

Vulcan HDS Submersible Slurry Pump Data Sheet

Model: 100M

HDS 100M Pump Data	
Discharge Size	4" (100 mm)
Flange Rating	150# FF/ANSI B16.5
Impeller Dia.	13.38" (340 mm)
Min. Impeller Dia.	10.71" (272 mm)
Max Particle Size	1.56" (35 mm)
GA Drawing	A1432

Wet End Options		BOM
O	Open Suction	A1210
A	Agitator	A1211
C	Cutter	A1212

HDS 100M 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	15 (11 kW)		20 (15 kW)		25 (18.5 kW)		40 (30 kW)	
RPM	1160		1160		1160		1745	
Freq. (Hz) ¹	60		60		60		60	
Frame	250T1		250T1		250T1		250T1	
Enclosure	TENV		TENV		TENV		TENV	
Insulation Class ²	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)	
Service Factor	1.15		1.15		1.15		1.15	
Voltage	460	575	460	575	460	575	460	575
FL Amps	20.9	16.7	26.7	21.4	34.1	27.3	30	24
LCK Amps	112	89.6	140	112	185	148	165	132