

Electric - Qmax 25 m<sup>3</sup>/h - 416 l/min (110 USgpm) - Hmax 37 m (121 ft) Code 8381063266



**Product Data** Suction port Threaded - 1 1/2" ISO 228 (BSP) Delivery port Threaded - 1 1/2" ISO 228 (BSP) Qmax 25 m<sup>3</sup>/h - 416 l/min (110 USgpm) Hmax 37 m (121 ft) Solids handling 11 mm (0.4 ") Motor power 4 kW - 5,5 HP Motor type **IEC** standard Winding for inverters **Cast iron frame** Motor brand WEG W22 Premium Weight 90 kg

Indicative picture of the product

## Close-coupled self-priming centrifugal pump with electric motor

## **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.

## 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 Easily replaceable cast iron wear plate, front to the impeller

5) Easy maintenance Removable front cover for direct 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.

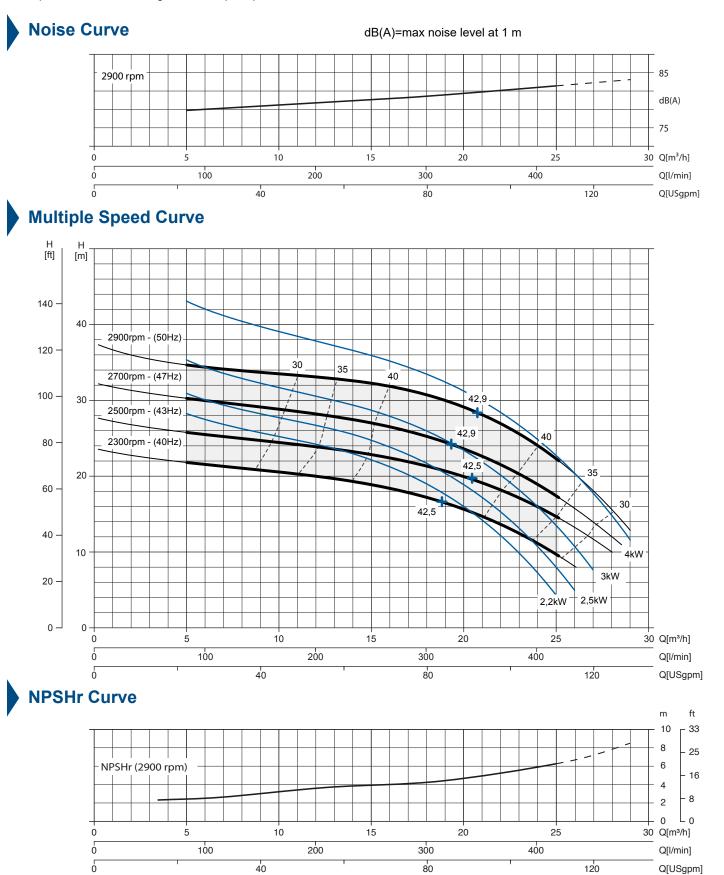
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**PERFORMANCE CURVES** 



Test according to UNI EN ISO 9906 standard - level 2B Test liquid: clean water, density 1.000 kg/m<sup>3</sup> Spherical solids handling: D.11 mm (0.4 ") Priming time (2.900 rpm): **26s from 1,5 m (5 ft)** Installed power: **4 kW - 5,5 HP (2900 rpm)** 



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**TECHNICAL DATA** 

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### Pump

1 ump					
Pump model	J 1-180 G10				
Qmax [2,900 rpm]	25 m³/h - 416 l/min (110 USgpm)				
Hmax [2,900 rpm]	37 m (121 ft)				
Suction port	Threaded - 1 1/2" ISO 228 (BSP)				
Delivery port	Threaded - 1 1/2" ISO 228 (BSP)				
Impeller type	Semi-open, 4 vanes				
Solids handling	11 mm (0.4 ")				
Casing	cast iron EN 1561 EN-GJL-200				
Impeller	cast iron EN 1563 EN-GJS-500				
Wear plate	rubberized cast iron EN 1561 EN-GJL-200				
Non-return valve	Check-valve, NBR				
Shaft	Steel C45E EN 10083-2				
Mechanical seal	Silicon carbide / Silicon carbide				
Elastomers	NBR				
Lubrication	Grease				

### Motor

Mains supply (Three-phase)	220 VD/380 VY ± 5%	230 VD/400 VY ± 10%	240 VD/415 VY ± 5%		
Frequency (Nominal speed)		50 Hz ± 3% / 2.900 rpm			
Absorbed current	13,7/7,93 A	13,3/7,62 A	13/7,49 A		
Starting Current Is/In	7.4	7.7	8		
Efficiency (100%)	88,1% ( IE3 )	88,1% ( IE3 )	88,1% ( IE3 )		
Model	WEG W22 Premium				
Standards	IEC 60034-1				
Construction	cast iron, TEFC				
Mounting arrangement	IM 2101 B34				
No. poles	2				
Rated power	4 kW - 5,5 HP				
Degree of protection	IP55				
Markings	CE, UL, CSA, EAC				
Insulation class/Temperature	F/80°K				
Duty type	Continuous - S1 Variable - suitable for inverter use (30-50 Hz)				
Temperature sensors	PTC, available as option				

#### Arrangement

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Model	Close-coupled N
Dimensions	340 x 726 x 394 mm (13 x 28,5 x 15,5")
Coating	Polyurethane enamel, average thickness of 100 µm
Color	RAL 5010 blue (standard)
Features	Close-coupled with rigid coupling "N"
Height connection	0.2 m (10")

### Optionals

Flanged ports DN40 PN16 EN1092-2 Type B	cod. 10042259
Flanged ports 1 1/2" ANSI B16.1 Class 125 R.F.	cod. 10042817
Automatic mechanical seal greaser	cod. 10008316
Integrated VSD motor inverter	Available by 2021
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## Weight

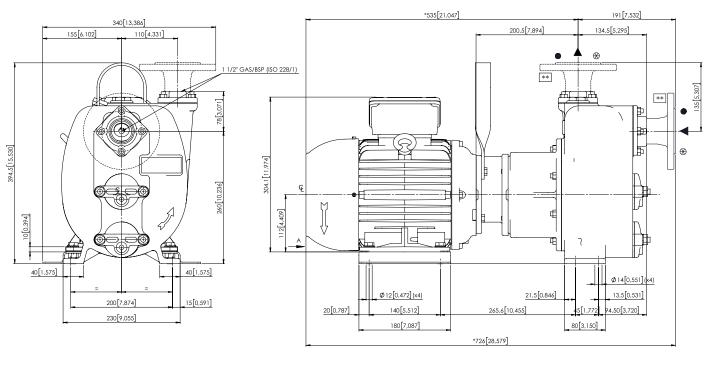
Net weight		

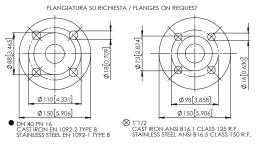
90 kg

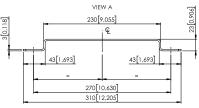


DIMENSIONS

mm [in]







## PACKAGING DIMENSIONS

### Dimensions

JE 1-180 G10 NT20 (L x W x H mm) Gross weight (pump + packing)

