"3" Series End Suction Pumps

to DIN 2425 standard

"3M, 3M4"

These series of stainless steel pumps feature a unique one piece volute casing that are produced using an advanced computer controlled Plasma stamping system that ensures total quality control during manufacture. With the smooth surfaces of stamped stainless steel, this results in consistent high standard products, of superior quality and high efficiency.

The back pull-out construction permits the disassembly and overhaul of the impeller, shaft and bearings without removal of the suction or discharge piping, or pump casing.

The centre line discharge and foot support under the casing ensure maximum resistance to misalignment and distortion from pipe loads.

Suitable for many applications:-

- **Industrial, commercial and agricultural applications**
- **Water supply** • **Irrigation** • **Cooling towers**
- **Booster sets** • **Washing plants or machines**
- **Air conditioning systems** • **Heat exchangers**
- **For the pumping or boosting of water in general**

"3LS"

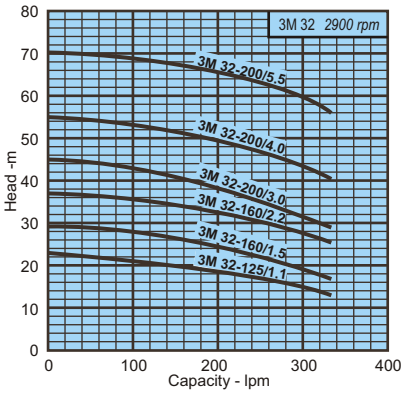
3M (2900 rpm) in AISI 304 stainless steel Monobloc Pumps

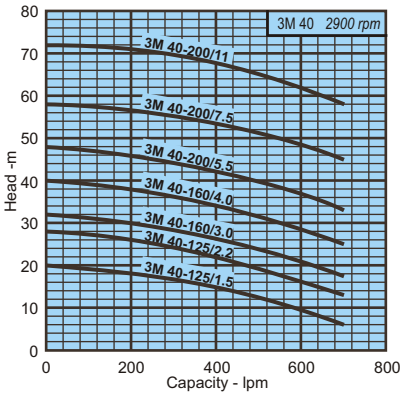
Motor output:	1.1 to 15 kW (3ph)
Outlet size:	32 to 50 mm
Flow rates:	100 to 1200 lpm
Head:	6 to 72 m
Liquid temperature:	-10ºC to +90ºC
Max. work. pressure:	10 Bar

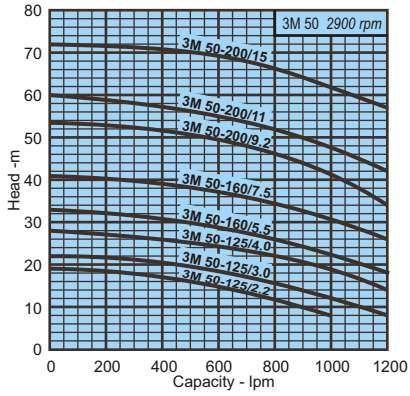
Options

High temperature versions with Viton elastomers, suitable for liquid temperatures up to 110ºC.

Hard face mechanical seal in SiC/SiC/Viton







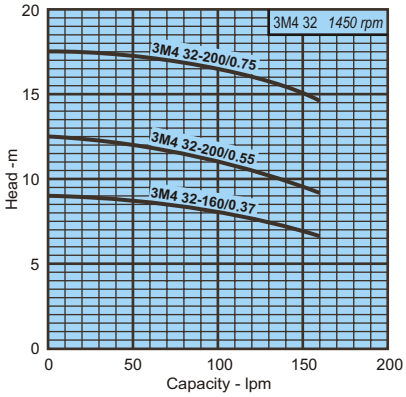
3M4 (1450 rpm) in AISI 304 stainless steel Monobloc Pumps

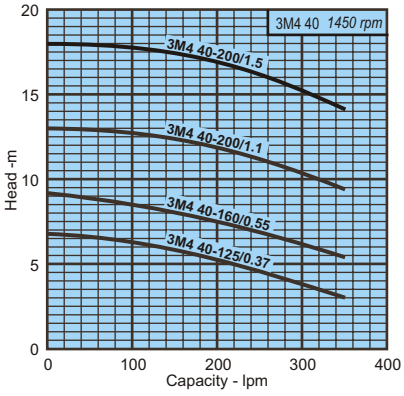
Motor output:	0.37 to 2.2 kW (3ph)
Outlet size:	32 to 50 mm
Flow rates:	50 to 600 lpm
Head:	3 to 18 m
Liquid temperature:	-10ºC to +90ºC
Max. work. pressure:	10 Bar

