag No	Case		72-MOV-12	7			
1 Tag No. Case Case Case Case Case					2A JET A DIESEL TO COKE DOCK 3-3400-0395				
Data	\vdash				1		NE DOCK		
	3	Line No.	Piping class			20"-G3A-3-N		300	
	4	Line Size	Line Sched	ule	20 in			40	
	5	Line Material			Carbon Stee	el			
	6								
	7	Fluid	Phase	State	DIESEL			Single phase	Liquid
	8	Press. Min. Norr		Units				Giligio pilado	
Operating	-			Units		115			oF .
Conditions	9	Temp. Min. Norr	n. Max.	Units					°F
	10	Max.DP Closed Valve			710	psi			
	11	Oper. time open to close)		60 sec				
	12	Oper. time close to oper	1		60 sec				
	13	Operation			Open/Close	/Stop			
	14	Valve type	Model		Butterfly Sho	ort pattern		30,000 Series	
	15	Valve end connection	Rating		Double Flan	ae		300 ANSI RF	
	16	Code			By vendor	<u> </u>			
Valve	17	Valve tightness			FCI 70-2, cl	ace IV			
Details	-				1				
	\vdash	Seat Material / Stem Ma			Stellite 21/U				
	-	Body Material / Disc Ma	terial Mate	rial detail	ASTM A216			By vendor	
	20	Line mounting			Valve Stem	in Vertical up	Position & a	actuator motor in Ho	or.
	21	Mechanical handwheel			Yes				
	22	Allowable torque Maxi.			By vendor				
Torque	23	Rated Seating	Star	tina	By vendor		By vendor	By	vendor
	24	Area classification	Jota	ung		sion 2, Group		12)	VOLIGOT
	25	Electrical protection Cla			NEMA 4X	31011 Z, O10up	0,0		
	-	<u> </u>	1			Dhasa		D	
	26	Rated voltage	Power		480 VAC/ 3	Phase		By vendor	
Electrical	27	Current start	Average		By vendor			By vendor	
	28	Full load current			By vendor				
	29	Motor insulation class			Class F				
	30	Motor temp. rise			Class B				
	31	Actuator model			DEEA-303B	3			
	32	Integrated starter			Yes				
	33	Motor thermal protect.			Yes				
	-								
	34	Phase discriminator			By vendor				
Accessories	35	Torque protection			By vendor				
	36	Communication			Hard Wired				
	37	Limit Switch	Open	Close	Yes (72-ZS0	O-127)		Yes (72-ZSC-127)
	38	Position Potentiometer			N/A				
Local Station	39	On valve			Yes				
	40	Remote			N/A				
Remote	41	Remote control			Yes				
Controls	42	Remote indication							
	-				Yes				
Power	-	Cable type	1						
Cable	44	Diam. seal	Overall						
Control	45	Cable type							
Cable	46	Diam. Seal	Overall						
Loc. stat.	47	Cable type	_						
Cable		Diam. seal	Overall		1				
	_	Cable gland type	1 5 . 5 . 4						
			Model Na		VANESSA			20 000 Carias	
Durchasa	-	Valve Mfr.	Model No.		VANESSA			30,000 Series	
Purchase	51	Actuator Mfr.	Serial Num		EIM_M2CP			By vendor	
	52	Client Reference Re	quisition No.	Item	1				
	53	Material Code							
Notes: See notes									
1 DK NP F	ъвТ	2/7/2019 Re-Issued fo	or Purchase (RFP)	INICTOLINA	IENT ODEO!	ICATION		
	РВ	2/7/2019 Re-Issued for P	,		. INSTRUM	IENT SPECIF	TICATION		
0 LG NP F	ΡВ	2/1/2019 Issued for P	urchase (IFP		_				
0 LG NP F C LG RR N	PB NP	2/1/2019 Issued for P 11/5/2018 Issued for Q	urchase (IFP) uote (IFQ)		_	IENT SPECIF			
0 LG NP F C LG RR N B LG RR N	PB NP NP	2/1/2019 Issued for Pi 11/5/2018 Issued for Q 10/17/2018 Issued for Q	urchase (IFP) uote (IFQ) uote (IFQ)		_				
0 LG NP F C LG RR N B LG RR N	PB NP NP NP	2/1/2019 Issued for P 11/5/2018 Issued for Q	urchase (IFP) uote (IFQ) uote (IFQ)		_	Motorized valve)	Sheet 1 NST-T-TDS-72MC	of 2 0V127 Rev.: 1

