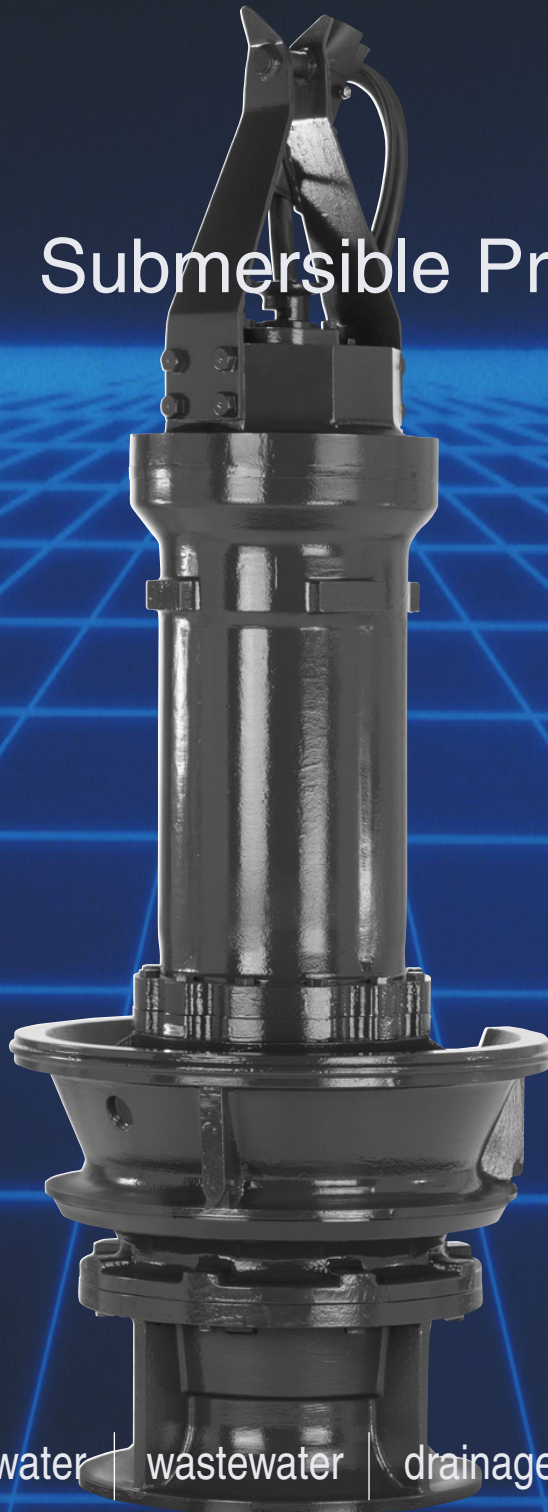




# EBARA

## Submersible Propeller Pump Model DSZ3

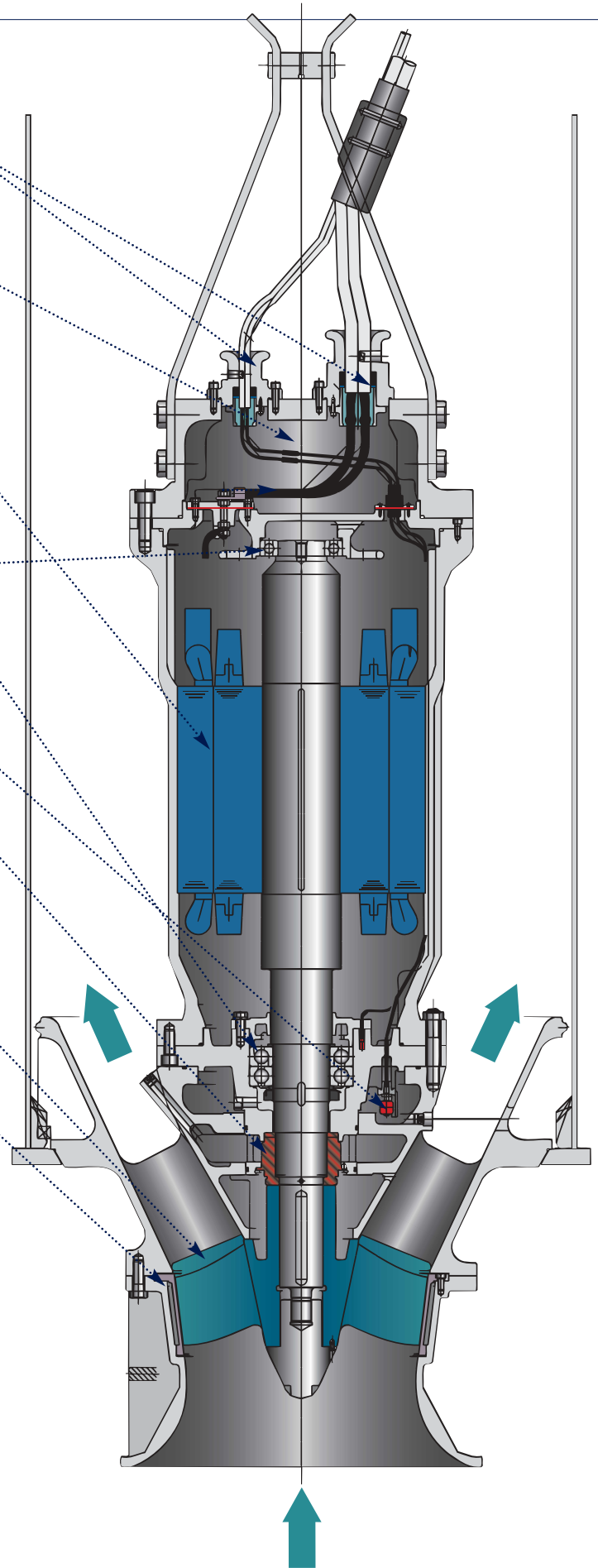


water | wastewater | drainage

# Submersible Propeller Pump

## F e a t u r e s

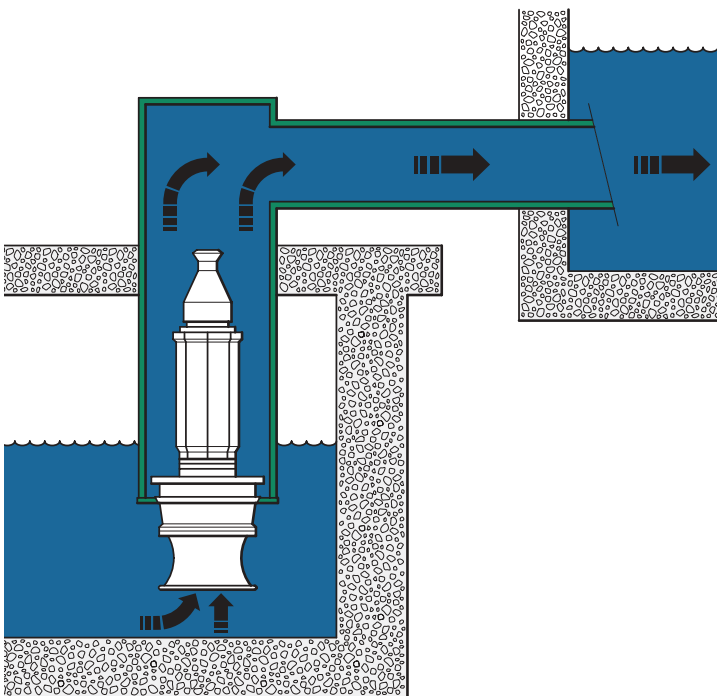
- **Watertight cable entry system** prevents capillary action and protects against moisture; reduces maintenance costs
- **Junction area** includes a terminal board for cable connections allowing for fast efficient replacement; area sealed from the stator housing; prevents leakage into the motor; reduces the possibility of failure
- **Heavy duty, high efficiency, air filled motor, Class F** insulated, rated for 311°F with a 1.15 service factor dissipates heat easily; thermal protection in each phase of windings protects; operates cooler with higher efficiencies; longer service life with lower operating costs
- **Double and triple row grease bearings** carries thrust loading with L-10 life of 100,000 hours; ensures long, dependable operation and lowers maintenance costs
- **Float type leakage detector** provides early warning of mechanical seal failure; avoids costly motor repairs
- **Cartridge type, duplex mechanical seals** assembled in tandem arrangement; easy maintenance and high reliability
- **High efficiency, axial flow impellers** accept large diameter solids; lowers operating costs
- **Replaceable case liner** maintains working clearances while lowering case replacement costs