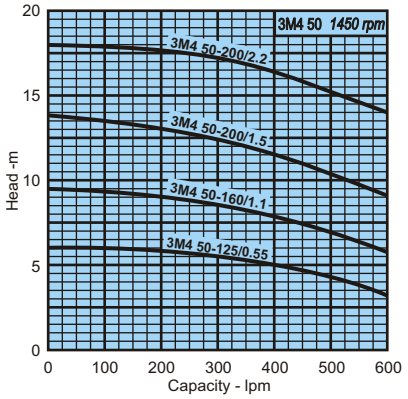
Options

High temperature versions with Viton elastomers, suitable for liquid temperatures up to 110ºC.

Hard face mechanical seal in SiC/SiC/Viton







3LS (2900 rpm) in AISI 316L stainless steel Stub Shaft Pumps

All the hydraulic and wetted components are manufactured in AISI 316L stainless steel, and fitted standard with SiC/SiC/Viton mechanical seal.

Standard IEC motors used, allowing for single phase, special enclosure, or specific brand motors to be fitted.

For performance refer to 3M curves.

Specifications

Motor output:	1.1 to 15 kW (3ph)
Outlet size:	32 to 50 mm
Flow rates:	100 to 1200 lpm
Head:	6 to 72 m
Liquid temperature:	-10ºC to +110ºC
Max. work. pressure:	10 Bar

Materials

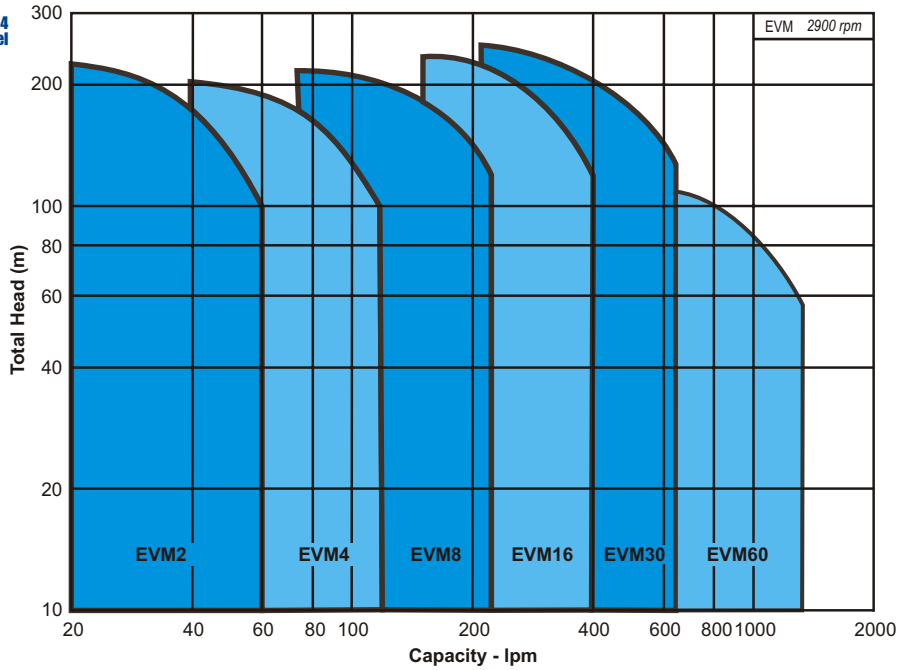
Casing, impeller, casing cover and shaft in AISI 316L stainless steel.
SiC/SiC/Viton mechanical seal.

EBARA

Vertical Multistage Pumps

in AISI 304 stainless steel

"EVM"



The Ebara EVM vertical multistage pumps offer technically advanced designs to meet market demands, and feature the use of IEC standard motors, and inbuilt thrust bearing (models over 1.1 Kw).

All wetted parts are constructed of high quality stainless steel, and the unique bulge forming process produces rugged construction with increased wall thickness and assures component integrity.

Ebara's robust construction extends to critical internal components such as the impellers and intermediate casings. With other features including self aligning liner rings, square edged spline shaft, and tungsten carbide lower bearings, the result is a product of exceptional quality and reliability.

