



General arrangement drawing

143-P-103 A/B/C

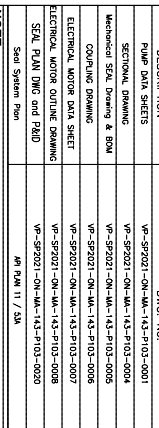
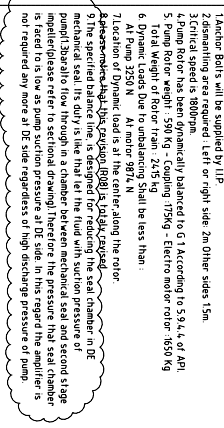
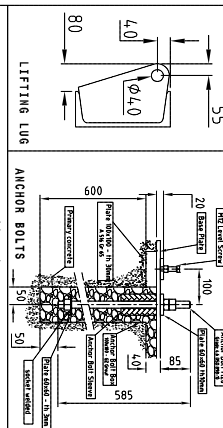
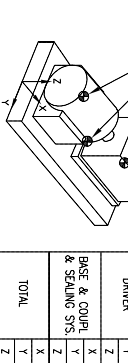
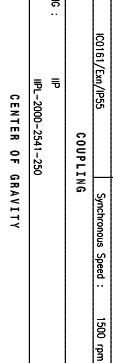
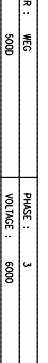
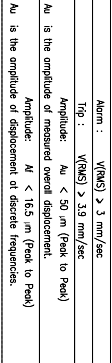
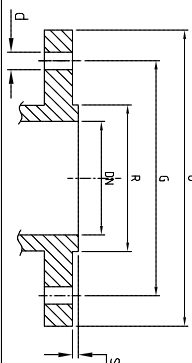
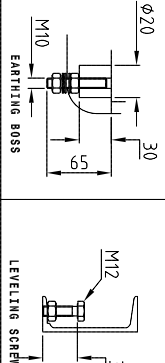
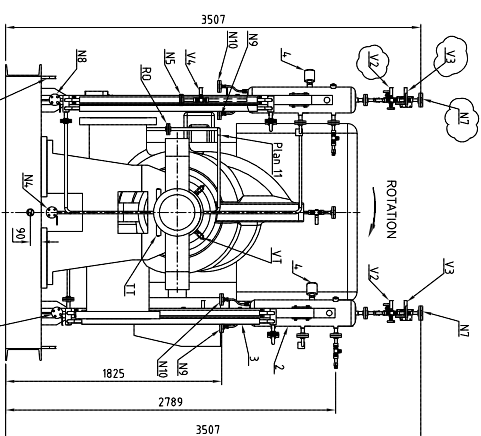
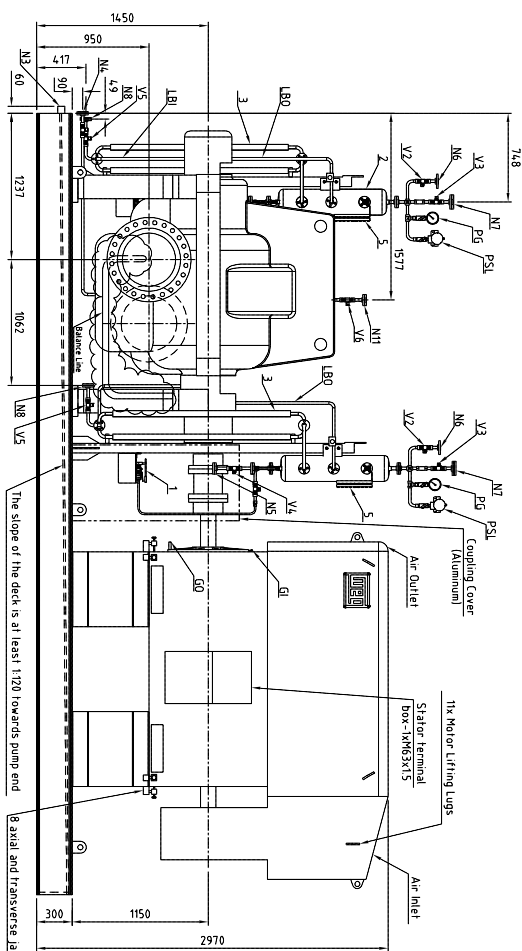


EQUIPMENT NAME: HC CONDENSATE LOADING PUMP

DOCUMENT TITLE: General arrangement drawing

Code1	<input checked="" type="checkbox"/> (Approved) Vendor to submits " For Final" (No comment & release for manufacturing)				
Code2	<input type="checkbox"/> (Approved with comments) : Vendor shall correct / revise & resubmit it as " For Final " (Released for manufacturing if change incorporated as indicated)				
Code3	<input type="checkbox"/> (Commented) : Vendor shall correct / revise & resubmit . It as " For Approval" of the date specified : (Corrected documents to be resubmitted before starting manufacturing)				
Code4	<input type="checkbox"/> Not Acceptable quality (Reject)				
The above checking result by OIEC shall in no way relieve Vendor of any liability, obligation and responsibility out of the purchase order and the mutual agreement in writing					
<div style="display: flex; justify-content: space-between;"> <div> <p>OIEC – SP20 &21</p> </div> <div> <p>Date: 25-Dec-2017</p> <p>Dept: Machinery</p> <p>Signature: Sh. Rahimi</p> </div> </div>					
Only for internal review					
CV	PI	EL	IN	ME	MA
ST	BU	PR	SA	HV	TL

