	APPLICABLE TO:	DESIGN	_	PURCHASE O AS BUI	I T	Rev.
2	0 1 10 00 12	UNIT	O	FIRE WATER		-1.011
3		NO. REQUIRED	1	THE WATER		
4	SERVICE Fire water	PUMP SIZE, TYPE		DE STAGES Horizon	ntal (BY VENDOR)	-
5	VENDOR	MODEL By ven		N STAGES HOUSE	SERIAL NO. By vendor	
_	Note: O Represents data to be completed by CONTRACTOR			OR if not by CONTRACTOR	SERIAL NO. By Vendor	+
7	Note: O Represents data to be completed by CONTRACTOR		ERAL	or in not by CONTRACTOR		
ρ	PUMPS TO OPERATE IN (PARALLEL) YES	OLIV	LIVAL			
_	NO. MOTOR DRIVEN 1					
_	PUMP TAG NO. P-201					
_	MOTOR TAG NO. M-201					-
_	MOTOR TAG NO. WI-201 MOTOR PROVIDED BY BY VENDOR					-
_	MOTOR MOUNTED BY BY VENDOR					
	APPLICABLE OVERLAY STANDARD NFPA 20, IPS, API 610					-
	OPERATING CONDITIONS			LIQUID		
15			3/1		Daw Mater	
16		341 Note 1	m³/hr	TYPE OR NAME OF LIQUID	Raw Water	-
17	4		_	_	AMMABLE OTHER	_
18	1 ~	1.40 / -0.10	Barg	PUMPING TEMPERATURE (PT)	NORMAL °C	-
19	• • • • • • • • • • • • • • • • • • • •	10.00 / 8.50	Barg	MAXIMUM 47 (Note 2) °C	MINIMUM 13 °C	
20	DIFFERENTIAL PRESSURE	8.60	Bar	SPECIFIC GRAVITY	1 @ PT	
21	DIFFERENTIAL HEAD	87.8	m	MAXIMUM SPECIFIC GRAVITY	1 @ °C	_
22	● NPSHA	10.2	m	SPECIFIC HEAT	4.18 (KJ/KG.°C)	
23	HYDRAULIC POWER	81.461	KW	VAPOUR PRESSURE @ PUMPING TEI		
24	SERVICE: O CONTINUOUS • INTERMITTENT			VISCOSITY	0.60 cP @ 50	
25	PROCESS VARIATION			○ MAX VISCOSITY @ MIN TEMP	cP @ COLD START	
26	1			○ CORROSIVE/EROSIVE AGENT		
27	PARALLEL OPERATION CONDITION REQ'D			CHLORIDE CONCENTRATION		
28	SITE AND UTILITY DATA			O H2S CONCENTRATION		
_	LOCATION			CONVENTION	ONS	
				NPSH REFERENCE DATUM		
30	<u> </u>	O PARTIAL SIDES				
31	● UNHEATED ○ HEATED ○ GRADE	O MEZZANINE		O PUMP CENTRELINE O UN	NDERSIDE OF BASEPLATE	
31 32	● UNHEATED ○ HEATED ○ GRADE ○ ELECTRICAL AREA CLASSIFICATION	○ MEZZANINE		O PUMP CENTRELINE O UN SUCTION NOZZLE CENTRELINE	○ OTHER	
31 32 33	● UNHEATED ○ HEATED ○ GRADE ○ ELECTRICAL AREA CLASSIFICATION TEMP CLASS GAS GROUP ZONE	MEZZANINE SAFE AREA		O PUMP CENTRELINE O UN O SUCTION NOZZLE CENTRELINE O ESTIMATED PO	○ OTHER	
31 32 33 34	● UNHEATED ○ HEATED ○ GRADE ○ ELECTRICAL AREA CLASSIFICATION TEMP CLASS GAS GROUP ZONE ○ WINTERISATION REQ'D ● TROPICALISATION	MEZZANINE SAFE AREA		O PUMP CENTRELINE O UN O SUCTION NOZZLE CENTRELINE ESTIMATED PUMP EFFICIENCY	OTHER WER	