Tag Number: 72-MOV-127

1.- Vendor shall provide nameplate with equipment identification number, valve service as especified on this datasheet, Manufacturer's name, model,

serial number, area electrical classification, Operator type, voltage, frecuency, phase, and rated hp, as applicable, maximum design differential pressure and maximum seating torque. Valve body will be label with equipment identification number (tag number), Manufacturer name, model, serial number, operating range, materials of parts exposed to process fluid, size (body and inner valve), and flow capacity (Cv). Nameplate material shall be SS shall be attached by fastenings made of the same material as that of the plates.

2.- Individual integral pushbuttons, or single three-way pushbutton with twist action, shall also be provided, when specified, for OPEN-STOP-CLOSE operation of the valve and for maintenance purposes.

3.- Supplier to comply client specification GP15-09-02, GP 15-09-01, GP 03-12-01 and GP 03-12-09.

4.-Fail Position: FL
Design Press.: 710 psig
Design Temp.: 150 °F

5.-Fire tested design per API 609 Category B (Offset Type).

6.-Local valve position indication per GP 15-09-02 Section 4.3

7.-Integral Local / Remote / Off selector switch w/off position padlocking provision per GP 15-09-02 Section 7.

8.Gear Train provided to meet opening/closing time period.

1	DK	2/7/2019	Re-Issued for Purchase (RFP)	INISTRI IMI	ENT SPECIFICATION			
0	LG	2/1/2019	Issued for Purchase (IFP)	INSTRUM	LIVI OF LOW TOATION			
С	LG	11/5/2018	Issued for Quote (IFQ)	Mo	torized valve			
В	LG	10/17/2018	Issued for Quote (IFQ)					
Α	LG	10/2/2018	Issued for Quote (IFQ)			Sheet 2	of	. 2
No.	Ву	Date	Revision	Code: 211	Dwg. No.: H269-0000-II	NST-T-TDS-72M	OV127	Rev.: 1

