

Pumps and pumping systems

Submersible dewatering pumps

In the real world time is money, and worksites have no time for unwanted water. Sulzer has the solutions in a complete pump range for reliable dewatering. sulzer.com/dewatering



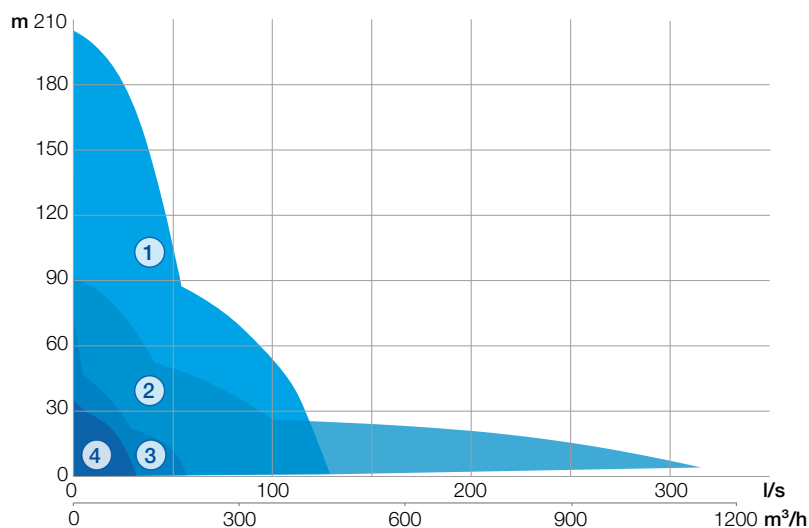
Dewatering solutions for the real world

This brochure is an overview of Sulzer's submersible dewatering pumps, which are the result of more than 50 years of technical and real-world experience. Each pump type is presented with its key features, as well as dimensions, performance curves and the most important technical data for specific pump models.

Whether you work in mining, tunneling or construction, the pumps here are your best insurance against water-related downtime. From purchasing to service, you can turn to us for dewatering solutions that make a difference in the real world.

Performance range 50 Hz

Sulzer's complete range of submersible dewatering pumps provides reliable solutions for all major dewatering needs.



- ① XJ 900
- ② J 205 - J 604
- ③ J 4 - J 7, J 12 - J 15, JC 34, XJ 25 - XJ 110, XJC 50 - XJC 110
- ④ JS 4 - JS 8, JS 12 - JS 15, XJS 25 - XJS 110

Submersible sludge pump JS

Submersible sludge pump JS is excellent for pumping dirty water and water mixed with solids. The pump has a slim design and low weight, which makes it easy to move and easy to handle.

1 Easy to start

A built-in contactor connected to the thermal sensors in the stator windings protects the motor from overheating and features an automatic restart function.

JS 4, JS 7 and JS 8 are robust pumps designed for applications with lower flows. They feature an agitator mounted on the shaft to reduce blockage and ensure reliable operation. JS 8 includes level control as standard, while JS 4 and JS 7 are available with or without level control. Pumps equipped with level control provide automatic start/stop and eliminate dry running.

2 Clog-free pumping

A free-flow vortex impeller and pump volute make the pump ideal for pumping solids. The impeller is available in different sizes to meet specific requirements.

3 Reliable operation

Both the impeller and volute are made from heavy-duty ductile iron for maximum durability. Double mechanical shaft seals in an oil bath, with primary and secondary seal surfaces in silicon carbide, extend the life of the pump.

4 Convenient handling

The top cover and motor housing are made of lightweight aluminum, which creates a pump that is very easy to handle and install.

5 Serviceability

Due to the modular design, the same parts can be used for different pumps, which lowers the overall service costs. External inspection ports for the oil and motor chambers enable quick and easy evaluation of the shaft seal during service. By removing the top cover of the pump, the electrical junction area can easily be checked.



