

1	AS BUILT	16/06/11	DQP	RGT	JFS
0	ISSUED FOR PURCHASE	26/03/10	MRM	S&W	GVR
B	ISSUED FOR QUOTATION	25/08/09	MRM	S&W	GVR
A	ISSUED FOR QUOTATION	06/05/09	MRM	S&W	GVR
REV	DENOMINACIÓN	FECHA	DIBUJÓ	REVISÓ	APROBÓ



OBM: 3149

ESTE DOCUMENTO CONTIENE INFORMACIÓN DE PROPIEDAD DE AESA. SU REPRODUCCIÓN TOTAL O PARCIAL ESTA PROHIBIDA.

PROYECTO

GAS OIL Y GASOLINA
DE BAJO AZUFRE

	PROYECTO	DIBUJÓ	REVISÓ	APROBÓ
INICIAL	MRM	MRM	RGT	RMT
FECHA	25/08/09	25/08/09	25/08/09	25/08/09
FIRMA				

TITULO

DATA SHEET
Paquete de Inyección de Inhibidor de Corrosión - Anti
incrustante 3802 L

DOC. AESA N°: 3149-06-3800-IG-EM-HD-0003

DOC.ANCAP
N°

HOJA

1 DE 5

ESCALA

S/E

VERSION
1

REVISION

1

REALIZADO EN EXCEL 2003 NO MODIFICAR MANUALMENTE

 	PROYECTO: OBM: 3149 GAS OIL Y GASOLINA DE BAJO AZUFRE		AES A N°		3149-06-3800-IG-EM-HD-0003	
			ANCAP N°			
			VERSION	1	DIBUJO	DQP
			REV.	1	REVISO	RGT
DATA SHEET Paquete de Inyección de Inhibidor de Corrosión - Anti incrustante 3802 L		FECHA DE EMISION		16/06/2011		
1 Applicable to: ☐ Proposal ☒ Purchase ☐ As Built 2 For Refinería "La Teja" - ANCAP Unit Sistema de Agua de Enfriamiento 3 Site Montevideo / Uruguay Nbr. Of Pumps Required 2 (Two) 4 Service Inyección de Inhibidor de corrosión Size and Type MMX2540DC400P-1 / Metering Pumps 5 Manufacturer MIRBLA Serial No. _____ 6 Note: ☐ Indicates Information to be Completed by Purchaser ☐ by Manufacturer ☒ By Mfr / Purchaser as Applicable						
GENERAL						
8 No. Motor Driven _____ Other Driver Type _____ 9 Pump Item No.'s 3802 LJ A/B Pump item No.'s _____ 10 Motor item No.'s _____ Driver Item No.'s _____ 11 Motor Provided by _____ Driver Provided by _____ 12 Motor Mounted by _____ Driver Mounted by _____ 13 Motor Data Sheet No. _____ Driver Data Sheet No. _____ 14 Gear Item No.'s _____ 15 Gear Provided by _____ 16 Gear Mounted by _____ 17 Gear Data Sheet No. _____						
OPERATING CONDITIONS						
18 ● Capacity @ PT (l/h) _____ 19 Max. _____ Min. 3 Rated 12 20 ● Discharge Pressure (Kg/cm2g) _____ 21 Max. 1,15 Min. _____ 22 ● Suction Pressure (Kg/cm2g) _____ 23 Max. 0 Min. _____ 24 ● Differential Pressure (Kg/cm2g) _____ 25 Max. 1,15 Min. _____ 26 ● NSPH Available (Without acceleration head) (m) 8 27 ○ Acceleration head (m) 7,00 Net _____ 28 ○ Turndown ratio _____ 29 ● Intermittent / Continuous: Continuous						
PERFORMANCE						
30 ■ Number of feeds 1 Rated capacity (l/h) 12 31 ■ NSPH Required (mcl) 6 32 □ KW Rated _____ At relief setting _____ 33 ■ Plunger Speed (strokes/min) 1-30 Desing Max _____ 34 ■ Diameter (mm) _____ Stoke vol(cm3) 11 35 □ Pump Head _____ 36 ■ Maximum pressure (Kg/cm²g) 15 37 □ Hydrotest pressure (Kg/cm²g) _____ 38 □ Max. Disch. Press. W/ Job Driver (Kg/cm²g) _____ 39 □ Max. KW Basis Gear Strength _____						
CONSTRUCTION						
40 Connections _____ 41 Tank connection 200mm NPT _____ 42 Discharge product 1/2" NPT _____ 43 Air 1/2" NPT M _____ 44 Liquid end ☐ Jacket Req'd _____ 45 Type ☒ Diaphragm ☐ Plunger _____ 46 ■ Diaphragm (mm) 24,5 No. Req. 1 47 □ Valve/Feed _____ 48 Suction _____ Discharge _____ 49 Type _____ 50 Number _____ 51 Remarks _____ 52 _____ 53 _____ 54 _____						
LIQUID						
55 ● Type or Name of Liquid Water (7) 56 ● Pumping Temperature (°C) _____ 57 Normal 16 Max. 34,0 Min. _____ 58 ● Density @ P,T (Kg/m3) Max. 1630 Min. _____ 59 ○ Specific Heat (kcal/kg.°C) _____ 60 ● Viscosity @ P,T (cp) Max. 19,0 Min. _____ 61 ○ Corrosive/Erosive Agents _____ 62 ○ Chloride Concentration (ppm) _____ 63 ○ H2S Concentration (ppm) _____ 64 Liquid ☐ Toxic ☐ Flammable ☐ Other _____ 65 ○ Vapour Press. _____ (Kg/cm2 a)						
SITE AND UTILITY DATA						
66 Location ☐ Indoor ☒ Outdoor 67 ○ Heated ☒ Unheated ☐ Under Roof 68 ● Electrical Area Class IEC - Zone 2 - Group IIB - T3 69 ○ Winterization Req'd ☐ Tropicalization Req'd 70 Site Data 71 ● Range of Ambient Temps: Min / Max (°C) -3 / 34 72 Unusual Conditions 73 ○ Dust ☐ Fumes ☐ Salt Atmosphere 74 ● Other Marine and industrial Corrosive Environment 75 ● Allowable Noise level : 85dBA @ 1m 76 ○ Utility Conditions 77 Cooling Water Inlet _____ Return _____ Design _____ Max Δ _____ 78 Temp (°C) _____ 79 Press(Kg/cm2g) _____ 80 Source Cooling tower 81 Power Supply: ☒ Air ☐ Nat. Gas 82 Available pressure (kg/cm²): min: 4 norm. 4,5 max: 5,5 83 ● Plant Air ☐ Instruments Air						