Suitable for many applications:-

- **Industrial, commercial and agricultural applications**
- **Water treatment plants (reverse osmosis, filtration)**
- **Boiler feed • Irrigation systems • Fire fighting**
- **Pumping of hot or cold water for HVAC systems**
- **For the pumping or boosting of water in general**

Motor output: up to 22 kW *Outlet size:* 25 to 100 mm
Flow rates: 20 to 1200 lpm *Head:* up to 240 m
Maximum liquid temperature: -15ºC to +120ºC
Max. working pressure: 16 Bar (Oval flange), 25 Bar (Round Flange)

Setting a new standard for vertical multistage pumps

IEC Standard motors are used.

SiC/Carbon/Viton mechanical seal.

Robust construction. Thicker material.

Anti erosion measures for longer life.

Tungsten Carbide lower pump bearing.

In built thrust bearing (models over 1.1 kW) .

All wetted components are stainless steel.

Installation to industry accepted dimensions.

19 mm solids handling

"DWO"

Open Impeller Pumps

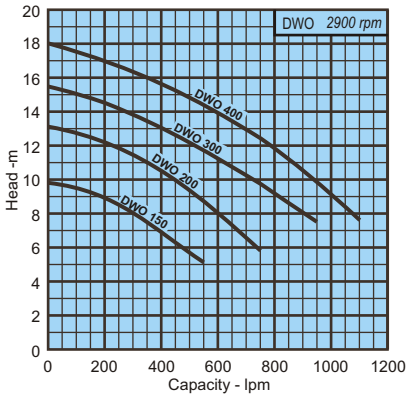
in AISI 304 stainless steel

For pumping water containing suspended soft solids. Suitable for :-

- **Washing of vegetables and other similar products**
- **Irrigation • Use in various industrial processes**
- **Washing systems for bottles, crates, baskets , etc.**

Motor output: 1.1 to 1.5 kW (1ph)
1.1 to 3.0 kW (3ph)

Outlet size: 50 mm *Max. liquid temp:* 90ºC
Flow rates: 100 to 1100 lpm *Max. working pressure:* 8Bar
Head: 5 to 18 m *Max. solids:* 19 mm



EBARA

Single Impeller Pumps

in AISI 304 stainless steel

"CD"

Motor output:	0.37 to 1.5 kW (1ph) 0.37 to 1.8 kW (3ph)
Outlet size:	25mm
Flow rates:	20 to 250 lpm
Head:	12 to 41 m
Max. liquid temp:	90ºC (60ºC for 70/05, 70/07and 90/10)
Max. work. pressure:	8 Bar

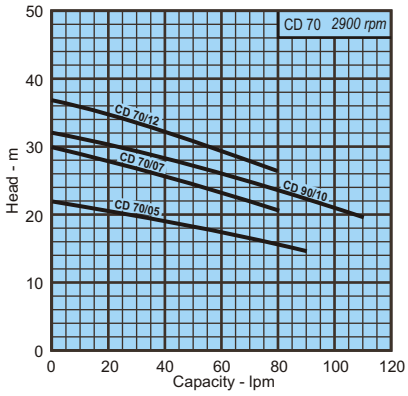
Options

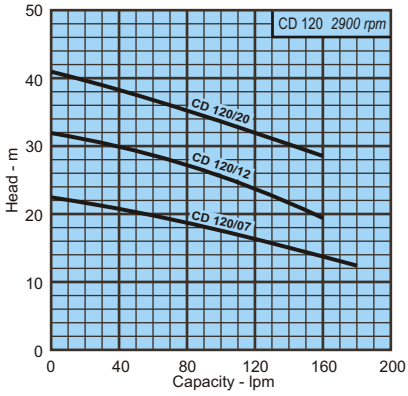
High temperature versions with Viton elastomers, suitable for liquid temperatures up to 110ºC.