				1		1							
0-	General	1	Tag No.					83-MOV-015					
			2	Service		P&ID No.		DIESEL FR	OM/TO T	K-3010	3-3403-0651		
Dat	id		3	Line No.		Piping class		098P-0003-16"-G1A-3-N		150			
			4			Line Sched		16 in			STD		
			5		rial	I FILE SCHEO	uic	Carbon Steel					
			_		iai			Carbon Steel					
			6	+			I -	.			ı	1	
			7	1		Phase	State	DIESEL			Single phase	Liquid	
One	erating		8	Press.	Min. Nor	m. Max.	Units						
	nditions	3	9	Temp.	Min. Nor	m. Max.	Units	115			°F		
	10 Max.DP Closed Valve					265	ps	i					
			1		open to clos	e		60 sec					
			12	-	close to ope	n		60 sec					
			13	<u> </u>				Open/Close	/Stop				
				Valve type		Model		Butterfly Sh	•	1	30,000 Series		
			15		connection	Rating		Double Flan			150 ANSI RF		
			16	1	COMPECTION	Rating		By vendor	ige		130 ANSI IN		
Val	ve			1				FCI 70-2, cl	000 1\/				
	ails		17			4 1							
			18	+	rial / Stem Ma			Stellite 21/U					
			19		rial / Disc Ma	iterial Mate	rial detail	ASTM A216			By vendor		
			20					Valve Stem	in Vertica	up Position & a	ctuator motor in Ho	or.	
			2	Mechanica	al handwheel			Yes					
			22	Allowable t	orque Maxi.			By vendor					
Tore	que		23	Rated	Seating	Star	rting	By vendor		By vendor	Bv	vendor	
			24		Rated Seating Starting Area classification				ision 2, Gr		1-7		
			25		orotection Cla	ass		NEMA 4X					
			26			Power		480 VAC/ 3	Dhace		By vendor		
	_4		_	1 10110 0 1 0 11	-			1	THASC		•		
Ele	ctrical		27	Current start Average				By vendor By vendor					
			28	+				By vendor					
			29		lation class			Class F					
			30	 	p. rise			Class B					
			3′	Actuator m	nodel			Q4G2-3					
			32	Integrated	starter			Yes					
			33	Motor then	mal protect.			Yes					
			34					By vendor					
Acc	cessori	es	35	Torque pro	tection			By vendor					
			36					Hard Wired					
			37			Open	Close	Yes (72-ZS)			Yes (72-ZSC-015	3)	
			38		otentiometer	Орсп	01030	N/A	J-013)		100 (72 200 010	7	
Loc	al Stati	ion	39		Jentionietei								
LUC	ai Stati	1011		1				Yes					
				Remote				N/A					
	note ntrols		4	+				Yes					
Cor	IUOIS		42					Yes					
Pov			43	Cable type	<u> </u>			<u> </u>					
Cal	ole		44	Diam. sea		Overall							
Cor	ntrol		45	Cable type	;								
Cal				Diam. Sea		Overall		Ī					
Loc	c. stat.		47										
Cal				Diam. seal		Overall		 					
			-	+		OTOIGH							
				Cable glan Valve Mfr.	iu type	Model Ne		VANESSA			30 000 Sorios		
D.	robos-			+		Model No.	L	VANESSA			30,000 Series		
Pu	rchase		51			Serial Num		EIM_M2CP			By vendor		
			52			equisition No.	Item						
			53	Material Co	ode			<u></u>					
Note	es: See	notes											
			I					<u> </u>					
								INSTRUM	IENT SPE	CIFICATION			
_	1.0	h.r.		0/4/0040	la avende -	unales UED	`		A-4 '	.ala			
0	LG	NP	PB			urchase (IFP)	. ^	/lotorized \	/alve			
В	LG	RR	NP		Issued for C								
Α	LG	RR	NP		Issued for C						Sheet 1	of 2	
No.	Ву	Chkd	Appr	Date		Revision		Code: 211	Doc No.	: H269-0000-I	NST-T-TDS-83MC	V015 Rev.: 0	
	-												

		Tag Nur	mber:	83-MOV-015				
seria and r opera attac 2 In opera 3 S 4Fa Des Desi 5Fii 6Lo	Il number maximum ating ran thed by fandividual ation of the upplier to ign Presign Tempre tested ocal valve	r, area electrical n seating torque. ge, materials of astenings made integral pushbut he valve and for o comply client son: FL s.: 265 psig D.: 150 °F design per API e position indicate	classification. Valve body parts exposs of the same ttons, or sin maintenance specification.	on, Operator type, voltagor will be label with equipred to process fluid, size material as that of the p gle three-way pushbutto	e, frecuency, phase, and ment identification numb (body and inner valve), plates. In with twist action, shall 1-01, GP 03-12-01 and 0		maximum design differe turer name, model, seria ameplate material shall b	ntial pressure I number, e SS shall be
			l			IENT ODEOLES STORY		
		0/4/0010	1 '	Develope (IED)		ENT SPECIFICATION		
0 B	LG LG	2/1/2019 10/17/2018	 	Purchase (IFP) Quote (IFQ)	Mo	otorized valve		
Α	LG	10/2/2018	Issued for	Quote (IFQ)	Code: 244	Dura No. 11200 0000 T		2
No.	By	Date	İ	Revision	Code: 211	Dwg. No.: H269-0000-I	משורו-וכמו אוטאטאנעי-ו-וכמו	Rev.: 0

