



## Positive sinusoidal displacement pumps



### SN series

#### Positive displacement pumps with a sinusoidal rotor.

- Gentle handling of the product thanks to the shape of the rotor and the working without any product slip and death zone.
- Very high efficiency.
- Excellent suction capability.
- Constant performance even with products having range of viscosities.

Flow rates from 0 to 100 m<sup>3</sup>/h  
Max. pressure 15 bar  
Suction capability up to 0,8 bar



### ADVANTAGES

- Excellent suction capability - continuously open inlet.
- Extremely gentle product transfer.
- No foaming of the pumped product.
- Compact design.
- Dry running is possible for a short period.
- Nearly all main wearing parts can be exchanged inline, without disconnecting the inlet and outlet pipes.

### PRODUCTS

Low and high viscosity liquids; Cremes, Lotions, Products for the fine chemical and pharmaceutical industry, nearly all thin and thick liquid food products with or without particles. Products with a low abrasive content.

### TYPICAL PUMPABLE PRODUCTS

- Food industry: Juices, Fruit concentrates, Beverages, Syrups, Alcoholic beverages, Waters etc., Diced tomatoes, Cooked vegetables in pieces, Fruit salads, Soups and other food products, Delicatessen salads, Chocolate and Creams.
- Dairy industry: Processed cheese, Yoghurt, Whey, Ricotta Cheese, Cheese Curd of all kinds, Butter.
- Fine Chemicals and Cosmetics: Cosmetic products, Cremes, Gel, Shampoo, Toothpaste, Body lotions, Cleaning liquids, Paints and coatings.

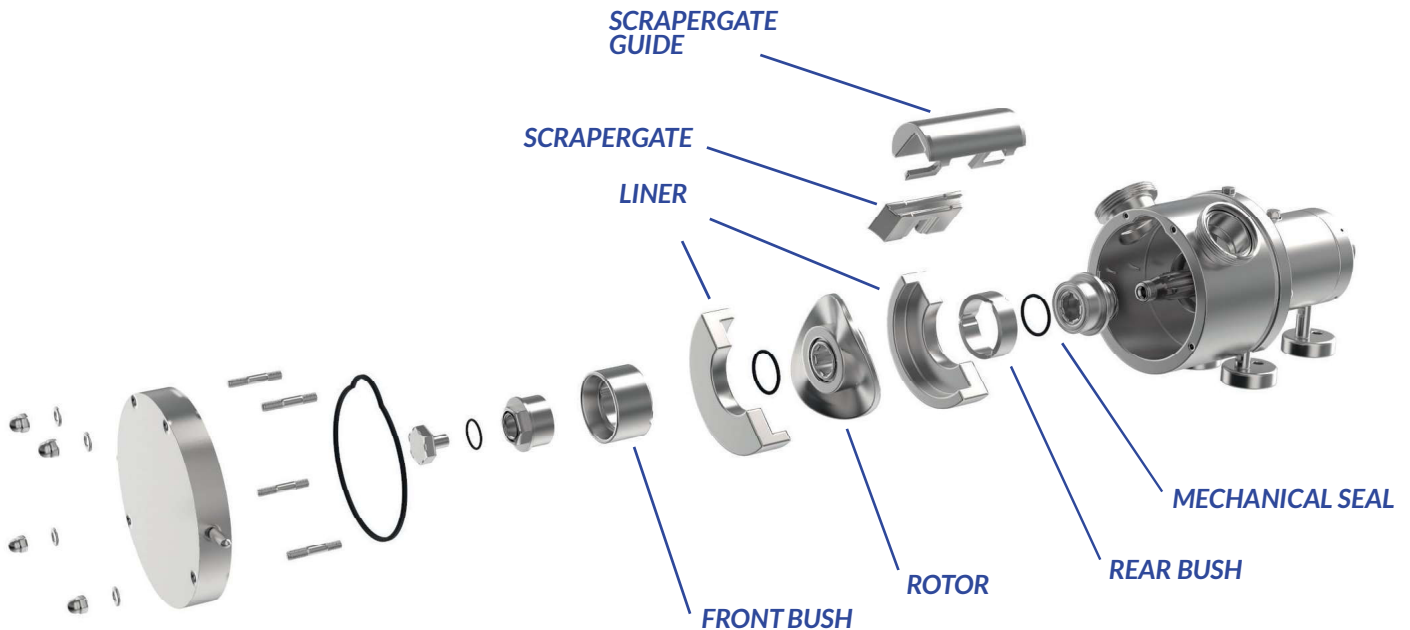
## CHARACTERISTIC

- Single mechanical seal with flush
- Pump in 316 stainless steel with internal front bush, liners and scrapergate made from polymers.
- O-rings in EPDM or FKM.