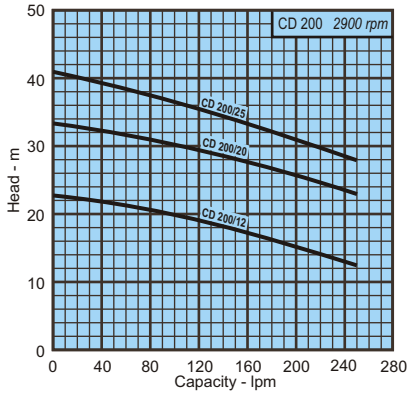
Hard face mechanical seal in Sic/SiC/Viton

Made almost entirely in AISI 304 stainless steel, these pumps also feature the one piece volute manufactured using Ebara's unique plasma stamping process. Suitable for:-

- Industrial, commercial and agricultural applications
- Water supply • Irrigation • Cooling towers
- Booster sets • Washing plants or machines
- Air conditioning systems • Heat exchangers
- For the pumping or boosting of water in general







Twin Impeller Pumps

in AISI 304 stainless steel

"2CD, 2CDX"

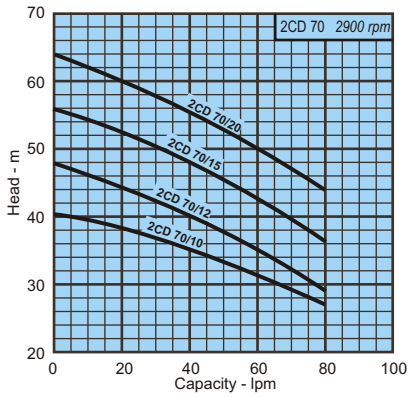
Motor output:	0.75 to 1.5 kW (1ph) 0.75 to 4.0 kW (3ph)
Outlet size:	25mm
Flow rates:	20 to 200 lpm
Head:	27 to 75 m
Max. liquid temp:	60ºC
Max. work. pressure:	8 Bar

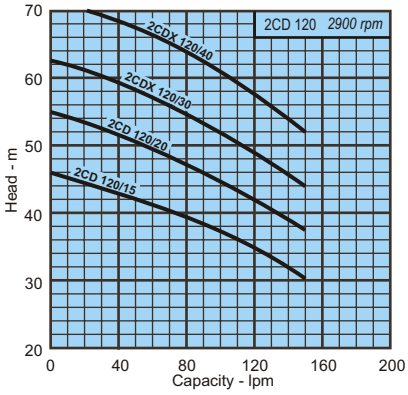
Options

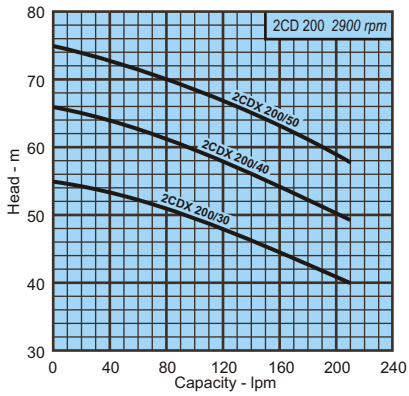
High temperature versions with Viton elastomers, suitable for liquid temperatures up to 110ºC.

Made almost entirely in AISI 304 stainless steel, these pumps with twin impellers are suitable for a variety of applications where higher pressures are required.

- Industrial, commercial and agricultural applications
- Water supply • Irrigation • Cooling towers
- Booster sets • Washing plants or machines
- Air conditioning systems • Heat exchangers
- For the pumping or boosting of water in general







Self Priming Jet Pumps

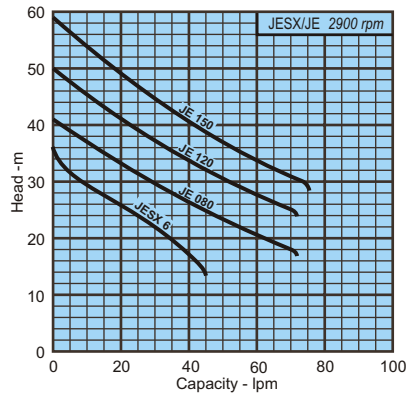
in AISI 304 stainless steel

"JESX", "JE"

For pumping clean water, even mixed with air, from depths of up to 8m. Suitable for :-

- Domestic pressure boosting • Small scale irrigation
- Emptying tanks & ponds • Drinking water supply
- Pumping clean water in general

Motor output:	0.44 to 1.1 kW (1ph)		
Outlet size:	25mm	*Max. liquid temp:*	45ºC
Flow rates:	5 to 90 lpm	*Max. working pressure:*	
Head:	15 to 59 m	6Bar	



EBARA

"AGA-C"

