



## BSW SERIES



### Submersible Solids Handling Pumps

Designed to handle up to 3" solids, slurry and stringy material

- AG waste
- Slurry transfer
- Tailwater recovery and reuse

#### Key Features

- 4" Flanged discharge size
- Flows up to 1000 gpm
- Pressures up to 70 feet TDH
- Continuous duty motor
- Stainless steel wear ring
- 100,000 Hour bearing life



**RELAX,**  
IT'S A BERKELEY

# SUBMERSIBLE SOLIDS HANDLING PUMPS

## Construction Features

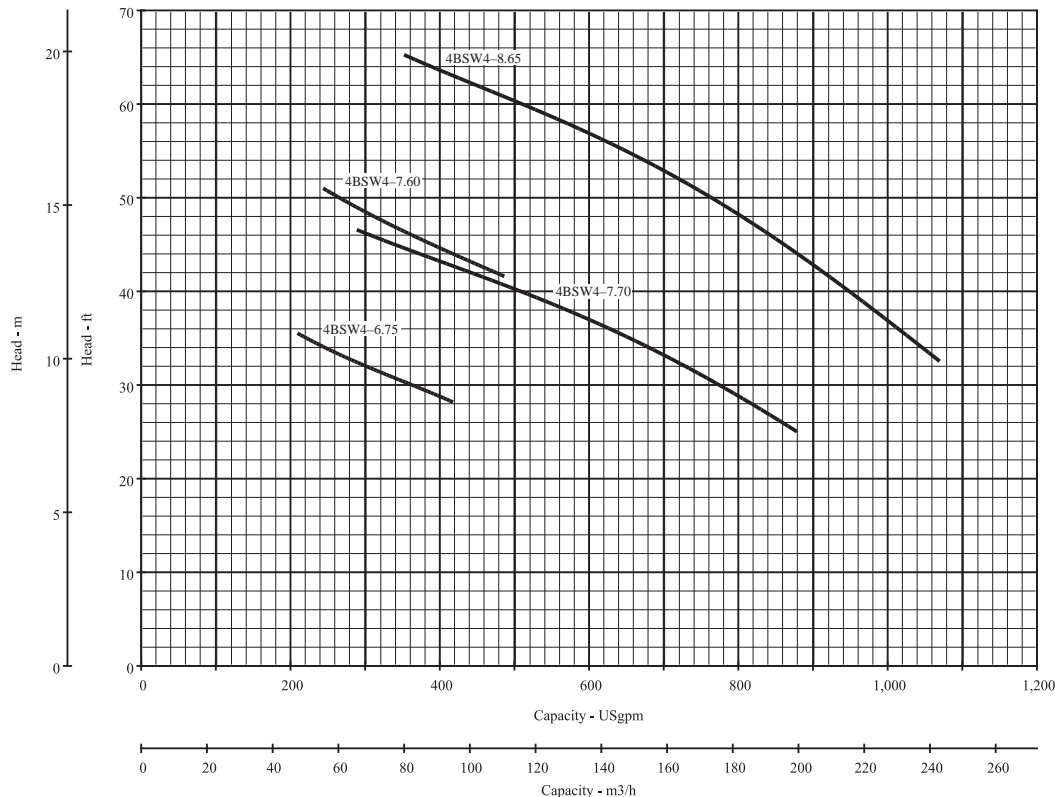
- Moisture detector detects moisture entering seal cavity and transmits signal to controller
- Continuous duty motor for outstanding reliability
- Stainless steel wear ring – more resistant to abrasives
- 100,000 Hour bearing life ensures long pump life
- A heavy cast iron motor frame houses the silicon steel laminations of the stator and a reliable die-cast rotor in a high efficiency motor design
- High-quality one piece shaft
- Two separate mechanical seals protect the motor from the pumpage for added reliability
- Impellers have blunt, well-rounded leading edges and a thick hydro-foil shape. Impellers are a two-vane design to pass large solids and stringy material
- Electrical power and control cable assemblies are epoxy sealed at the motor's entry point
- Automatic resetting thermostats are imbedded in the motor windings