11	05, Sep. 2017	ISSUED FOR APPROVAL	S.Ta	A.Ar	A.Ar
08	Dec,23,15	ISSUED FOR APPROVAL	S.Ta	A.Ar	A.Ar
07	Jun,08,15	ISSUED FOR APPROVAL	S.Ta	A.Ar	A.Ar
06	Apr,13,15	ISSUED FOR APPROVAL	S.Ta	A.Ar	A.Ar
05	Mar,04,15	ISSUED FOR APPROVAL	S.Ta	A.Ar	A.Ar
04	Jan,25,15	ISSUED FOR APPROVAL	S.Ta	S.Ra	A.Ar
03	Nov,30,14	ISSUED FOR APPROVAL	S.Ta	S.Ra	A.Ar
02	Jun,25,14	ISSUED FOR APPROVAL	A.Na	S.Ra	A.Ar
01	May,17,14	ISSUED FOR APPROVAL	A.Na	S.Ra	A.Ar
00	Feb,18,14	ISSUED FOR APPROVAL	A.Sh	M.Ra	A.Ar
REV.	DATE	DESCRIPTION	PRE'D	CHK'D	APP'D
SOUTH PARAS GAS FIELD DEVELOPMENT (PHASES 20&21), ASSALUYEH, IRAN ONSHORE FACILITIES			CONTRACT NO.: POGC 572-88-35		
			REQ'N NO.: MR-SP2021-ON-MA-0910-0006		
<p>I.I.P. Group IRAN INDUSTRIAL PUMPS</p>			ITEM NO.: 143-P-103 A/B/C		
			DOCUMENT NO.: VP-SP2021-ON-MA-143-P103-0002		



Pos.	Dim.	Coord. Type		0	c	Real	r	model
						Pos		S
11	1 st	AMS J 300 SE	Section Ridge (4216 or 483)	711	626k	24	35	535k / 1.6
12	1 st	AMS J 300 SE	Drainage Ridge (2416 or 24)	711	626k	24	35	535k / 1.6
13	1 st	1 st WPT	Blair River / Blair (Cotton Hill)	117	626	20	35	689k / 1.6
14	1 st	AMS J 300 SE	Blair River / Blair (Cotton Hill)	117	626	4	19	424k / 1.6
15	2 nd	AMS J 300 SE	East Branch Blair River (Harpis 1531k)	117	626	4	19	424k / 1.6
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137	2 nd	AMS J 30						

[illegible]

FM

Foundation thrust with breakaway torque

FN

Foundation thrust with brake torque

FM1=164766 N
-76673 N
FN1=56119 N




1305

1305

FM2=-76673 N
164766N
FN2=110175 N

COUPLING :		IP	IP-2000-2341-250
W:	1600	H:	50
CON:	100161/Ean/1955	Synchronous Speed :	1500 rpm

PUMP		DRIVER		BASE & COUPLING & SEALING SYS		TOTAL	
		X	Y	X	Y	X	Y
	-4	Z	1381	Z	5065	Z	3442
	15	Y	15	Y	3100	Y	47
	1740	Z	1740	Y	0	Z	307
	3100	Y	3100	Y	0	X	3442
	0	Z	307	Z	1142	Z	1142

Source	Classification	Version	Project	Version	Part No.	Appr.
<p align="center">  NIOC NIGERIAN OIL AND GAS COMPANY </p>						
<p align="center"> SOUTH PASS GAS FIELD DEVELOPMENT PHASE 2021 ASSET/ITER OVERSHORE FACILITIES </p>						
Object No.:	PO66-572-B8-35		Doc Class:	01		Scale: 1/30
Product:	 LIP GROUP IRAN INDUSTRIAL PIGERS CO.		Purchaser:	 OIEC		
<p> Document Title: GENERAL ARRANGEMENT HC CONCENTRATOR LUBRICATION PUMP 143-P-103 A/B/C </p>						
Pump Types:			HSC-2000-115x2			
Drawing No.	VP-572021-00A-MA-143-P-103-0002		SHEET No.	3 OF 3		REV. 11

VIBRATION LEVEL	
<p>Amplitude: $A_u > 3 \text{ mm/sec}$</p>	<p>Frequency: $f > 3.9 \text{ mm/sec}$</p>
<p>Amplitude: $A_u < 50 \text{ m (Peak to Peak)}$</p>	<p>Frequency: $f < 16.5 \text{ m (Peak to Peak)}$</p>
<p>Amplitude: A_u is the amplitude of measured overall displacement.</p>	
<p>Frequency: f is the frequency of measured overall displacement.</p>	
<p>Amplitude: A_u is the amplitude of displacement of discrete frequencies.</p>	
ELECTRICAL MOTOR	
ELUMOTOR : WEG	PHASE : 3