		ا ر	Tag No.			Case			83-MOV-016					
General	\vdash	_	Service			Lase			DIESEL FROM/T	O TK-3010				
Data	\vdash	-	P&ID No.			<u> </u>			3-3403-0651	O 111-0010				
	-	-				Dinin	locs		098P-0001-36"-C	21 A 2 NI	- 41	50		
	\vdash	$\overline{}$	Line No. Line Size			Piping cl				IN-O-IN		150		
	\vdash	$\overline{}$	Line Size	rial		Line Scr	ieuule	-	36 in XS					
		_	Fluid	ııdı	1	Phase	$\overline{}$	State	Carbon Steel				auid	
	-	_	Press.	N disa	Nam			Units	DIESEL	T	31	ingle phase	- -	quid
Operating	-	-	Temp.	Min. Min.	Norr			Units	 	115	_		°F	<u> </u>
Conditions	-	-	-		Norr	m. Max	х.	Units	265	<u> </u>			"	-
	-	\rightarrow	Max.DP CI						60 sec	psi				
	-	_	Oper. time Oper. time						60 sec					
		$\overline{}$	Operation	CIUSE	to oper	1			Open/Close/Stop					
	-	$\overline{}$	Valve type			Model			Butterfly Short Pa		20	0,000 Series	<u> </u>	
		$\overline{}$	Valve type		rtion	Rating			Double Flange			50 ANSI RI		
	<u> </u>	_	Code	COLLIE	JUIT	Railing			By vendor			JU ANGI IN	<u> </u>	
Valve			Valve tight	ness					FCI 70-2, class IV	/				
Details		_	Seat Mater		em Ma	terial			Stellite 21/UNS S					
	-	-					lateria	l detail	ASTM A216 WC		R	y vendor		
	⊢	\rightarrow	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					uctali	Valve Stem in Ve			•	in Hor	
		\rightarrow	Line mounting Mechanical handwheel						Yes	i lioui up i OsillO	u aull	actor friotol		
	$\overline{}$	-	Allowable t						By vendor					
Torque	—	-	Rated		eating	1	Startin		By vendor	By ve	ndor	ı	By ven	dor
		_	Area class				otartii	<u>ig</u>	Class I, Division 2		ildoi		by veni	doi
	-	-	Electrical p			SS			NEMA 4X	_, C.Jup O,D				
		$\overline{}$	Rated volta			Power			480 VAC/ 3 Phas	e	l B	y vendor		
Electrical	-	\rightarrow	Current sta			1 01101		By vendor			By vendor			
_10001001	- ⊢	\rightarrow							By vendor					
		$\overline{}$	Motor insulation class				Class F							
		$\overline{}$							Class B					
		-	Actuator model Integrated starter						SGJK-303K					
		- 1							Yes					
		_					Yes							
	-	$\overline{}$	Phase discriminator				By vendor							
Accessories		-	Torque protection				By vendor							
	_ _	$\overline{}$	Communic						Hard Wired					
		\rightarrow			Оре	en (Close	Yes (72-ZSO-016)			es (72-ZSC	-016)		
		$\overline{}$	Position Potentiometer			· '			N/A					
Local Station		_	On valve						Yes					
		_	Remote				N/A							
Remote			Remote control					Yes						
Controls	4	12	Remote in	dicatio	า				Yes					
Power	4	13	Cable type	;										
Cable		14	Diam. seal	I		Overall								
Control	4	_	Cable type											
Cable		$\overline{}$	Diam. Sea			Overall								
Loc. stat.		47	Cable type	;										
Cable		_	Diam. seal			Overall								
		19	Cable glan	nd type										
		50	Valve Mfr.			Model N	lo.		VANESSA		30	0,000 Series	s	
Purchase	[]	51	Actuator M	1fr.		Serial N	umbe	r	EIM_M2CP		В	y vendor		
		52	Client Refe	erence	Re	quisition N	No.	Item		H269	9-0000-1	NST-X-XEF	R-ID2	
		53	Material Co	ode										
Notes: See notes	1													
0 10 1	1		7/0/00:0	lo:	-	in D		-D)	1					
2 LG NB	NP	_				sion Revis			INSTRUMENT	SPECIFICATION	ON			
1 DK NP	PB	-				or Purchas		-P)						
0 LG NP	PB 2/1/2019 Issued for Purchase (IFP)			Motorized valve										
	RR NP 10/17/2018 Issued for Quote (IFQ) RR NP 10/2/2018 Issued for Quote (IFQ)			-		-	21		-1 0					
A LG RR	NP			Issue	tor Q				Code: 044 D	No. Hoos s		Sheet 1		of 2
No. By Chk	d App	ſ	Date			Revision			Code: 211 Doc	No.: H269-0	UUU-INS	า-า-าบร-8	3IVIUV()	16 Rev.: 2

