



1DS

SUBMERSIBLE DEWATERING PUMP



Bell & Gossett

a xylem brand

FEATURES

Impeller: AISI 304 SS open impeller.

Diffuser Plate: AISI 304 SS with Polyurethane coating for maximum resistance to abrasion.

Casing: AISI 304 SS.

Mechanical Seal: Silicon carbide sealing faces, all metal components of AISI type 300 stainless steel running in protected oil chamber.

Elastomers: BUNA-N.

Shaft: AISI type 304 stainless steel high strength pump shaft with keyed and locking cap screw impeller fastening.

Motor: Air filled class F insulated design for continuous use.

Designed for Continuous Operation: Pump ratings are within the motor's working limits and can be operated continuously without damage.

Bearings: Upper and lower heavy duty ball bearing construction.

Component	Material
Pump body and motor casing	Stainless steel (AISI 304)
Outer sleeve	Stainless steel (AISI 304)
Impeller	Stainless steel (AISI 304)
Motor shaft	Stainless steel (AISI 304)
Suction strainer	Stainless steel (AISI 304)
Front diffuser plate	Stainless steel (AISI 304) coated with polyurethane elastomer
Lower mechanical seal	Silicon carbide/silicon carbide
Upper lip seal	Nitrile rubber
Handle	Stainless steel (AISI 304) coated with polyacetalic resin

APPLICATIONS

Specifically designed for the following uses:

- Handling dirty waters
- Draining ditches and pits
- Excavating in the building trades
- Water transfer
- Industrial water drainage or transfer

SPECIFICATIONS

Pump:

- Discharge size: 1½" NPT.
- Capacities: up to 110 GPM.
- Total heads: up to 66 feet TDH.
- Max. solids: ¾" spherical.
- Mechanical seal: Silicon carbide rotary/silicon carbide stationary, 300 series stainless steel metal parts, BUNA-N elastomers.
- Maximum submergence: 23'.
- Temperature limit: 120°F (50°C) maximum.
- Fasteners: 300 series stainless steel.

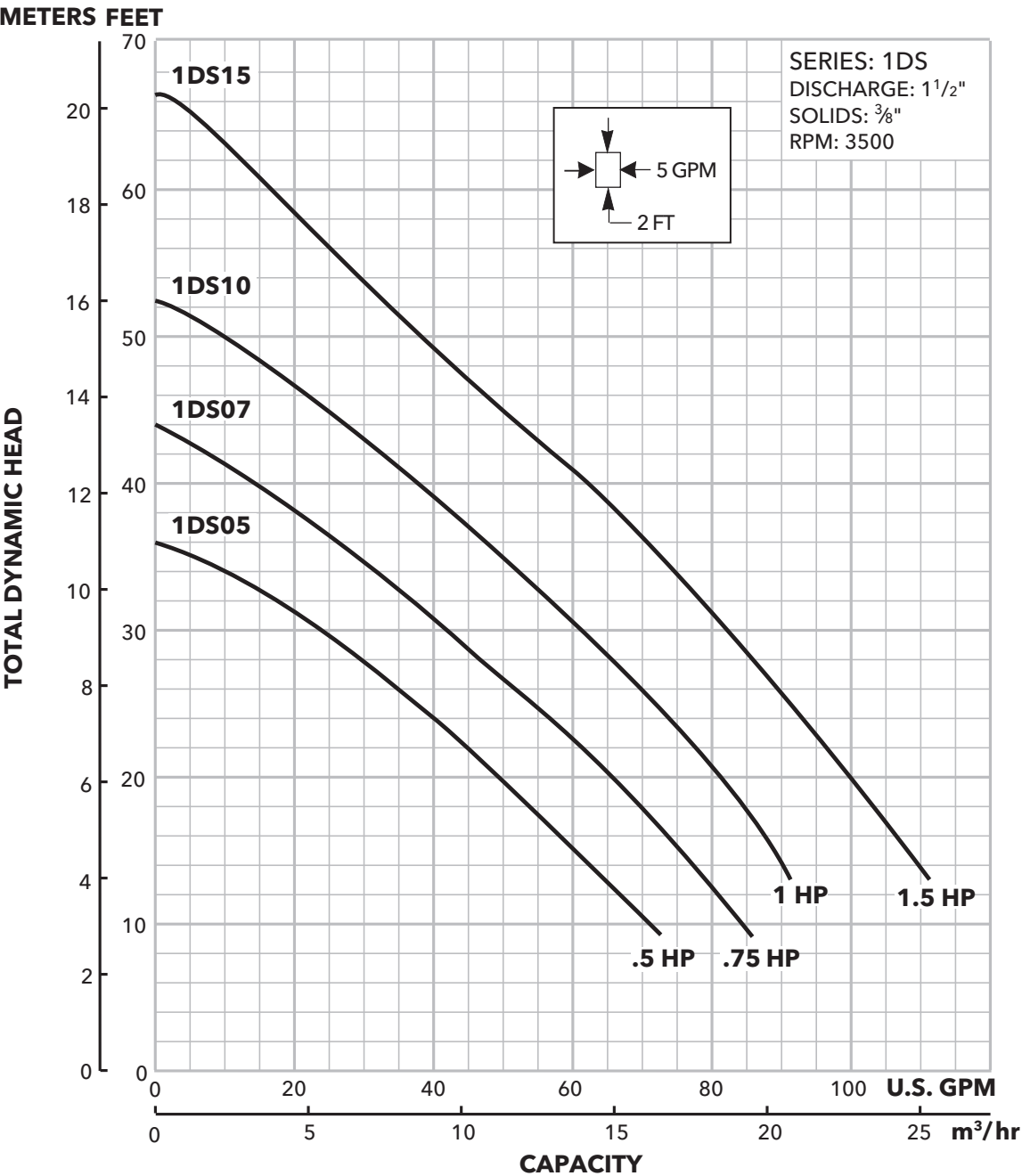
Motor:

