STAINLESS STEEL SUBMERSIBLE PUMPS

K-W™ SERIES SUBMERSIBLE BOREHOLE PUMP

KETOPUMPS.COM

KETO
GLOBAL PUMP SOLUTIONS

K-W™ ENSURES EFFICIENT CORROSION RESISTANCE AND LONG LIFE IN EVEN THE MOST DEMANDING ENVIRONMENTS

KETO PUMPS VERSATILE SOLUTIONS

Our K-W™ Series Stainless Steel Submersible Borehole Pump range offers market-leading reliability and efficiency. Made entirely of corrosion-resistant stainless steel, K-W™ pumps are available in a range of sizes and ideal for a wide variety of applications.

The K-W™ Series pumps offer state-of-the-art hydraulic design that meets high demand with the highest performance, provides long-term cost savings and maximum reliability in all applications.

TECHNICAL DATA

- **Range from:** 32 mm (1.25") to 150 mm (6")
- **Flow rates to:** 5 - 250 m^3/hr (22 – 1,100 USgpm)
- **Total head to:** 550 m (1,804 ft)

TYPICAL APPLICATIONS

- **Dewatering**
- **Water supply**
- **Agriculture**

KETO K-W™
SERIES SUBMERSIBLE BOREHOLE PUMP

- PRODUCT DATA

TYPE KEY

Example W 46 - 5 A B N

- Type range (W & J)
- Nominal flow rate in m^3/h
- Number of impellers
- First impellers with reduced diameter (A, B or C)
- Second impellers with reduced diameter (A, B or C)
- Stainless steel parts of material

CURVE CONDITIONS

- The conditions below apply to the curves shown on the following pages:

GENERAL:

- Curve tolerances according to ISO 9006, Annex A.
- The performance curves show pump performance at actual speed of standard motor range.

The speed of the motors is approximately:

- 4" motors: n = 2900 min $^{-1}$
- 6" motors: n = 2900 min $^{-1}$
- 8" to 12" motors: n = 2900 min $^{-1}$

The measurements were made with airless water at a temperature of 20°C. The curves apply to a kinematic viscosity of 1mm^2/s (1cSt). When pumping liquids with a density higher than that of water, motors with correspondingly higher outputs must be used.

- The performance curves are inclusive of possible losses such as non-return valve loss.

W A CURVES

- **Q/H:** The curves are inclusive of valve and inlet losses at the actual speed.
- **Power curve:** The curves show pump power input at the actual speed for one stage.
- Efficiency curve: p% shows pump stage efficiency.

W, J, & JH CURVES

- **Q/H:** The curves are inclusive of valve and inlet losses at the actual speed. Operation without the non-return valve will increase the actual head at nominal performance by 0.5 to 1.0m.
- **NPSH:** The curve is inclusive of suction interconnector and shows required inlet pressure.
- **Power curve:** The curves show pump power input at the actual speed for one stage.
- **Efficiency curve:** p% shows pump stage efficiency.

PUMP RANGE

TYPE	J9	J12	J15	J17	J19	J21	J24	J27	J10H	J13H	J16H	J18H
Steel: DIN 1.4301 AISI 304	•	•	•	•	•	•	•	•	•	•	•	•
Connection*	Rp 2½ (R 2½)	Rp 2½ (R 2½)	Rp 2½ (R 2½)	Rp 2½ (R 2½)	Rp 2½ (R 2½)	Rp 2½ (R 2½)	Rp 2½ (R 2½)	Rp 2½ (R 2½)	Rp 2½ (R 2½)	Rp 2½ (R 2½)	Rp 2½ (R 2½)	Rp 2½ (R 2½)

TYPE	W1A	W2A	W3A	W5A	W8A	W14A	W30	W46	W60	W77	W95	W125	W160	W215
Steel: DIN 1.4301 AISI 304	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Steel: DIN 1.4401 AISI 316	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Connection:	Rp 1¼	Rp 1¼ (R 1¼)	Rp 1¼	Rp 1½ (R 1½)	Rp 2 (R 2)	Rp 2	Rp 3 (R 3)	Rp 3 Rp 4	Rp 3 Rp 4	Rp 5	Rp 5	Rp 6	Rp 6	Rp 6
Flange Connection:											5"	5"	6"	6"

