Solids Handling Vortex
Hydraulic Motor Driven

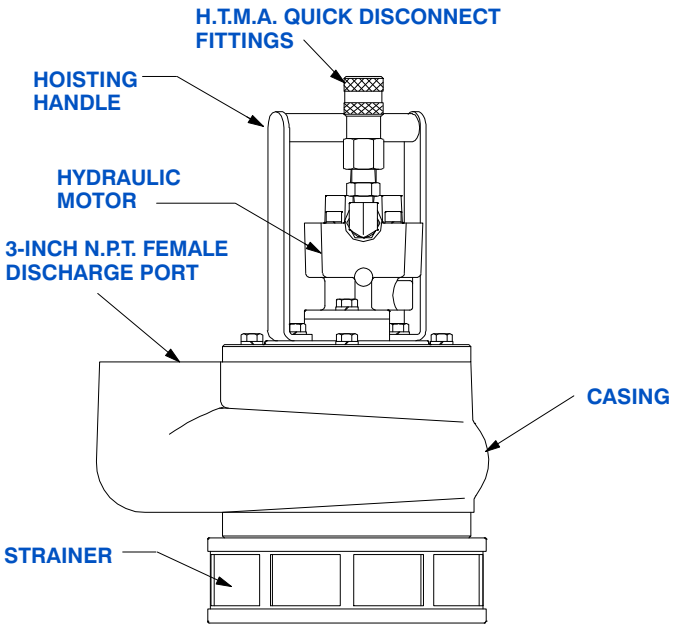
Submersible Pump
Models HSV3A1-HYD *and* HSV3B31-HYD
Size 3”

PUMP SPECIFICATIONS

Casing: **HSV3A1-HYD** Aluminum 356-T6 .
Maximum Operating Pressure 46 psi (317 kPa).*
HSV3B31-HYD Ductile Iron 65-45-12.
Maximum Operating Pressure 37 psi (255 kPa).*
Impeller: Six Vane Vortex, CA6NM Stainless Steel.
Handles $2^1/_2$” (64 mm) Diameter Spherical Solids.
Wear Ring: Ductile Iron 65-45-12.
Hydraulic Motor Housing: Die Cast Aluminum.
Shaft: 4140 Alloy Steel.
Motor Housing Bearings: Needle Type.
Bearing Lubrication: SAE 30 Non-Detergent Oil.
O-Rings: Buna-N.
Hardware: Stainless Steel.
Standard Equipment: Trash Strainer. Hoisting Handle. 1/2” (12,7 mm) Hydraulic Tool Manufacturer’s Association (H.T.M.A.) Quick Disconnect Fittings for Hydraulic Motor Inlet and Return.
Optional Equipment: Water Strainer with 3/8” (9,6mm) opening. 1/2” (12,7 mm) Hydraulic Hoses with H.T.M.A. Quick Disconnect Fittings for Hydraulic Motor Inlet and Return. Maximum Temperature of Liquid Pumped,140°F (60°C).*

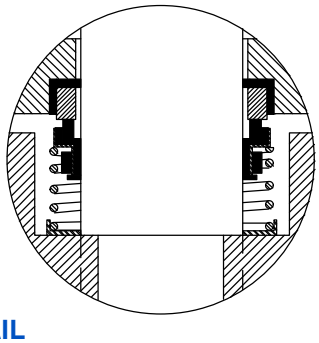
* *Consult Factory for Applications Exceeding Maximum Pressure and/or Temperature Indicated.*

** *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: Fixed Displacement Gear.
Hose Ports: 1/2” (12,7 mm) NPT.
Operating Pressure: Max. 2500 psi (17237 kPa).
Hydraulic Oil: 214-320 ssu @ 100°F (64°C).
Input Flow: Variable, 4-8 GPM (900-1800 LPH).
Power Source: Open Center Hydraulic System.
Recommended Hydraulic Unit: Gorman-Rupp Models HSP-GX390 or HSP-L100AE.