[illegible]

The drawing shows a side view of the lifting lug and anchor bolts assembly. The lifting lug is a conical shape with a top diameter of 70 mm and a base diameter of 80 mm. It is attached to a vertical plate. The anchor bolts are shown in cross-section, with labels for 'ANCHOR BOLTS', 'WASHER PLATE', 'WASHER', 'NUT', and 'WASHER PLATE'. Dimensions include a total height of 55 mm for the lifting lug, a 20 mm gap between the lifting lug and the anchor bolts, a 100 mm distance between the anchor bolts, and a 50 mm distance between the anchor bolts and the lifting lug. The anchor bolts are labeled 'ANCHOR BOLTS 12 mm DIA. 100 mm LONG' and 'ANCHOR BOLTS 12 mm DIA. 100 mm LONG'. The lifting lug is labeled 'LIFTING LUG' and 'MAX. MISALIGNMENT'.

1. Aerator Bots will be supplied by ILP
2. Undermining will be required. Left or right side. 2m either sides. 15m.
3. Pump Motor has been mechanically balanced to G1 according to 5.9.4.4 of API
4. Pump Motor weight: 590 Kg - (Coupling 175kg - Electro motor rotor 1650 Kg
5. Total weight of Rotor train 2475 kg
6. Dynamic loads due to imbalance Shall be less than
At pump 3250 N At motor 9875 N
7. Location of Dynamic load is at the center along the rotor.
8. The maximum allowable bending stress (σ_{max}) in the shaft of the chamber in DE
mechanical seal is its duty is the half of the fluid with suction pressure of
pump1. Slightly flow through in a chamber between mechanical seal and second stage
pump1. Slightly flow through in a chamber between the pressure high seal chamber
is not required any more at DE side regardless of high discharge pressure of pump.