*Figure in brackets () indicate connection for pumps in sleeve

- CONSTRUCTION FEATURES

NON-RETURN VALVE

- All pumps are equipped with a reliable non-return valve which back flow in connection with pump stoppage
- Furthermore, the short closing time of the non-return means that the risk of destructive water hammer is reduced to a minimum
- The valve casing is designed for optimum hydraulic properties, to minimize the pressure loss across the valve and thus contributes to the high efficiency of the pump

BEARINGS WITH SAND CHANNELS

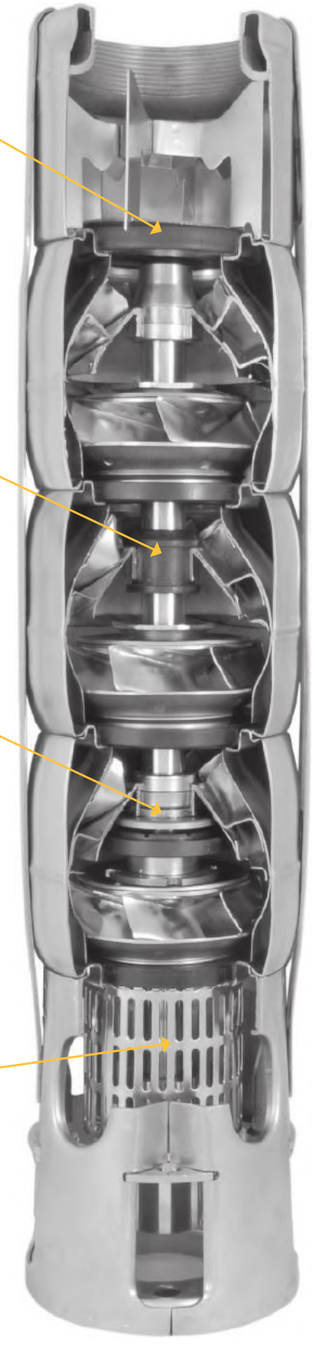
- All bearings are water-lubricated and have a squared shape enabling sand particles, if any, to leave the pump together with the pumped liquid.

STOP RING

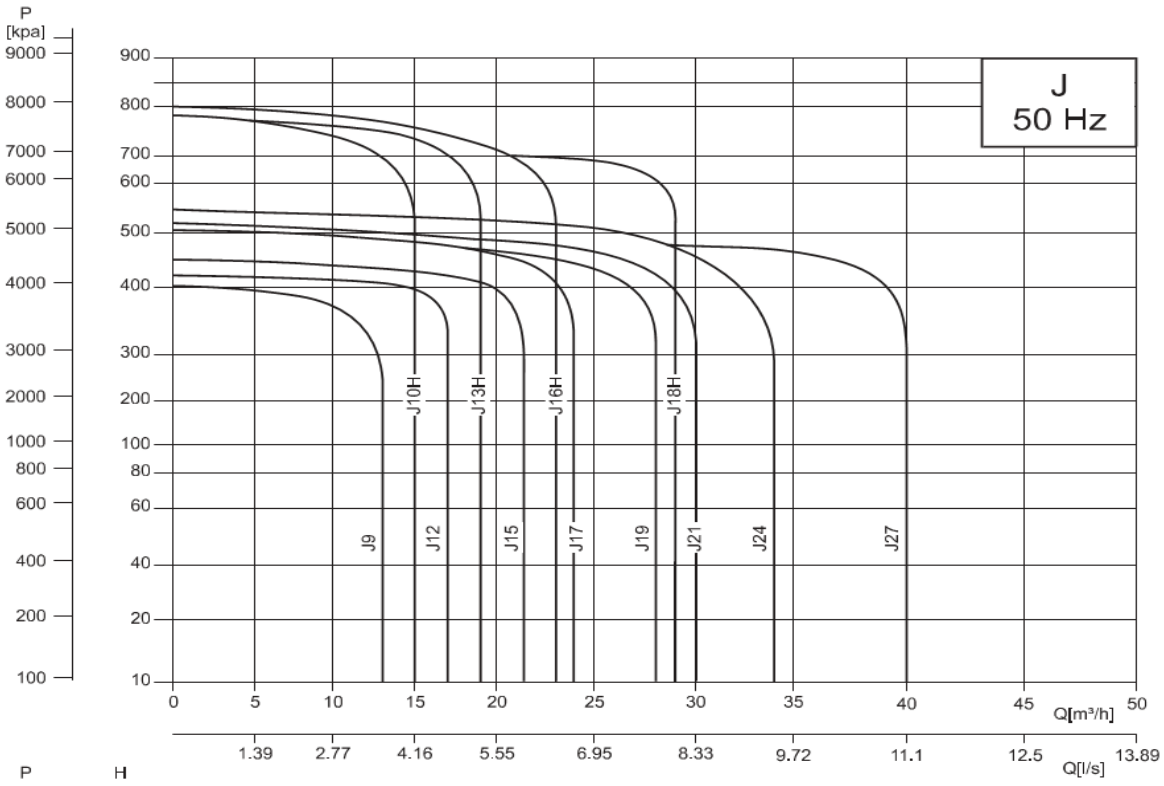
- The stop ring prevents damage to the pump during transport and in case of thrust-up in connection with start up
- The stop ring, which is designed as a thrust bearing, limits axial movements of the pump shaft
- The stationary part of the stop ring is secured in the upper immediate chamber. The rotating part is fitted above the split cone