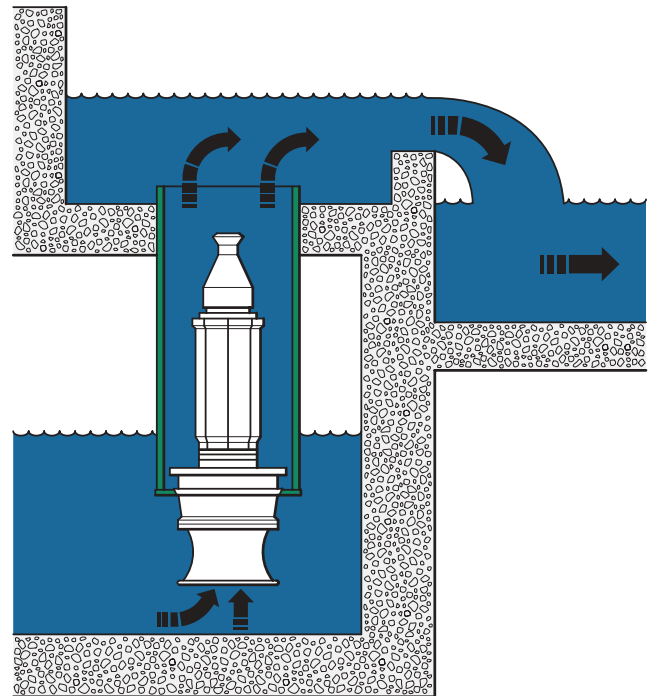
# Submersible Propeller Pump

## DSZ3 standard specifications

- Capacities to 55,000 GPM
- Heads to 50 feet
- Horsepower range to 800 HP
- RPM range 600 to 1,800
- Liquid temperatures to 104°F
- Submergence to 82 feet
- Stainless steel shaft
- Replaceable case liner
- Cartridge mechanical seal assembly
- 1.10 Motor service factor
- 10 starts per hour
- Bearing L-10 life of 50,000 hours standard, optional 100,000 hours
- Optional five year warranty
- Seal leak detection system
- Motor winding protection
- Thrust bearing protection
- FM explosion proof models available

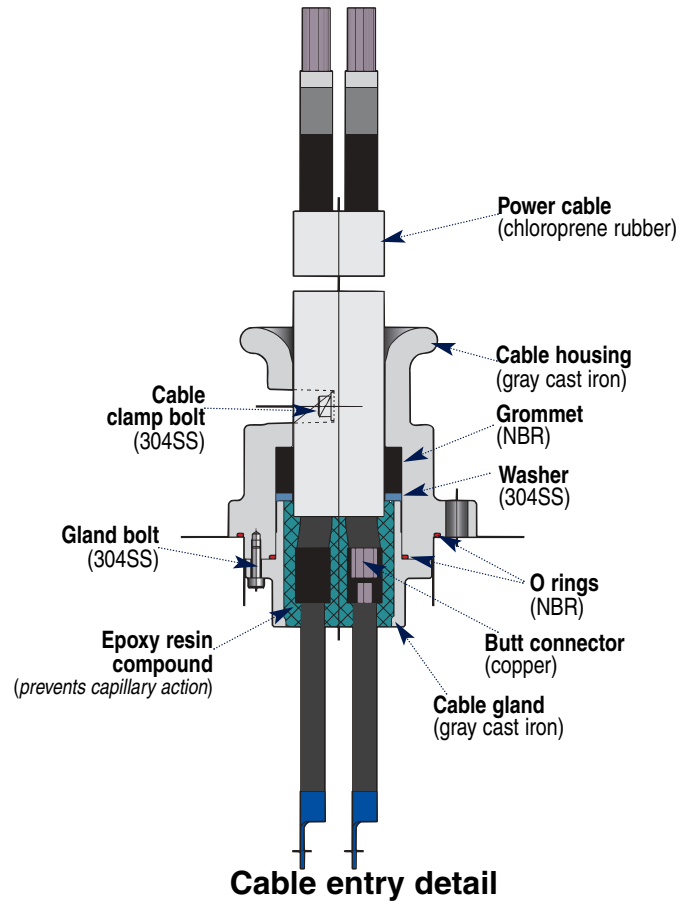
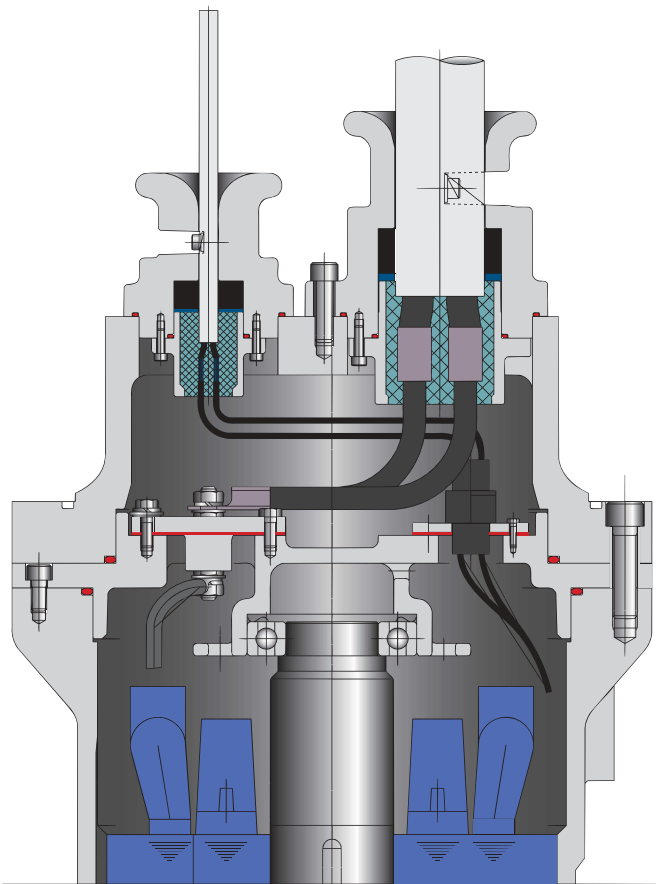


