

## Helicoidal Impeller Pump



### I Application

The RVS pump is a high efficiency pump. Due to the helicoidal design of the impeller, it allows to pump delicate products without damaging it, e.g. solid particles suspended in water (proportion: 40% to 60%).

It is intended for pumping pieces of fruit or whole fruits, olives, mushrooms, orange segments, vegetables, fish, etc.

In comparison with the the RV\_XX range, the RV\_XXR pumps are provided with a bearing support in the lantern for work with viscous products and for applications provoking an increased axial stress.

### I Operating principle

Due to the helicoidal shape of the impeller, the pump lets solid particles pass without destroying their structure, thus, avoiding any damage to the product during the transfer and preserving its quality.

### I Design and features

Close-coupled design.

Helicoidal impeller.

Pump casing with drain port.

Pump casing with eccentric volute.

**High efficiency (>70%), low power consumption.**

Motor: IEC B35 1500 rpm.

Mechanical seal: EN 12756 (DIN 24960 L1K).

Connections: DIN 11851.

Bearing support integrated into the lantern (RVS-80R and RVS-100R).

Maximum particle size:  $\varnothing$  75mm.

mushrooms

fruit



fish

olives

vegetables

### I Materials

Parts in contact with the product

AISI 316L

Lantern

AISI 316L

Other st.st. parts

AISI 304

Bearing support (RVS\_XXR)

GG 25

Gaskets

EPDM

Mechanical seal

SiC/SiC/EPDM

Internal surface finish

$Ra \leq 0,8 \mu m$

External surface finish

mirror polish

### I Options

Connections: SMS, Clamp, Macon, Garolla, FIL, RJT.

CE control panel with 10 m cable and plug.

St.St. trolley.

Remote control.

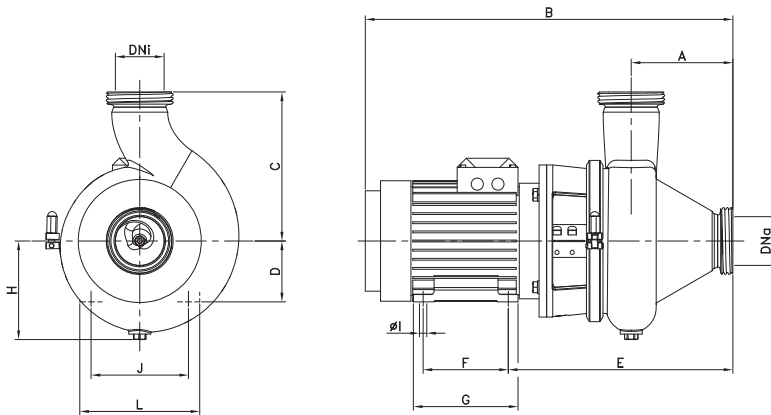
Motor shroud.

Motor with a frequency converter.



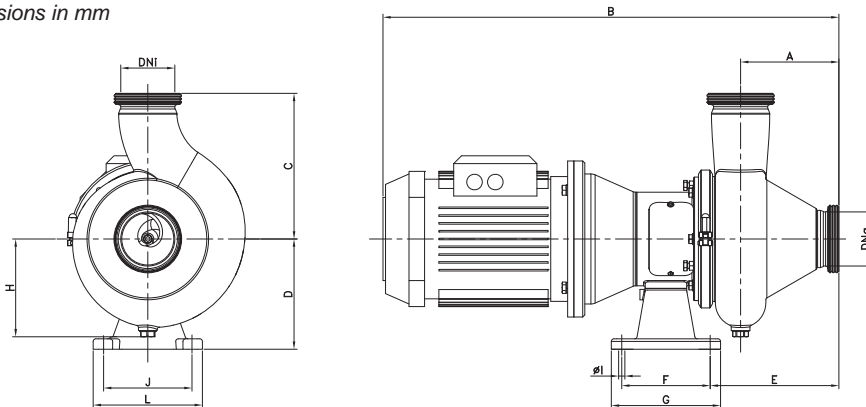
## I Technical specifications

Max. flow	180 m <sup>3</sup> /h	793 US GPM
Max. differential head	22 mwc	72 ft
Max. working pressure	10 bar	145 PSI
Max. working temperature	-10 °C to +120 °C (EPDM)	14 °F to 248 °F
	+140 °C (SIP, max. 30 min)	284 °F
Max. speed	1800 rpm	



TYPE	Ø solids [mm]	Power [kW] (IEC)	Speed [rpm]	DNa DNi	A	B	C	D	E	F	G	H	ØI	J	L
RVS-65	45	0,75 (80)	1500	65	120	483	215	80	283	100	125	130	10	125	160
RVS-80	60	2,2 (100) 4 (112)		80	167	632	245	100	369	140	172	163	12	160	197
RVS-100	75	4 (112)		100	189	671	280	112	406	140	172	186	12	190	220

Dimensions in mm



TYPE	Ø solids [mm]	Power [kW] (IEC)	Speed [rpm]	DNa DNi	A	B	C	D	E	F	G	H	ØI	J	L
RVS-80R	60	2,2 (100)	1500	80	167	765	245	212	225,5	170	210	165	13	170	210
		4 (112)			167	795	245	212	225,5	170	210	165	13	170	210
RVS-100R	75	4 (112)		100	189	817	280	212	247,5	170	210	188	13	170	210
		5,5 (132) 7,5 (132)			189	875	280	212	247,5	170	210	188	13	170	210

Dimensions in mm



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