A wide choice of materials and motorization options to suit customers' application and product requirements.

All the materials are FDA certified.

Single mechanical seal protected and bidirectional.



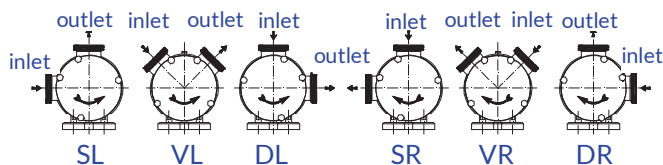
### Max particle size:

SN 65 : 18 mm  
 SN 80 : 25 mm  
 SN100 : 35 mm  
 SN150 : 36/38 mm

### Connections:

DIN - SMS - IDF - BS / RJT - DS - CLAMP and EN 1092-1 PN 16 flanges suitable for all international standards.

### Position of connections and rotation



## PERFORMANCES

### SN 65-80-100 Series

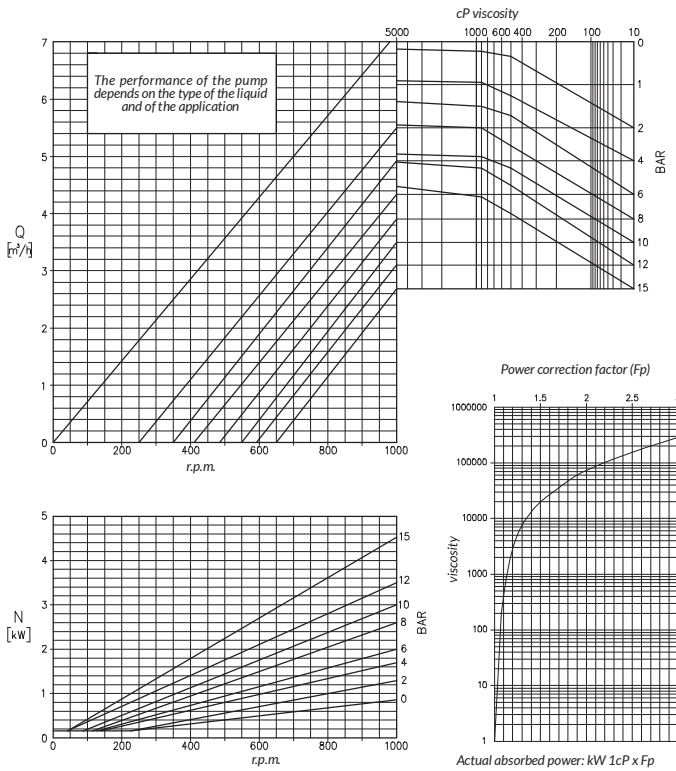
Flow rates from 0 to 36 m<sup>3</sup>/h.  
 Max. pressure 15 bar.  
 Suction capability up to 8 meters with wetted pump.  
 Temperatures between -10° and +90°C.  
 Max. product viscosity up to 1.000.000 CP.

### SN 150 Series

Flow rates from 0 to 100 m<sup>3</sup>/h.  
 Max pressure 5 Bar.  
 Suction capability up to 7 meters with wetted pump.  
 Temperatures between -10° and +90°C.  
 Max. product viscosity up to 500.000 CP.

