

Qmax 120 m³/h - 2000 l/min (528 USgpm) - Hmax 56 m (183 ft) Code 4810062073



Indicative picture of the product

Self-priming centrifugal bare shaft pump

Characteristics

The J series self-priming centrifugal pumps are used in applications where a rapid priming capacity is required from demanding suction heights combined with the ability to transfer and manage polluted fluids, dirty and abrasives with suspended large diameter solids. The system is based on an inspectable pump casing which also acts as a water tank allowing a first quick priming without auxiliary systems, simplifying management of the system and reducing the time for maintenance. Within the physically permitted suction height limits, J pumps are a more comfortable and reliable solution than submersible pumps and vertical submersed impeller pumps.

Product Data

Suction port

Threaded - 3" ISO 228 (BSP)

Delivery port

Threaded - 3" ISO 228 (BSP)

Omay

120 m³/h - 2000 l/min (528 USgpm)

Hmax

56 m (183 ft)

Solids handling

27 mm (1 ")

Weight

54 kg (119 lb)

EX version



Pump with dedicated code, including thermowell predisposition for temperature sensor and glass oiler for mechanical seal quench fluid, according to ATEX 2014/34/EU.

Benefits

1) Rapid self-priming

Without foot valve up to a height of 7.5 m (24.5 ft)

2) High resistance

To abrasive liquids which are turbid and sandy

3) Semi-open impeller

High thickness casting impact resistant

4) Wear plate/plates

Easily replaceable cast iron wear plate/plates

5) Easy inspection and cleaning

Removable front covers for access to the impeller

Applications

Industry:

clean, dirty, sandy, muddy, neutral, alkaline, acidic liquids; low viscous petroleum products, solvents even if dirty; milk of lime, caustic soda; washing, cooling, recirculation, smoke scrubbing.

Treatment:

pumping polluted corrosive wastewater containing sand, mud or solids in suspension; dosing neutralizing liquids; pumping out settled sludge.

Naval

loading and unloading; bilge pumping; washing, firefighting, stripping, sanitary duty and circulation.

Agriculture:

surface irrigation; liquid manure oxygenation; transfer and spraying liquid manure or fertilizers; distribution of liquid animal feed; transfer of wine must; washing.

Varisco S.r.I. has certified its Quality, Environment and Safety Management System in accordance with the requirements of the international standard ISO 9001-14001-45001, recognized by the Lloyd Register.



PERFORMANCE CURVES

Test according to UNI EN ISO 9906 standard - level 2B

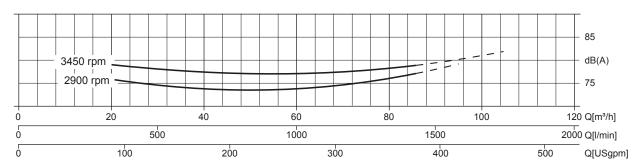
Test liquid: clean water, density 1.000 kg/m³

Spherical solids handling: D.27 mm (1")

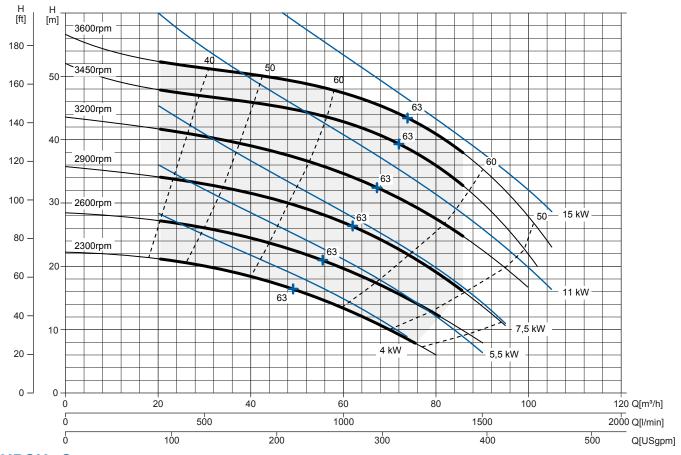
Max. applicable motor power: 15 kW - 20 HP

