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	A1433

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	30 (22 kW)		40 (30 kW)		50 (37 kW)		60 (45 kW)		75 (55 kW)	
RPM	1165		1170		1770		1765		1770	
Freq. (Hz)[1]	60		60		60		60		60	
Frame	320TYS		320TYS		320TYS		320TYS		320TYS	
Enclosure	TENV		TENV		TENV		TENV		TENV	
Insulation Class[2]	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)	
Service Factor	1.15		1.15		1.15		1.15		1.15	
Voltage	460	575	460	575	460	575	460	575	460	575
FL Amps	40	32	53.3	42.6	63	50.4	77.3	61.8	92	73.6
LCK Amps	210	168	282	226	336	269	410	328	504	403

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