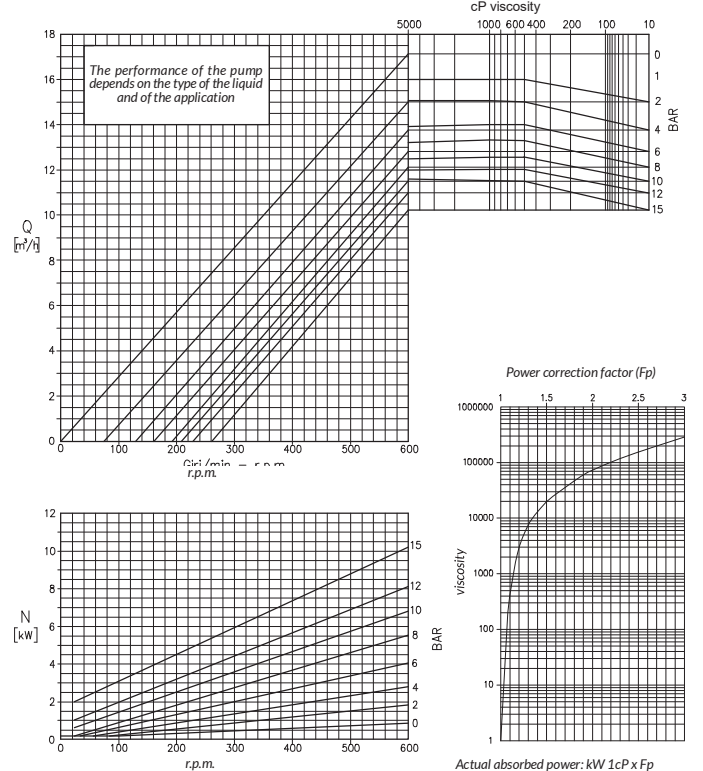
### SN 65 (2"1/2) PERFORMANCE CHART THEORETICAL VOLUMETRICAL PERFORMANCE Q= 0,11 L/REV

POMPA TIPO SN 65						Raccordi femmina DIN 11851 Connection male DIN 11851	
Rotore fino a 70°C up to 158°F	Rotore ridotto 70°C - 100°C 158°F - 212°F	Potenza minima installata Minimum installed power	Potenza massima ammisibile Maximum allowable power	Dimensione massima prodotto solido Maximum dimension of the solid product	Portata teorica a giro Theoretical revolutional delivery	Bocca aspir. Suction port DN 65	
97,9 mm	---	0,5 kW	---	18 mm	0,11 l	Bocca mand. Discharge port DN 65	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm <sup>3</sup> ) - VISCOSITA' 1 (cps) Curves show performance with clear water at 68°F - Specific gravity 1 (kg/dm <sup>3</sup> ) - Viscosity 1 (cps)							



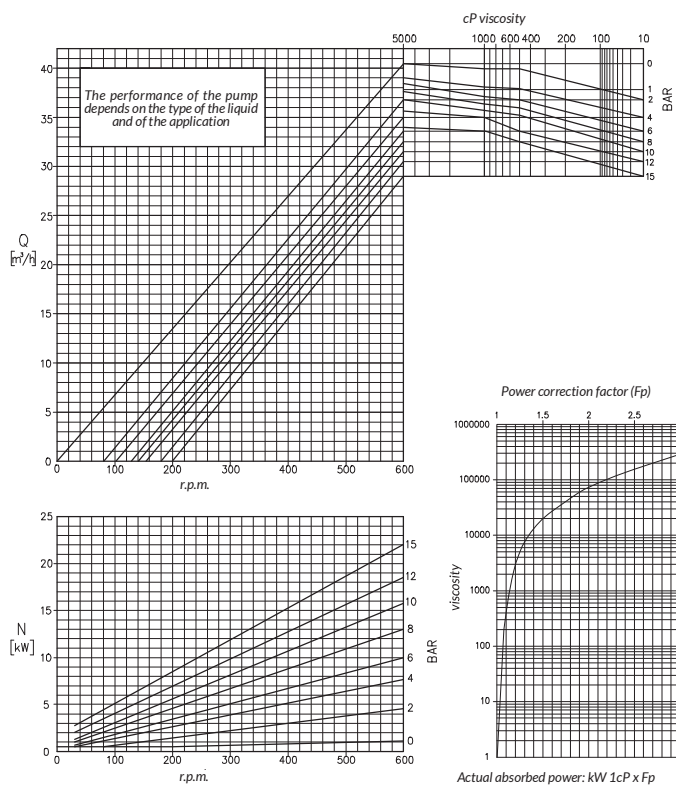
### SN 80 (3") PERFORMANCE CHART THEORETICAL VOLUMETRICAL PERFORMANCE Q= 0,45 L/REV

