

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