

# JE 1-110 K20 NT22



Electric - Qmax 25 m<sup>3</sup>/h - (110 USgpm) - Hmax 23 m (75 ft)

Code: 8381064153



Indicative picture of the product

## 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  
**23 m (75 ft)**

Solids handling  
**20 mm (0.8")**

Motor power  
**2.2 kW - 3 HP**

Motor type  
**IEC standard**

**Winding for inverters**

**Cast iron frame**

Motor brand  
**WEG W22 Premium**

Weight  
**40 kg (88 lb)**

## 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, fire-fighting, 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.l. 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.

# JE 1-110 K20 NT22

## Performance Curves

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

Test liquid: **clean water, density 1.000 kg/m<sup>3</sup>**

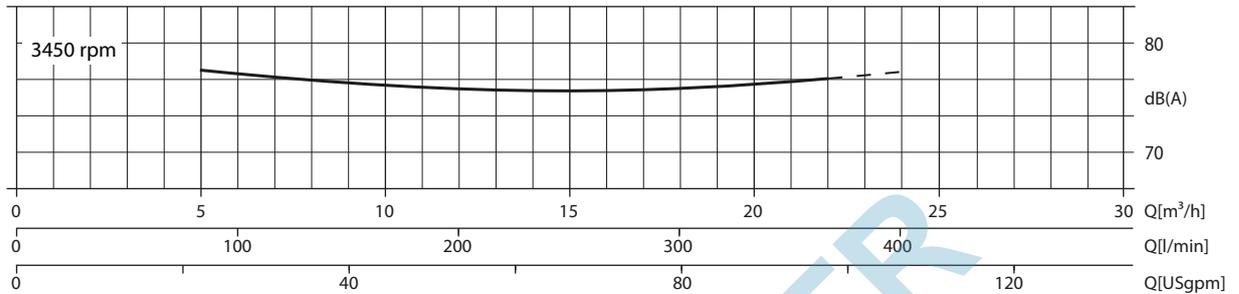
Spherical solids handling: **D.20 mm (0.8")**

