

Vulcan HDS Submersible Slurry Pump Data Sheet

Model: 75L

HDS 75L Pump Data	
Discharge Size	3" (75 mm)
Flange Rating	150# FF/ANSI B16.5
Impeller Dia.	8.46" (215 mm)
Min. Impeller Dia.	6.77" (172 mm)
Max Particle Size	0.86" (22 mm)
GA Drawing	A1418

Wet End Options		BOM
O	Open Suction	A1180
A	Agitator	A1181
C	Cutter	A1182

HDS 75L 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	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)	
RPM	1140		1140		1735		1735		1730		1750	
Freq. (Hz)¹	60		60		60		60		60		60	
Frame	180T1		180T1		180T1		180T1		180T1		180T1	
Enclosure	TENV		TENV		TENV		TENV		TENV		TENV	
Insulation Class²	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	11.5	9.2	15	12	9.7	7.7	12.5	10	18.6	14.8	24	19.2
LCK Amps	62	49.6	78	62.4	63	50.4	80	64	115	92	139	111