



50 Hz Solids-Handling Submersible Pumps



UNDERSTANDING MODEL NUMBERS



JW	V	4	07	- 4P
Family	Impeller	Pump	Port	Motor
Name	Type	Type	Size	Speed

IMPELLER TYPE	V	K	J	L	R	U	G
Vortex	•						
Channel		•	•	•	•	•	•
Vanes		1	2	3	5	3	5
Shrouds	1	2	2	2	2	1	1

PUMP TYPE	2	3	4	5
Straight-Vane Vortex	•	•	•	
Staggerwing [®] Vortex				•
Channel	•		•	

MOTOR SPEED	2P	4P	6P	8P		
RPM	3000	1500	1000	750		

PORT SIZE	7	8	9	10	12	20	21	22	23	24	25	26	28	31
Suction	80	80	80	100	100	80	100	100	150	150	150	200	250	300
Discharge	80	80	100	100	100	80	80	100	100	125	150	150	200	300

PUMP SELECTION

With the wide range of capacities and heads involved in sewage pumping, and the different liquids and viscosities encountered, our Sales Engineers are fully qualified to assist with pump selection to suit your specific application. JW Series pumps are designed to handle suspended solids and stringy material without choking.

SEWAGE PUMP IMPELLERS

VORTEX STAGGERWING® TECHNOLOGY

JW Series vortex pump models feature the patent-pending Staggerwing impeller. The impeller allows for higher pump efficiency and the ability to pass 75mm spherical solids.

CHANNEL IMPELLER

JW Series channel pumps use impellers designed with smooth leading edges and large clearances to prevent clogging.



SUBMERSIBLE PUMP FEATURES

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JW SERIES PUMP FEATURES

Each submersible pump incorporates a significant number of advanced design features. Together, these create a pumping system that can be relied upon to perform efficiently and with ease of installation. All pumps are tested to International standards. Pumps are available with a variety of discharge connections to provide positive location and sealing. This allows the pump to be extracted and repositioned without emptying the sump, diverting flows or dismantling piping.

Fully Protected Cable

The power supply cable, which is EPR insulated and Niplas sheathed, is fully sealed with a cable gland, providing total protection from mechanical damage. An additional resin-based sealing compound within the top cover provides further protection against the ingress of water through the cable connection.

2 Long Life Bearings

Heavy duty angular contact bearings are pre-packed with grease and sealed for long, trouble-free life.

8 Robust Drive Shaft

Magnetic Stainless Steel shaft is designed to carry all radial and axial loads.

4 Fully Protected Motor

Fully submersible, continuous duty rated, with Class F insulation. Thermostats are built into the windings for protection from overheating and can be connected to the starter if required. Motors are available in either safe area or explosion-proof (ATEX II GT3) versions.

Heat Dissipating Motor Housing

Cast Iron designated for maximum heat transfer. Available with optional media or oil circulation cooling jacket for both submersible and dry pit applications.

6 Moisture Detection Probe

Detects presence of water in the oil chamber indication deterioration of lower seal faces. Linked to a control panel, this can produce an audible or visual warning, with cut-out and change over signals if required.

Pump Casing

Manufactured in cast iron with DIN flanges.

Bual Mechanical Seals

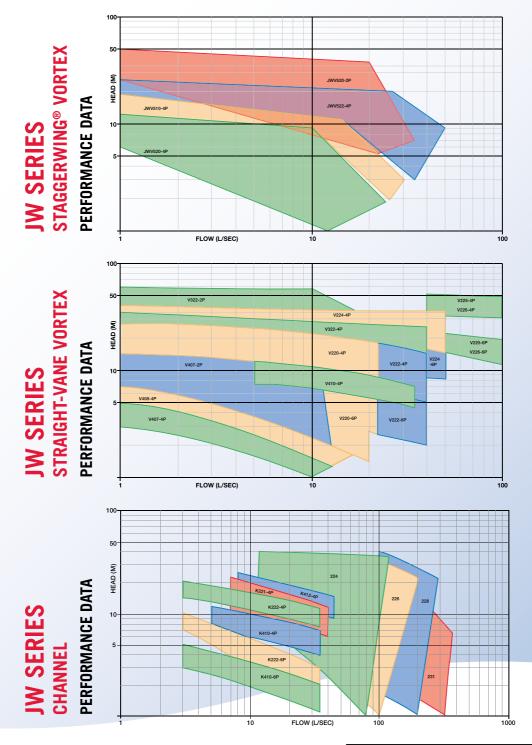
The lower seal, located between the pump and oil chamber, has solid siliconcarbide faces for longer service life. The upper seal, situated between the motor housing and oil chamber, has stainless steel-carbon faces.

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In Efficient and Durable Impellers

Vortex and channel impeller types are available. Auxiliary back vanes are incorporated to exclude abrasive particles from the seal face. Vortex impellers give excellent solids-handling capability with minimum wear. Channel impellers provide solids-handling capability and increased efficiency.

PUMP PERFORMANCE DATA



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