Priming time 3.450 rpm: **20s from 1,5 m (5 ft)**

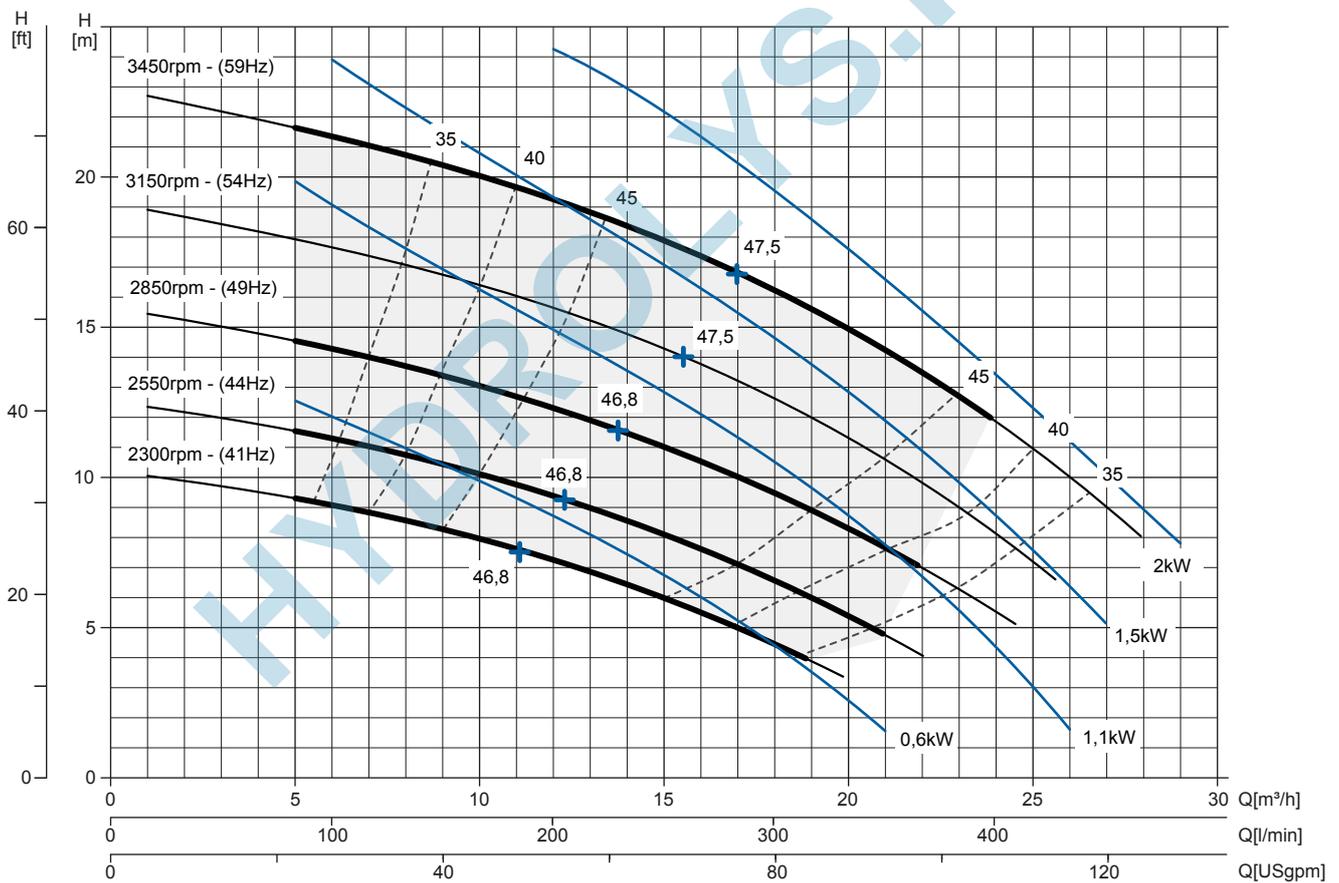
Installed power: **2.2 kW - 3 HP**

### Noise curve

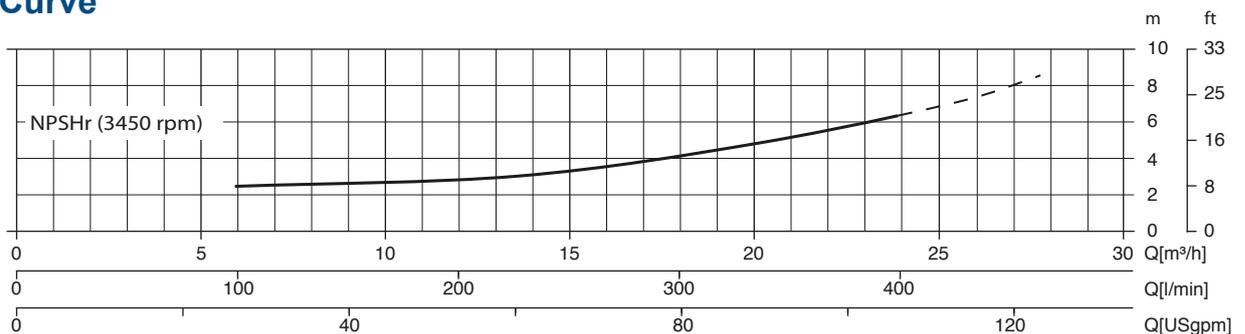
dB(A)=max noise level at 1 m



### Multiple speed curve



### NPSHr Curve



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## TECHNICAL DATA

### Pump

Pump model	J 1-110 K20
Qmax [3.450 rpm]	25 m <sup>3</sup> /h - 416 l/min (110 USgpm)
Hmax [3.450 rpm]	23 m (75 ft)
Suction port	Threaded - 1"1/2 ISO 228 (BSP)
Delivery port	Threaded - 1"1/2 ISO 228 (BSP)
Impeller type	Semi-open. 3 vanes
Solids handling	20 mm (0.8")
Casing	ASTM A351 CF3M stainless steel
Impeller	ASTM A351 CF3M stainless steel
Wear plate	AISI 316L stainless steel
Non-return valve	Check-valve. PTFE
Shaft	SAF 2205 stainless steel
Mechanical seal	Tungsten carbide/Tungsten carbide
Elastomers	PTFE
Lubrication	Grease

### Motor

Mains supply (Three-phase)	220 VD/380 VY ± 5%	230 VD/400 VY ± 10%	240 VD/415 VY ± 5%	260 VD/460 VY ± 10%	280 VD/480 VY ± 5%
Frequency (Nominal speed)	<b>50 Hz ± 3% / 2.900 rpm</b>			<b>60 Hz ± 3% / 3.450 rpm</b>	
Absorbed current	7.91/4.58 A	7.75/4.45 A	7.56/4.37 A	6.89/3.89 A	6.9/4.03 A
Starting Current Is/In	7.1	7.5	8	8.4	8.6
Efficiency (100%)	85.9% ( IE3 )	85.9% ( IE3 )	86.5% ( IE3 )	86.5% ( IE3 )	86.5% ( IE3 )
Model	WEG W22 Premium				
Standards	IEC 60034-1				
Construction	Cast iron. TEFC				
Mounting arrangement	IM 2101 B34				
No. poles	2				
Rated power	2.2 kW - 3 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 (30-60 Hz)				
Temperature sensors	PTC, available as option				

