Solids Handling Vortex
Hydraulic Motor Driven

Submersible Pump

Model HSV4A31-HYD

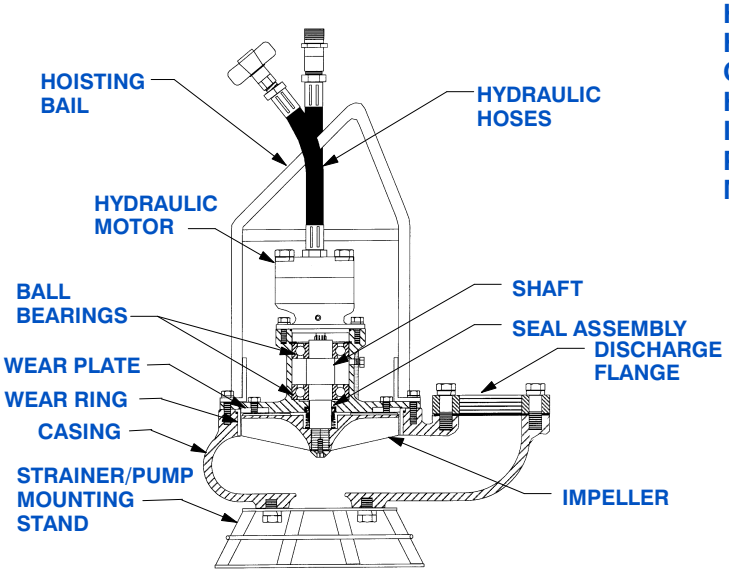
Size 4”

PUMP SPECIFICATIONS

Casing: Ductile Iron 65-45-12.
Maximum Operating Pressure 114 psi (786 kPa).*
Impeller: Six Vane Vortex, Stainless Steel CD4MCu.
Handles 3 1/2” (88,9 mm) Diameter Solids.
Wear Plate: Stainless Steel 316.
Wear Ring: Stainless Steel 316.
Bearing Housing: Ductile Iron 65-45-12.
Hydraulic Motor Housing: Gray Iron.
Shaft: Stainless Steel 17-4PH.
Upper and Lower Bearings: Open Single Row Ball.
Bearing Lubrication: SAE 30 Non-Detergent Oil.
Discharge Flange: Ductile Iron 65-45-12.
O-Rings: Buna-N.
Wetted Hardware: Stainless Steel 304.
Standard Equipment:
Strainer/Pump Mounting Stand.
Hoisting Bail.
Hydraulic Motor Input And Output Hoses.
Maximum Temperature of Liquid Pumped,170°F (77°C).*
(Hydraulic Oil to motor should be cooled)
Optional Equipment:
1.00” (25,4mm) Hydraulic Hose w/Quick Disconnect Fittings.**

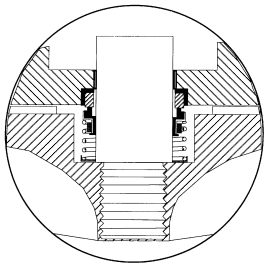
* *Consult Factory for Applications Exceeding Maximum Pressure and/or Temperature Indicated.*

** *Hydraulic Hose Available in 50 Foot (15,2 Meter) Increments: Maximum Recommended Length 150 Feet (45,7 Meters), Specify Length at Time of Order.*



HYDRAULIC MOTOR SPECIFICATIONS

Hydraulic Motor: Variable Speed Gear.
Hose Ports: 1.00” (25,4 mm) NPT.
Operating Pressure: Max. 2900 psi (19995 kPa).
Hydraulic Oil: 214-320 ssu @ 100°F (64°C).
Input Flow: Variable, 15-30 GPM (53-106 LPM).
Power Source: Any Open Center Hydraulic System.
Minimum Power Requirement: 60 H.P.



SEAL DETAIL

Mechanical, Oil Lubricated. Carbon Rotating Face, Ceramic Stationary Face. Buna-N Elastomers. Stainless Steel 304 Cage and Spring.