POMPA TIPO SN 80						Raccordi femmina DIN 11851 Connection male DIN 11851	
Rotore fino a 70°C up to 158°F	Rotore ridotto 70°C - 100°C 158°F - 212°F	Potenza minima installata Minimum installed power	Potenza massima ammisibile Maximum allowable power	Dimensione massima prodotto solido Maximum dimension of the solid product	Portata teorica a giro Theoretical revolutional delivery	Bocca aspir. Suction port DN 80	
165 mm	---	1 kW	---	25 mm	0,45 l	Bocca mand. Discharge port DN 80	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm <sup>3</sup> ) - VISCOSITA' 1 (cps) Curves show performance with clear water at 68°F - Specific gravity 1 (kg/dm <sup>3</sup> ) - Viscosity 1 (cps)							



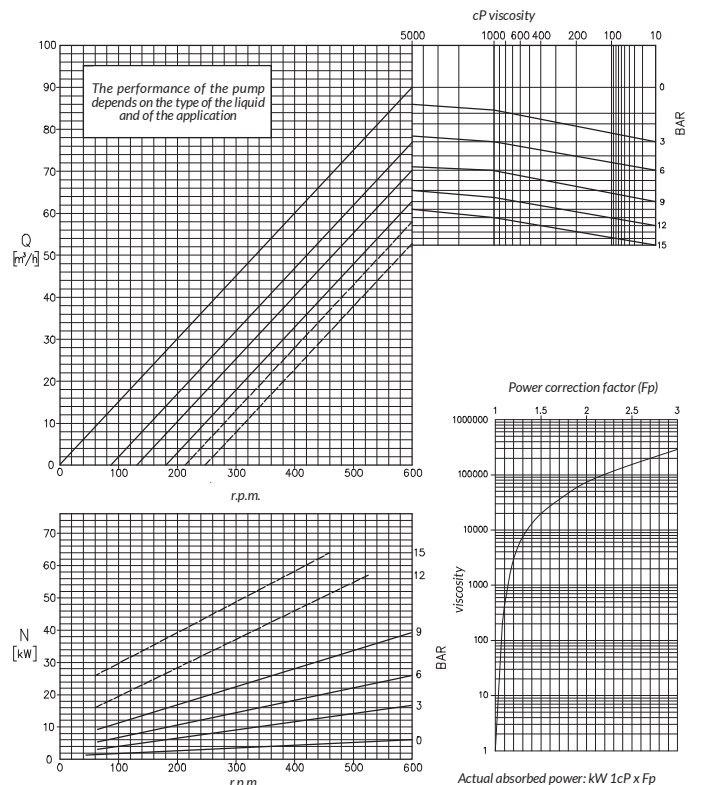
### SN 100 (4") PERFORMANCE CHART THEORETICAL VOLUMETRICAL PERFORMANCE Q= 1,05 L/REV

POMPA TIPO SN 100						Raccordi femmina DIN 11851 Connection male DIN 11851	
Rotore fino a 70°C up to 158°F	Rotore ridotto 70°C - 100°C 158°F - 212°F	Potenza minima installata Minimum installed power	Potenza massima ammisibile Maximum allowable power	Dimensione massima prodotto solido Maximum dimension of the solid product	Portata teorica a giro Theoretical revolutional delivery	Bocca aspir. Suction port DN 100	
218 mm	---	1 kW	---	35 mm	1,05 l	Bocca mand. Discharge port DN 100	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm <sup>3</sup> ) - VISCOSITA' 1 (cps) Curves show performance with clear water at 68°F - Specific gravity 1 (kg/dm <sup>3</sup> ) - Viscosity 1 (cps)							