PUMP DATA SHEETS	VP-99-0201-ON-MAN-1A-3-101-0001
	VP-99-0202-ON-MAN-1A-3-101-0004
	VP-99-0203-ON-MAN-1A-3-101-0005
	VP-99-0204-ON-MAN-1A-3-101-0006
	VP-99-0205-ON-MAN-1A-3-101-0007
MECHANICAL DRAWING & BOM	VP-99-0206-ON-MAN-1A-3-101-0008
COUNTING DRAWING	VP-99-0207-ON-MAN-1A-3-101-0009
ELECTRICAL WIRING DATA SHEET	VP-99-0208-ON-MAN-1A-3-101-0010
ELECTRICAL WIRING DATA SHEET	VP-99-0209-ON-MAN-1A-3-101-0011
ELECTRICAL WIRING DATA SHEET	VP-99-0210-ON-MAN-1A-3-101-0012
ELECTRICAL WIRING DATA SHEET	VP-99-0211-ON-MAN-1A-3-101-0013
ELECTRICAL WIRING DATA SHEET	VP-99-0212-ON-MAN-1A-3-101-0014
ELECTRICAL WIRING DATA SHEET	VP-99-0213-ON-MAN-1A-3-101-0015
ELECTRICAL WIRING DATA SHEET	VP-99-0214-ON-MAN-1A-3-101-0016
ELECTRICAL WIRING DATA SHEET	VP-99-0215-ON-MAN-1A-3-101-0017
ELECTRICAL WIRING DATA SHEET	VP-99-0216-ON-MAN-1A-3-101-0018
ELECTRICAL WIRING DATA SHEET	VP-99-0217-ON-MAN-1A-3-101-0019
ELECTRICAL WIRING DATA SHEET	VP-99-0218-ON-MAN-1A-3-101-0020
ELECTRICAL WIRING DATA SHEET	VP-99-0219-ON-MAN-1A-3-101-0021
ELECTRICAL WIRING DATA SHEET	VP-99-0220-ON-MAN-1A-3-101-0022
ELECTRICAL WIRING DATA SHEET	VP-99-0221-ON-MAN-1A-3-101-0023
ELECTRICAL WIRING DATA SHEET	VP-99-0222-ON-MAN-1A-3-101-0024
ELECTRICAL WIRING DATA SHEET	VP-99-0223-ON-MAN-1A-3-101-0025
ELECTRICAL WIRING DATA SHEET	VP-99-0224-ON-MAN-1A-3-101-0026
ELECTRICAL WIRING DATA SHEET	VP-99-0225-ON-MAN-1A-3-101-0027
ELECTRICAL WIRING DATA SHEET	VP-99-0226-ON-MAN-1A-3-101-0028
ELECTRICAL WIRING DATA SHEET	VP-99-0227-ON-MAN-1A-3-101-0029
ELECTRICAL WIRING DATA SHEET	VP-99-0228-ON-MAN-1A-3-101-0030
ELECTRICAL WIRING DATA SHEET	VP-99-0229-ON-MAN-1A-3-101-0031
ELECTRICAL WIRING DATA SHEET	VP-99-0230-ON-MAN-1A-3-101-0032
ELECTRICAL WIRING DATA SHEET	VP-99-0231-ON-MAN-1A-3-101-0033
ELECTRICAL WIRING DATA SHEET	VP-99-0232-ON-MAN-1A-3-101-0034
ELECTRICAL WIRING DATA SHEET	VP-99-0233-ON-MAN-1A-3-101-0035
ELECTRICAL WIRING DATA SHEET	VP-99-0234-ON-MAN-1A-3-101-0036
ELECTRICAL WIRING DATA SHEET	VP-99-0235-ON-MAN-1A-3-101-0037
ELECTRICAL WIRING DATA SHEET	VP-99-0236-ON-MAN-1A-3-101-0038
ELECTRICAL WIRING DATA SHEET	VP-99-0237-ON-MAN-1A-3-101-0039
ELECTRICAL WIRING DATA SHEET	VP-99-0238-ON-MAN-1A-3-101-0040
ELECTRICAL WIRING DATA SHEET	VP-99-0239-ON-MAN-1A-3-101-0041
ELECTRICAL WIRING DATA SHEET	VP-99-0240-ON-MAN-1A-3-101-0042
ELECTRICAL WIRING DATA SHEET	VP-99-0241-ON-MAN-1A-3-101-0043
ELECTRICAL WIRING DATA SHEET	VP-99-0242-ON-MAN-1A-3-101-0044
ELECTRICAL WIRING DATA SHEET	VP-99-0243-ON-MAN-1A-3-101-0045
ELECTRICAL WIRING DATA SHEET	VP-99-0244-ON-MAN-1A-3-101-0046
ELECTRICAL WIRING DATA SHEET	VP-99-0245-ON-MAN-1A-3-101-0047
ELECTRICAL WIRING DATA SHEET	VP-99-0246-ON-MAN-1A-3-101-0048
ELECTRICAL WIRING DATA SHEET	VP-99-0247-ON-MAN-1A-3-101-0049
ELECTRICAL WIRING DATA SHEET	VP-99-0248-ON-MAN-1A-3-101-0050
ELECTRICAL WIRING DATA SHEET	VP-99-0249-ON-MAN-1A-3-101-0051
ELECTRICAL WIRING DATA SHEET	VP-99-0250-ON-MAN-1A-3-101-0052
ELECTRICAL WIRING DATA SHEET	VP-99-0251-ON-MAN-1A-3-101-0053
ELECTRICAL WIRING DATA SHEET	VP-99-0252-ON-MAN-1A-3-101-0054