|--|--|--|--|

1. Vendor shall provide nameplate with equipment identification number, valve service as especified on this datasheet, Manufacturer's name, model, serial number, area electrical classification, Operator type, voltage, frecuency, phase, and rated hp, as applicable, maximum design differential pressure and maximum seating torque. Valve body will be label with equipment identification number (tag number), Manufacturer name, model, serial number, operating range, materials of parts exposed to process fluid, size (body and inner valve), and flow capacity (Cv). Nameplate material shall be SS shall be attached by fastenings made of the same material as that of the plates.

- 2. Individual integral pushbuttons, or single three-way pushbutton with twist action, shall also be provided, when specified, for OPEN-STOP-CLOSE operation of the valve and for maintenance purposes.
- 3. Supplier to comply client specification GP15-09-02, GP 15-09-01, GP 03-12-01 and GP 03-12-09.
- 4. Fail Position: FL Design Press.: 265 psig Design Temp.: 150 °F
- 5. Fire tested design per API 609 Category B (Offset Type).
- 6. Local valve position indication per GP 15-09-02 Section 4.3
- 7. Integral Local / Remote / Off selector switch w/off position padlocking provision per GP 15-09-02 Section 7.
- 8. Gear Train provided to meet opening/closing time period.
- 9. Valve will be suitable for buried service, vendor shall provide live loaded packing which will be enclosed, special paint for buried service, solid seal ring in lieu of the standard laminated seal ring.
- 10. Stem extension 1956 (77 inches).
- 11. Field to use System 7 Coating to include wrapping of buried flanges and bolts.

2	LG	7/8/2019	Stem Extension Revised (IFP)	INISTRIIMI	ENT SPECIFICATION			
1	DK	2/7/2019	Re-Issued for Purchase (RFP)	- INSTRUMENT SI EGII ICATION				
0	LG	2/1/2019	Issued for Purchase (IFP)	Mo	torized valve			
В	LG	10/17/2018	Issued for Quote (IFQ)					
Α	LG	10/2/2018	Issued for Quote (IFQ)			Sheet 2	<u>2</u> of	. 2
No.	Ву	Date	Revision	Code: 211	Dwg. No.: H269-0000-If	NST-T-TD:	S-83MOV016	Rev.: 2

