

1	APPLICABLE TO:	<input type="radio"/> PROPOSAL	<input checked="" type="radio"/> DESIGN	<input type="radio"/> PURCHASE	<input type="radio"/> AS BUILT	Rev.
2			UNIT	FIRE WATER		
3			NO. REQUIRED	2 OF MAIN DIESEL FIRE WATER PUMPS		
4	SERVICE	Fire water	PUMP SIZE, TYPE & NO. OF STAGES	Horizontal (BY VENDOR)		
5	VENDOR		MODEL	By vendor	SERIAL NO.	By vendor
6	Note: <input type="radio"/> Represents data to be completed by CONTRACTOR <input type="checkbox"/> by VENDOR <input type="checkbox"/> by VENDOR if not by CONTRACTOR					
7	GENERAL					
8	PUMPS TO OPERATE IN (PARALLEL) YES					
9	NO. MOTOR DRIVEN -					
10	PUMP ITEM NO.	P-202 A/B				
11	MOTOR ITEM NO.	M-202 A/B				
12	MOTOR PROVIDED BY	BY VENDOR				
13	MOTOR MOUNTED BY	BY VENDOR				
14	APPLICABLE OVERLAY STANDARD NFPA 20, IPS, API 610					
15	OPERATING CONDITIONS			LIQUID		
16	● CAPACITY:	(Rated)	341	Note 1	m ³ /hr	● TYPE OR NAME OF LIQUID Raw Water
17						LIQUIDS <input type="radio"/> TOXIC <input type="radio"/> FLAMMABLE <input type="radio"/> OTHER
18	● SUCTION PRESSURE	(MAX / RATED)	1.40 /	-0.10	Barg	● PUMPING TEMPERATURE (PT) NORMAL °C
19	● DISCHARGE PRESSURE @ RATED FLOW		10.00 /	8.50	Barg	MAXIMUM 47 (4) °C MINIMUM 13 °C
20	● DIFFERENTIAL PRESSURE		8.60		Bar	● SPECIFIC GRAVITY 1 @ PT
21	● DIFFERENTIAL HEAD		87.8		m	<input type="radio"/> MAXIMUM SPECIFIC GRAVITY 1 @ °C
22	● NPSHA		10.2		m	● SPECIFIC HEAT 4.18 (KJ/KG.°C)
23	● HYDRAULIC POWER		81.5		KW	● VAPOUR PRESSURE @ PUMPING TEMP 0.1 Bara
24	SERVICE:	<input type="radio"/> CONTINUOUS	<input checked="" type="radio"/> INTERMITTENT			● VISCOSITY 0.60 cP @ 50
25	PROCESS VARIATION					<input type="radio"/> MAX VISCOSITY @ MIN TEMP cP @ COLD START
26	STARTING CONDITION					<input type="radio"/> CORROSIVE/EROSIVE AGENT
27	● PARALLEL OPERATION CONDITION REQ'D					<input type="radio"/> CHLORIDE CONCENTRATION
28	SITE AND UTILITY DATA			CONVENTIONS		
29	LOCATION					
30	<input type="radio"/> INDOOR	<input type="radio"/> OUTDOOR	<input checked="" type="radio"/> UNDER ROOF	<input type="radio"/> PARTIAL SIDES		NPSH REFERENCE DATUM
31	<input checked="" type="radio"/> UNHEATED	<input type="radio"/> HEATED	<input type="radio"/> GRADE	<input type="radio"/> MEZZANINE		<input type="radio"/> PUMP CENTRELINE <input type="radio"/> UNDERSIDE OF BASEPLATE
32	<input type="radio"/> ELECTRICAL AREA CLASSIFICATION					
33	TEMP CLASS	GAS GROUP	ZONE	SAFE AREA		
34	<input type="radio"/> WINTERISATION REQ'D	<input checked="" type="radio"/> TROPICALISATION REQ'D				<input type="radio"/> SUCTION NOZZLE CENTRELINE <input type="radio"/> OTHER
35	SITE DATA:					
36	● ELEVATION	29 m	● BAROMETER, Bara	1.028		
37	● RANGE OF AMBIENT TEMPS: MIN/MAX	13,2 / 46,2 °C				
38	● RELATIVE HUMIDITY: MAX/MIN	87 / 48 %				
39	UNUSUAL CONDITIONS					
40	● DUST	<input type="radio"/> FUMES	<input type="radio"/> OTHER	<input checked="" type="radio"/> SEA BREEZE		<input type="checkbox"/> rpm
41	UTILITIES					
42	STEAM:	Press. (Max./ Min.)	Temp. (Max./ r Min.)			<input type="checkbox"/> PROPOSAL CURVE NO
43						<input type="checkbox"/> IMPELLER Dia mm: RATED MIN. MAX.
44	ELECTRICITY DRIVERS HEATING CONTROL SHUTDOWN					<input type="checkbox"/> RATED POWER KW EFFICIENCY %
45	MAIN AUX					<input type="checkbox"/> MINIMUM CONTINUOUS FLOW THERMAL m ³ /H STABLE m ³ /H
46	VOLTAGE					<input type="checkbox"/> MAX HEAD RATED IMPELLER m
47	HERTZ					<input type="checkbox"/> MAX POWER RATED IMPELLER KW
48	PHASE					<input type="checkbox"/> NPSH REQUIRED AT RATED CAPACITY m
49	COOLING WATER					
50	TEMP INLET	°C	MAX RETURN			<input type="checkbox"/> SUCTION SPECIFIC SPEED (rpm,m ³ /H,m)
51	PRESS NORMAL	Barg	DESIGN			■ MAX SOUND PRESSURE LEVEL 85 @ 1M dB(A)
52	MIN RETURN	Barg	MAX ALLOW DP			
53	WATER SOURCE	Raw Water				
54	INSTRUMENT AIR PRESSURE (Barg)					
55	MAX.	NORMAL	MIN.			

NOTES		Rev.
1		
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.	
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