

PROJECT NUMBER: 2123421
DATA SHEET FOR: FIREFIGHTING JOCKEY PUMP
HORIZONTAL HIGH PRESSURE PUMP (SEAWATER)

CLIENT: TNPA
PROJECT: ISLAND VIEW FIRE SYSTEM
DATE: JULY 2019

Pump Number :	JP-001 / 2	Document number:	2123421-1-000-M-DS-0026-01
P&I.D. No.	-	Number required	2
OPERATING DATA			
Liquids:	Seawater	Specific gravity, at pumping temperature:	1.029
Service:	Seawater Jockey Pump	Viscosity at pumping temperature:	1.08 cP (typical)
Pumping Temperature:	±25 °C (ambient)	Reid Vapour press	2.3 kPa (abs)
Capacity @ duty points:	150 litres / min	Pump to furnish not less than 150 % of rated capacity at a total head of not less than 65 % of rated head.	
Head @ duty point:	170m	Shutoff head not to exceed 140 % of rated head.	
NPSH available:	3m	Altitude at site:	Sea level
MECHANICAL DATA			
Type of Pump:	Horizontal high pressure pump in ring sectional design	Speed:	2900 rpm*
		Mechanical seals:	Silicon / Tungsten Carbide (oil lubricated)*
		Pressure rating, casing	24 bar
Direction of rotation. (viewed from driver):	Clockwise	Type of bearing lubrication:	ring oiled
Position of nozzles (viewed from driver) and flange standards			
Suction: horizontal right-hand side		Discharge: vertical, top side	Flanges: ANSI 150 RF
Materials of construction are to be suitable for the liquid pumped and duty			
MATERIALS OF CONSTRUCTION		QUALITY ASSURANCE	
Casing:	Nickel Alluminum Bronze *	Manufacturer to possess ISO 9001 certification.	
Shaft:	High strength, 17.4 Stainless Steel	Testing per BS 5316 Class C	Yes
Impellers:	Aluminium Bronze	Balancing:	Yes
PUMP DRIVES		Hydrostatic test pressure:	24 bar (min)
Prime mover:	Electric motor through a flexible coupling.	Test run pumpset in shop:	Yes, witnessed by K&T
Transmission:	Direct drive to pump	ACCESSORIES	
Installed power (Intermittent rating, de-rated 4% for altitude & 2% for temperature):	* ±TBC	Base plate:	Yes, primed. (300 mm high channel base for pump and electric motor)
Intermittent power rating @SL	* ± TBC kW	Foundation bolts:	No (by others)
Absorbed power, at end of curve +10% :	* ± TBC kW	Coupling / type:	Spacer coupling
Notes: <u>All materials shall be suitable to sea water, including mechanical seal.</u> * Vendor to advise.		Noise level: dB (A)	Limited to 85 dB (A), measured 1m from pump
		Stub shaft:	Yes
		Pressure / suction gauges:	No (by others)
		Coupling guard:	Yes