



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



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SUBMERSIBLE SOLIDS HANDLING PUMPS

Construction Features

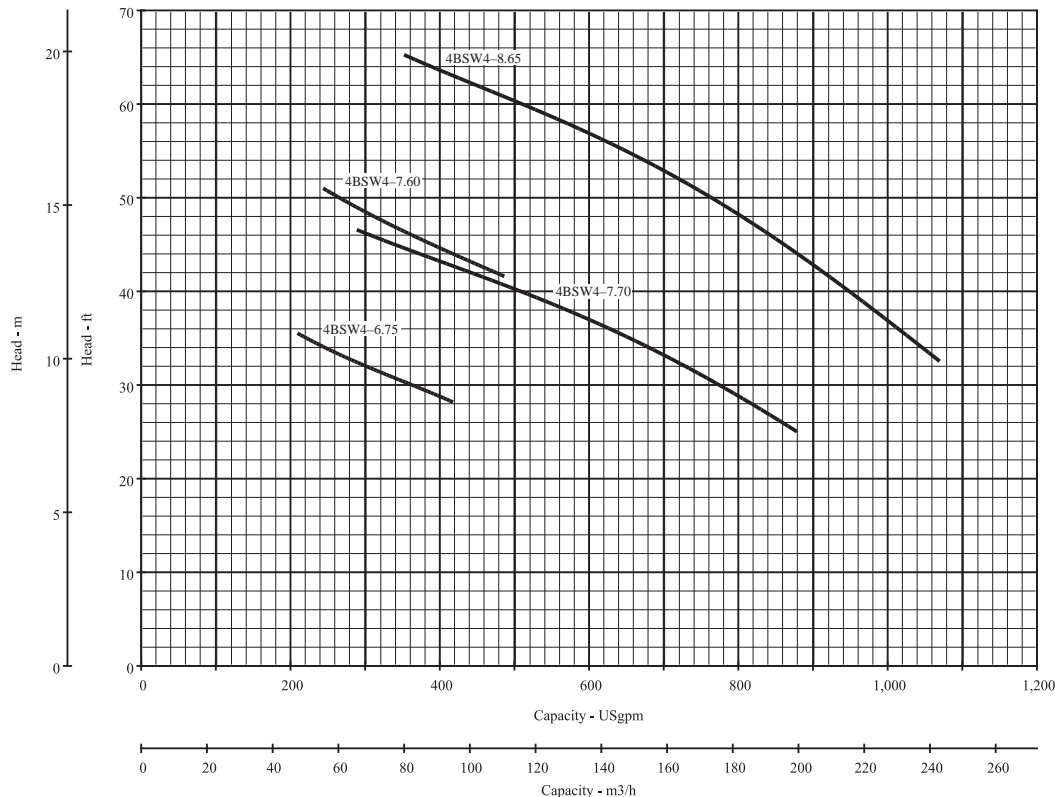
- Moisture detector detects moisture entering seal cavity and transmits signal to controller
- Continuous duty motor for outstanding reliability
- Stainless steel wear ring – more resistant to abrasives
- 100,000 Hour bearing life ensures long pump life
- A heavy cast iron motor frame houses the silicon 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

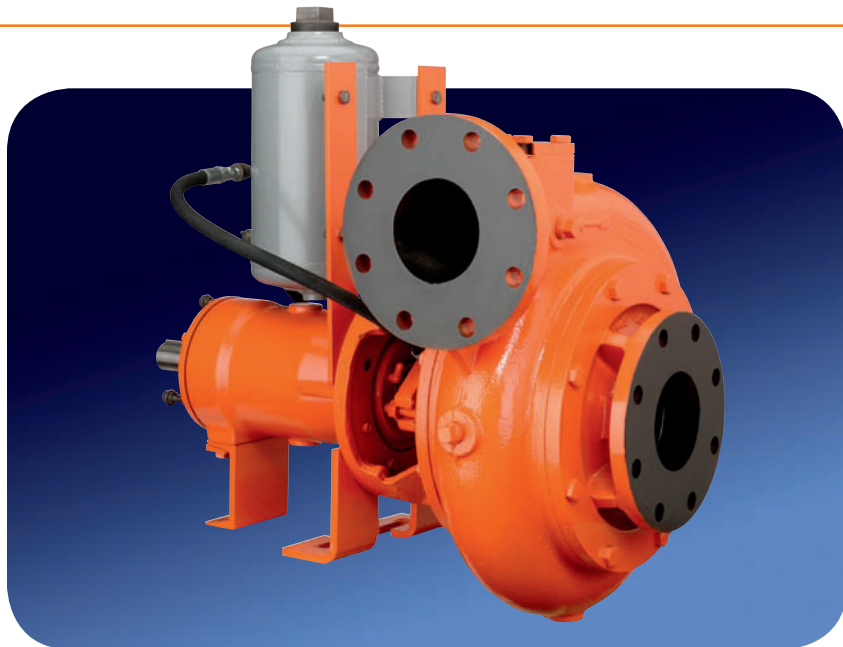
Part Name	Common Material	Specification
Volute	Cast Iron	A48-CL30
Impeller	Cast Iron	A48-CL30
Shaft	Steel	A311, Class B, Grade 1141 or 1144 (3)
Sleeve, shaft	Stainless Steel	A743 GR CA-40, (MOD) (9)
Fronthead	Cast Iron	A48-CL30
Gasket, volute	Tag Board	F104
Wear ring, fronthead	Stainless Steel	A743 GR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