Vertical suspended column with horizontal discharge

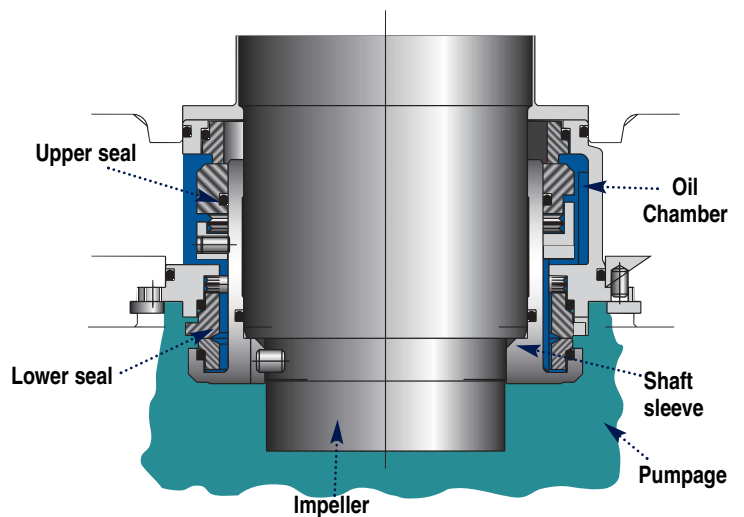
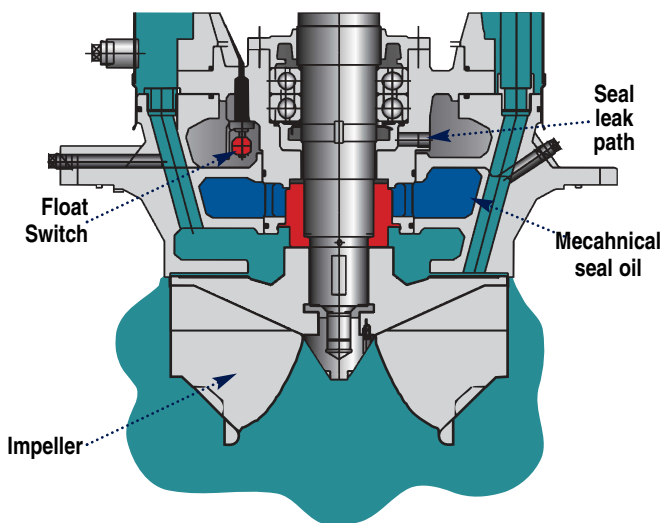


