

# Submersible Drainage Pump J 15

**SULZER**

## Specification

Electric submersible pump.

Maximum submergence: 20 m. Protection class IP 68.

Max temperature of pumped medium at max power input and continuous duty 40 °C.

Max medium density 1100 kg/m<sup>3</sup>. pH of the pumped medium 5-8.

Strainer hole: 6.5 x 22 mm. Max number of starts 30/hour.

**J 15 W/WKS\*** Medium head, single-phase

**J 15 D/DKS\*** Medium head, 3-phase

\* option: built in float switch excl. 500 V

## Electric motor

Single-phase induction motor with built-in start and run capacitor, 50 Hz.

Service factor 1.1. Class F insulation.

Motor rating P<sub>2</sub>: 1.4 kW. Speed: 2800 rpm

| Voltage, V         | 230 |
|--------------------|-----|
| Nominal current, A | 8.1 |

3-phase squirrel-cage induction motor, 50 Hz.

Service factor 1.1. Class F insulation.

Motor rating P<sub>2</sub>: 1.4 kW. Speed: 2800 rpm

D.O.L. start with built-in contactor.

| Voltage, V         | 230 | 400 | 500 |
|--------------------|-----|-----|-----|
| Nominal current, A | 5.0 | 2.9 | 2.3 |

## Power cable

20 m type H07RN8-F:

4 x 1.5 sq.mm. (3-phase)

3 x 1.5 sq.mm. (single-phase)

## Motor protection

Built-in thermal switches in the stator winding (140°C, ±5).

## Shaft seal

Double mechanical seal in oil bath.

Primary seal: Silicon carbide on silicon carbide.

Secondary seal: Silicon carbide on silicon carbide.

## Bearings

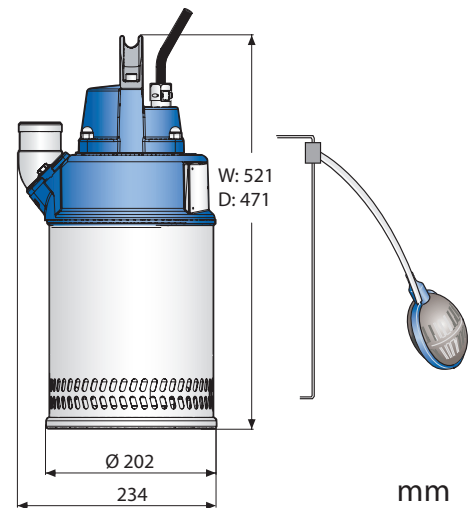
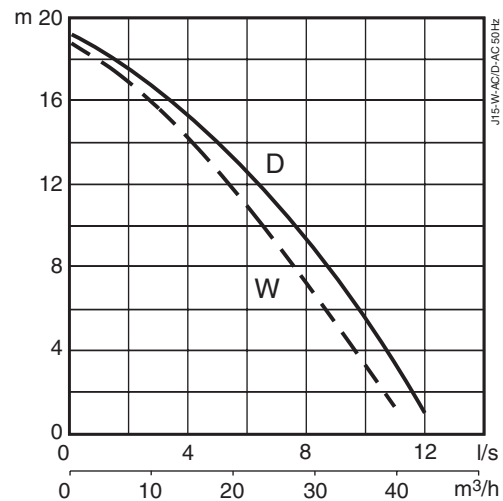
Upper bearing: Single-row deep groove ball bearing.

Lower bearing: Single-row deep groove ball bearing.

## Discharge connections

1 ½", 2" (standard), 2 ½", 3" hose connections.

2", 2 ½", 3" B.S.P. threaded connections.



## Weight

D: 16.5 kg, W: 18.0 kg (without cable)

## Options and accessories

Zinc anodes. Surface protection coating.

Bottom suction adapter. Series connection.

Starter and control units. Floatation ring. Repair kit.

Discharge connection accessories and hose.

## Materials

| Description          | Material        | EN                         | ASTM                    |
|----------------------|-----------------|----------------------------|-------------------------|
| Castings             | Aluminium       | EN 1706:AC-43100           | ASTM AlSi10mg           |
| Casing / Fasteners   | Stainless steel | 10088:X5CrNi18-10 (1.4301) | AISI 304                |
| Shaft                | Stainless steel | 10088:X20Cr13 (1.4021)     | AISI 420                |
| Impeller             | White cast iron | EN-GJN-HV600(XCr23)        | ASTM A 532: Alloy III A |
| Wear parts / O-rings | Nitrile rubber  |                            |                         |