

# 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  $P_2$ : 1.4 kW. Speed: 2720 rpm

$\eta$ : 66.2 (50 %), 70.2 (75 %), 69.2 (100 % load)

Voltage, V	110	230
Nominal current, A	19.0	9.1

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

Service factor 1.1. Class F insulation.

Motor rating  $P_2$ : 1.4 kW. Speed: 2800 rpm

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

$\eta$ : 80.6 (50 %), 79.9 (75 %), 76.5 (100 % load)

Voltage, V	230	400	500
Nominal current, A	5.2	3.0	2.4

## 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,  $\pm 5$ ).

## Shaft seal

Double mechanical seal in oil bath.

Primary seal: Silicon carbide on silicon carbide.

Secondary seal: Silicon carbide on silicon carbide.

## Bearings

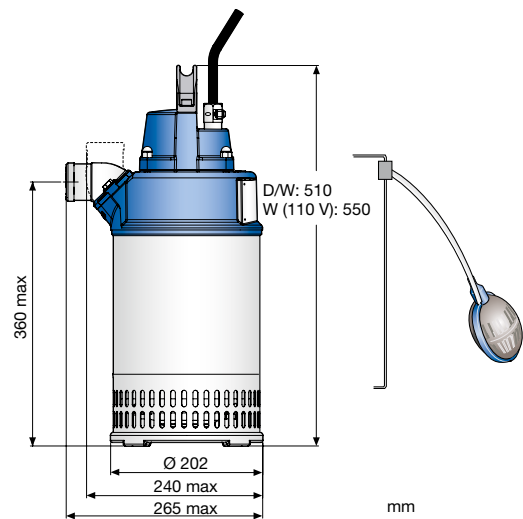
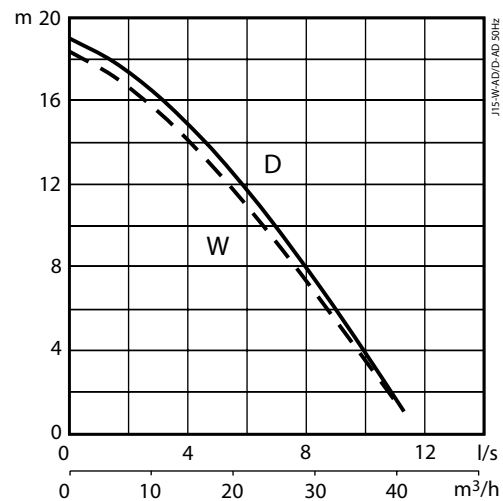
Upper bearing: Single-row deep groove ball bearing.

Lower bearing: Single-row deep groove ball bearing.

## Discharge connections

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

2", 2 1/2", 3" B.S.P. threaded connections.



## Weight

D: 19 kg, W: 21 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 A1Si10mg
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		