### Arrangement

Model	Close-coupled N
Dimensions	171 x 517 x 239 mm (6.73 x 20.34 x 9.39")
Painting	Polyurethan enamel, average thickness of 100 µm
Color	RAL 5010 blue (standard)
Features	Close-coupled with rigid coupling "N"
Height connection	0.17 m (0.55 ft)

### Options

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

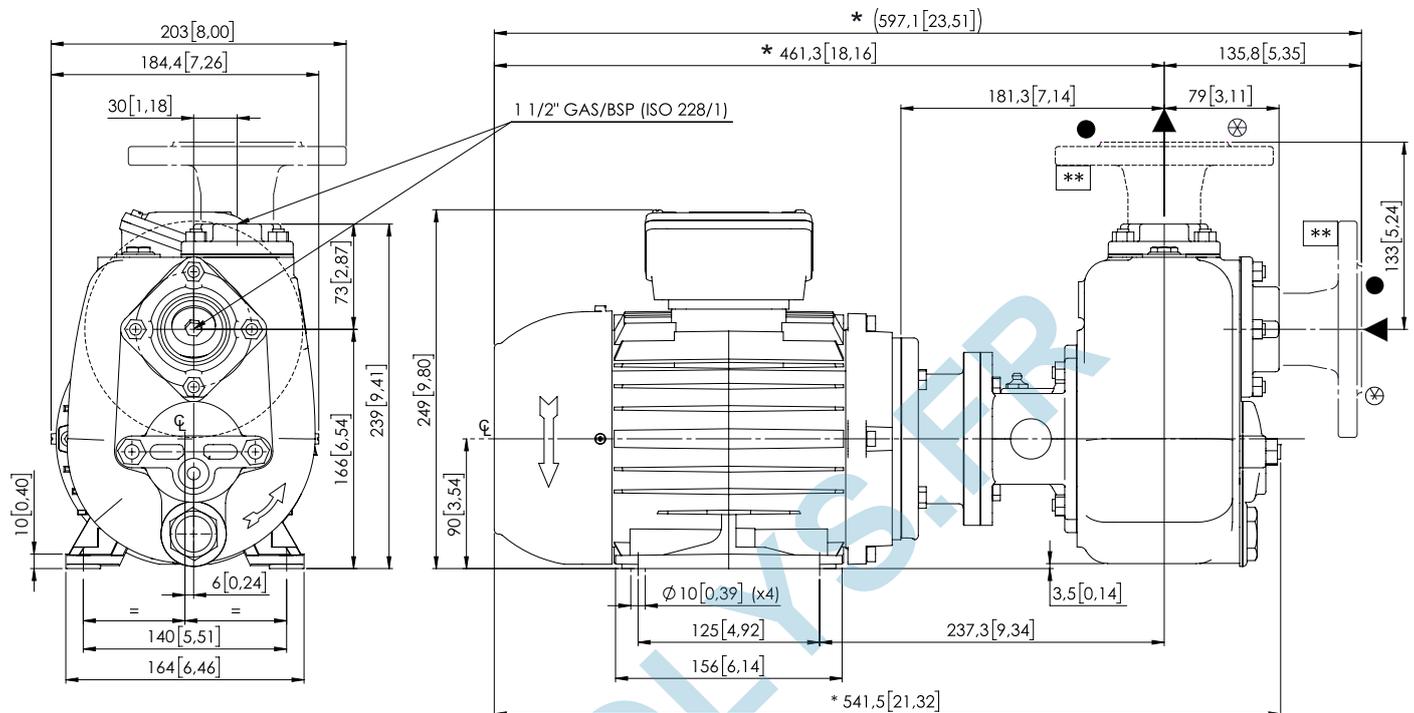
### Weight

Net weight	40 kg (88 lb)
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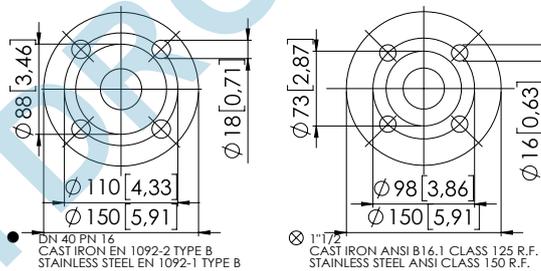
# JE 1-110 K20 NT22

## DIMENSIONS

mm [in]



FLANGIATURA SU RICHIESTA / FLANGES ON REQUEST



## PACKAGING DIMENSIONS

### Dimensions

JE 1-110 K20 NT22 (L x W x H mm)

720 x 270 x 480 + BOX

Gross weight (pump + packing)

44 Kg