31 32 33 34 35	● UNHEATED ○ HEATED ○ GRADE ○ ELECTRICAL AREA CLASSIFICATION TEMP CLASS GAS GROUP ZONE ○ WINTERISATION REQ'D ● TROPICALISATION SITE DATA:	MEZZANINE SAFE AREA DN REQ'D		O PUMP CENTRELINE O SUCTION NOZZLE CENTRELINE O ESTIMATED PO ESTIMATED PUMP EFFICIENCY ESTIMATED RATED PUMP ABSORBED PO	O OTHER WER WER KW	
31 32 33 34 35 36	● UNHEATED ○ HEATED ○ GRADE ○ ELECTRICAL AREA CLASSIFICATION TEMP CLASS GAS GROUP ZONE ○ WINTERISATION REQ'D ● TROPICALISATION SITE DATA: ● ELEVATION M ● BAROMETER, BE	MEZZANINE SAFE AREA DN REQ'D	1.028	O PUMP CENTRELINE O UN O SUCTION NOZZLE CENTRELINE O ESTIMATED PO ESTIMATED PUMP EFFICIENCY ESTIMATED RATED PUMP ABSORBED PO ESTIMATED PUMP ABSORBED POWER AT	O OTHER WER WER KW	
31 32 33 34 35 36 37	● UNHEATED ○ HEATED ○ GRADE ○ ELECTRICAL AREA CLASSIFICATION TEMP CLASS GAS GROUP ZONE ○ WINTERISATION REQ'D ● TROPICALISATION SITE DATA: ● ELEVATION M ● BAROMETER, BE ● RANGE OF AMBIENT TEMPS: MIN/MAX 13.2/4	MEZZANINE SAFE AREA DN REQ'D ara 6.2 °C	1.028	O PUMP CENTRELINE O UN O SUCTION NOZZLE CENTRELINE O ESTIMATED PO ESTIMATED PUMP EFFICIENCY ESTIMATED RATED PUMP ABSORBED PO ESTIMATED PUMP ABSORBED POWER AT DRIVER RATING FACTOR PER API 610	O OTHER WER WER MAX. SG KW	
31 32 33 34 35 36 37 38	● UNHEATED ○ HEATED ○ GRADE ○ ELECTRICAL AREA CLASSIFICATION TEMP CLASS GAS GROUP ZONE ○ WINTERISATION REQ'D ● TROPICALISATION SITE DATA: ● ELEVATION M ● BAROMETER, BB ● RANGE OF AMBIENT TEMPS: MIN/MAX 13.2/4 ● RELATIVE HUMIDITY: MAX/MIN 87 / 48	MEZZANINE SAFE AREA DN REQ'D	1.028	O PUMP CENTRELINE O UN O SUCTION NOZZLE CENTRELINE O ESTIMATED PO ESTIMATED PUMP EFFICIENCY ESTIMATED RATED PUMP ABSORBED PO ESTIMATED PUMP ABSORBED POWER AT DRIVER RATING FACTOR PER API 610 ESTIMATED DRIVER RATING	O OTHER WER WER MAX. SG KW	
31 32 33 34 35 36 37 38 39	● UNHEATED ○ HEATED ○ GRADE ○ ELECTRICAL AREA CLASSIFICATION TEMP CLASS GAS GROUP ZONE ○ WINTERISATION REQ'D ● TROPICALISATION SITE DATA: ● ELEVATION M ● BAROMETER, BOOK BAR	MEZZANINE SAFE AREA DN REQ'D ara 16.2 °C	1.028	O PUMP CENTRELINE O UN O SUCTION NOZZLE CENTRELINE O ESTIMATED PO ESTIMATED PUMP EFFICIENCY ESTIMATED RATED PUMP ABSORBED PO ESTIMATED PUMP ABSORBED POWER AT DRIVER RATING FACTOR PER API 610 ESTIMATED DRIVER RATING RATED PERFOR	O OTHER WER WER MAX. SG KW	