- Single phase: 60 Hz, 3500 RPM, ½ HP, 115 and 230 V; ¾ and 1 HP, 230 V only.
- Three phase: 60 Hz, 3500 RPM, ½ to 1½ HP, 230 or 460 V.
- Built-in thermal overload protection with automatic reset on single phase models.
- Three phase: Overload protection must be provided in starter unit with three phase pumps.
- Power cord: ½ HP 30' cord; all other HP's 20' cord
- Class F insulation.

AGENCY LISTINGS (Three phase only)



Tested to UL 778 and CSA 22.2 108 Standards
By Canadian Standards Association
File #LR38549

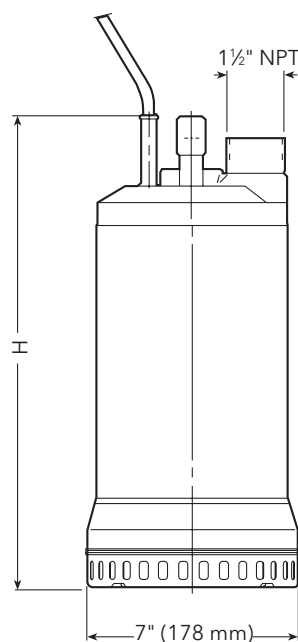


MODEL INFORMATION

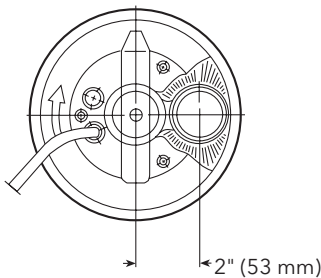
Order No.	HP	Volts	Phase	Maximum Amps	RPM	Weight (lbs.)
1DS0511	½	115	1	10.3	3450	29
1DS0512		230		4.5		
1DS0532		460	3	2.5		27
1DS0534				1.3		
1DS0712	¾	230	1	5.7		32
1DS0732		460	3	3.6		29
1DS0734				1.8		
1DS1012		230	1	6.3		38
1DS1032	1	460	3	4.0		33
1DS1034				2.0		
1DS1532		230	3	5.6		37
1DS1534		460		2.7		

DIMENSIONS

(All dimensions are in inches. Do not use for construction purposes.)



Series	HP	Phase	Dimensions in inches (mm)	Discharge Size	
			H		
1DS	½	1	14⅞ (363)	1½"	
		3	13⅝ (348)		
	¾	1	15⅞ (383)		
		3	14⅞ (363)		
	1	1	15⅞ (403)		
		3	15⅞ (383)		
	1½	3	15⅞ (403)		



TYPICAL SPECIFICATIONS

The contractor shall furnish and install quantity _____, Model 1DS _____ Dewatering pump(s) as illustrated on the plans and in accordance with the following specifications.

Single-phase models are available in: 1/2 HP/115 or 230V; 3/4 and 1 HP/ 230V only. They feature built-in capacitors and automatic reset, on-winding overload protection.

Three phase units from 1/2 to 1 1/2 HP are available in 230 or 460V, they require Class 10 overload protection in a starter which is ordered separately.

The air-filled, Class F insulated motors can be operated continuously without damage. Upper and lower heavy duty ball bearings are provided. Maximum pump submergence is 23'.

Pumps shall be designed to pass 3/8" maximum spheres and are suitable for draining ditches and pits on construction sites, water transfer and industrial water draining.

Materials of Construction: Pumps shall be constructed of stainless steel. Water intrusion shall be prevented by an outer silicon carbide/silicon carbide/BUNA/SS mechanical seal and an upper

AGENCY LISTINGS (Three phase only)



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