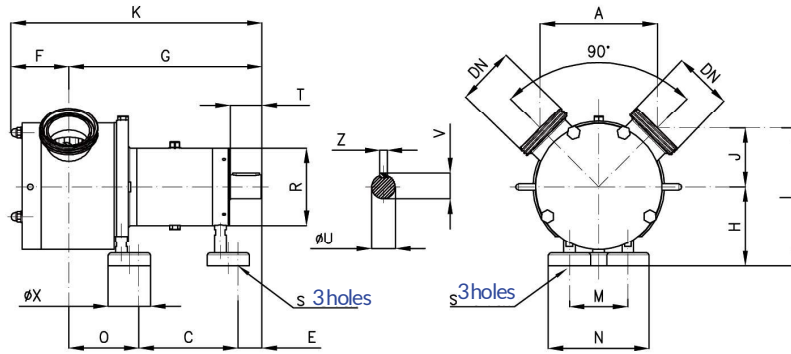


### SN 150 PERFORMANCE CHART FL. DN 150 THEORETICAL VOLUMETRICAL PERFORMANCE Q= 2,5 L/REV

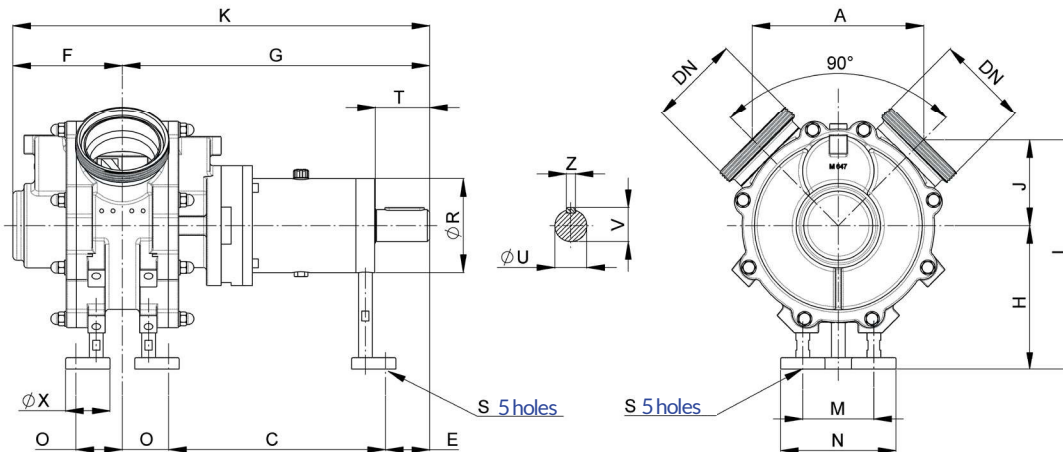
POMPA TIPO SN 150						Raccordi femmina DIN 11851 Connection male DIN 11851	
Rotore fino a 70°C up to 158°F	Rotore ridotto 70°C - 100°C 158°F - 212°F	Potenza minima installata Minimum installed power	Potenza massima ammisibile Maximum allowable power	Dimensione massima prodotto solido Maximum dimension of the solid product	Portata teorica a giro Theoretical revolutional delivery	Bocca aspir. Suction port DN 150	
270 mm	---	11 kW	---	40 mm	2,5 l	Bocca mand. Discharge port DN 150	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm <sup>3</sup> ) - VISCOSITA' 1 (cps) Curves show performance with clear water at 68°F - Specific gravity 1 (kg/dm <sup>3</sup> ) - Viscosity 1 (cps)							



# OVERALL DIMENSIONS - SN Series



SN 150



	Pump model			
	SN 65	SN 80	SN 100	SN 150
A	150	221	263	348
C	117	186	247	439
E	37	45.5	69	90
F	81	109	132.5	222
G	251	363.5	463	623
H	95	150	195	292
K	332	472.5	596.5	845
J	68	110.5	139	173
I	163	260.5	334	465
M	56	110	160	144
N	106	190	240	234
O	97	132	147	94
R	100	145	190	190
S	12	16	16	21
T	50	60	80	110
U	28	45	50	65
V	31	48.5	53.5	69
X	50	80	80	90
Z	8	14	14	18
DN DIN 11851	65	80	100	150
DN SMS	2"1/2	3"	4"	-
DN RJT	2"1/2	3"	4"	-
DN Clamp	2"1/2	3"	4"	-
DN Flange PN16	65	80	100	150
Weight	21,5	75,5	138	245



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