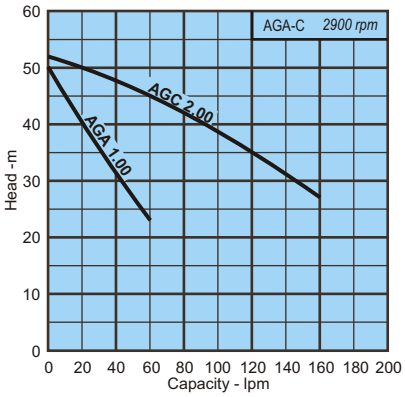
Self Priming Jet Pumps

in cast iron

For pumping clean water, even with entrained air, for a variety of applications:-

- **Domestic pressure boosting**
- **Vehicle washing**
- **Emptying tanks & ponds**
- **Small scale irrigation**
- **Pumping clean water in general**

Motor output:	0.75 to 1.5 kW (1ph)		
Outlet size:	25mm	*Max. liquid temp:*	45ºC
Flow rates:	5 to 160 lpm	*Max. working pressure:*	
Head:	24 to 52 m	6Bar (AGA) 10 bar (AGC)	



"PRA"

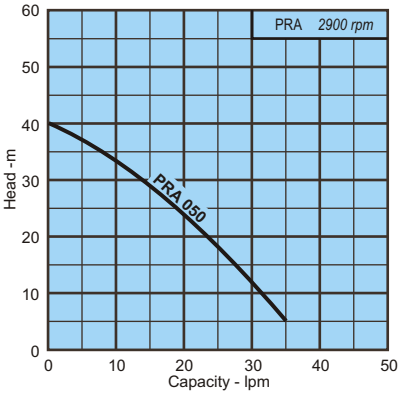
Peripheral Turbine Pumps

in cast iron

Develop high pressures with the limited use of power. Suitable for :-

- **Hot or cold water pressure boosting**
- **Supplying small boilers**
- **Washing systems**
- **Pumping clean water in general**

Motor output:	0.37 kW (1ph)		
Outlet size:	25mm	*Max. liquid temp:*	80ºC
Flow rates:	5 to 35 lpm	*Max. working pressure:*	
Head:	4 to 41m	6Bar	



"CMA-B"

Single Impeller Pumps

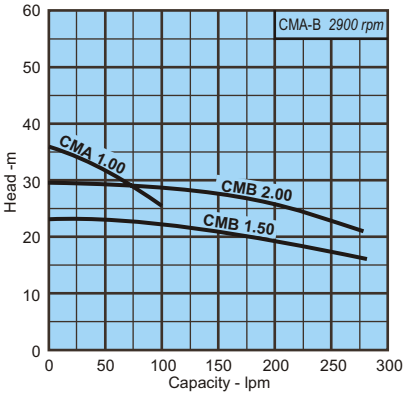
in cast iron

Suitable for the pumping of water and non aggressive liquids for a variety of uses:-

- **Domestic and agricultural pressure boosting**
- **Washing systems or plants**
- **Small scale irrigation**
- **Utilised in machinery for industrial use**

Motor output:	0.75 to 1.5 kW (1ph)		
Outlet size:	25 to 32 mm	*Max. liquid temp:*	90ºC*
Flow rates:	10 to 280 lpm	*Max. working pressure:*	
Head:	16 to 36m	6Bar	

*(40ºC for CMA)



"CDA"

Twin Impeller Pumps

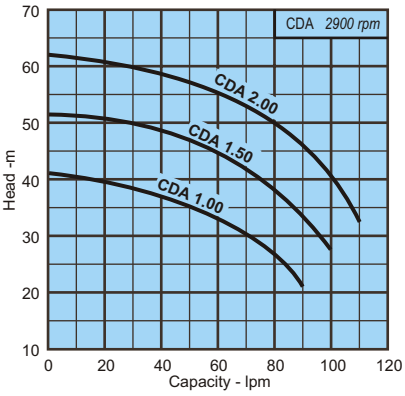
in cast iron

Twin impeller cast iron centrifugal pumps for higher pressures. Suitable for:-

- **Domestic and agricultural pressure boosting**
- **Washdown of dairies etc.**
- **Small scale irrigation**
- **Washing systems or plants**

Motor output:	0.75 to 1.5 kW (1ph)		
Outlet size:	25 mm	*Max. liquid temp:*	90ºC*
Flow rates:	10 to 110 lpm	*Max. working pressure:*	
Head:	20 to 62m	10Bar (6 Barfor CDA1.00)	

*(40ºC for CDA 1.00)



Pressure Systems

Many of the Ebara pumps are available as pressure systems, with either pressure switch and tank, or fitted with an automatic Presscontrol®.
For a reliable water supply, with models suitable for small houses, up to large houses with garden irrigation.