				1	1	_							
C	General	1	Tag No.				83-MOV-017						
			2	Service		P&ID No.		TK-3010 DIESEL FROM/TO MANIFC3-3403-0650					
Data	a		3	Line No.		Piping class		098P-0001-36"-G1A-3-N		150			
			4			Line Sched		36 in XS					
			-			LINE SCHEU	uic	Carbon Steel					
			5	Line Material				Cardon Steel					
			6				1 -			1	1		
			7	Fluid		Phase	State	DIESEL		Single phase	Liquid		
0	rotic -		8	Press. Min.	Norm	n. Max.	Units						
	erating		9	Temp. Min.	Norm		Units		115		٥F		
CON	Conditions 9 1emp. Min. Norm. Max. Onits 10 Max.DP Closed Valve					265	psi	'	•				
				Oper. time open t				60 sec	P-01				
			11					+					
			12	<u> </u>	o open	l		60 sec					
			13	•	-			Open/Close/Stop		ı			
			14	Valve type		Model		Butterfly Short Patt	tern	30,000 Series			
			15	Valve end connec	ction	Rating		Double Flange		150 ANSI RF			
			16	Code	'			By vendor		•			
Valve	/e		17					FCI 70-2, class IV					
Deta	ails		18		om Mat	torial		Stellite 21/UNS S4	1000				
							atal steel "			D. C. Condor			
				Body Material / Di	sc Mat	eriai Mate	rial detail	ASTM A216 WCC		By vendor			
			<u> </u>	Line mounting				Valve Stem in Verti	cal up Position & a	actuator motor in Ho	or.		
			21	Mechanical hand				Yes					
			22	Allowable torque I	Maxi.	-		By vendor	·	·	. <u> </u>		
Torq	que			 	eating	Star	rting	By vendor	By vendor	By	vendor		
				Area classification		Total	<u>a</u>	Class I, Division 2,		Dy \			
						20		NEMA 4X	Group C,D				
			25	· · ·	on Clas	ı				I Daniel I			
			26	The state of the s		Power		480 VAC/ 3 Phase		By vendor By vendor			
Elec	ctrical		27	Current start		Average		By vendor					
			28	Full load current				By vendor					
			29	Motor insulation of	lass			Class F					
				Motor temp. rise				Class B					
			_	Actuator model				SGJK-303K					
					Integrated starter								
								Yes					
			33					Yes					
			34				By vendor						
Acce	essorie	es	35	Torque protection				By vendor					
			36				Hard Wired						
			37				Close	Yes (72-ZSO-017)		Yes (72-ZSC-017)		
							1 0.000	N/A					
1	ol Ct-t.	ion			HELEI			•					
rocs	al Stati	ION		On valve				Yes					
				Remote				N/A					
Rem			41	Remote control				Yes					
Conf	itrols		42	Remote indication	١			Yes					
Pow	ver		43	Cable type									
Cabl				Diam. seal		Overall				1			
						Overall		1		<u> </u>			
Cont			I 45	Cable type				1		I			
1 .vv,				D: 0 :		Overall				I			
Cabl			46	Diam. Seal		Overan				!			
Loc.	. stat.		46	Diam. Seal Cable type		Overan							
	. stat.		46 47			Overall							
Loc.	. stat.		46 47 48	Cable type Diam. seal									
Loc.	. stat.		46 47 48 49	Cable type Diam. seal Cable gland type		Overall		VANESSA		30,000 Series			
Loc. Cab	stat.		46 47 48 49 50	Cable type Diam. seal Cable gland type Valve Mfr.		Overall Model No.	hor	VANESSA EIM M2CD		30,000 Series			
Loc. Cab	. stat.		46 47 48 49 50 51	Cable type Diam. seal Cable gland type Valve Mfr. Actuator Mfr.		Overall Model No. Serial Num		VANESSA EIM_M2CP		30,000 Series By vendor			
Loc. Cab	stat.		46 47 48 49 50 51 52	Cable type Diam. seal Cable gland type Valve Mfr. Actuator Mfr. Client Reference	Red	Overall Model No.	ber Item	†					
Loc. Cab	stat.		46 47 48 49 50 51 52	Cable type Diam. seal Cable gland type Valve Mfr. Actuator Mfr.	Red	Overall Model No. Serial Num		†					
Loc. Cab	stat.		46 47 48 49 50 51 52	Cable type Diam. seal Cable gland type Valve Mfr. Actuator Mfr. Client Reference	Rec	Overall Model No. Serial Num		†					
Loc. Cab	stat. ole		46 47 48 49 50 51 52	Cable type Diam. seal Cable gland type Valve Mfr. Actuator Mfr. Client Reference	Rec	Overall Model No. Serial Num		EIM_M2CP					
Loc. Cabi	rchase	notes	46 47 48 49 50 51 52 53	Cable type Diam. seal Cable gland type Valve Mfr. Actuator Mfr. Client Reference Material Code		Overall Model No. Serial Num quisition No.	Item	†	PECIFICATION				
Puro Notes	rchase	notes	46 47 48 49 50 51 52 53	Cable type Diam. seal Cable gland type Valve Mfr. Actuator Mfr. Client Reference Material Code	sued fo	Overall Model No. Serial Num quisition No.	Item	EIM_M2CP					
Puro Notes	s. stat. ble rchase s: See	notes NP NP	46 47 48 49 50 51 52 53	Cable type Diam. seal Cable gland type Valve Mfr. Actuator Mfr. Client Reference Material Code 2/7/2019 Re-lss 2/1/2019 Issued	sued fo	Model No. Serial Num quisition No.	Item	EIM_M2CP					
Puro Notes	stat. ble rchase s: See	notes NP NP RR	46 47 48 49 50 51 52 53 PB PB	Cable type Diam. seal Cable gland type Valve Mfr. Actuator Mfr. Client Reference Material Code 2/7/2019 Re-Iss 2/1/2019 Issued 10/17/2018 Issued	sued fo d for Pu	Model No. Serial Num quisition No. r Purchase (urchase (IFP)	Item	EIM_M2CP					
Puro Notes	s. stat. ble rchase s: See	notes NP NP	46 47 48 49 50 51 52 53	Cable type Diam. seal Cable gland type Valve Mfr. Actuator Mfr. Client Reference Material Code 2/7/2019 Re-lss 2/1/2019 Issued	sued fo d for Pu	Model No. Serial Num quisition No. r Purchase (urchase (IFP)	Item	EIM_M2CP			of 2		