Submersible sludge pump JS 4

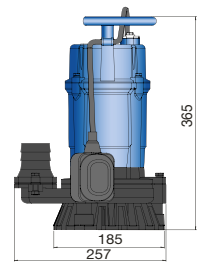
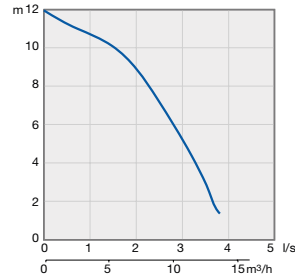
JS 4 W/WKS*

Motor rating P2
Voltage (V)
Full load (A)
Speed
Strainer hole
Discharge connections

1-phase

0.4 kW, 1~
230
3
2'850 rpm
6 mm
Hose 2"
Thread G/BSP 2"
Storz C
13.8 kg
Built-in
10 m

Weight (excl. cable)
Motor protection
Electric cable



Submersible sludge pump JS 7

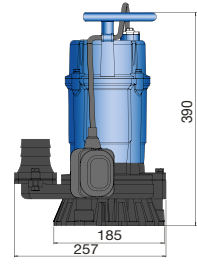
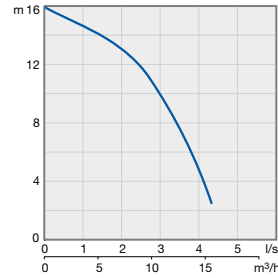
JS 7 W/WKS*

Motor rating P2
Voltage (V)
Full load (A)
Speed
Strainer hole
Discharge connections

1-phase

0.75 kW, 1~
230
5
2'850 rpm
6 mm
Hose 2"
Thread G/BSP 2"
Storz C
16.8 kg
Built-in
10 m

Weight (excl. cable)
Motor protection
Electric cable



Submersible sludge pump JS 8

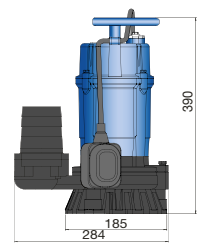
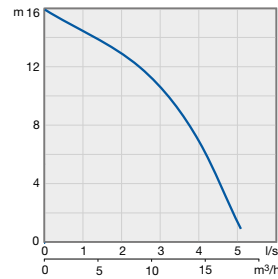
JS 8 WKS

Motor rating P2
Voltage (V)
Full load (A)
Speed
Strainer hole
Discharge connections

1-phase

0.75 kW, 1~
230
5
2'850 rpm
6 mm
Hose 3"
Thread G/BSP 3"
Storz B
18.3 kg
Built-in
10 m

Weight (excl. cable)
Motor protection
Electric cable



Submersible sludge pump JS 12

JS 12 W/WKS* -104

JS 12 W/WKS* -114

JS 12 D/DKS* -104

JS 12 D/DKS* -114

Motor rating P2
Voltage (V)
Full load (A)
Speed
Free passage
Discharge connections

1-phase

1-phase

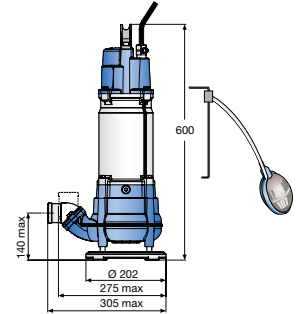
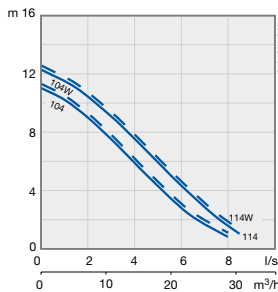
0.9 kW, 1~
230
5.5
2'770 rpm
Ø 40 mm
Hose 2", 2½", 3"
Thread G/BSP 2", 2½", 3"
20 kg (W), 19 kg (D)
Built-in
20 m

Weight (excl. cable)
Motor protection
Electric cable

3-phase

3-phase

0.9 kW, 3~
230 / 400 / 500
3.8 / 2.2 / 1.8
2'770 rpm



Submersible sludge pump JS 15

JS 15D/DKS* -114

JS 15D/DKS* -126

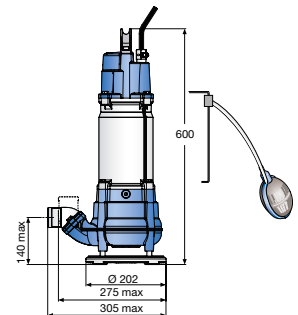
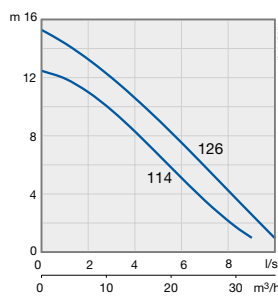
Motor rating P2
Voltage (V)
Full load (A)
Speed
Free passage
Discharge connections