Model	*Motor Output kW*	*Nominal Operating Duty*	
JESX M6-P	0.44 kW	45 lpm at 140 kPA	
JEM 80-P	0.6 kW	60 lpm at 200 kPA	
JEM 120-P	0.88 kW	70 lpm at 240 kPA	
JEM 150-P	1.1 kW	75 lpm at 300 kPA	
CDM 70/12-P	0.9 kW	80 lpm at 270 kPA	

EBARA

"BEST ZERO", "BEST ONE"

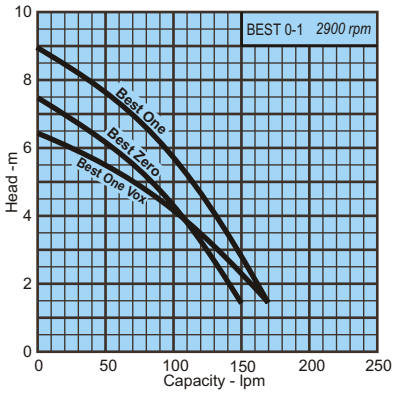
Domestic Sump Pumps in AISI 304 stainless steel

With a float switch for automatic operation, these are suitable for many domestic applications:-

- **Draining garage sumps, cellars, etc.**
- **Emptying ponds and tanks**
- **Emergency water transfer**

Motor output:	0.25 kW (1ph)	Automatic only	
Outlet size:	32 mm	*Max. liquid temp:*	40ºC
Flow rates:	20 to 170 lpm	*Max. immersion:*	5m
Head:	2 to 8.5 m	*Max. solids:*	10 mm

20mm for Best One Vox



double mechanical seal

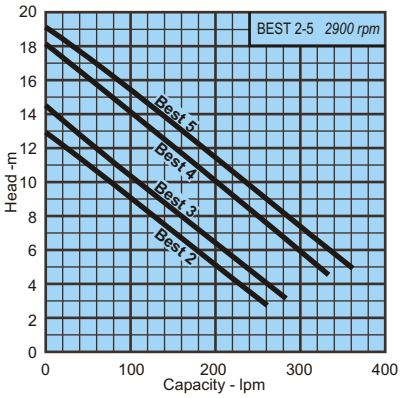
"BEST 2-5"

Submersible Sump Pumps in AISI 304 stainless steel

For reliable pumping of many sump applications, including:-

- **Draining sumps, wells, cellars, lift shafts, etc.**
- **Emptying pools and tanks • Small scale irrigation**
- **Fountains and water displays**

Motor output:	0.55 to 1.1 kW (1ph)	Manual or Automatic	
	0.55 to 1.5 kW (3ph)	Manual only	
Outlet size:	40 mm	*Max. liquid temp:*	50ºC
Flow rates:	20 to 360 lpm	*Max. immersion:*	10m
Head:	3 to 19 m	*Max. solids:*	10 mm



double mechanical seal

35 mm solids handling

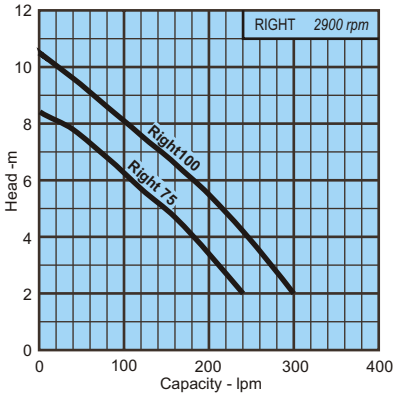
"RIGHT"

Submersible Semi Vortex Pumps in AISI 304 stainless steel

For the reliable pumping of dirty water containing some soft solids :-

- **Draining sumps, wells, cellars, lift shafts, etc.**
- **Emptying pools and tanks • Small scale irrigation**
- **Fountains and water displays**

Motor output:	0.55 to 0.75 kW (1ph)	Manual or Automatic	
	0.55 to 0.75 kW (3ph)	Manual only	
Outlet size:	40 mm	*Max. liquid temp:*	50ºC
Flow rates:	40 to 300 lpm	*Max. immersion:*	10m
Head:	2 to 10.5 m	*Max. solids:*	35 mm



double mechanical seal

50 mm solids handling

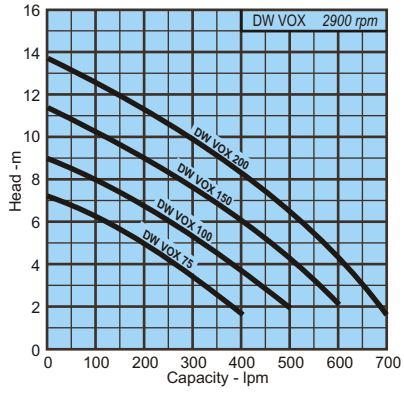
"DW VOX"

