# Submersible Drainage Pump J 604



## **Specification**

Electric submersible pump.

Maximum submergence: 65 ft. Protection class IP 68.

Max temperature of pumped medium at max power input and continuous duty 104  $^{\circ}$ F.

Max medium density 0.0397 lbs/inch<sup>3</sup>. pH of the pumped medium 5-8. Strainer hole: 1/2" x 2 3/8". Max number of starts 30/hour.

J 604 ND Medium head, 3-phase J 604 HD High head, 3-phase

## **Electric Motor**

3-phase squirrel-cage induction motor, 60 Hz. Service factor 1.1. Class F insulation.

Motor rating P<sub>3</sub>: 94 Hp. Speed: 1732 rpm.

Voltage, V	230	460	575
Nominal current, A	226	113	91

### **Starting Method**

D.O.L. start with built-in terminal block.

Star-Delta start with built-in terminal block.

When used with VFD, pump must be equipped with terminal block.

#### **Power Cable**

Heavy duty power cable for submersible pump applications 100 ft 2 x AWG 2/3 GGC (UL, CSA, MSHA), 230 V 100 ft 1 x AWG 2/3 GGC (UL, CSA, MSHA), 460-575 V

Control cable: 100 ft 1 x AWG 16/7 SOOW (UL, CSA, MSHA).

#### **Motor Protection**

Built-in thermal switches in the stator windings ( $284^{\circ}F$ ,  $\pm 5$ ). DI leakage sensor in the junction box, DI leakage sensor in the oil chamber, thermal sensors at upper ( $248^{\circ}F$ ) and lower ( $194^{\circ}F$ ) bearing all connected to a separate starter and control unit.

#### **Shaft Seal**

Double mechanical seal in oil bath.

Primary seal: Silicon carbide on silicon carbide. Secondary seal: Carbon on stainless steel.

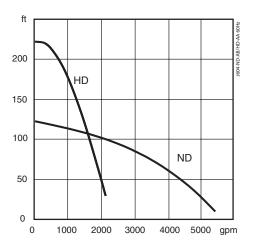
#### **Bearings**

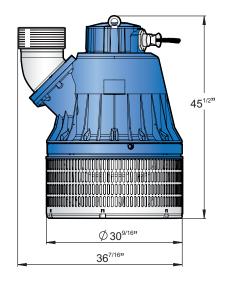
Upper bearing: Single-row deep groove ball bearing. Lower bearing: Double angular contact ball bearing.

#### **Discharge Connections**

6", 8", 10" hose connections.

6"(standard HD), 8", 10" (standard ND) NPT threaded connections.





#### Weight

1157 lb (without cable)

# **Options and Accessories**

Zinc anodes. Surface protection coating.

Wear plate in polyurethane. Series connection (HD).

Starter and control units. Automatic level control unit.

Floatation system. Repair kit.

Discharge connection accessories and hose.

# **Materials**

Description	Material	ASTM
Casing / Castings	Aluminium	ASTM AlSi10mg
Strainer / Fasteners	Stainless steel	AISI 304
Shaft	Stainless steel	AISI 420
Impeller	High-chrome alloy	ASTM A 532: Alloy III A
Wear parts / O-rings	Nitrile rubber	