ELECTRICAL WIRING DATA SHEET	VP-99-0253-ON-MAN-1A-3-101-0055
ELECTRICAL WIRING DATA SHEET	VP-99-0254-ON-MAN-1A-3-101-0056
ELECTRICAL WIRING DATA SHEET	VP-99-0255-ON-MAN-1A-3-101-0057
ELECTRICAL WIRING DATA SHEET	VP-99-0256-ON-MAN-1A-3-101-0058
ELECTRICAL WIRING DATA SHEET	VP-99-0257-ON-MAN-1A-3-101-0059
ELECTRICAL WIRING DATA SHEET	VP-99-0258-ON-MAN-1A-3-101-0060
ELECTRICAL WIRING DATA SHEET	VP-99-0259-ON-MAN-1A-3-101-0061
ELECTRICAL WIRING DATA SHEET	VP-99-0260-ON-MAN-1A-3-101-0062
ELECTRICAL WIRING DATA SHEET	VP-99-0261-ON-MAN-1A-3-101-0063
ELECTRICAL WIRING DATA SHEET	VP-99-0262-ON-MAN-1A-3-101-0064
ELECTRICAL WIRING DATA SHEET	VP-99-0263-ON-MAN-1A-3-101-0065
ELECTRICAL WIRING DATA SHEET	VP-99-0264-ON-MAN-1A-3-101-0066
ELECTRICAL WIRING DATA SHEET	VP-99-0265-ON-MAN-1A-3-101-0067
ELECTRICAL WIRING DATA SHEET	VP-99-0266-ON-MAN-1A-3-101-0068
ELECTRICAL WIRING DATA SHEET	VP-99-0267-ON-MAN-1A-3-101-0069
ELECTRICAL WIRING DATA SHEET	VP-99-0268-ON-MAN-1A-3-101-0070
ELECTRICAL WIRING DATA SHEET	VP-99-0269-ON-MAN-1A-3-101-0071
ELECTRICAL WIRING DATA SHEET	VP-99-0270-ON-MAN-1A-3-101-0072
ELECTRICAL WIRING DATA SHEET	VP-99-0271-ON-MAN-1A-3-101-0073
ELECTRICAL WIRING DATA SHEET	VP-99-0272-ON-MAN-1A-3-101-0074
ELECTRICAL WIRING DATA SHEET	VP-99-0273-ON-MAN-1A-3-101-0075
ELECTRICAL WIRING DATA SHEET	VP-99-0274-ON-MAN-1A-3-101-0076
ELECTRICAL WIRING DATA SHEET	VP-99-0275-ON-MAN-1A-3-101-0077
ELECTRICAL WIRING DATA SHEET	VP-99-0276-ON-MAN-1A-3-101-0078
ELECTRICAL WIRING DATA SHEET	VP-99-0277-ON-MAN-1A-3-101-0079
ELECTRICAL WIRING DATA SHEET	VP-99-0278-ON-MAN-1A-3-101-0080
ELECTRICAL WIRING DATA SHEET	VP-99-0279-ON-MAN-1A-3-101-0081
ELECTRICAL WIRING DATA SHEET	VP-99-0280-ON-MAN-1A-3-101-0082
ELECTRICAL WIRING DATA SHEET	VP-99-0281-ON-MAN-1A-3-101-0083
ELECTRICAL WIRING DATA SHEET	VP-99-0282-ON-MAN-1A-3-101-0084
ELECTRICAL WIRING DATA SHEET	VP-99-0283-ON-MAN-1A-3-101-0085
ELECTRICAL WIRING DATA SHEET	VP-99-0284-ON-MAN-1A-3-101-0086
ELECTRICAL WIRING DATA SHEET	VP-99-0285-ON-MAN-1A-3-101-0087
ELECTRICAL WIRING DATA SHEET	VP-99-0286-ON-MAN-1A-3-101-0088
ELECTRICAL WIRING DATA SHEET	VP-99-0287-ON-MAN-1A-3-101-0089
ELECTRICAL WIRING DATA SHEET	VP-99-0288-ON-MAN-1A-3-101-0090
ELECTRICAL WIRING DATA SHEET	VP-99-0289-ON-MAN-1A-3-101-0091
ELECTRICAL WIRING DATA SHEET	VP-99-0290-ON-MAN-1A-3-101-0092
ELECTRICAL WIRING DATA SHEET	VP-99-0291-ON-MAN-1A-3-101-0093
ELECTRICAL WIRING DATA SHEET	VP-99-0292-ON-MAN-1A-3-101-0094
ELECTRICAL WIRING DATA SHEET	VP-99-0293-ON-MAN-1A-3-101-0095
ELECTRICAL WIRING DATA SHEET	VP-99-0294-ON-MAN-1A-3-101-0096
ELECTRICAL WIRING DATA SHEET	VP-99-0295-ON-MAN-1A-3-101-0097
ELECTRICAL WIRING DATA SHEET	VP-99-0296-ON-MAN-1A-3-101-0098
ELECTRICAL WIRING DATA SHEET	VP-99-0297-ON-MAN-1A-3-101-0099
ELECTRICAL WIRING DATA SHEET	VP-99-0298-ON-MAN-1A-3-101-0100
ELECTRICAL WIRING DATA SHEET	VP-99-0299-ON-MAN-1A-3-101-0101
ELECTRICAL WIRING DATA SHEET	VP-99-0300-ON-MAN-1A-3-101-0102
ELECTRICAL WIRING DATA SHEET	VP-99-0301-ON-MAN-1A-3-101-0103