Submersible Vortex Pumps in AISI 304 stainless steel

With a vortex impeller, these are suitable for dirty water applications with some solids and/or fibres:-

- **Pumping of drainage and waste water**
- **Draining sumps, wells, cellars, lift shafts, etc.**
- **Pumping of industrial waste water**

Motor output:	0.55 to 1.1 kW (1ph)	Manual or Automatic	
	0.55 to 1.5 kW (3ph)	Manual only	
Outlet size:	50 mm	*Max. liquid temp:*	40ºC
Flow rates:	100 to 700 lpm	*Max. immersion:*	10m
Head:	2 to 14.5 m	*Max. solids:*	50 mm



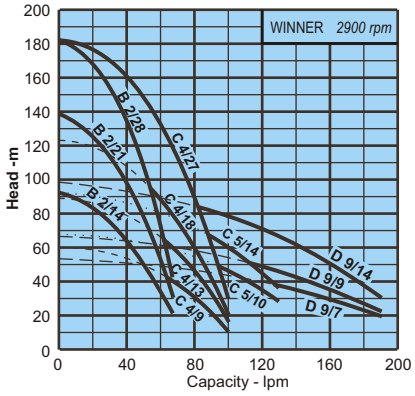
"WINNER"

4" Borehole Pumps in AISI 304 stainless steel & thermo plastics

These submersible multistage pumps have many applications including:-

- **The pumping of clear water from 4" bores**
- **Domestic, farm or industrial water supply**
- **Irrigation • Pumping of clean water in general**

Motor output:	0.75 to 2.2 kW (1ph)		
	0.75 to 2.2 kW (3ph)		
Outlet size:	32 to 50 mm	*Max. liquid temp:*	30ºC
Flow rates:	20 to 190 lpm	*Max. immersion:*	150m
Head:	10 to 180 m	*Max. sand:*	50 ppm



EBARA

Submersible Semi-Vortex Pumps

double mechanical seal

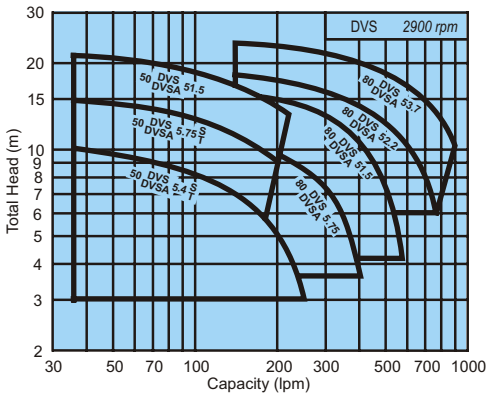
"DVS"

A robust cast iron pump, with solids handling semi-vortex impeller, ideal for :-

- Waste water applications with soft or fibrous material
- Dairy and piggery washdown
- Septic Effluent
- Food processing plants
- Textile and woollen mills

Motor output:	0.4 to 0.75 kW (1ph) Manual or Automatic 0.4 to 3.7 kW (3ph) Manual or Automatic		
Outlet size:	50 to 80 mm	*Max. liquid temp:*	40ºC
Flow rates:	40 to 1000 lpm	*Max. immersion:*	10m
Head:	3 to 25 m	*Max. solids:*	32 to 56 mm#

depending on model



Submersible Sewage Pumps

single channel impeller

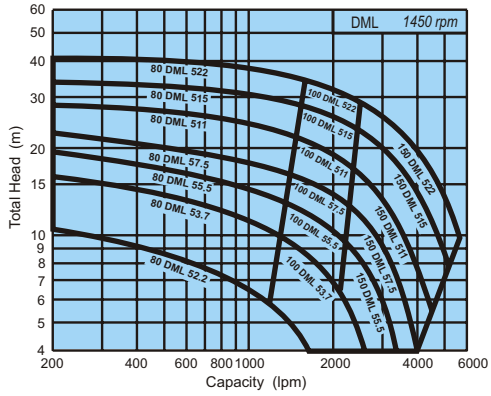
double mechanical seal

"DML"