SEAL DETAIL

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

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Specification Data

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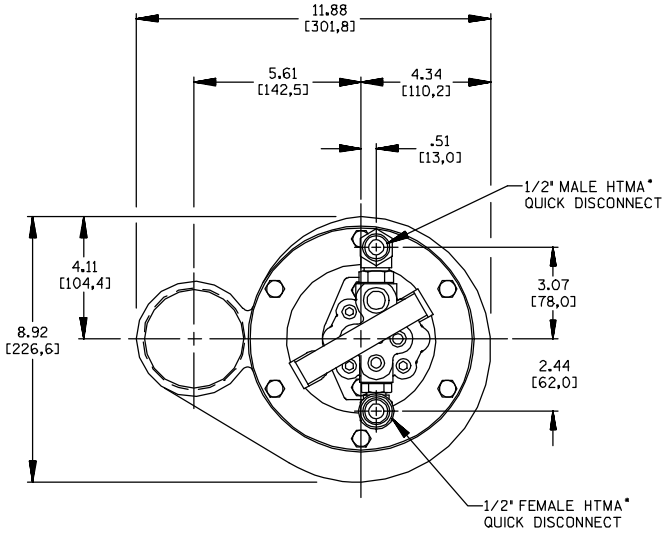
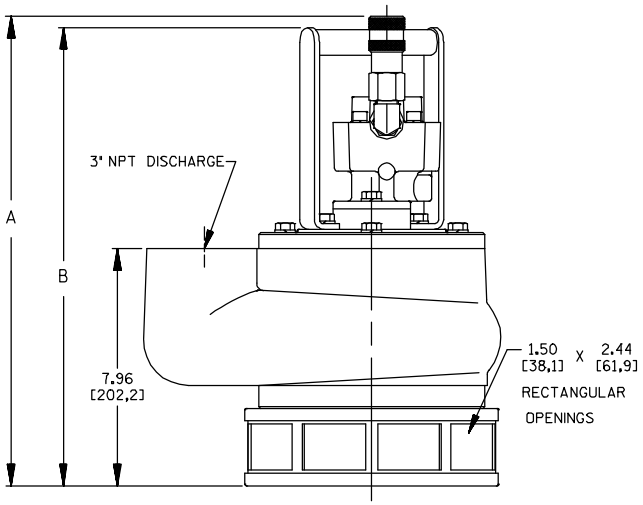
APPROXIMATE DIMENSIONS and WEIGHTS

	HSV3A1-HYD	HSV3B31-HYD
PUMP NET WEIGHT:	**28 LBS. (13 KGS.)**	**59 LBS. (27 KGS.)**
SHIPPING NET WEIGHT:	**32 LBS. (15 KGS.)**	**64 LBS. (29 KGS.)**
EXPORT CRATE SIZE:	**2.2 CU. FT. (0,06 CU. M.)**	



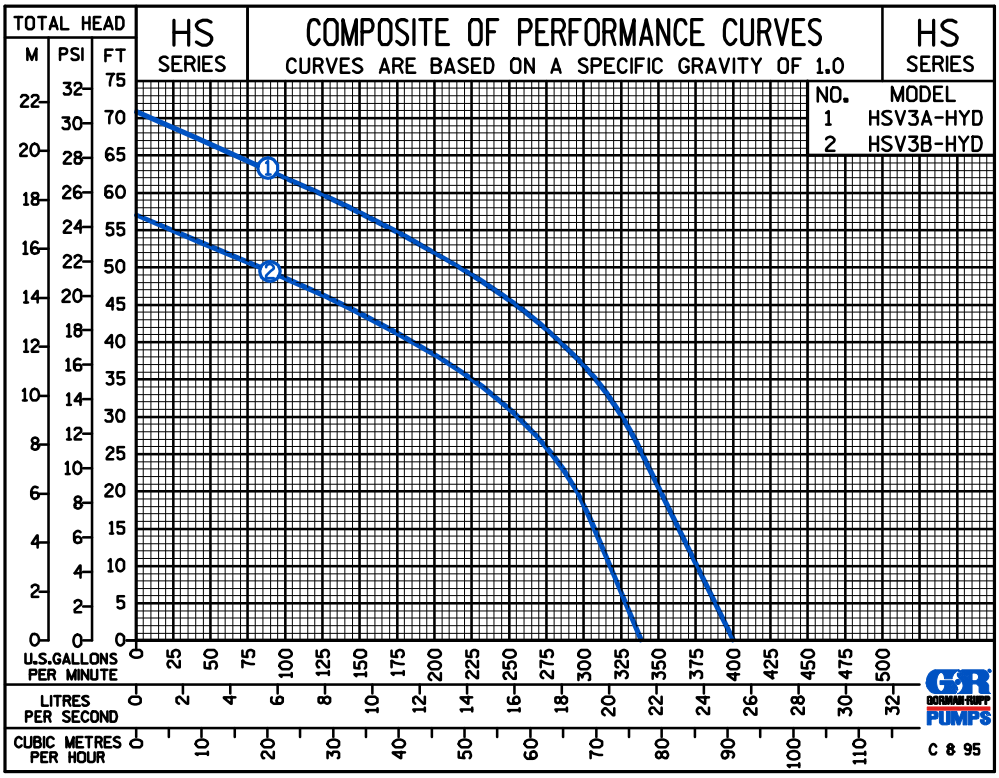


MODEL	A	B
HSV3A1-HYD	14.75 [374,7]	14.38 [375,3]
HSV3B31-HYD	15.75 [400,1]	15.38 [390,7]

HSV3B31-HYD SHOWN

DIMENSIONS:
INCHES
[MILLIMETERS]

* HYDRAULIC TOOL MANUFACTURER'S ASSOCIATION.



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Specifications Subject to Change Without Notice

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