

TABLE OF CONTENTS



JSDP-A & JSD-A (AUTOMATIC)					
Model No.	Specifications	Selection Chart	Performance Curve	Dimensions	Section View
JSDP-3AS1 (1/3 HP)	A1-01	A1-06	A1-06	A1-07	A1-09
JSD-3AS1 (1/3 HP)					A1-10
JSD.5AS1 (1/2 HP)					A1-11
JSD.75AS1 (3/4 HP)					A1-11
JSDP-M & JSD-M (MANUAL)					
Model No.	Specifications	Selection Chart	Performance Curve	Dimensions	Section View
JSDP-3S1 (1/3 HP)	A1-02	A1-06	A1-06	A1-08	A1-12
JSD-3S1 (1/3 HP)					A1-13
JSD.5S1 (1/2 HP)					A1-14
JSD.52 (1/2 HP)					A1-15
JSD.54 (1/2 HP)					A1-14
JSD.75S1 (3/4 HP)					
JSD.752 (3/4 HP)					
JSD.754 (3/4 HP)					
JSD12 (1 HP)					A1-15
JSD14 (1 HP)					
JSD1.52 (1 1/2 HP)					
JSD1.54 (1 1/2 HP)					



Specifications

**Model JSDP.3AS1, JSD.3AS1
JSD.5AS1
JSD.75AS1**

Automatic Operation Pumps
Performance: ISO 2548

	Standard	Optional
Discharge Size	1/3 HP – 1 1/4 inch	
Range of HP	1/2 HP and 3/4 HP – 1 1/2 inch	
Range of Performance	1/3, 1/2, and 3/4 HP Capacity 2.7 to 72 GPM Head 9.3 to 57 feet	
Limitation Maximum Water Temperature	122°F/50°C 140°F/60°C (intermittent duty)	
Solids	3/8" Spherical (2% by concentration)	
Synchronous Speed	3600 RPM	
Materials Casing Impeller Shaft Motor Frame Fasteners	304 Stainless Steel 304 Stainless Steel* 303 Stainless Steel 304 Stainless Steel 304 Stainless Steel	
Shaft Seal (Double)** Material – Upper Material – Lower Impeller Type Bearing Motor Single Phase Motor Protection Power Cord Automatic Float Switch	NBR Fitted Carbon/Ceramic 1/2, 3/4, 1, and 1 1/2 HP Viton Fitted Silicon Carbide/Silicon Carbide 1/2, 3/4, 1, and 1 1/2 HP Semi-Open Prelubricated Sealed Ball Bearing Air-filled, Insulation Class F, 2 Pole, Rated Continuous Duty–Permanent Split Capacitor 115 Volt Built-in Motor Protection w/Auto Reset UL/CSA SJTow-A With ECS No. 250 Cap Plug with grounding pin – 20 Ft. Length Rated 15 Amp 125V – NEMA 5-15P Mechanical Float	

* Model No. JSDP.3A – Impeller/Diffuser material is Thermo Plastic-Noryl GFN2

**Model No.'s JSDP.3A & JSP.3A — 1/3 HP Shaft Seal is Non-Mechanical Double Oil Seal (Rubber)



Specifications

**Model JSD.3 /JSDP.3
JSD.5 to JSD1.5**

Manual Operation Pumps
Performance: ISO 2548

	Standard	Optional
Discharge Size	1/3 HP – 1 1/4 inch	
Range of HP	1/2 HP through 1 1/2 HP – 1 1/2 inch	
Range of Performance	1/3, 1/2, 3/4, 1, and 1 1/2 HP Capacity 2.7 to 88 GPM Head 9.3 to 62 feet	
Limitation Maximum Water Temperature	122°F/50°C 140°F/60°C (intermittent duty)	
Solids	3/8" Spherical (2% by concentration)	
Synchronous Speed	3600 RPM	
Materials Casing Impeller Shaft Motor Frame Fasteners	304 Stainless Steel 304 Stainless Steel* 303 Stainless Steel 304 Stainless Steel 304 Stainless Steel	
Shaft Seal (Double)** Material – Upper Material – Lower Impeller Type Bearing Motor Single Phase Three Phase Motor Protection† Power Cord Single Phase Three Phase	NBR Fitted Carbon/Ceramic 1/2, 3/4, 1, and 1 1/2 HP Viton Fitted Silicon Carbide/Silicon Carbide 1/2, 3/4, 1, and 1 1/2 HP Semi-Open Prelubricated Sealed Ball Bearing Air-filled, Insulation Class F, 2 Pole, Rated Continuous Duty–Permanent Split Capacitor 115 V 208/230V or 460V Built-in Motor Protection with Auto Reset UL/CSA SJTOW-A with ECS No. 250 Cap Plug with grounding pin – 20 Ft. Length Rated 15 Amp 125V – NEMA 5-15P UL/CSA STOW-A water resistant, stripped end jacket removed 2 inches and conductor stripped 5/8" — 20 Ft. length	

* Model No. JSDP.3 – Impeller/Diffuser material is Thermo Plastic-Noryl GFN2

**Model No.'s JSDP.3 & JSD.3 — 1/3 HP Shaft Seal is Non-Mechanical - Double Oil Seal (Rubber)

† Three Phase models require user to provide motor protection



Sample Specifications

1. Scope of supply

Furnish and install J D L Model _____ Submersible Stainless Steel Pump(s). Each unit shall be rated at _____ GPM at _____ feet TDH.