With single channel impeller and double row lower bearings, a reliable and robust pump suitable for:-

- Raw sewage
- Treated sewage
- Effluent
- Storm water
- Municipal or industrial drainage
- Fountains and water displays

Motor output:	2.2 to 22 kW (3ph) Manual only		
Outlet size:	80 to 150 mm	*Max. liquid temp:*	40ºC
Flow rates:	20 to 5000 lpm	*Max. immersion:*	10m
Head:	4 to 40 m	*Max. solids:*	76 mm



Submersible Sump Pumps

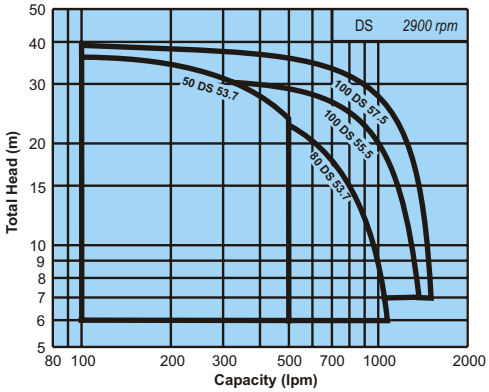
double mechanical seal

"DS"

For reliable pumping of many sump applications, including:-

- Draining sumps, wells, tanks, lift shafts, etc.
- Fountains and other water displays
- Irrigation
- Drainage
- Water supply

Motor output:	3.7 to 7.5 kW (3ph) Manual only		
Outlet size:	80 to 100 mm	*Max. liquid temp:*	40ºC
Flow rates:	100 to 1500 lpm	*Max. immersion:*	10m
Head:	6 to 39 m	*Max. solids:*	7 mm



Submersible Vortex Pumps

double mechanical seal

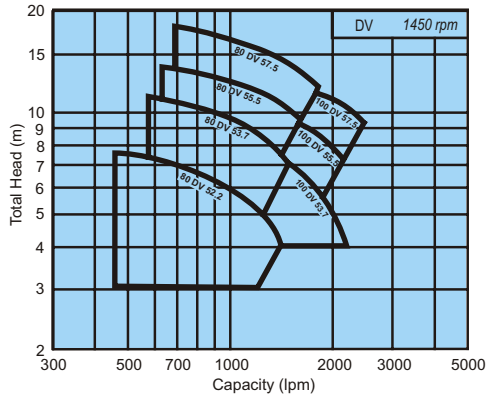
"DV"

Fully recessed vortex impeller for handling up to discharge size solids. Suitable for: -

- Waste water applications with soft or fibrous material
- Paper mills
- Treatment plants
- Raw Sewage
- Food processing plants
- Textile and woollen mills

Motor output:	2.2 to 7.5 kW (3ph) Manual only		
Outlet size:	80 to 100 mm	*Max. liquid temp:*	40ºC
Flow rates:	400 to 2500 lpm	*Max. immersion:*	10m
Head:	3 to 19 m	*Max. solids:*	80 or 100 mm

depending on model



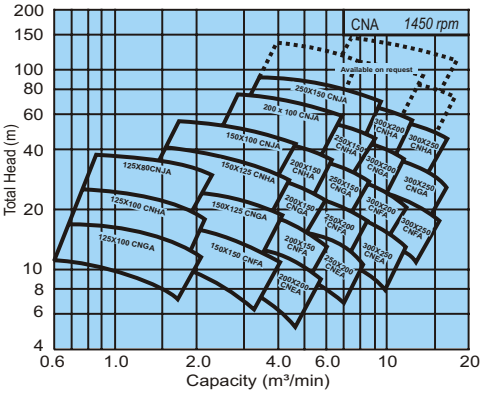
Horizontal Split Case Pumps

"CNA"

A very compact and robust design range of pumps, suitable for many applications :-

- Industrial, municipal, commercial & agriculture
- Water supply
- Hot or cold water circulation
- Irrigation
- Cooling towers
- Drainage

Materials:	Cast iron casing, bronze impeller, 316 SS shaft		
Shaft seal:	Mechanical seal (optional gland packing)		
Power used:	up to 160 kW	*Flow rates:*	0.6 to 17 m^3/min
Outlet size:	100 to 250 mm	*Head:*	5 to 95 m



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