- A power and control cable terminal board ensures positive wire connections and provides an additional seal between hostile environment and motor windings

## MATERIALS OF CONSTRUCTION

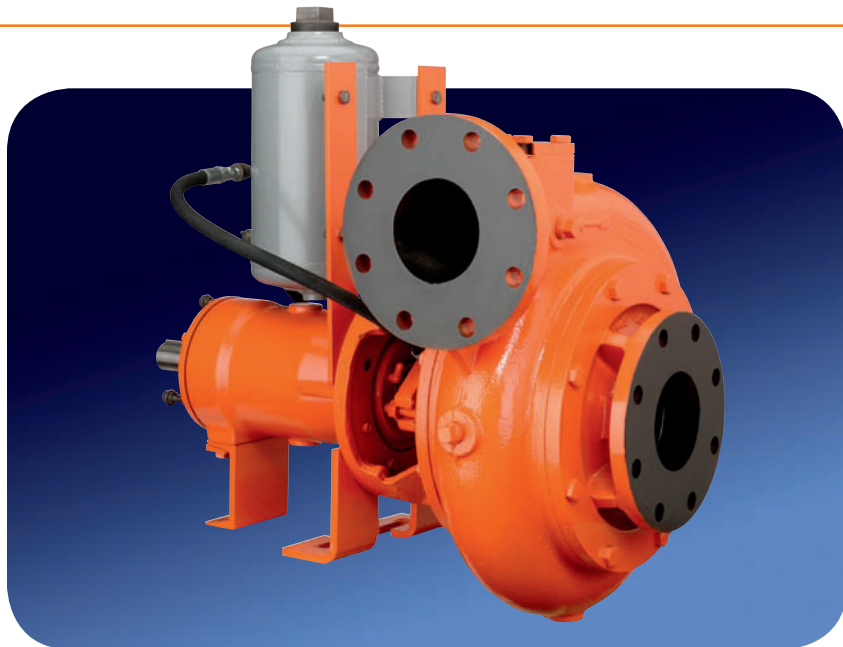
Part Name	Common Material	Specification
Volute	Cast Iron	A48-CL30
Impeller	Cast Iron	A48-CL30
Shaft	Steel	A311, Class B, Grade 1141 or 1144 (3)
Sleeve, shaft	Stainless Steel	A743 GR CA-40, (MOD) (9)
Fronthead	Cast Iron	A48-CL30
Gasket, volute	Tag Board	F104
Wear ring, fronthead	Stainless Steel	A743 GR CA-40, (MOD 410-484 Brinell)

## PERFORMANCE CURVES





## BSD SERIES



### Dry Pit Solids Handling Pumps

Designed to handle  
up to 3" solids,  
sludge and stringy  
material

- AG wastewater
- Water reuse
- Dewatering
- Irrigation



### Key Features

- Discharge sizes from 4" to 8"
- Flows up to 5300 gpm
- Pressures up to 350 feet TDH
- Dry run standard
- Double mechanical seal
- Impeller adjustment standard to maintain performance
- Stainless steel wear ring