31 32 33 34 35 36 37 38 39 40	● UNHEATED ○ HEATED ○ GRADE ○ ELECTRICAL AREA CLASSIFICATION TEMP CLASS GAS GROUP ZONE ○ WINTERISATION REQ'D ● TROPICALISATION SITE DATA: ● ELEVATION M ● BAROMETER, BOOK OF AMBIENT TEMPS: MIN/MAX 13.2/4 ● RELATIVE HUMIDITY: MAX/MIN 87 / 48 UNUSUAL CONDITIONS ● DUST ○ FUMES ○ OTHER	MEZZANINE SAFE AREA DN REQ'D ara 6.2 °C	1.028	PUMP CENTRELINE UND SUCTION NOZZLE CENTRELINE BESTIMATED PUMP EFFICIENCY ESTIMATED PUMP ABSORBED PO ESTIMATED PUMP ABSORBED POWER AT DRIVER RATING FACTOR PER API 610 ESTIMATED DRIVER RATING RATED PERFORM	O OTHER WER WER MAX. SG KW	
31 32 33 34 35 36 37 38 39 40 41	● UNHEATED ○ HEATED ○ GRADE ○ ELECTRICAL AREA CLASSIFICATION TEMP CLASS GAS GROUP ZONE ○ WINTERISATION REQ'D ● TROPICALISATION SITE DATA: ● ELEVATION M ● BAROMETER, BOOK BAR	SAFE AREA DN REQ'D ara 16.2 °C % SEA BREEZE	1.028	PUMP CENTRELINE UND SUCTION NOZZLE CENTRELINE BESTIMATED PUMP EFFICIENCY ESTIMATED PUMP ABSORBED PO ESTIMATED PUMP ABSORBED POWER AT DRIVER RATING FACTOR PER API 610 ESTIMATED DRIVER RATING RATED PERFORM PROPOSAL CURVE NO	O OTHER WER WER MAX. SG KW KW RMANCE	
31 32 33 34 35 36 37 38 39 40 41 42	● UNHEATED ○ HEATED ○ GRADE ○ ELECTRICAL AREA CLASSIFICATION TEMP CLASS GAS GROUP ZONE ○ WINTERISATION REQ'D ● TROPICALISATION SITE DATA: ● ELEVATION M ● BAROMETER, BOOK BAR	MEZZANINE SAFE AREA DN REQ'D ara 16.2 °C		PUMP CENTRELINE UND SUCTION NOZZLE CENTRELINE BESTIMATED PUMP EFFICIENCY ESTIMATED PUMP ABSORBED PO ESTIMATED PUMP ABSORBED POWER AT DRIVER RATING FACTOR PER API 610 ESTIMATED DRIVER RATING RATED PERFORM PROPOSAL CURVE NO MPELLER Dia mm:	O OTHER WER WER MAX. SG KW RMANCE	
31 32 33 34 35 36 37 38 39 40 41 42 43	● UNHEATED ○ HEATED ○ GRADE ○ ELECTRICAL AREA CLASSIFICATION TEMP CLASS GAS GROUP ZONE ○ WINTERISATION REQ'D ● TROPICALISATION SITE DATA: ● ELEVATION M ● BAROMETER, BOOK BAR	SAFE AREA ON REQ'D ara 16.2 °C % SEA BREEZE (Max./ r Min.)	°C	PUMP CENTRELINE UND SUCTION NOZZLE CENTRELINE BESTIMATED PUMP EFFICIENCY ESTIMATED PUMP ABSORBED PO ESTIMATED PUMP ABSORBED POWER AT DRIVER RATING FACTOR PER API 610 ESTIMATED DRIVER RATING RATED PERFORM PROPOSAL CURVE NO MPELLER Dia mm: MAX.	O OTHER WER WER MAX. SG KW KW RMANCE RATED MIN.	