ELECTRICAL WIRING DATA SHEET	VP-99-0302-ON-MAN-1A-3-101-0104
ELECTRICAL WIRING DATA SHEET	VP-99-0303-ON-MAN-1A-3-101-0105
ELECTRICAL WIRING DATA SHEET	VP-99-0304-ON-MAN-1A-3-101-0106
ELECTRICAL WIRING DATA SHEET	VP-99-0305-ON-MAN-1A-3-101-0107
ELECTRICAL WIRING DATA SHEET	VP-99-0306-ON-MAN-1A-3-101-0108
ELECTRICAL WIRING DATA SHEET	VP-99-0307-ON-MAN-1A-3-101-0109
ELECTRICAL WIRING DATA SHEET	VP-99-0308-ON-MAN-1A-3-101-0110
ELECTRICAL WIRING DATA SHEET	VP-99-0309-ON-MAN-1A-3-101-0111
ELECTRICAL WIRING DATA SHEET	VP-99-0310-ON-MAN-1A-3-101-0112
ELECTRICAL WIRING DATA SHEET	VP-99-0311-ON-MAN-1A-3-101-0113
ELECTRICAL WIRING DATA SHEET	VP-99-0312-ON-MAN-1A-3-101-0114
ELECTRICAL WIRING DATA SHEET	VP-99-0313-ON-MAN-1A-3-101-0115
ELECTRICAL WIRING DATA SHEET	VP-99-0314-ON-MAN-1A-3-101-0116
ELECTRICAL WIRING DATA SHEET	VP-99-0315-ON-MAN-1A-3-101-0117
ELECTRICAL WIRING DATA SHEET	VP-99-0316-ON-MAN-1A-3-101-0118
ELECTRICAL WIRING DATA SHEET	VP-99-0317-ON-MAN-1A-3-101-0119
ELECTRICAL WIRING DATA SHEET	VP-99-0318-ON-MAN-1A-3-101-0120
ELECTRICAL WIRING DATA SHEET	VP-99-0319-ON-MAN-1A-3-101-0121
ELECTRICAL WIRING DATA SHEET	VP-99-0320-ON-MAN-1A-3-101-0122
ELECTRICAL WIRING DATA SHEET	VP-99-0321-ON-MAN-1A-3-101-0123
ELECTRICAL WIRING DATA SHEET	VP-99-0322-ON-MAN-1A-3-101-0124
ELECTRICAL WIRING DATA SHEET	VP-99-0323-ON-MAN-1A-3-101-0125
ELECTRICAL WIRING DATA SHEET	VP-99-0324-ON-MAN-1A-3-101-0126
ELECTRICAL WIRING DATA SHEET	VP-99-0325-ON-MAN-1A-3-101-0127
ELECTRICAL WIRING DATA SHEET	VP-99-0326-ON-MAN-1A-3-101-0128
ELECTRICAL WIRING DATA SHEET	VP-99-0327-ON-MAN-1A-3-101-0129
ELECTRICAL WIRING DATA SHEET	VP-99-0328-ON-MAN-1A-3-101-0130
ELECTRICAL WIRING DATA SHEET	VP-99-0329-ON-MAN-1A-3-101-0131
ELECTRICAL WIRING DATA SHEET	VP-99-0330-ON-MAN-1A-3-101-0132
ELECTRICAL WIRING DATA SHEET	VP-99-0331-ON-MAN-1A-3-101-0133
ELECTRICAL WIRING DATA SHEET	VP-99-0332-ON-MAN-1A-3-101-0134
ELECTRICAL WIRING DATA SHEET	VP-99-0333-ON-MAN-1A-3-101-0135
ELECTRICAL WIRING DATA SHEET	VP-99-0334-ON-MAN-1A-3-101-0136
ELECTRICAL WIRING DATA SHEET	VP-99-0335-ON-MAN-1A-3-101-0137
ELECTRICAL WIRING DATA SHEET	VP-99-0336-ON-MAN-1A-3-101-0138
ELECTRICAL WIRING DATA SHEET	VP-99-0337-ON-MAN-1A-3-101-0139
ELECTRICAL WIRING DATA SHEET	VP-99-0338-ON-MAN-1A-3-101-0140
ELECTRICAL WIRING DATA SHEET	VP-99-0339-ON-MAN-1A-3-101-0141
ELECTRICAL WIRING DATA SHEET	VP-99-0340-ON-MAN-1A-3-101-0142
ELECTRICAL WIRING DATA SHEET	VP-99-0341-ON-MAN-1A-3-101-0143
ELECTRICAL WIRING DATA SHEET	VP-99-0342-ON-MAN-1A-3-101-0144
ELECTRICAL WIRING DATA SHEET	VP-99-0343-ON-MAN-1A-3-101-0145
ELECTRICAL WIRING DATA SHEET	VP-99-0344-ON-MAN-1A-3-101-0146
ELECTRICAL WIRING DATA SHEET	VP-99-0345-ON-MAN-1A-3-101-0147
ELECTRICAL WIRING DATA SHEET	VP-99-0346-ON-MAN-1A-3-101-0148
ELECTRICAL WIRING DATA SHEET	VP-99-0347-ON-MAN-1A-3-101-0149
ELECTRICAL WIRING DATA SHEET	VP-99-0348-ON-MAN-1A-3-101-0150
ELECTRICAL WIRING DATA SHEET	VP-99-0349-ON-MAN-1A-3-101-0151
ELECTRICAL WIRING DATA SHEET	VP-99-0350-ON-MAN-1A-3-101-0152
