

WEMCO-HIDROSTAL

Screw Centrifugal Pumps

Excellent
Power & Industrial
Solutions



Fish Pumping Applications



Springer Pumps, LLC

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WEMCO®-Hidrostal® Fish Pumps

Designed specifically for the fishing industry, Hidrostal's unique enclosed screw centrifugal impeller pump with its large, open passageways, assures stress-free, efficient, and non-damaging fish transport. The Hidrostal pump is ideal for pumping live fish with a very high survival rate.

- **Easy Installation**

Pump can be installed in horizontal, vertical, or submersible systems.

- **Wide Range of Pumps**

A wide range of pump sizes are offered for pumping different volumes and types of fish.

- **Dependable Operation**

New design concepts assure maintenance-free service.

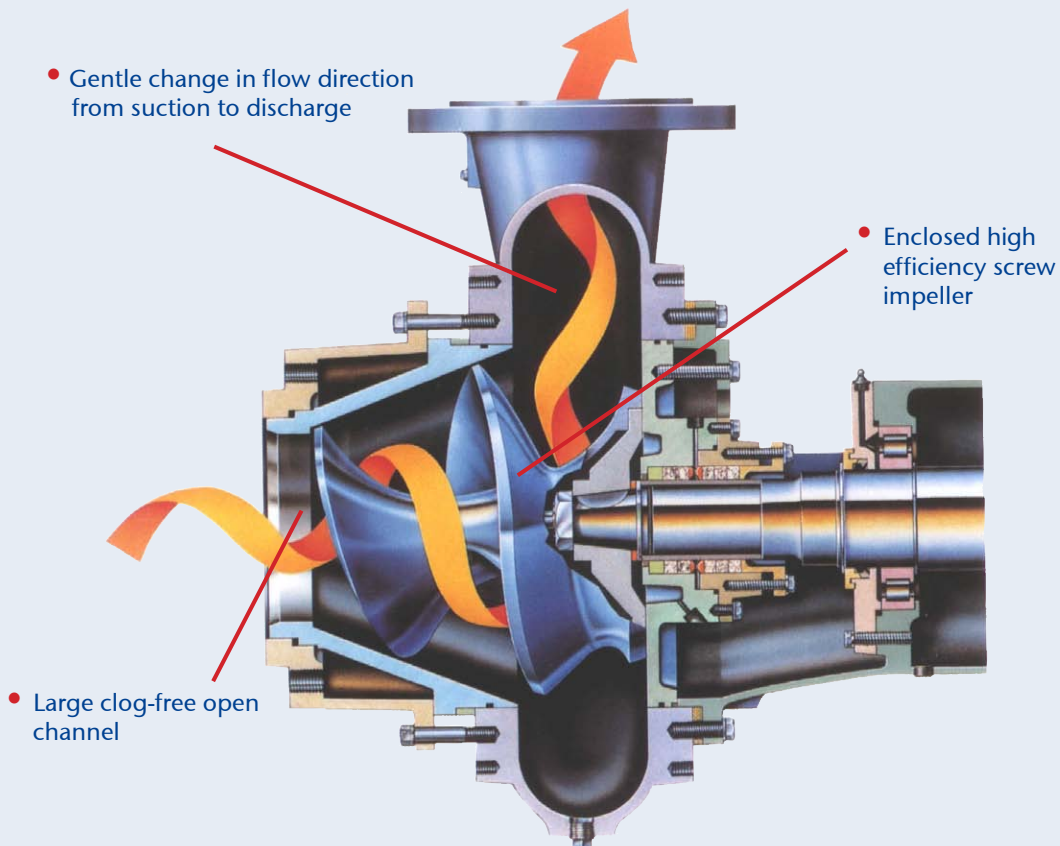
- **Size Range**

D4K, the smallest unit, can pump 300 GPM of fish and water at 22 feet of head with 97% plus survival rate.

N36DA, Hidrostal's largest unit, can pump in excess of 50,000 GPM of fish and water at 22 feet of head with 97% plus survival rate.

Total pump range is designed to quickly move high volumes of fish without harm.