3-phase

3-phase

1.4 kW, 3~
230 / 400 / 500
5.2 / 3.0 / 2.4
2'800 rpm
Ø 40 mm
Hose 2", 2½", 3"
Thread G/BSP 2", 2½", 3"
20 kg
Built-in
20 m

Weight (excl. cable)
Motor protection
Electric cable



* Built-in float switch available as option. KS version not available in 500 V.

Submersible sludge pump XJS

Submersible sludge pump XJS is excellent for pumping dirty water and water mixed with solids. The slim design makes the pump easy to move and easy to handle.

1 Easy and fail-safe starting

Instead of a built-in contactor, an optional AquaTronic unit can be used. The AquaTronic unit compensates for incorrect phase order, which ensures correct motor rotation every time. (Additional AquaTronic functions for electronic supervision are explained on pages 18-21.)

2 Clog-free pumping

A free-flow vortex impeller and pump volute make the pump ideal for pumping solids. The impeller is available in different sizes to meet specific requirements.

3 Reliable operation

Both the impeller and volute are made from heavy-duty ductile iron for maximum durability. Double mechanical shaft seals in an oil bath, with primary seal surfaces in silicon carbide and secondary seal surfaces in silicon carbide on carbon, extend the life of the pump. A double cable-entry seal system increases the protection against moisture entering the electrical junction area.

4 Convenient handling

The top cover and motor housing are made of lightweight aluminum, which creates a pump that is very easy to handle and install.

5 Serviceability

Due to the modular design, the same parts can be used for different pumps, which lowers the overall service costs. External inspection ports for the oil and motor chambers enable quick and easy evaluation of the shaft seal during service. By removing the top cover of the pump, the electrical junction area can easily be checked.

6 Less energy and environmental impact

The high-efficiency motor and hydraulics combine with low-friction bearings to reduce power losses. The result is low total energy costs and minimized carbon footprint.



Submersible sludge pump XJS 25

XJS 25 D* -128

XJS 25 D* -143

Motor rating P2

Voltage (V)

Full load (A)

Speed

Free passage

Discharge connections

2.5 kW, 3~

230 / 400 / 500-550 / 690 / 1'000

8.8 / 5.1 / 4.3 / 2.9 / 2.0

2'920 rpm

45 x 55 mm

Hose 2½", 3", 4"

Thread G/BSP 2½", 3", 4"

Weight (excl. cable)

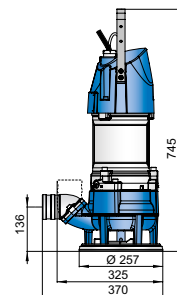
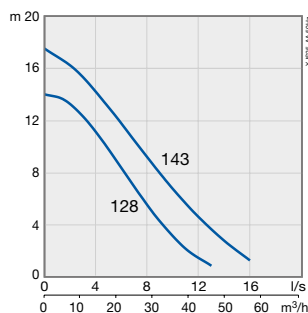
Motor protection

Electric cable

39 kg

Built-in

20 m

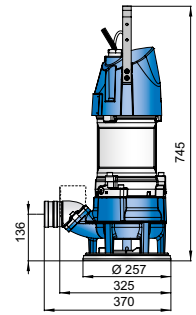
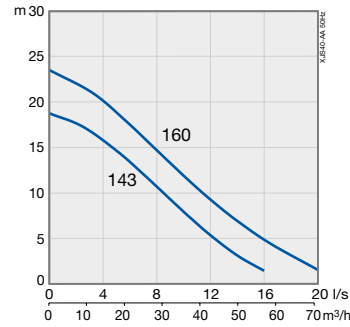


