Vulcan HDS Submersible Slurry Pump Data Sheet

Model: 50L

HDS 50L Pump Data	
Discharge Size	2" (50 mm)
Flange Rating	150# FF/ANSI B16.5
Impeller Dia.	8.46" (215 mm)
Min. Impeller Dia.	6.77" (172 mm)
Max Particle Size	0.63" (16 mm)
GA Drawing	A1416

Wet End Options		BOM
O	Open Suction	A1174
A	Agitator	A1175
C	Cutter	A1176

HDS 50L Wet End Materials of Construction		
Part	**Standard Material**	**Optional Material**
Impeller	A532 CL III Type A	A890-1B Gr. CD4MCu
Casing	A532 CL III Type A	A890-1B Gr. CD4MCu
Suction Liner	A532 CL III Type A	A890-1B Gr. CD4MCu
Motor Side Cover	A532 CL III Type A	A890-1B Gr. CD4MCu
Agitator	A532 CL III Type A	A890-1B Gr. CD4MCu
Stand	A536 Gr. 80-55-06	316 SS or Alloy 20
Shaft Adapter	17-4PH A564 Gr. 630	Alloy 20 or 2205
Shaft Extension	17-4PH A564 Gr. 630	Alloy 20 or 2205
Impeller Bolt	17-4PH A564 Gr. 630	Alloy 20 or 2205
Fasteners	316 SS	Alloy 20
Gaskets	Durlon 8500	Teflon
O-Rings	Buna	Viton

Motor Information

Flange Mounted ▪ 15 min in Air Operation ▪ (2) Moisture Sensing Probes ▪ (2) Normally Closed Thermostats

HP	7.5 (5.5 kW)		10 (7.5 kW)		7.5 (5.5 kW)		10 (7.5 kW)		15 (11 kW)		20 (14.9 kW)	
RPM	1140		1140		1735		1735		1730		1750	
Freq. (Hz)[1]	60		60		60		60		60		60	
Frame	180T1		180T1		180T1		180T1		180T1		180T1	
Enclosure	TENV		TENV		TENV		TENV		TENV		TENV	
Insulation Class[2]	F		F		F		F		F		F	
Max Ambient Liquid Temp.[3]	40° C (104° F)		40° C (104° F)		40° C (104° F)		40° C (104° F)		40° C (104° F)		40° C (104° F)	
Service Factor	1.15		1.15		1.15		1.15		1.15		1.15	
Voltage	460	575	460	575	460	575	460	575	460	575	460	575
FL Amps	11.5	9.2	15	12	9.7	7.7	12.5	10	18.6	14.8	24	19.2
LCK Amps	62	49.6	78	62.4	63	50.4	80	64	115	92	139	111

1-50 Hz Motors Available
2-H Class Insulation Available
3-90C (194F) Ambient Available