31 32 33 34 35 36 37 38 39 40 41 42 43 44	● UNHEATED ○ HEATED ○ GRADE ○ ELECTRICAL AREA CLASSIFICATION TEMP CLASS GAS GROUP ZONE ○ WINTERISATION REQ'D ● TROPICALISATION SITE DATA: ● ELEVATION M ● BAROMETER, BOOK BAR	SAFE AREA DN REQ'D ara 16.2 °C % SEA BREEZE	°C	PUMP CENTRELINE UND SUCTION NOZZLE CENTRELINE BESTIMATED PUMP EFFICIENCY ESTIMATED PUMP ABSORBED PO ESTIMATED PUMP ABSORBED POWER AT DRIVER RATING FACTOR PER API 610 ESTIMATED DRIVER RATING RATED PERFORM PROPOSAL CURVE NO MPELLER Dia mm: MAX. Power(rated/max):	O OTHER WER WER KW MAX. SG KW KW RMANCE	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	● UNHEATED ○ HEATED ○ GRADE ○ ELECTRICAL AREA CLASSIFICATION TEMP CLASS GAS GROUP ZONE ○ WINTERISATION REQ'D ● TROPICALISATION SITE DATA: ● ELEVATION M ● BAROMETER, B: ● RANGE OF AMBIENT TEMPS: MIN/MAX 13.2/4 ● RELATIVE HUMIDITY: MAX/MIN 87 / 48 UNUSUAL CONDITIONS ● DUST ○ FUMES ○ OTHER UTILITIES STEAM: Press. (Max/./ Min.) Temp. ELECTRICITY DRIVERS HEATING CONTROL MAIN AUX	SAFE AREA ON REQ'D ara 16.2 °C % SEA BREEZE (Max./ r Min.)	°C	PUMP CENTRELINE UND SUCTION NOZZLE CENTRELINE BESTIMATED PUMP EFFICIENCY ESTIMATED PUMP ABSORBED PO ESTIMATED PUMP ABSORBED POWER AT DRIVER RATING FACTOR PER API 610 ESTIMATED DRIVER RATING RATED PERFORM PROPOSAL CURVE NO MPELLER Dia mm: MAX. Power(rated/max): MINIMUM CONTINUOUS FLOW	O OTHER WER WER MAX. SG KW KW RMANCE RATED MIN. EFFICIENCY %	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	● UNHEATED ○ HEATED ○ GRADE ○ ELECTRICAL AREA CLASSIFICATION TEMP CLASS GAS GROUP ZONE ○ WINTERISATION REQ'D ● TROPICALISATIOSITE DATA: ● ELEVATION M ● BAROMETER, B: ● RANGE OF AMBIENT TEMPS: MIN/MAX 13.2/4 ● RELATIVE HUMIDITY: MAX/MIN 87 / 48 UNUSUAL CONDITIONS ● DUST ○ FUMES ○ OTHER UTILITIES STEAM: Press. (Max/./ Min.) Temp. ELECTRICITY DRIVERS HEATING CONTROL MAIN AUX VOLTAGE	SAFE AREA ON REQ'D ara 16.2 °C % SEA BREEZE (Max./ r Min.)	°C	PUMP CENTRELINE UND SUCTION NOZZLE CENTRELINE ■ ESTIMATED PUMP EFFICIENCY ESTIMATED PUMP ABSORBED POUNT AT THE PROPOSAL CURVE NO ■ MPELLER DIA mm: MAX. ■ POWER (rated/max): MINIMUM CONTINUOUS FLOW THERMAL O ESTIMATED DRIVER RATING RATED PERFORM MAX. MINIMUM CONTINUOUS FLOW THERMAL	O OTHER WER WER MAX. SG KW KW RMANCE RATED MIN.	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	● UNHEATED ○ HEATED ○ GRADE ○ ELECTRICAL AREA CLASSIFICATION TEMP CLASS GAS GROUP ZONE ○ WINTERISATION REQ'D ● TROPICALISATION SITE DATA: ● ELEVATION M ● BAROMETER, B: ● RANGE OF AMBIENT TEMPS: MIN/MAX 13.2/4 ● RELATIVE HUMIDITY: MAX/MIN 87 / 48 UNUSUAL CONDITIONS ● DUST ○ FUMES ○ OTHER UTILITIES STEAM: Press. (Max/./ Min.) Temp. ELECTRICITY DRIVERS HEATING CONTROL MAIN AUX VOLTAGE HERTZ	SAFE AREA ON REQ'D ara 16.2 °C % SEA BREEZE (Max./ r Min.)	