**RELAX**  
IT'S A BERKELEY

# BSD SERIES DRY PIT SOLIDS HANDLING PUMPS

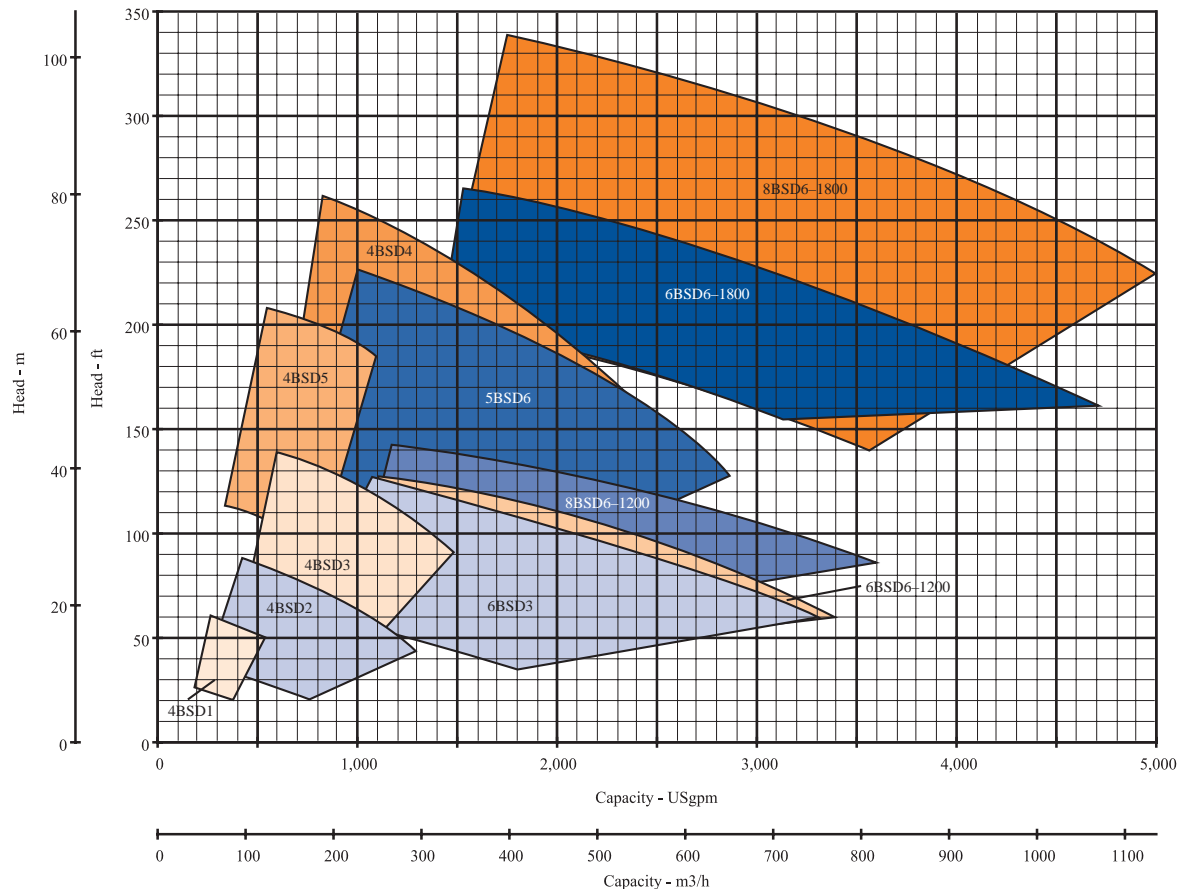
## Construction Features

- Dry run standard to protect against damage to the seals
- Double seal prevent leakage between shaft and sleeve
- Stainless steel wear ring is more resistant to abrasives
- Jack bolts allow for external impeller adjustment to maintain pump performance and efficiency
- Available in efficient radial flow, non-clog two-vane impellers with blunt, well-rounded leading vanes and a thick hydrofoil shape to pass large solids and long stringy material.
- Heavy-duty, high strength manganese steel shafts are rated for 100,000 psi tensile strength and 75,000 psi yield strength.
- One-piece, thick-walled circular volute has rounded fluid passages designed to transport any size solid that passes through the impeller.
- Heavy-duty cast iron bearing frames are machined to assure accurate alignment and long bearing life.

## MATERIALS OF CONSTRUCTION

Part Name	Common Material	Specification
Volute	Cast Iron	A48-CL30
Impeller	Cast Iron	A48-CL30
Shaft	Steel	A311, Class B, Grade 1141 or 1144 (3)
Sleeve, shaft	Stainless Steel	A743 GR CA-40, (MOD) (9)
Fronthead	Cast Iron	A48-CL30
Backhead	Cast Iron	A48-CL30
Housing, radial bearing	Cast Iron	A48-CL30
Gasket, volute	Tag Board	F104
Wear ring, fronthead	Stainless Steel	A743 GR CA-40, (MOD) (9)

## PERFORMANCE CURVES



**RELAX**  
IT'S A BERKELEY