WEMCO®-Hidrostal® Pumps Offer Trouble-Free Operation



WEMCO®-Hidrostal® Pumps Are Designed For Profit

Exclusive Features	Customer Benefits
<ul style="list-style-type: none"> Advanced hydraulic design concept using a hidro-helicoidal centrifugal impeller. 	<ul style="list-style-type: none"> Larger size fish can be pumped by Hidrostal when using pump sizes comparable to the competition. Fish can be handled without loss or damage.
<ul style="list-style-type: none"> Open channel design allows passage of large fish and also provides continuous non-clog operation. 	<ul style="list-style-type: none"> Fish larvae handled without loss or damage. Minimizes down time.
<ul style="list-style-type: none"> Enclosed design impeller prevents fish from contacting suction cover. 	<ul style="list-style-type: none"> Prevents damage to both small and large fish. Immersible design eliminates need for priming.
<ul style="list-style-type: none"> High efficiency design reduces turbulence and energy consumption. 	<ul style="list-style-type: none"> Lowers cost of transporting fish.
<ul style="list-style-type: none"> Unique bearing frame with tandem mechanical seal requires no seal flushwater. 	<ul style="list-style-type: none"> Pump can run dry, no flush water required.
<ul style="list-style-type: none"> 300 GPM to 50,000 GPM. 	<ul style="list-style-type: none"> Many sizes to choose from.



Pump installation at California Irrigation District.



Close-up view showing pump, casing area and piping connection.

Technical Data

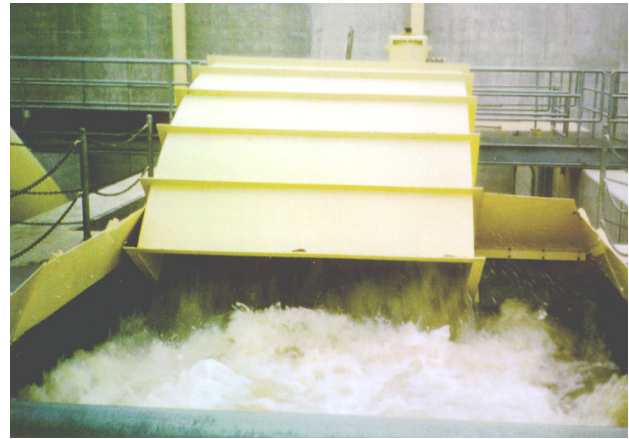
Material Specifications

Casing: Axial suction and radial discharge especially designed to allow passage of fish without damage. Entire casing is cast iron, bronze, or 316 stainless steel.

Impeller: Enclosed screw centrifugal, single open channel uniform acceleration design.

Bearing Frame: Heavy duty shaft of AISI 416 steel is supported by two sets of grease lubricated bearings designed to carry both radial and axial loads for 50,000 hours.

Seal Chamber: Oil or water lubricated mechanical seals.



Red Bluff, California, pump discharges into fish screen at 45,000 GPM

Customer and Application Information

Customer	Start Date	Equipment	Application
Southern California Irrigation District S/O DW03378	2002	M28 DA 640 RPM	Fish screening for irrigation
State Department of Fish & Game S/O DW03140	2001	L20 V 590 RPM	Fish sampling
California Water District S/O DW02995	2001	H12V-SS-H4BZ Immersible	Steelhead fish pumping
Western Sea Food S/O DW03087 & DW03342	2000	E4F 850-1000 RPM	Shrimp harvesting
Bureau of Reclamation S/O DW01604	1998	I16V 316 Stainless Steel 470-525 RPM 9000 GPM@12'-19' TDH	Fish by-pass
Bureau of Reclamation S/O 11698	1996	N36 DA, H 350-430 RPM 44,000 GPM @ 23' TDH	Fish Diversion Research
Power Plant Upstate New York S/O DW00227	1996	M28 DA	Power plant fish return
Texas Power Plant S/O 11303	1992	H6F-M-HE4BC CL 585 RPM	Lake water return - fish 12"-18"
Bureau of Reclamation, S/O 11407	1992	E4F-M-EK3R8 1150 RPM	Fish eggs
Florida Shrimp Producer S/O 10203	1984	L12F-L4S CI	Shrimp
Massachusetts Power Plant S/O 10213	1983	L12F-I2S Bronze 375 RPM	Power plant fish by-pass
Florida Power Plant S/O 10133	1982	L12F-I1SS 350 RPM	Power plant fish by-pass

Represented by:



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