ELECTRICAL WIRING DATA SHEET	VP-99-0351-ON-MAN-1A-3-101-0153
ELECTRICAL WIRING DATA SHEET	VP-99-0352-ON-MAN-1A-3-101-0154
ELECTRICAL WIRING DATA SHEET	VP-99-0353-ON-MAN-1A-3-101-0155
ELECTRICAL WIRING DATA SHEET	VP-99-0354-ON-MAN-1A-3-101-0156
ELECTRICAL WIRING DATA SHEET	VP-99-0355-ON-MAN-1A-3-101-0157
ELECTRICAL WIRING DATA SHEET	VP-99-0356-ON-MAN-1A-3-101-0158
ELECTRICAL WIRING DATA SHEET	VP-99-0357-ON-MAN-1A-3-101-0159
ELECTRICAL WIRING DATA SHEET	VP-99-0358-ON-MAN-1A-3-101-0160
ELECTRICAL WIRING DATA SHEET	VP-99-0359-ON-MAN-1A-3-101-0161
ELECTRICAL WIRING DATA SHEET	VP-99-0360-ON-MAN-1A-3-101-0162
ELECTRICAL WIRING DATA SHEET	VP-99-0361-ON-MAN-1A-3-101-0163
ELECTRICAL WIRING DATA SHEET	VP-99-0362-ON-MAN-1A-3-101-0164
ELECTRICAL WIRING DATA SHEET	VP-99-0363-ON-MAN-1A-3-101-0165
ELECTRICAL WIRING DATA SHEET	VP-99-0364-ON-MAN-1A-3-101-0166
ELECTRICAL WIRING DATA SHEET	VP-99-0365-ON-MAN-1A-3-101-0167
ELECTRICAL WIRING DATA SHEET	VP-99-0366-ON-MAN-1A-3-101-0168
ELECTRICAL WIRING DATA SHEET	VP-99-0367-ON-MAN-1A-3-101-0169
ELECTRICAL WIRING DATA SHEET	VP-99-0368-ON-MAN-1A-3-101-0170
ELECTRICAL WIRING DATA SHEET	VP-99-0369-ON-MAN-1A-3-101-0171
ELECTRICAL WIRING DATA SHEET	VP-99-0370-ON-MAN-1A-3-101-0172
ELECTRICAL WIRING DATA SHEET	VP-99-0371-ON-MAN-1A-3-101-0173
ELECTRICAL WIRING DATA SHEET	VP-99-0372-ON-MAN-1A-3-101-0174
ELECTRICAL WIRING DATA SHEET	VP-99-0373-ON-MAN-1A-3-101-0175
ELECTRICAL WIRING DATA SHEET	VP-99-0374-ON-MAN-1A-3-101-0176
ELECTRICAL WIRING DATA SHEET	VP-99-0375-ON-MAN-1A-3-101-0177
ELECTRICAL WIRING DATA SHEET	VP-99-0376-ON-MAN-1A-3-101-0178
ELECTRICAL WIRING DATA SHEET	VP-99-0377-ON-MAN-1A-3-101-0179
ELECTRICAL WIRING DATA SHEET	VP-99-0378-ON-MAN-1A-3-101-0180
ELECTRICAL WIRING DATA SHEET	VP-99-0379-ON-MAN-1A-3-101-0181
ELECTRICAL WIRING DATA SHEET	VP-99-0380-ON-MAN-1A-3-101-0182
ELECTRICAL WIRING DATA SHEET	VP-99-0381-ON-MAN-1A-3-101-0183
ELECTRICAL WIRING DATA SHEET	VP-99-0382-ON-MAN-1A-3-101-0184
ELECTRICAL WIRING DATA SHEET	VP-99-0383-ON-MAN-1A-3-101-0185
ELECTRICAL WIRING DATA SHEET	VP-99-0384-ON-MAN-1A-3-101-0186
ELECTRICAL WIRING DATA SHEET	VP-99-0385-ON-MAN-1A-3-101-0187
ELECTRICAL WIRING DATA SHEET	VP-99-0386-ON-MAN-1A-3-101-0188
ELECTRICAL WIRING DATA SHEET	VP-99-0387-ON-MAN-1A-3-101-0189
ELECTRICAL WIRING DATA SHEET	VP-99-0388-ON-MAN-1A-3-101-0190
ELECTRICAL WIRING DATA SHEET	VP-99-0389-ON-MAN-1A-3-101-0191
ELECTRICAL WIRING DATA SHEET	VP-99-0390-ON-MAN-1A-3-101-0192
ELECTRICAL WIRING DATA SHEET	VP-99-0391-ON-MAN-1A-3-101-0193
ELECTRICAL WIRING DATA SHEET	VP-99-0392-ON-MAN-1A-3-101-0194
ELECTRICAL WIRING DATA SHEET	VP-99-0393-ON-MAN-1A-3-101-0195
ELECTRICAL WIRING DATA SHEET	VP-99-0394-ON-MAN-1A-3-101-0196
ELECTRICAL WIRING DATA SHEET	VP-99-0395-ON-MAN-1A-3-101-0197
ELECTRICAL WIRING DATA SHEET	VP-99-0396-ON-MAN-1A-3-101-0198
ELECTRICAL WIRING DATA SHEET	VP-99-0397-ON-MAN-1A-3-101-0199
ELECTRICAL WIRING DATA SHEET	VP-99-0398-ON-MAN-1A-3-101-0200
ELECTRICAL WIRING DATA SHEET	VP-99-0399-ON-MAN-1A-3-101-0201
