

Technical Data – 2430 M & W SUBMERSIBLE SOLIDS HANDLING PUMPS

D2430M/W/WD	
Wet End	Vertical, single-stage solids handling impeller
Rotation	CW when viewed from driver end
Volute	Single one-piece with cleanout
Nozzles	Bottom suction-side tangential discharge
Impeller	Single-suction, francis-vane, enclosed, solids handling, with wear ring
Wear Rings	Radial type L shape (optional)
Shaft	Integral motor, shims for impeller adjustment
Bearing Frame	Motor frame
Bearing Radial/Thrust	Integral motor
Lubrication – Seal	Oil Submersible, constant speed, squirrel cage, 3 phase, 60 Hz, 230 or 460 volt through 40 hp, 460 volt only above 40 hp. 1.15 service factor thermal protectors and moisture sensing probes Upper mechanical seal; carbon rotating face, ceramic stationary face Lower mechanical seal; silicon carbide rotating face, tungsten carbide stationary face
Motor	Tungsten carbide rotating and silicon carbide stationary faces for upper mechanical seals (optional) Various voltages (optional) Continuous duty in air (optional) Continuous duty in air with water cooling jacket (optional) Viton® O-rings (optional)
D2430M	
Discharge Coupling	Slip on flange type
Discharge Base	One-piece flanged inlet and vertical discharge
Cable	Pull-up cable (optional)
D2430WD	
Fronthead	Separate one-piece casting, flanged for connection to suction elbow
Base Mount	Base and separate flanged suction elbow with cleanout
Rotation	CCW when viewed from driver end (optional)

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	2434		2435		2436	
Pump Size (Discharge Size)	12	16	12	16	12	16
Suction Size	14	18	14	18	14	18
Nominal Wear Ring (Axial) Clearance:	.030	.030	.030	.030	.030	.030
Radial Rings (Standard)	.040	.058	.040	.058	.040	.058
L-Shape Rings (Optional)	.025	.030	.025	.030	.025	.030
Impeller Fastener:						
Size	1/2–13	3/4–16	1-1/2–6	1-1/2–6	RTF	RTF
Tightening Torque (lb-ft)	35	60	35	60	RTF	RTF
Impeller:						
Weight (lbs.)	165	350	210	280	See chart below	See chart below
Inlet Area (sq. inches)	153.94	263.40	186	331	See chart below	See chart below
WR ² (lb-ft ²)	42.2	154.0	95.5	249.0	See chart below	See chart below
Sphere Size, Maximum	4	5.25	4	5.25	See chart below	See chart below
Volute Cleanout Diameter	4-1/2	6	4-1/2	6	6	8
Fronthead Cleanout Diameter (Optional)	6	6	6	6	6	8
Hydrostatic Test, psi	130	130	130	130	200	200
Casing Working, psi	85	85	85	85	126	126
Nominal Casing Thickness	11/16	7/8	11/16	7/8	1-1/4	1-5/8
Operating Temperature, °F	150	150	150	150	150	150

All dimensions are in inches.

These are maximum values based on standard construction. If higher values are required, contact the factory.

Impeller	L12F1C	L12F1G	L12F1E	L16F1C	L16F1G	L16F1E
Weight	330	270	350	440	360	467
Inlet Area	204	143	157	272	191	209
WR ²	190	179	200	493	423	515
Sphere Size	4.25	4.8	2.5	5.7	6.4	3.3