

Vulcan HDS Submersible Slurry Pump Data Sheet

Model: 50M

HDS 50M Pump Data	
Discharge Size	2" (50 mm)
Flange Rating	150# FF/ANSI B16.5
Impeller Dia.	13.38" (340 mm)
Min. Impeller Dia.	10.71" (272 mm)
Max Particle Size	0.79" (20 mm)
GA Drawing	A1441

Wet End Options		BOM
O	Open Suction	A1204
A	Agitator	A1205
C	Cutter	A1206

HDS 50M 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	10 (7.5 kW)		15 (10 kW)		20 (15 kW)		25 (18.5 kW)		30 (22 kW)		40 (30 kW)	
RPM	1160		1160		1160		1745		1745		1750	
Freq. (Hz) ¹	60		60		60		60		60		60	
Frame	250T1		250T1		250T1		250T1		250T1		250T1	
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	15	12	20.9	16.7	26.7	21.4	30	24	36	28.8	48	38.4
LCK Amps	78	62.4	112	89.6	140	112	165	132	193	154	286	229

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