ELECTRICAL WIRING DATA SHEET	VP-99-0400-ON-MAN-1A-3-101-0202
ELECTRICAL WIRING DATA SHEET	VP-99-0401-ON-MAN-1A-3-101-0203
ELECTRICAL WIRING DATA SHEET	VP-99-0402-ON-MAN-1A-3-101-0204
ELECTRICAL WIRING DATA SHEET	VP-99-0403-ON-MAN-1A-3-101-0205
ELECTRICAL WIRING DATA SHEET	VP-99-0404-ON-MAN-1A-3-101-0206
ELECTRICAL WIRING DATA SHEET	VP-99-0405-ON-MAN-1A-3-101-0207
ELECTRICAL WIRING DATA SHEET	VP-99-0406-ON-MAN-1A-3-101-0208
ELECTRICAL WIRING DATA SHEET	VP-99-0407-ON-MAN-1A-3-101-0209
ELECTRICAL WIRING DATA SHEET	VP-99-0408-ON-MAN-1A-3-101-0210
ELECTRICAL WIRING DATA SHEET	VP-99-0409-ON-MAN-1A-3-101-0211
ELECTRICAL WIRING DATA SHEET	VP-99-0410-ON-MAN-1A-3-101-0212
ELECTRICAL WIRING DATA SHEET	VP-99-0411-ON-MAN-1A-3-101-0213
ELECTRICAL WIRING DATA SHEET	VP-99-0412-ON-MAN-1A-3-101-0214
ELECTRICAL WIRING DATA SHEET	VP-99-0413-ON-MAN-1A-3-101-0215
ELECTRICAL WIRING DATA SHEET	VP-99-0414-ON-MAN-1A-3-101-0216
ELECTRICAL WIRING DATA SHEET	VP-99-0415-ON-MAN-1A-3-101-0217
ELECTRICAL WIRING DATA SHEET	VP-99-0416-ON-MAN-1A-3-101-0218
ELECTRICAL WIRING DATA SHEET	VP-99-0417-ON-MAN-1A-3-101-0219
ELECTRICAL WIRING DATA SHEET	VP-99-0418-ON-MAN-1A-3-101-0220
ELECTRICAL WIRING DATA SHEET	VP-99-0419-ON-MAN-1A-3-101-0221
ELECTRICAL WIRING DATA SHEET	VP-99-0420-ON-MAN-1A-3-101-0222
ELECTRICAL WIRING DATA SHEET	VP-99-0421-ON-MAN-1A-3-101-0223
ELECTRICAL WIRING DATA SHEET	VP-99-0422-ON-MAN-1A-3-101-0224
ELECTRICAL WIRING DATA SHEET	VP-99-0423-ON-MAN-1A-3-101-0225
ELECTRICAL WIRING DATA SHEET	VP-99-0424-ON-MAN-1A-3-101-0226
ELECTRICAL WIRING DATA SHEET	VP-99-0425-ON-MAN-1A-3-101-0227
ELECTRICAL WIRING DATA SHEET	VP-99-0426-ON-MAN-1A-3-101-0228
ELECTRICAL WIRING DATA SHEET	VP-99-0427-ON-MAN-1A-3-101-0229
ELECTRICAL WIRING DATA SHEET	VP-99-0428-ON-MAN-1A-3-101-0230
ELECTRICAL WIRING DATA SHEET	VP-99-0429-ON-MAN-1A-3-101-0231
ELECTRICAL WIRING DATA SHEET	VP-99-0430-ON-MAN-1A-3-101-0232
ELECTRICAL WIRING DATA SHEET	VP-99-0431-ON-MAN-1A-3-101-0233
ELECTRICAL WIRING DATA SHEET	VP-99-0432-ON-MAN-1A-3-101-0234
ELECTRICAL WIRING DATA SHEET	VP-99-0433-ON-MAN-1A-3-101-0235
ELECTRICAL WIRING DATA SHEET	VP-99-0434-ON-MAN-1A-3-101-0236
ELECTRICAL WIRING DATA SHEET	VP-99-0435-ON-MAN-1A-3-101-0237
ELECTRICAL WIRING DATA SHEET	VP-99-0436-ON-MAN-1A-3-101-0238
ELECTRICAL WIRING DATA SHEET	VP-99-0437-ON-MAN-1A-3-101-0239
ELECTRICAL WIRING DATA SHEET	VP-99-0438-ON-MAN-1A-3-101-0240
ELECTRICAL WIRING DATA SHEET	VP-99-0439-ON-MAN-1A-3-101-0241
ELECTRICAL WIRING DATA SHEET	VP-99-0440-ON-MAN-1A-3-101-0242
ELECTRICAL WIRING DATA SHEET	VP-99-0441-ON-MAN-1A-3-101-0243
ELECTRICAL WIRING DATA SHEET	VP-99-0442-ON-MAN-1A-3-101-0244
ELECTRICAL WIRING DATA SHEET	VP-99-0443-ON-MAN-1A-3-101-0245
ELECTRICAL WIRING DATA SHEET	VP-99-0444-ON-MAN-1A-3-101-0246
ELECTRICAL WIRING DATA SHEET	VP-99-0445-ON-MAN-1A-3-101-0247
ELECTRICAL WIRING DATA SHEET	VP-99-0446-ON-MAN-1A-3-101-0248
ELECTRICAL WIRING DATA SHEET	VP-99-0447-ON-MAN-1A-3-101-0249
ELECTRICAL WIRING DATA SHEET	VP-99-0448-ON-MAN-1A-3-101-0250
ELECTRICAL WIRING DATA SHEET	VP-99-0449-ON-MAN