Vertical suspended column with vertical discharge

# Model DSC sealed junction area



# Leak detection system

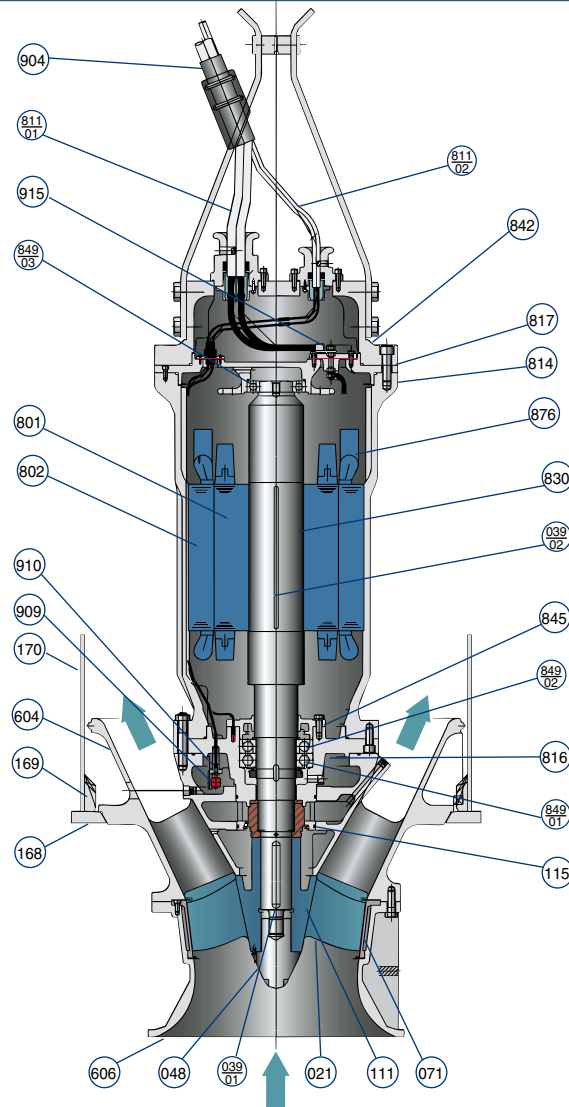


- **Upper seal O rings** — NBR
- **Upper seal faces** — Carbon vs Ceramic
- **Lower seal O rings** — Viton
- **Lower seal faces** — Silicon carbide vs Silicon carbide
- **Seal springs** — 304SS
- **Shaft sleeve** — 304SS

**Note:** Optional seal face materials available

## Double mechanical seal detail

# Materials



No.	Qty	Part Name	Material	ATM/AISI Code	No.	Qty	Part Name	Material	ATM/AISI Code
915	1	Terminal Board			811-01	1	Power Cable		
910	1	Leakage Detector Support	Cast Iron	ASTM A48 CL. 30	802	1	Stator	Copper	
909	1	Leakage Detector			801	1	Rotor	Aluminum	
904	1	Lifting Hanger	Steel	ASTM A283 GR.D	606	1	Suction Bell	Cast Iron	ASTM A48 CL. 35
876	1	Thermal Protector			604	1	Discharge Bowl	Cast Iron	ASTM A48 CL. 35
849-03	1	Ball Bearing	Steel		170	1	Column Pipe	Steel	ASTM A283 GR. D
849-02	1	Ball Bearing	Steel		169	1	Rotation Stopper	Steel	ASTM A283 GR. D
849-01	1	Ball Bearing	Steel		168	1	Sole Plate	Steel	ASTM A283 GR. D
845	1	Bearing Cover	Cast Iron	ASTM A48 CL. 30	115	1	O Ring	NBR	
842	1	Motor Cover	Cast Iron	ASTM A48 CL. 35	111	1	Mechanical Seal	See Detail	
830	1	Shaft	Stainless	AISI 403	071	1	Casing Liner	Stainless	ASTM A743-CF8
817	1	Opposite Side Bracket	Cast Iron	ASTM A48 CL. 35	048	1	Impeller Nut	Stainless	AISI 403
816	1	Power Side Bracket	Cast Iron	ASTM A48 CL. 35	039-02	1	Key	Steel	AISI 1050
814	1	Motor Frame	Cast Iron	ASTM A48 CL. 35	039-01	1	Key	Stainless	AISI 420
811-02	1	Control Cable			021	1	Impeller	Ductile Iron	ASTM A536-60-40

