STN



STN 40 PP-GF

ATEX 100 Directive 2014/34/EC Flanges :

Compact, Plastic and Fluoroplastic Magnetic drive Horizontal - Single Stage - Centrifugal pumps PP-GF (Polypropylene-Glass filled) - CFR-ETFE (Carbon filled - Ethylene tetrafluoroethylene) Close-coupled execution



Comply to : 2006/42/CE

Available upon request :

UNI 1092 PN16RF type B

ANSI 150RF

STN

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.



Air Treatment

Waste Water Treatment

STANDARD EXECUTION with Motor

STN ATEX EXECUTION

without Motor

C.I.P.

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

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

Made with a reliab designed for smalle working condition a

Galvanic Industry

Versatility

Reliability

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



Basic chemical service

3D VIEW

Inner and Duter magnets are equipped with rare earth permanent magnets.

Patented cage magnet attachment guarantees stability during the operation of the pump.

The STN are available in close coupled execution, suitable to be coupled with standard electrical motors.

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.

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FEATURES



CASING

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
- Zero Eddy Current Losses
 thanks to non-metallic execution



SHAFT

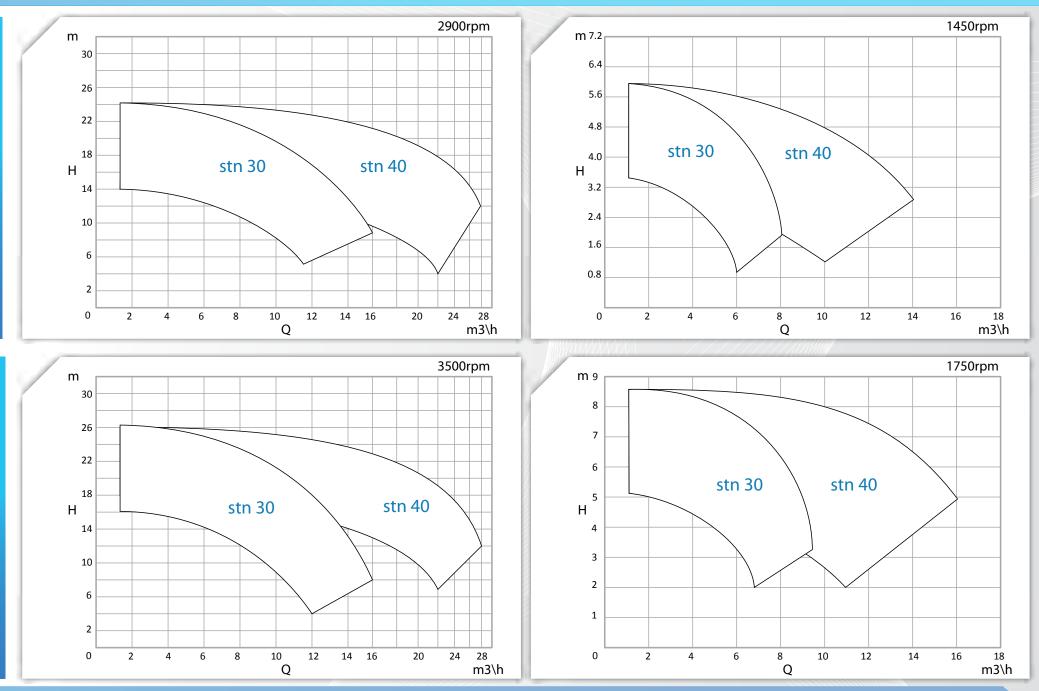
• Axial and radial loads are well distributed thanks to the highly reliable rotating parts design. The static shaft (SiC or Ceramic) is supported in the can and by the lining suction cover.



PERFORMANCE FIELDS

50Hz

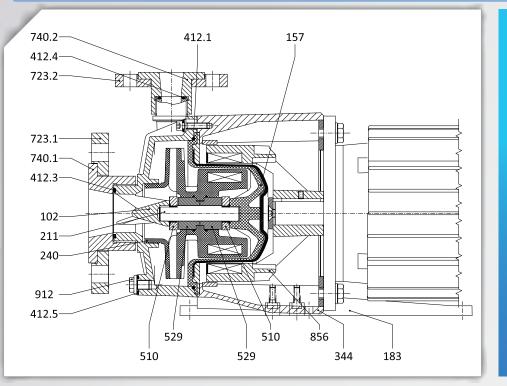
60Hz



Not binding data refers to water at room temperature. For specific performance curve contact CDR Pompe Srl.

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SECTIONAL DRAWING



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

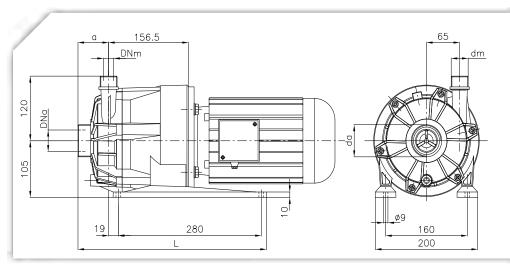
	DIN	Component	Material				
	102	Casing	PP-GF / CFR-ETFE				
	157	Isolation Shell	PP-GF / ETFE+PC				
	183	Support foot	Ryton/Inox				
	211	Pump Shaft	SiC / Al2O3				
	240	Impeller Assembly	PP/ETFE				
	344	Lantern	PP-GF / GS400				
	412.1	O-Ring Casing	EPDM / FPM / FKM				
list	412.5	O-Ring	EPDM / FPM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

	DIN	Component	Material				
	412.3	O-Ring	EPDM /FPM / FKM				
Flange connections	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				
E	740.2	Flare connection	PP / ETFE-AISI 304				



OVERALL DIMENSIONS

STN 30/40 MOTOR SIZE 80/90



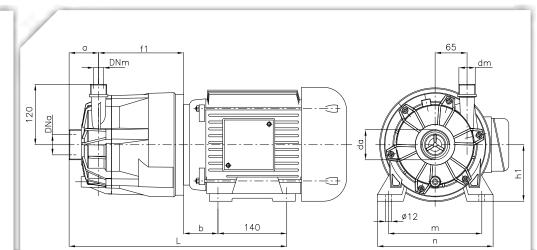
STN 30/40 MOTOR SIZE 80/90

Model	DNa	DNm	da	dm	a (mm)	L (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

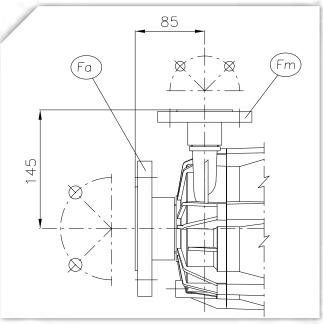
STN 30/40 MOTOR SIZE 100/112

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

STN 30/40 MOTOR SIZE 100/112



FLANGED EXECUTION



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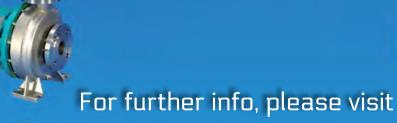




TB - STN 2017.11



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