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1 Vendor shall provide nameplate with equipment identification number, valve service as especified on this datasheet, Manufacturer's name, mode serial number, area electrical classification, Operator type, voltage, frecuency, phase, and rated hp, as applicable, maximum design differential pre and maximum seating torque. Valve body will be label with equipment identification number (tag number), Manufacturer name, model, serial number operating range, materials of parts exposed to process fluid, size (body and inner valve), and flow capacity (Cv). Nameplate material shall be SS stattached by fastenings made of the same material as that of the plates. 2 Individual integral pushbuttons, or single three-way pushbutton with twist action, shall also be provided, when specified, for OPEN-STOP-CLO operation of the valve and for maintenance purposes. 3 Supplier to comply client specification GP15-09-02, GP 15-09-01, GP 03-12-01 and GP 03-12-09. 4Fail Position: FL Design Press.: 265 psig Design Temp.: 150 °F 5Fire tested design per API 609 Category B (Offset Type). 6Local valve position indication per GP 15-09-02 Section 4.3 7Integral Local / Remote / Off selector switch w/off position padlocking provision per GP 15-09-02 Section 7. 8. Gear Train provided to meet opening/closing time period.	essure er, hall be

				INISTRUM	ENT SPECIFICATION			
1	DK	2/7/2019	Re-Issued for Purchase (RFP)		LIVI OI LOII IOATION			
0	LG	2/1/2019	Issued for Purchase (IFP)	Mo	torized valve			
В	LG	10/17/2018	Issued for Quote (IFQ)					
Α	LG	10/5/2018	Issued for Quote (IFQ)			Sheet 2	of	. 2
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				1									
	General	1	 				83-MOV-018						
			2	Service		P&ID No.		DIESEL FR	OM/TO TK	(-3010	3-3403-0651		
Dat	id		3	Line No.		Piping class	 S	098P-0004-10"-G1A-3-N					
			4		Line Size Line Schedule			10 in STD					
			5		rial	I FILE OCHEO	uic	Carbon Steel					
			_		iai			Carbon Steel					
			6				I -				1		
			7	1		Phase	State	DIESEL			Single phase	Liquid	
One	erating		8	Press.	Min. Nor	m. Max.	Units						
	nditions	3	9	Temp.	Min. Nor	m. Max.	Units	115			°F		
	10 Max.DP Closed Valve				265	psi							
			1		open to clos	e		60 sec					
			12	-	close to ope			60 sec					
	13 Operation				Open/Close	/Stop							
			-	Valve type		Model		Butterfly Sh			30,000 Series		
					oonnootion	Rating		Double Flan			150 ANSI RF		
			15	1	COTTRECTION	Railig		+	iye		130 ANSI KI		
Valv	Ve		16	1				By vendor	1) /				
	ails		17					FCI 70-2, cl					
			18	+	rial / Stem Ma			Stellite 21/U					
			19		rial / Disc Ma	iterial Mate	rial detail	ASTM A216			By vendor		
			20	Line moun	ting			Valve Stem	in Vertical	up Position & a	ctuator motor in Ho	or.	
			2	Mechanica	al handwheel			Yes					
			22	Allowable t	orque Maxi.			By vendor					