Submersible sludge pump XJS 40

XJS 40 D* -143

XJS 40 D* -160

Motor rating P2	3.7 kW, 3~
Voltage (V)	230 / 400 / 500-550 / 690 / 1'000
Full load (A)	13.2 / 7.6 / 6.1 / 4.4 / 3.0
Speed	2'860 rpm
Free passage	45 x 55 mm
Discharge connections	Hose 2½", 3", 4" Thread G/BSP 2½", 3", 4"
Weight (excl. cable)	41 kg
Motor protection	Built-in
Electric cable	20 m

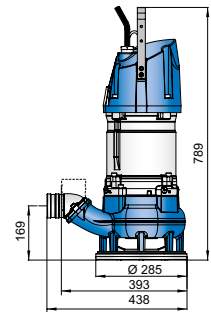
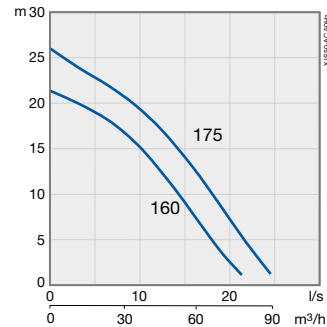


Submersible sludge pump XJS 50

XJS 50 D* -160

XJS 50 D* -175

Motor rating P2	5.6 kW, 3~
Voltage (V)	230 / 400 / 500-550 / 690 / 1'000
Full load (A)	19.7 / 11.3 / 9.0-10.8 / 6.6 / 4.5
Speed	2'930 rpm
Free passage	48 x 60 mm
Discharge connections	Hose 2½", 3", 4" Thread G/BSP 2½", 3", 4"
Weight (excl. cable)	59 kg
Motor protection	Built-in
Electric cable	20 m

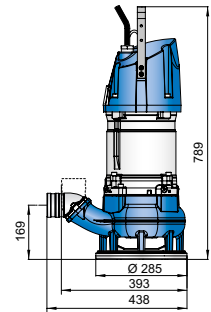
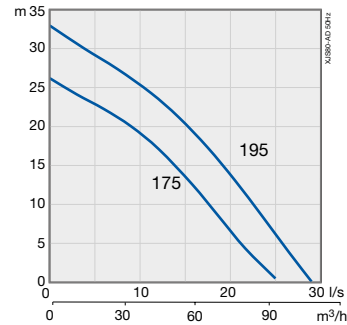


Submersible sludge pump XJS 80

XJS 80 D* -175

XJS 80 D* -195

Motor rating P2	8.3 kW, 3~
Voltage (V)	230 / 400 / 500-550 / 690 / 1'000
Full load (A)	27.8 / 16 / 13.8 / 9.3 / 6.4
Speed	2'920 rpm
Free passage	48 x 60 mm
Discharge connections	Hose 2½", 3", 4" Thread G/BSP 2½", 3", 4"
Weight (excl. cable)	64 kg
Motor protection	Built-in
Electric cable	20 m

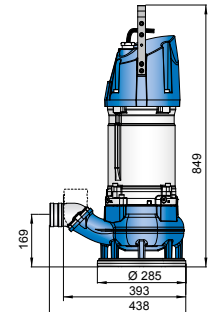
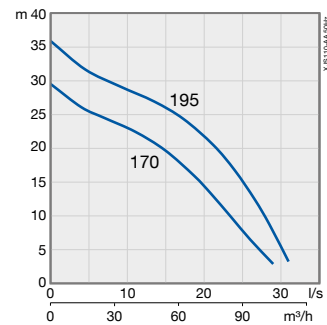


Submersible sludge pump XJS 110

XJS 110 D* -170

XJS 110 D* -195

Motor rating P2	11.8 kW, 3~
Voltage (V)	230 / 400 / 500-550 / 690 / 1'000
Full load (A)	37.4 / 21.5 / 17.2 / 12.5 / 8.6
Speed	2'920 rpm
Free passage	48 x 60 mm
Discharge connections	Hose 2½", 3", 4" Thread G/BSP 2½", 3", 4"
Weight (excl. cable)	80 kg
Motor protection	Built-in
Electric cable	20 m



* Option: AquaTronic, built-in electronic pump control.