

Self-Priming Pump Datasheet

Document details					
	1	Document Number	-	XDN.E.0053-000-DS-0004	-
	2	Revision	-	0	-
	3	Date	-	01/12/2025	-
	4	Originator	-	C. Kgatwe	-
	5	Approver	-	P. Vilakazi	-
General					
	6	P&ID	-	XDN.E.0053-000-M-PI-0002-01	-
	7	Pump type	-	Self-Priming Centrifugal Pump	-
	8	Driver type	-	Electric Motor	-
	9	Driver and couplings by:	-	Pump Manufacturer	-
	10	Pump Manufacturer	-	VTC	-
	11	Pump Model	-	VTC	-
	12	Seal type	-	Packing box	-
	13	Direction of rotation from drive end	-	VTC	-
Process					
	14	Fluid	-	Deisel	-
	15	Density	kg/m3	959	-
	16	Viscosity	Pa.s	0,1	-
	17	Atmospheric pressure	kPa (a)	101,6	-
	18	Temperature, normal	°C	20	-
	19	Temperature, Max Design	°C	25	-
	20	Temperature, Min Design	°C	10	-
Operating Data					
	21	Rated capacity	lpm	450	-
	22	Differential Head	m	VTC	-
	23	Suction pressure, max	kPa(g)	VTC	-
	24	Suction pressure, min	kPa(g)	VTC	-
	25	NPSH A	m	VTC	-
	26	Rate discharge pressure	kPa(g)	300	-
Performance					
	27	Manufacturer's curve ref.	-	VTC	-
	28	Efficiency	%	VTC	-
	29	Pump rpm	rpm	VTC	-
	30	Power at rated point	kW	VTC	-
	31	Power at end of curve	kW	VTC	-
	32	NPSH R	m	VTC	-
Nozzles					
	33	Suction	-	80NB Class 150 RF mating flange with pump	-
	34	Discharge	-	80NB Class 150 RF mating flange with pump	-
Motor					
	35	Manufacturer	-	VTC	-
	36	Model	-	VTC	-
	37	Electrical Supply	-	3ph / 400 V / 50 Hz	-
	38	Type	-	TEFC Induction Motor	-
	39	Rated power	kW	5.5 VTC	-
	40	Speed	rpm	1450	-
	41	Material	-	Cast Iron	-
	42	Efficiency	-	IE 3	-
	43	Insulation Class	-	F	-
	44	Temperature rise	-	Class B	-
Material					
	45	Casing	-	Stainless Steel	-
	46	Shaft	-	Stainless Steel	-
	47	Gears	-	Stainless Steel	-
Seals					
	48	Type	-	Mechanical Seal	-
	49	Make and model	-	VTC	-
	50	Mechanical seal plan number	-	VTC	-
Testing					
	51	Hydrostatic test pressure	kPa (g)	1000	-
	52	Shop performance test	-	Yes, Non-witness	-
	53	NPSH test	-	No	-
	54	Vibration	-	No	-
Documentation					
	55	Completed Data sheet	-	Yes	-
	56	General Arrangement Drawing	-	Yes	-
	57	Operating and Maintenance Manual	-	Yes	-
	58	Sectional drawings and parts lists	-	Yes	-
	59	Motor Datasheet	-	Yes	-
	60	Motor Operating and Maintenance Manual	-	Yes	-
	61	Motor Factory Acceptance	-	Yes	-