Tore	que		23	1	Seating	Star	rtina	By vendor		By vendor	By	vendor	
			24			Jotai	y	Class I, Divi	sion 2 Gra		l Dy		
			25		orotection Cla	200		NEMA 4X	31011 2, 010	опр С,Б			
			26			1		480 VAC/ 3	Dhasa		Duyandar		
				1 10110 0 1 0 11		Power		 	Phase		By vendor		
Ele	ctrical		27			Average		By vendor By vendor					
			28		urrent			By vendor					
			29	Motor insu	lation class			Class F					
			30	Motor tem	Motor temp. rise								
			3	Actuator m	nodel			Q2G2-3					
			32	Integrated	starter			Yes					
			33		mal protect.			Yes					
			34					By vendor					
Acc	cessori	00	35					By vendor					
700	CSSUIN	C 3	_	+									
			36			0	1 01	Hard Wired			V (70 700 040		
			37			Open	Close	Yes (72-ZS0	J-018)		Yes (72-ZSC-018	9)	
			38		otentiometer			N/A Yes					
Loc	al Stati	ion	39	1	On valve								
			40	Remote				N/A					
	note		4				Yes						
Cor	ntrols		42	Remote in	dication			Yes					
Pov	ver		-	Cable type									
Cat			44			Overall							
Cor	ntrol		-	Cable type		Joveran							
Cal						Overell		1					
				Diam. Sea		Overall		 					
Cal	c. stat.		47			10 "		.					
Udi	ni c			Diam. seal		Overall		.					
				Cable glan	id type	_		1					
			50	Valve Mfr.		Model No.		VANESSA			30,000 Series		
Pu	rchase		5	Actuator M	1fr.	Serial Num	ber	EIM_M2CP			By vendor		
			52	+	erence Re	equisition No.	Item				-		
			53					1		-			
Note	es: See	notes		y Waterial O									
		ı .	1	I	I						Γ		
								INSTRUM	IENT SPE	CIFICATION			
_								-					
0	LG	NP	PB			urchase (IFP)		Notorized v	alve			
В	LG	RR	NP		Issued for C	· · · · · · · · · · · · · · · · · · ·		_					
Α	LG	RR	NP		Issued for C						Sheet 1	of 2	
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		Tag Nun	mber:	83-MOV-018	
serial and r opera attacl 2 In opera 3 Si 4Fa Desi Desi 5Fir 6Lo	I number maximum ating ran hed by fadividual ation of the upplier to the ill Position in Tempere tested acal valve	r, area electrical on seating torque. ge, materials of pastenings made of integral pushbut he valve and for occumply client som: FL s.: 265 psig D.: 150 °F design per API of the position indication of the position indication of the property of the position indication get a property of the prop	classification Valve body parts exposion of the same tons, or sin maintenance expecification 609 Catego ion per GP	on, Operator type, v y will be label with e sed to process fluid e material as that of gle three-way push ce purposes. n GP15-09-02, GP ory B (Offset Type). 15-09-02 Section 4	hbutton with twist action, shall also be provided, when specified, for OPEN-STOP-CLOSE 2 15-09-01, GP 03-12-01 and GP 03-12-09.
					INSTRUMENT SPECIFICATION
0	LG	2/1/2019		Purchase (IFP)	Motorized valve
B A	LG LG	10/17/2018 10/5/2018		Quote (IFQ) Quote (IFQ)	Sheet 2 of 2
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