°C	PUMP CENTRELINE UND SUCTION NOZZLE CENTRELINE BESTIMATED PUMP EFFICIENCY ESTIMATED PUMP ABSORBED PO ESTIMATED PUMP ABSORBED POWER AT DRIVER RATING FACTOR PER API 610 ESTIMATED DRIVER RATING RATED PERFORM TOPM PROPOSAL CURVE NO MAX. POWER (rated/max): MINIMUM CONTINUOUS FLOW THERMAL MAX HEAD RATED IMPELLER	O OTHER WER WER KW MAX. SG KW KW RMANCE RATED MIN. EFFICIENCY STABLE Mª/H m	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	● UNHEATED ○ HEATED ○ GRADE ○ ELECTRICAL AREA CLASSIFICATION TEMP CLASS GAS GROUP ZONE ○ WINTERISATION REQ'D ● TROPICALISATION SITE DATA: ● ELEVATION M ● BAROMETER, B: ● RANGE OF AMBIENT TEMPS: MIN/MAX 13.2/4 ● RELATIVE HUMIDITY: MAX/MIN 87 / 48 UNUSUAL CONDITIONS ● DUST ○ FUMES ○ OTHER UTILITIES STEAM: Press. (Max/./ Min.) Temp. ELECTRICITY DRIVERS HEATING CONTROL MAIN AUX VOLTAGE HERTZ PHASE	SAFE AREA ON REQ'D ara 16.2 °C % SEA BREEZE (Max./ r Min.)	°C	PUMP CENTRELINE UND SUCTION NOZZLE CENTRELINE BESTIMATED PUMP EFFICIENCY ESTIMATED PUMP ABSORBED PO ESTIMATED PUMP ABSORBED POWER AT DRIVER RATING FACTOR PER API 610 ESTIMATED DRIVER RATING RATED PERFORM TOPM PROPOSAL CURVE NO MAX. POWER (rated/max): MINIMUM CONTINUOUS FLOW THERMAL MAX HEAD RATED IMPELLER MAX POWER RATED IMPELLER	O OTHER WER WER MAX. SG KW KW RMANCE RATED MIN. EFFICIENCY STABLE M'H M KW	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	● UNHEATED ○ HEATED ○ GRADE ○ ELECTRICAL AREA CLASSIFICATION TEMP CLASS GAS GROUP ZONE ○ WINTERISATION REQ'D ● TROPICALISATION SITE DATA: ● ELEVATION M ● BAROMETER, BOOK OF AMBIENT TEMPS: MIN/MAX 13.2/4 ● RELATIVE HUMIDITY: MAX/MIN 87 / 48 UNUSUAL CONDITIONS ● DUST ○ FUMES ○ OTHER UTILITIES STEAM: Press. (Max/./ Min.) Temp. ELECTRICITY DRIVERS HEATING CONTROL MAIN AUX VOLTAGE HERTZ PHASE COOLING WATER	SAFE AREA ON REQ'D ara 16.2 °C % SEA BREEZE (Max./ r Min.)	*c 	PUMP CENTRELINE SUCTION NOZZLE CENTRELINE ESTIMATED PUMP EFFICIENCY ESTIMATED PUMP ABSORBED PO ESTIMATED PUMP ABSORBED POWER AT DRIVER RATING FACTOR PER API 610 ESTIMATED DRIVER RATING RATED PERFORM TOPM PROPOSAL CURVE NO MAX. POWER (rated/max): MINIMUM CONTINUOUS FLOW THERMAL MAX HEAD RATED IMPELLER MAX POWER RATED IMPELLER NPSH REQUIRED AT RATED CAPACIT	COTHER WER WER MAX. SG KW KW RMANCE RATED MIN. EFFICIENCY STABLE M'H M KW Y M KW	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	● UNHEATED ○ HEATED ○ GRADE ○ ELECTRICAL AREA CLASSIFICATION TEMP CLASS GAS GROUP ZONE ○ WINTERISATION REQ'D ● TROPICALISATION SITE DATA: ● ELEVATION M ● BAROMETER, BOOK OF AMBIENT TEMPS: MIN/MAX 13.2/4 ● RELATIVE HUMIDITY: MAX/MIN 87 / 48 UNUSUAL CONDITIONS ● DUST ○ FUMES ○ OTHER UTILITIES STEAM: Press. (Max/./ Min.) Temp. ELECTRICITY DRIVERS HEATING CONTROL MAIN AUX VOLTAGE HERTZ PHASE COOLING WATER TEMP INLET C MAX RETURN	SAFE AREA ON REQ'D ara 16.2 °C % SEA BREEZE (Max./ r Min.)	