

Vulcan HDS Submersible Slurry Pump Data

Sheet Model: 100 H

HDS 100 HPump Data	
Discharge Size	4" (100 mm)
Flange Rating	150# FF/ANSI B16.5
Impeller Dia.	16." (400 mm)
Min. Impeller Dia.	12.80" (320 mm)
Max Particle Size	1.58" (40 mm)
GA Drawing	A1445

Wet End Options		BOM
O	Open Suction	A1216
A	Agitator	A1217
C	Cutter	A1218

HDS 150M 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	75 (55 kW)		100 (75 kW)		125 (90 kW)		150 (112 kW)	
RPM	1770		1770		1770		1770	
Freq. (Hz) ¹	60		60		60		60	
Frame	360TY		360TY		360TY		360TY	
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	92	73.6	120	96	148	118	180	144
LCK Amps	534	427	703	562	812	650	1097	878