

SOLIDS *Handling*

SH Submersible Solids Handling Pumps utilize specifically designed impellers for outstanding clogging resistance as well as high efficiency ratings. The combination of Inverter Duty Rated motors make them ideal for variable speed operation, and the external coating system provides corrosion resistance designed specifically for wet well applications. Motors range from 7.5 to 60 HP.

Designed for Solids Handling with Less Clogging

The SH utilizes vortex, mono-vane, or dual vane impellers:

- Full 3" spherical solids handling capability
- Easily handles stringy solids
- Pump-out vanes protect the mechanical seal area

Designed for Variable Frequency Drive

The SH is optimized for variable speed drive:

- Steep curves provide straight-forward flow control
- Inverter Duty Rated Premium Efficient motors per NEMA MG1 Part 31 for dependable VFD operation

Designed for Longer Mechanical Seal Life

The SH provides features to extend seal life:

- Grit-resistant silicon carbide or tungsten carbide pump-end seal faces
- Heavy Shaft design to minimize deflection
- Standard, non-proprietary seals - readily available



Designed for Longer Bearing Life

The SH bearing system is optimized for bearing life:

- Heavy-Duty shaft reduces deflection loads
- Oil lubrication provides superior life compared to grease
- Bearing ratings of 50,000 hours at minimum flow (2.0 fps)

Designed for Tough Wet Well Environments

The SH uses components and coating systems to provide outstanding corrosion resistance:

- Two coats of DuPont Corlar[®] modified polyamide epoxy provides outstanding external corrosion protection
- The pump shaft, all fasteners and the large lifting bail are corrosion-resistant stainless steel for long life



BARNES®

208-230/460-575 V Selection Via Cord & Plug (Up to 20 HP) No integral wiring changes required (only available on SHV and SHM)

1.2 service factor Inverter Duty Rated. Class F system with Class H magnet wire.

Pressed stator provides greater rigidity for better seal life and optimal heat transfer

Smooth castings for easy washdown

Large shaft diameter reduces deflection for longer seal life

High capacity bearings to optimize life; 50,000 Hour life at 2 fps flow

Moisture Detection Probe alerts pending seal problems before water can enter motor

Slotted discharge for 4" ANSI or 100mm ISO flanges

Optional moveable adapters to match Barnes and competitor base elbows (not shown) both 4 inch and 100mm metric

Large corrosion resistant stainless steel lifting bail

Optional Class I Group C&D Div. 1 explosion-proof

Oil-filled motor for optimal motor cooling and maximum bearing life

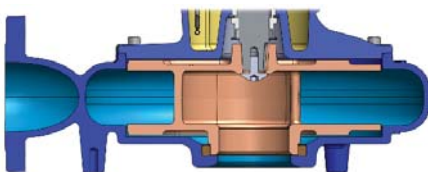
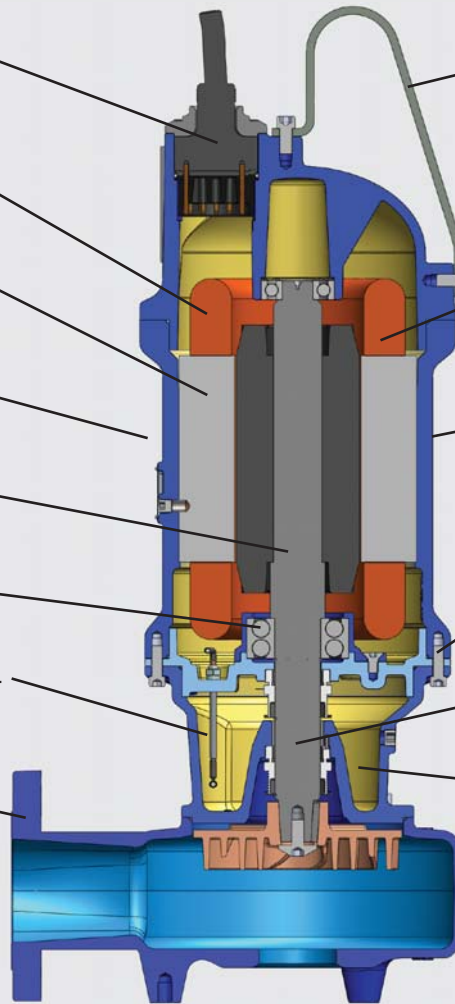
2 coats of DuPont Corlar® epoxy coating

Stainless steel hardware for corrosion resistance

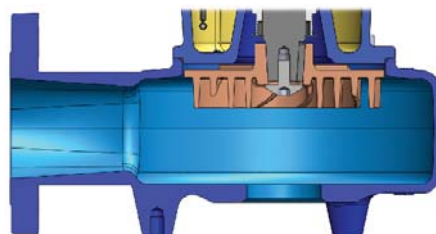
Tapered, keyed shaft reduces vibration for increased seal life

Large capacity seal chamber with moisture detector for cool-running seals

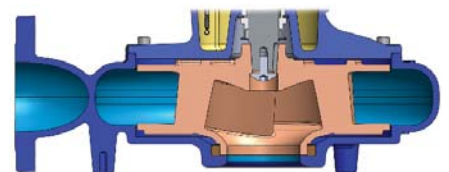
Optional bolt-on feet for free-standing installations (not shown)



SHM - Mono-vane Impeller optimizes solids handling with high efficiency



SHV - Vortex Impeller has superior solids handling capabilities for sewage and stringy solids



SHD - Dual-vane Impeller is a high efficiency configuration that handles 3" solids

CRANE

A Crane Co. Company

PUMPS & SYSTEMS

Crane Pumps & Systems

420 Third Street
Piqua, Ohio 45356
(937) 778-8947
Fax (937) 773-7157
www.cranepumps.com

Crane Pumps & Systems Canada

83 West Drive
Brampton, Ont. Canada L6T 2J6
(905) 457-6223
Fax (905) 457-2650

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