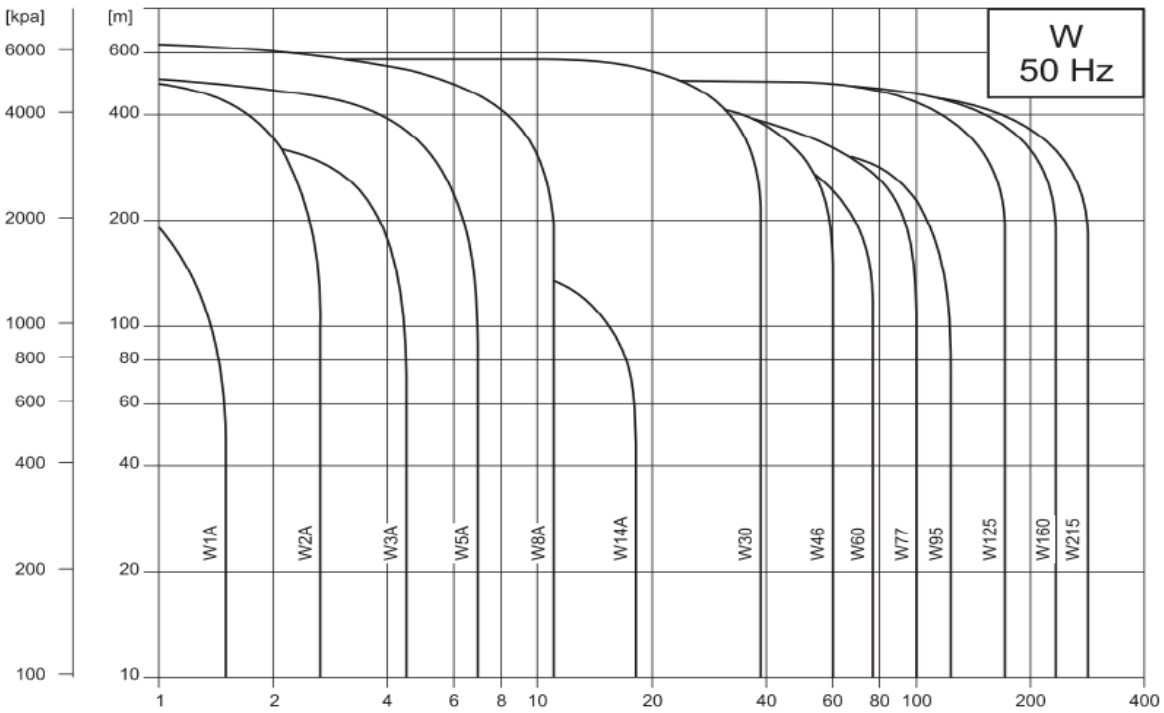
INLET STRAINER

- The inlet strainer prevents oversize particles from entering the pump



ELECTRIC SUBMERSIBLE PUMPS PERFORMANCE RANGES





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