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NOTES	
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2	
3	1.- Sub-suppliers shall be selected from ANCAP's vendor list. See document 3149-00-0000-IG-GE-OD-0001.
4	
5	2.- Failure detection switch shall be provided for double diaphragm pump type.
6	
7	3.- All instruments shall be FM certified. All instrumentation shall be intrinsic safety and shall be installed in classified area.
8	All field instrumentation shall be suitable for operation in a corrosive, salt laden, marine atmosphere.
9	All field instrumentation should be have lightning protection (atmospheric discharges).
10	The "conformally coated" requirements shall include all electronic devices to be installed in the plant (PLC, instruments, etc.)
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12	4.- Painting system will be defined by vendors, in conjunction with paint manufacturer recommendation. Marine atmosphere and high corrosive industrial ambient represents the main concern.
13	
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15	5.- Pumps shall be capable to operate in the range 0 to 100 %. The accuracy for the range 10% to 100% shall be 1 % error maximum.
16	
17	6.- The Chemical Injection System shall be a mounted package. The package shall be provided fully assembled and tested ready for installation at site. Vendor scope of supply shall be comprised following elements as minimum:
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20	- 2 (two) Pneumatic metering pumps.
21	- 1 (one) Reservoir. Reservoir shall be provided mounted on the injection skid. Reservoir features shall be the following:
22	- Volume: 1 m ³
23	- Material: Polypropylene
24	- Quick connection (1") for chemical filling.
25	- Grounding lug.
26	- low level switch
27	- Level gauge
28	- Vent connection
29	- 1 (one) calibration column.
30	- 1 (one) external PSV per pump.
31	-
32	- Pressure Gages at discharge line per pump.
33	- 1 (one) Solenoid valve
34	- 1 (one) Pressure-regulating valve
35	- 1 (one) Pneumatic controller per pump.
36	- 1 (one) Filter drier
37	
38	Drain shall be collected in a drain collector inside the package and conducted to the structure edge.
39	Valves, tubing, accessories and all component.
40	
41	Chemical injection system arrangement shall be as is indicated on page 5
42	
43	7.- Fluid composition:
44	H3PO4 5-10%,
45	Methanol 0,1-1%,
46	sodium-hydroxymethansulfonat 1-5%
47	
48	8.- One reservoir (3802-LFA) must be installed on skid and the other (3802-LFB) must be provided with a separated structure to be installed next to the skid.
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50	
51	9.- Reservoir 3802-LF B features shall be the following:
51	- Volume: 1 m ³
51	- Material: Polypropylene
54	- Quick connection (1") for chemical filling.
55	- Grounding lug.
56	- Vent connection
57	- Level gauge
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ADDITIONAL INFORMATION