Noise Curve

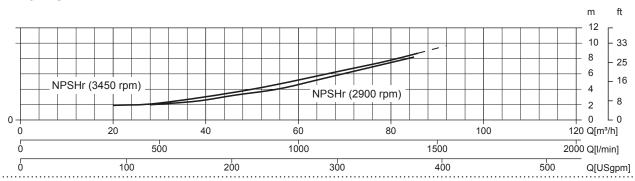
dB(A)=max noise level at 1 m



Multiple Speed Curve



NPSHr Curve





TECHNICAL DATA

Pump

Pump model	JS 3-180 T10
Qmax [3.600 rpm]	120 m³/h - 2000 l/min (528 USgpm)
Hmax [3.600 rpm]	56 m (183 ft)
Suction port	Threaded - 3" ISO 228 (BSP)
Delivery port	Threaded - 3" ISO 228 (BSP)
Impeller type	Semiaperta, 3 pale
Solids handling	27 mm (1 ")
Casing	EN 1563 EN-GJS-500 cast iron + QPQ
Impeller	EN 1563 EN-GJS-500 cast iron + QPQ
Wear plate	EN 1561 EN-GJL-200 cast iron + QPQ
Non-return valve	check-valve, NBR
Shaft	C45E EN 10083-2 steel
Mechanical seal	Silicon carbide / Silicon carbide
Elastomers	NBR
Lubrication	Grease
Bearing bracket	EN 1561 EN-GJL-200 cast iron, with grease lubricated ball bearings for life

QPQ: type of nitrocarburizing case hardening that increases corrosion resistance, made in three steps; nitrocarburize+oxidize, polish, and post-oxidize

Arrangement

Model	Bare shaft
Dimensions (L x W x H)*	282 x 540 x 408 mm (11 x 21 x 16")
Coating	Polyurethane enamel, average thickness of 100 μm
Color	RAL 5010 blue (standard)
Height connection	0,3 m (0,95 ft)

^{*}without flanged ports

Optionals

Flanged ports DN80 PN16 EN1092-2 Type B	Complete pump set code available on request
Flanged ports 3" ANSI B16.1 Class 125 R.F.	Complete pump set code available on request
Automatic mechanical seal greaser	Code: 10008316
Thermocouple temperature sensor for ATEX pump	TC - Range temperature from 0 up to 300°C
Temperature sensors for ATEX pump	PT100 - Range temperature from 0 up to 300°C

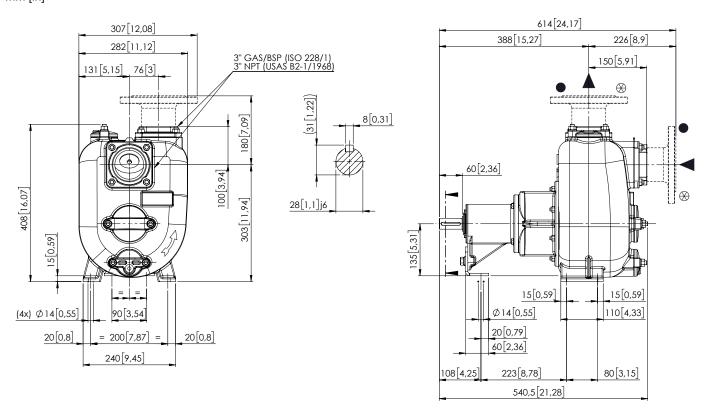
Weight

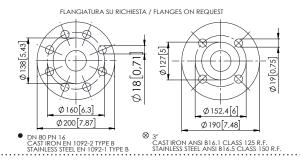
Net weight	54 kg (119 lb)
Gross weight (pump + packing)	67 kg (148 lb)



DIMENSIONS

mm [in]





PACKAGING DIMENSIONS

Dimensions

JS 3-180 T10 (L x W x H) Gross weight (pump + packing) 840 x 680 x 650 mm 67 kg (148 lb)