## Optional materials

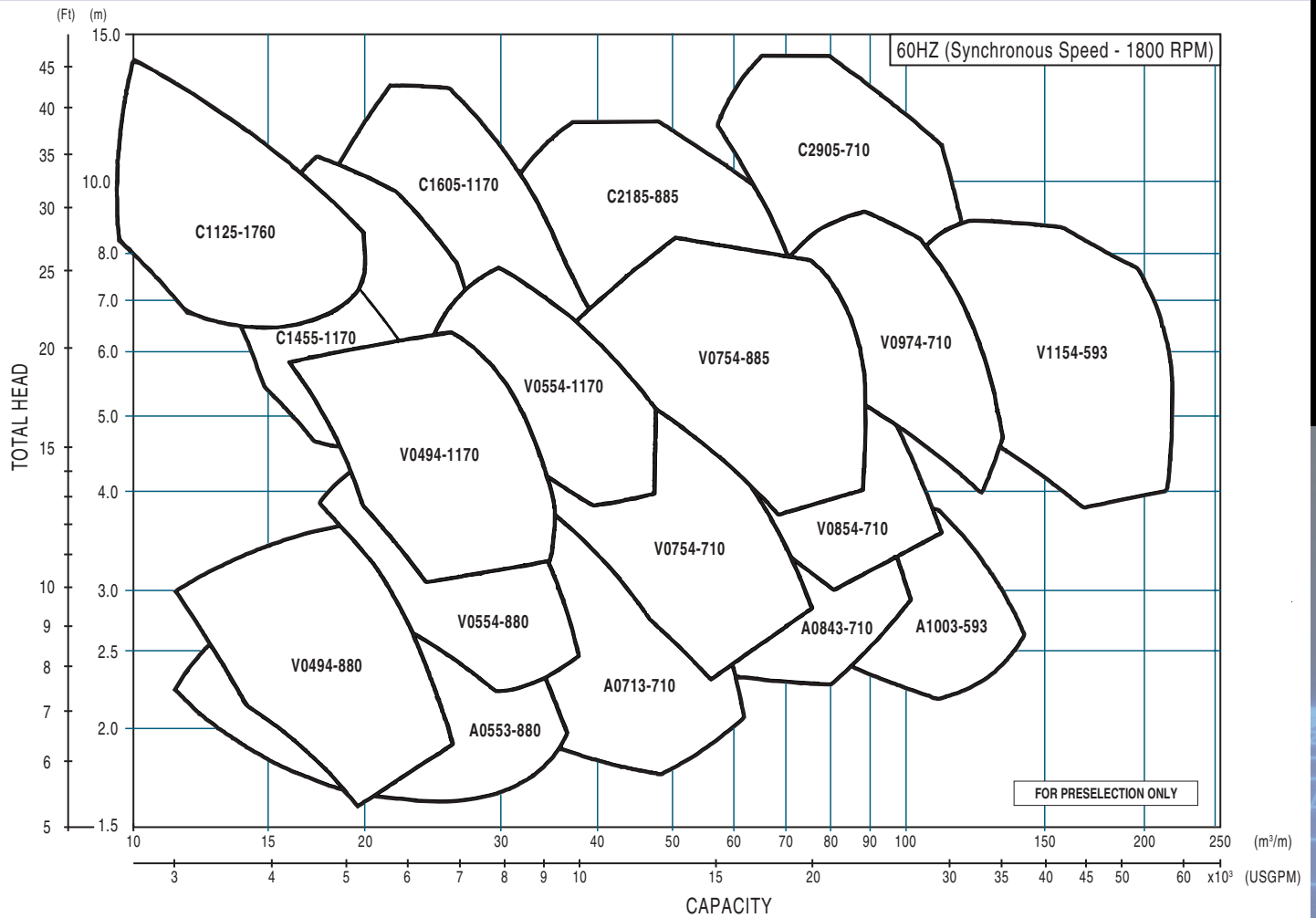
021	1	Impeller	Stainless	ASTM A743 CF8
021	1	Impeller	Bronze	ASTM B584 C90300

## Notes

- Mechanical Seal Shaft Sleeve is Stainless Steel.
- Other materials available, consult EBARA.

# Submersible Propeller Pump

## DSZ3 selection chart



**EBARA International Corporation**

Standard Pump Division

1651 Cedar Line Drive • Rock Hill, SC 29730 • 803 327 5005 • 803 327 5097 • info@pumpsebara.com • [www.pumpsebara.com](http://www.pumpsebara.com)

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