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BSD SERIES DRY PIT SOLIDS HANDLING PUMPS

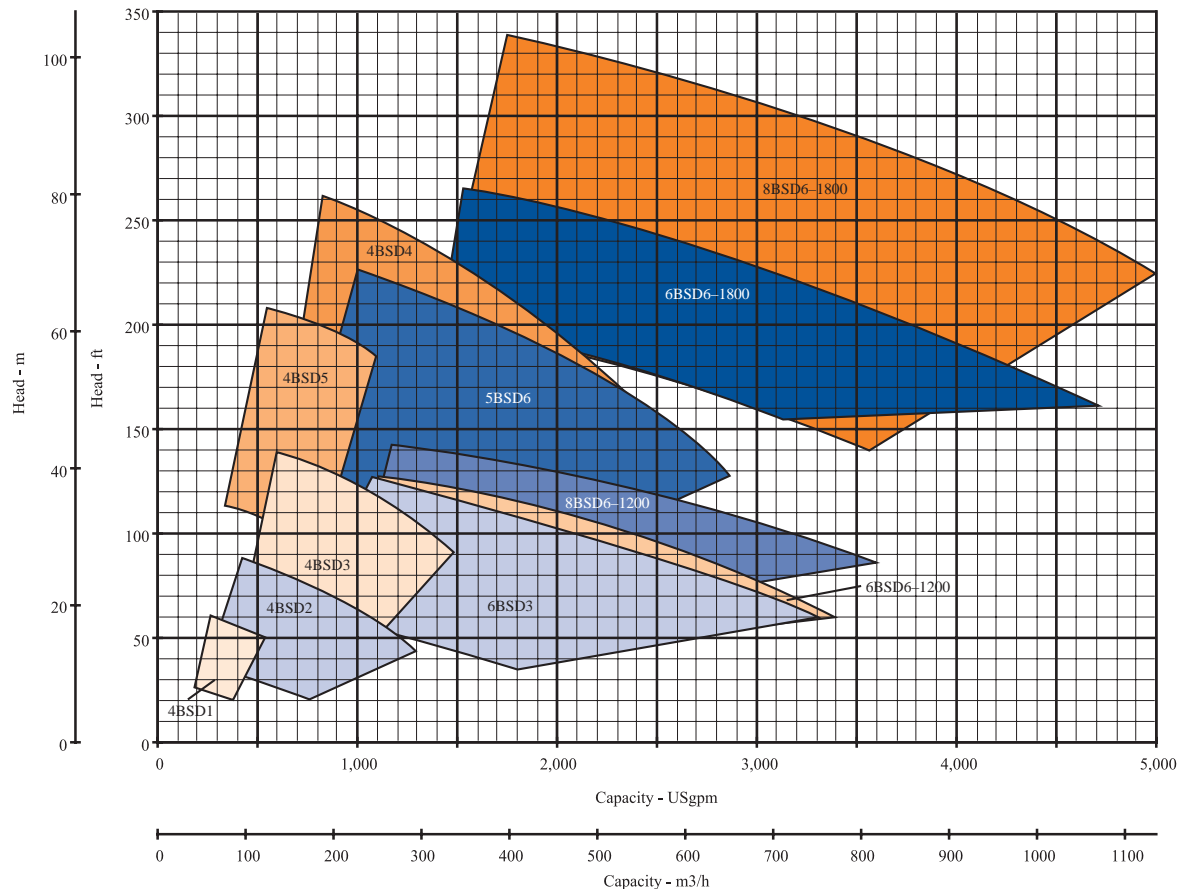
Construction Features

- 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



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