



Comply to : 2006/42/CE

Available upon request :

ATEX 100 (Ex)
Directive 94/9/EC

Flanges:
UNI 1092 PN16RF type B
ANSI 150RF





Mag drive concept

The synchronous drive configuration is based on an outer magnet ring assembly built to magnetically couple with an inner magnet ring assembly.

These two magnet rings are locked together by the flux of attracting magnet poles flowing through the containment isolation shell.



STANDARD EXECUTION with Motor



STN
ATEX EXECUTION
without Motor

Versatility

The STN offer a wide range of materials for the wetted parts:

- PP-GF (Polypropylene-Glass filled)
- CFR-ETFE (Carbon filled Ethylene tetrafluoroethylene) *only casing

Reliability

Suitable for handling corrosive, aggressive and hazardous liquids (low viscosity, clean or slightly contaminated) in the chemical applications.

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Made with a reliable quality as the ETN but designed for smaller applications or where the working condition are less critical.

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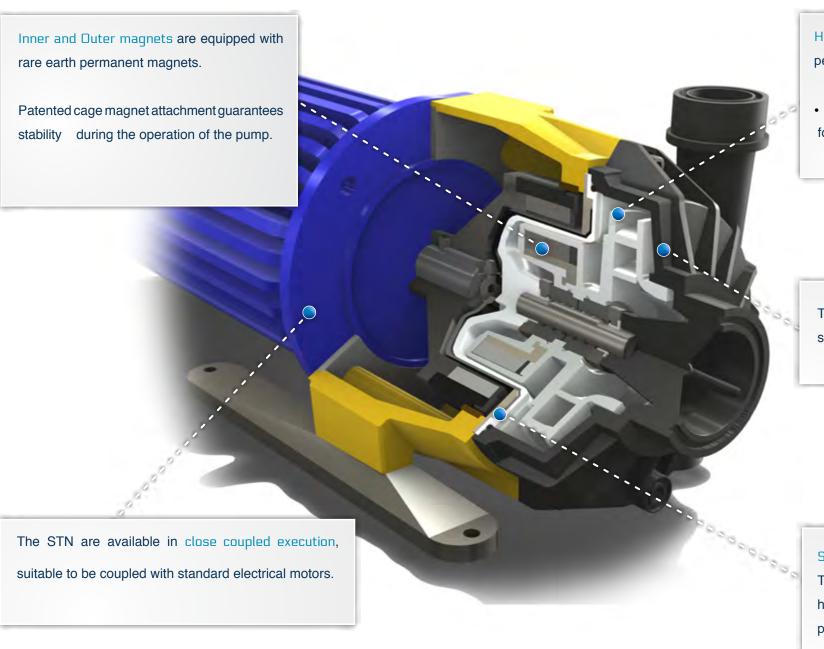
Janic Industry





Application Fields

3D VIEW



High chemical resistance employing a performing material as **CFR-ETFE**.

 Alternative available materials for the Wetted parts: PP.

The casing's design is reinforced by a solid rib structure.

Sealless design

Total containment, essential for hazardous, aggressive or valuable product.

FEATURES



Available in CFR-ETFE and PP-GF execution

· Standard casing drain for a complete and fast draining of the casing



IMPELLER ASSEMBLY

- The integral design of the impeller and inner magnet prevents any misalignment problem, also reducing the production cost
- Standard back vanes reduce axial thrust and seal chamber pressures to guarantee an extraordinary bearing and seal life.



ISOLATION SHELL

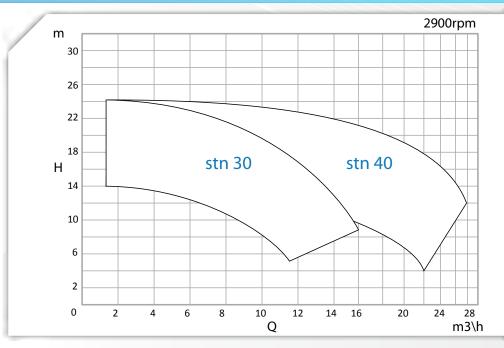
- ETFE Non-metallic double Isolation Shell configuration on wet side, externally reinforced by a Polycarbonate can As alternative, it is available made by a solid 3 mm PP-GF layer
- Eddy Current Losses thanks to non-metallic execution

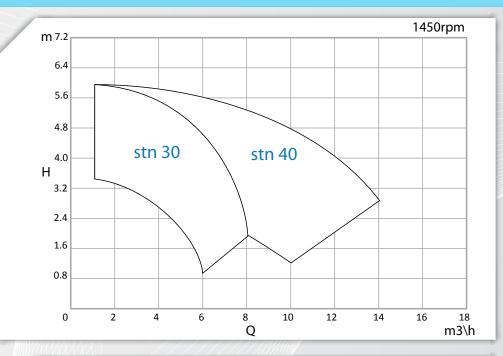


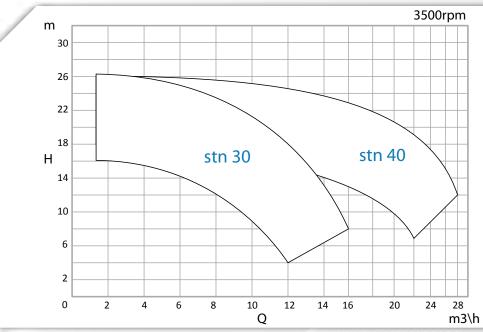
SHAFT

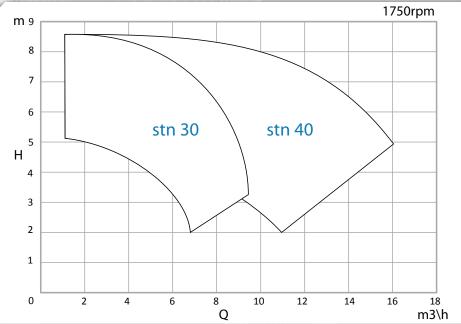
· Axial and radial loads are well distributed thanks to the highly reliable rotating parts design. The static shaft (SiC or Ceramic) is supported in the can and by the lining suction cover.