The pump(s) shall be designed to pump dirty waters containing $\frac{3}{8}$ " spherical solids without damage during operation. The pump(s) shall be designed so that the pump shaft horsepower (BHP) shall not exceed motor rated horsepower throughout the entire operating range of the pump performance curve. Pump(s) shall be built to operate whether fully or partially submerged.

2. Casing and Impeller

Major parts of the pumping unit shall be manufactured of stainless steel. The casing, impeller, motor frame, and fasteners shall be manufactured of 304 stainless steel. The impeller shall be semi-open design. The pump(s) shall have a discharge size of $1\frac{1}{4}$ " NPT.

3. Shaft seal

The pump(s) shall be furnished with a non-mechanical double oil seal (rubber).

4. Motor

The pump motor shall be $\frac{1}{3}$ HP, 0.3 K.W., 115 Volt, 60Hz, single phase. Motor shall be air filled with Class F insulation and shall be of split capacitor design. The motor shall be supplied with built-in thermal protection with automatic reset and shall be rated for continuous duty. Motor shaft shall be 303 stainless steel.

5. Motor cable

Pump motor cable shall be suitable for submersible pump applications. Cable shall have 20 feet UL/CSA approved water resistant #16 AWG cord.

6. Option

A mechanical, non-mercury float switch is available in pumps with automatic operation.



Sample Specifications

1. Scope of supply

Furnish and install J D L Model _____ Submersible Stainless Steel Pump(s). Each unit shall be rated at _____ GPM at _____ feet TDH.

The pump(s) shall be designed to pump dirty waters containing $\frac{3}{8}$ " spherical solids without damage during operation. The pump(s) shall be designed so that the pump shaft horsepower (BHP) shall not exceed motor rated horsepower throughout the entire operating range of the pump performance curve. Pump(s) shall be built to operate whether fully or partially submerged.

2. Casing and Impeller

Major parts of the pumping unit shall be manufactured of stainless steel. The casing, motor frame, and fasteners shall be manufactured of 304 stainless steel. The impeller and diffuser material shall be Thermo Plastic-Noryl GFN(2). The impeller shall be semi-open design. The pump(s) shall have a discharge size of $1\frac{1}{4}$ " NPT.

3. Shaft seal

The pump(s) shall be furnished with a non-mechanical double oil seal (rubber).

4. Motor

The pump motor shall be $\frac{1}{3}$ HP, 0.3 K.W., 115 Volt, 60Hz, single phase. Motor shall be air filled with Class F insulation and shall be of split capacitor design. The motor shall be supplied with built-in thermal protection with automatic reset and shall be rated for continuous duty. Motor shaft shall be 303 stainless steel.

5. Motor cable

Pump motor cable shall be suitable for submersible pump applications. Cable shall have 20 feet UL/CSA approved water resistant #16 AWG cord.

6. Option

A mechanical, non-mercury float switch is available in pumps with automatic operation.



Sample Specifications

1. Scope of supply

Furnish and install J D L Model _____ Submersible Stainless Steel Pump(s). Each unit shall be rated at _____ GPM at _____ feet TDH.

The pump(s) shall be designed to pump dirty waters containing $\frac{3}{8}$ " spherical solids without damage during operation. The pump(s) shall be designed so that the pump shaft horsepower (BHP) shall not exceed motor rated horsepower throughout the entire operating range of the pump performance curve. Pump(s) shall be built to operate whether fully or partially submerged.

2. Casing and Impeller

Major parts of the pumping unit shall be manufactured of stainless steel. The casing, impeller, motor frame, and fasteners shall be manufactured of 304 stainless steel. The impeller shall be semi-open design. The pump(s) shall have a discharge size of 1½" NPT.

3. Shaft seal

The pump(s) shall be furnished with a non-mechanical double oil seal (rubber).

4. Motor

The pump motor shall be _____ HP, _____ K.W., 60Hz, single phase. Motor shall be air filled with Class F insulation and shall be of split capacitor design. The motor shall be rated for continuous duty. Motor shaft shall be 303 stainless steel.

5. Motor cable

Pump motor cable shall be suitable for submersible pump applications. Cable shall be 20 feet UL/CSA approved water resistant #16 AWG cord.

6. Option

A mechanical, non-mercury float switch is available in pumps with automatic operation.



Performance Table

Capacity in Gallons Per Minute

Total Head Item No	5	10	15	20	25	30	35	40	45	50	55
JSDP.3 1/3 HP	40	33	25	15							
JSD.3 1/3 HP	45	39	31	21	5						
JSD.5 1/2 HP		73	67	60	51	40	27	9			
JSD.75 3/4 HP				74	67	58.5	49	39	27	16	
JSD1 1 HP				83.5	82	75	65	55	42	27	
JSD1.5 1 1/2 HP					88	81.5	74	65	54	42	25

Sump Drainer Performance Curve