°C	PUMP CENTRELINE SUCTION NOZZLE CENTRELINE ESTIMATED PUMP EFFICIENCY ESTIMATED PUMP ABSORBED PO ESTIMATED PUMP ABSORBED POWER AT DRIVER RATING FACTOR PER API 610 ESTIMATED DRIVER RATING RATED PERFORM TOPM PROPOSAL CURVE NO MAX. POWER (rated/max): MINIMUM CONTINUOUS FLOW THERMAL MAX HEAD RATED IMPELLER MAX POWER RATED IMPELLER NPSH REQUIRED AT RATED CAPACIT SUCTION SPECIFIC SPEED	O OTHER WER WER MAX. SG KW KW RMANCE RATED MIN. EFFICIENCY STABLE M'H M KW	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	● UNHEATED ○ HEATED ○ GRADE ○ ELECTRICAL AREA CLASSIFICATION TEMP CLASS GAS GROUP ZONE ○ WINTERISATION REQ'D ● TROPICALISATION SITE DATA: ● ELEVATION M ● BAROMETER, BOOK OF AMBIENT TEMPS: MIN/MAX 13.2/4 ● RELATIVE HUMIDITY: MAX/MIN 87 / 48 UNUSUAL CONDITIONS ● DUST ○ FUMES ○ OTHER UTILITIES STEAM: Press. (Max/./ Min.) Temp. ELECTRICITY DRIVERS HEATING CONTROL MAIN AUX VOLTAGE HERTZ PHASE COOLING WATER TEMP INLET 'C MAX RETURN PRESS NORMAL Barg DESIGN	SAFE AREA ON REQ'D ara 16.2 °C % SEA BREEZE (Max./ r Min.)	*c 	PUMP CENTRELINE SUCTION NOZZLE CENTRELINE ESTIMATED PUMP EFFICIENCY ESTIMATED PUMP ABSORBED PO ESTIMATED PUMP ABSORBED POWER AT DRIVER RATING FACTOR PER API 610 ESTIMATED DRIVER RATING RATED PERFORM TOPM PROPOSAL CURVE NO MAX. POWER (rated/max): MINIMUM CONTINUOUS FLOW THERMAL MAX HEAD RATED IMPELLER MAX POWER RATED IMPELLER NPSH REQUIRED AT RATED CAPACIT	COTHER WER WER MAX. SG KW KW RMANCE RATED MIN. EFFICIENCY STABLE M'H M KW Y M KW	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	● UNHEATED ○ HEATED ○ GRADE ○ ELECTRICAL AREA CLASSIFICATION TEMP CLASS GAS GROUP ZONE ○ WINTERISATION REQ'D ● TROPICALISATION SITE DATA: ● ELEVATION M ● BAROMETER, BOOK OF AMBIENT TEMPS: MIN/MAX 13.2/4 ● RELATIVE HUMIDITY: MAX/MIN 87 / 48 UNUSUAL CONDITIONS ● DUST ○ FUMES ○ OTHER UTILITIES STEAM: Press. (Max/./ Min.) Temp. ELECTRICITY DRIVERS HEATING CONTROL MAIN AUX VOLTAGE HERTZ PHASE COOLING WATER TEMP INLET C MAX RETURN	SAFE AREA ON REQ'D ara 16.2 °C % SEA BREEZE (Max./ r Min.)	°C	PUMP CENTRELINE SUCTION NOZZLE CENTRELINE ESTIMATED PUMP EFFICIENCY ESTIMATED PUMP ABSORBED PO ESTIMATED PUMP ABSORBED POWER AT DRIVER RATING FACTOR PER API 610 ESTIMATED DRIVER RATING RATED PERFORM TOPM PROPOSAL CURVE NO MAX. POWER (rated/max): MINIMUM CONTINUOUS FLOW THERMAL MAX HEAD RATED IMPELLER MAX POWER RATED IMPELLER NPSH REQUIRED AT RATED CAPACIT SUCTION SPECIFIC SPEED	COTHER WER WER MAX. SG KW KW RMANCE RATED MIN. EFFICIENCY STABLE MY MKW Y M (rpm,m³/H,m)	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	● UNHEATED ○ HEATED ○ GRADE ○ ELECTRICAL AREA CLASSIFICATION TEMP CLASS GAS GROUP ZONE ○ WINTERISATION REQ'D ● TROPICALISATION SITE DATA: ● ELEVATION M ● BAROMETER, BOOK OF AMBIENT TEMPS: MIN/MAX 13.2/4 ● RELATIVE HUMIDITY: MAX/MIN 87 / 48 UNUSUAL CONDITIONS ● DUST ○ FUMES ○ OTHER UTILITIES STEAM: Press. (Max/./ Min.) Temp. ELECTRICITY DRIVERS HEATING CONTROL MAIN AUX VOLTAGE HERTZ PHASE COOLING WATER TEMP INLET 'C MAX RETURN PRESS NORMAL Barg DESIGN	SAFE AREA ON REQ'D ara 16.2 °C % SEA BREEZE (Max./ r Min.)	°C Barg	PUMP CENTRELINE SUCTION NOZZLE CENTRELINE ESTIMATED PUMP EFFICIENCY ESTIMATED PUMP ABSORBED PO ESTIMATED PUMP ABSORBED POWER AT DRIVER RATING FACTOR PER API 610 ESTIMATED DRIVER RATING RATED PERFORM TOPM PROPOSAL CURVE NO MAX. POWER (rated/max): MINIMUM CONTINUOUS FLOW THERMAL MAX HEAD RATED IMPELLER MAX POWER RATED IMPELLER NPSH REQUIRED AT RATED CAPACIT SUCTION SPECIFIC SPEED	COTHER WER WER MAX. SG KW KW RMANCE RATED MIN. EFFICIENCY STABLE MY MKW Y M (rpm,m³/H,m)	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 50 51 52 53 54	● UNHEATED ○ HEATED ○ GRADE ○ ELECTRICAL AREA CLASSIFICATION TEMP CLASS GAS GROUP ZONE ○ WINTERISATION REQ'D ● TROPICALISATION SITE DATA: ● ELEVATION M ● BAROMETER, BOOK OF AMBIENT TEMPS: MIN/MAX 13.2/4 ● RELATIVE HUMIDITY: MAX/MIN 87 / 48 UNUSUAL CONDITIONS ● DUST ○ FUMES ○ OTHER UTILITIES STEAM: Press. (Max/./ Min.) Temp. ELECTRICITY DRIVERS HEATING CONTROL MAIN AUX VOLTAGE HERTZ PHASE COOLING WATER TEMP INLET C MAX RETURN PRESS NORMAL BARG DESIGN MIN RETURN BARG MAX ALLOW DP	SAFE AREA ON REQ'D ara 16.2 °C % SEA BREEZE (Max./ r Min.)	°C Barg	PUMP CENTRELINE SUCTION NOZZLE CENTRELINE ESTIMATED PUMP EFFICIENCY ESTIMATED PUMP ABSORBED PO ESTIMATED PUMP ABSORBED POWER AT DRIVER RATING FACTOR PER API 610 ESTIMATED DRIVER RATING RATED PERFORM TOPM PROPOSAL CURVE NO MAX. POWER (rated/max): MINIMUM CONTINUOUS FLOW THERMAL MAX HEAD RATED IMPELLER MAX POWER RATED IMPELLER NPSH REQUIRED AT RATED CAPACIT SUCTION SPECIFIC SPEED	COTHER WER WER MAX. SG KW KW RMANCE RATED MIN. EFFICIENCY STABLE MY MKW Y M (rpm,m³/H,m)	

1		NOTES	Rev.
2	Note 1 :	Pump shall provide 150% of rated capacity at not less than 65% of total rated head	
3	Note 2:	Pump design temperature 85 ∘C	
4	Note 3:	Max. allowable pressure at shut off shall be 16 bar	
5	Note 4:	Pumps shall comply with NFPA 20 and API 610 requirements.	
6			
η Ω			
a			
10			
11			
12			
16			
17			
18			
19			
20			
21			
22			-
24	Note 4:		\vdash
25			
26			
27			
28			
29			
30			
31			
32			
33			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59			\vdash
45			-
40			\vdash
48			
49			
50			
51			
52			
53			
54			
55			
56			$\vdash\vdash\vdash$
5/ 58			$\vdash\vdash\vdash$
59			\vdash
-50			