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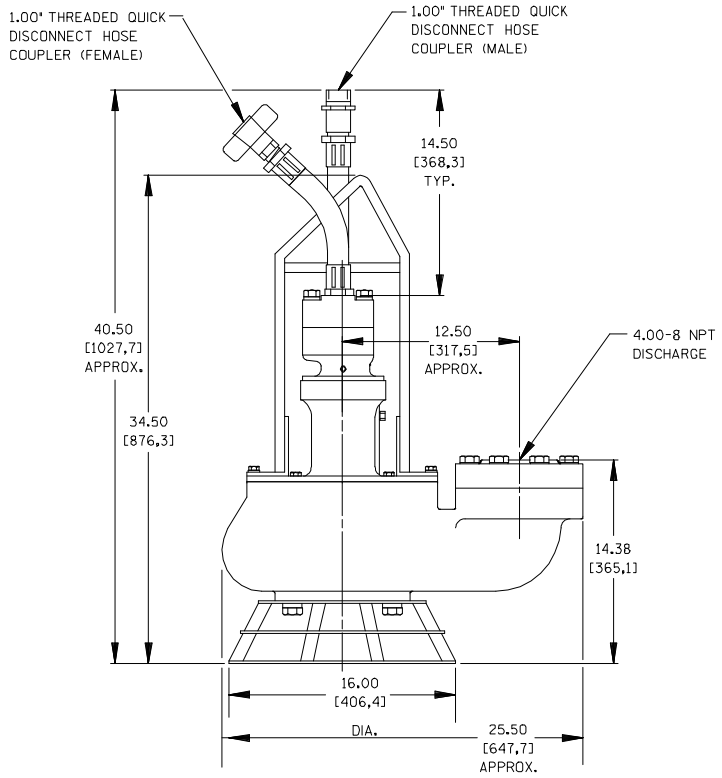
Specification Data

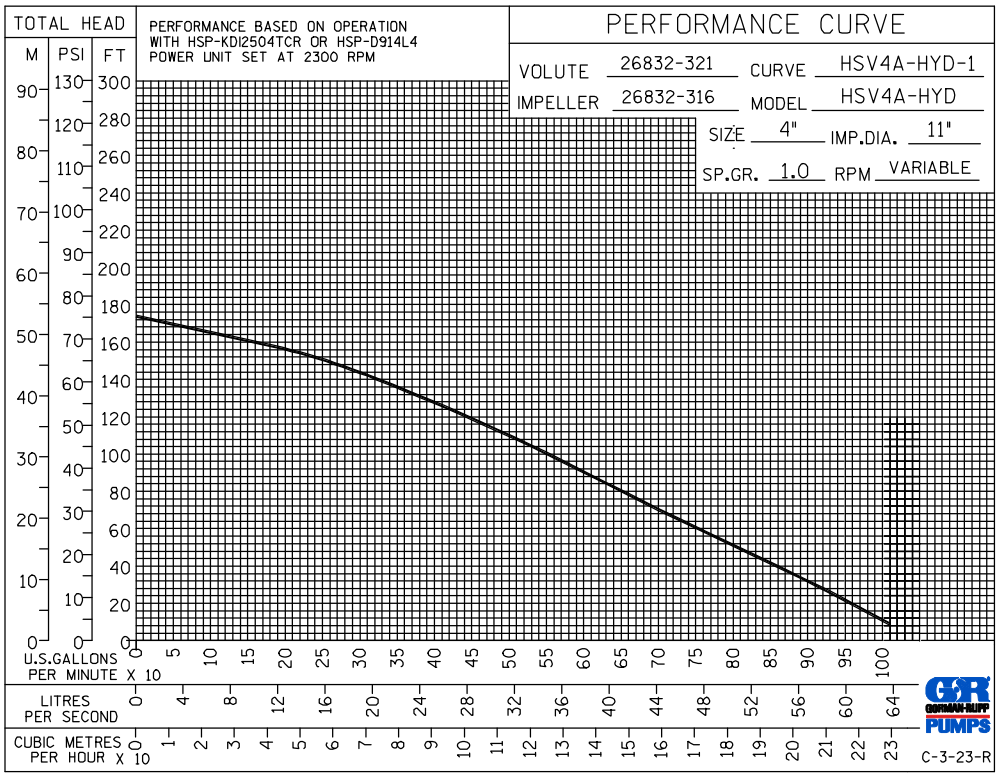
SECTION 140, PAGE 800

APPROXIMATE
DIMENSIONS and WEIGHTS

NET WEIGHT: 312 LBS. (142 KG.)
SHIPPING WEIGHT: 352 LBS. (16 KG.)
EXPORT CRATE: 12.7 CU. FT. (0.36 CU. M.)



DIMENSIONS:
INCHES
[MILLIMETERS]



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