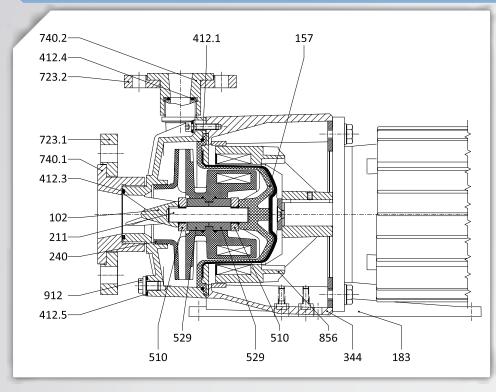












list
Part
dmnc

DIN	Component	Material				
102	Casing	PP-GF / CFR-ETFE				
157	Isolation Shell	PP-GF / ETFE+PC				
183	Support foot	Ryton/Inox				
211	Pump Shaft	SiC / Al2O3				
240	Impeller Assembly	PP/ETFE				
344	Lantern	PP-GF / GS400				
412.1	O-Ring Casing	EPDM / FPM / FKM				
412.5	O-Ring	EPDM / FPM / FKM				
510	Thrust Bearing	SiC / Al2O3				
529	Bearing Sleeve	SiC / PTFE-Al2O3 / Graphite				
856	Outer Magnet	GS400+Ryton				
912	Threaded Cap	PTFE				

Performances 2900 rpm	Q max = 28 m3/h -> H max = 25 mcl						
Electric Motors	0.75 kW (motor size 80) -> 4 kW (motor size 112)						
Temperature range	 PP-GF : 0°C -> +60°C CFR-ETFE : -15°C -> +80°C 						
Allowable Pressure Range	 PP : from 6 bar (20°C) to 4 bar (60°C) CFR-ETFE : from 6 bar (20°C) to 4 bar (80°C) 						
Threaded Connections	STN 30 (G2" X G1") STN 40 (G2"¾ X G1"½) * as option : Flanges ISO 1092 PN16RF or ANSI 150 RF						
Viscosity	1cSt min - 100 cSt max						
Allowable Solids	Max concentration 2 % by weight / Max particle size 0,10 mm						

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DIN	Component	Material
412.3	O-Ring	EPDM /FPM / FKM
412.4	O-Ring	EPDM / FPM / FKM
723.1	Suction Flange	PP-STEEL / AISI 304
723.2	Suction Flange	PP-STEEL / AISI 304
740.1	Flare connection	PP / ETFE-AISI 304
740.2	Flare connection	PP / ETFE-AISI 304

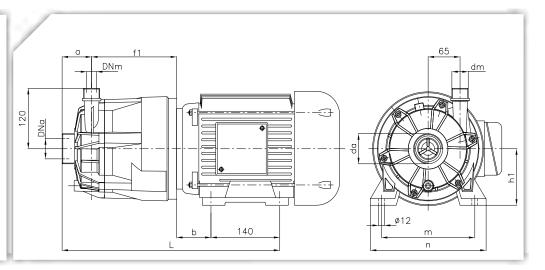


OVERALL DIMENSIONS

STN 30/40 MOTOR SIZE 80/90

0 156.5 DNM 19 280 160 200

STN 30/40 MOTOR SIZE 100/112



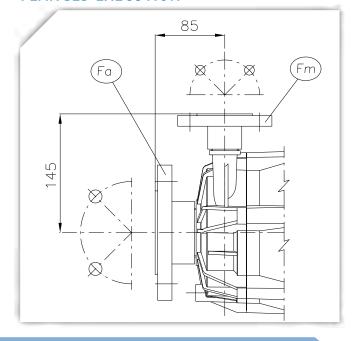
STN 30/40 MOTOR SIZE 80/90

Model	DNa	DNm	da	dm	a L (mm) (mm)		Motor Frame	
STN 30	40	20	G 2"	G 1"	60	370	80 / 90 B5	
STN 40	50	32	G 2 3/4"	G 1 1/2"	67	377	80 / 90 B5	

STN 30/40 MOTOR SIZE 100/112

Model	DNa	DNm	da	dm	a (mm)	b (mm)	h1 (mm)	L (mm)	f1 (mm)	m (mm)	n (mm)	Motor Frame
6- 11.00	40	20	G 2"	G 1"	60	63	100	438	173	180	200	100 B3 / B14
STN 30	40	20	G 2"	G 1"	60	70	112	443	173	190	240	112 B3 / B14
	50	32	G 2 -3/4"	G 1-1/2"	67	63	100	443	173	180	200	100 B3 / B14
STN 40	50	32	G 2-3/4"	G 1-1/2"	67	70	112	450	173	190	240	112 B3 / B14

FLANGED EXECUTION







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Technical Characteristics

The technical data and characteristics stated in this General Catalogue are not binding. CDR Pompe S.p.a. reserves the right to make modifications without notice. Therefore data, dimensions, performances and any other stated issues are indicative only and not binding. Anyway for any technical details you must require an up-to-date product technical card.