STN 70



STN 70







STN 40

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



Comply to: 2006/42/CE

Available upon request:



Flanges:
UNI 1092 PN10RF 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.



STN
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

eliability

Design

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

Made with a reliable quality like the ETN range, but designed for a redeuced and economical requirement profile

asic chemical service



agr industry



C.I.P.



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Water treatment Non exchange ration





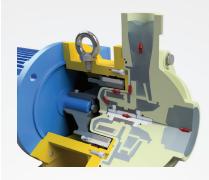
Application fields

3D VIEW - STN 70

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

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





New internal circulation path to improve flushing and lubrication of bushes, to keep bushes and shaft cooled and lubricated, even under stress conditions, i.e. end of curve and/or cavitation conditions.

Sealless design.

Total containment, essential for hazardous, aggressive or valuable

product.

FEATURES - STN 70



CASING

Available in 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

Available made by a solid 3 mm PP-GF layer Zero Eddy Current Losses thanks to non-metallic execution



SHAFT AND BUSHES

Axial and radial loads are well distributed thanks to the highly reliable rotating parts design.

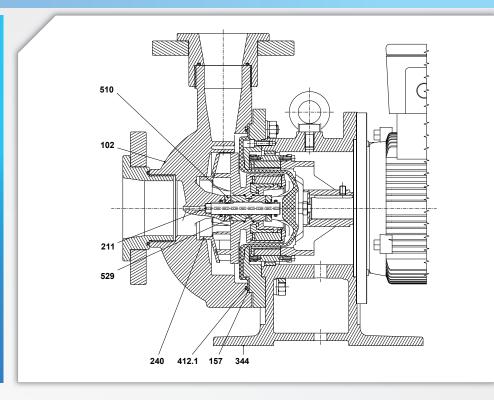
The static shaft (SiC or Ceramic) is supported in the can and by the lining suction cover.

Interchangeability of bushes, axial thrusts and shaft between ETN EVO and STN 70

Bushes available in PTFE/Carbon.



SECTIONAL DRAWING - STN 70



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DIN	Component	Material
102	Casing	PP-GF
157	Isolation shell	PP
183	Feet	Ryton/Inox
211	Shaft	SiC / Al2O3
240	Impeller assembly	PP
344	Lantern	GS400
412.1	O-ring casing	EPDM / FPM
412.5	O-Ring	EPDM / FPM
510	Thrust Bearing	SiC / Al2O3
529	Bearing Sleeve	PTFE/carbon/SIC/graphite
856	Outer Magnet	GS400+Ryton

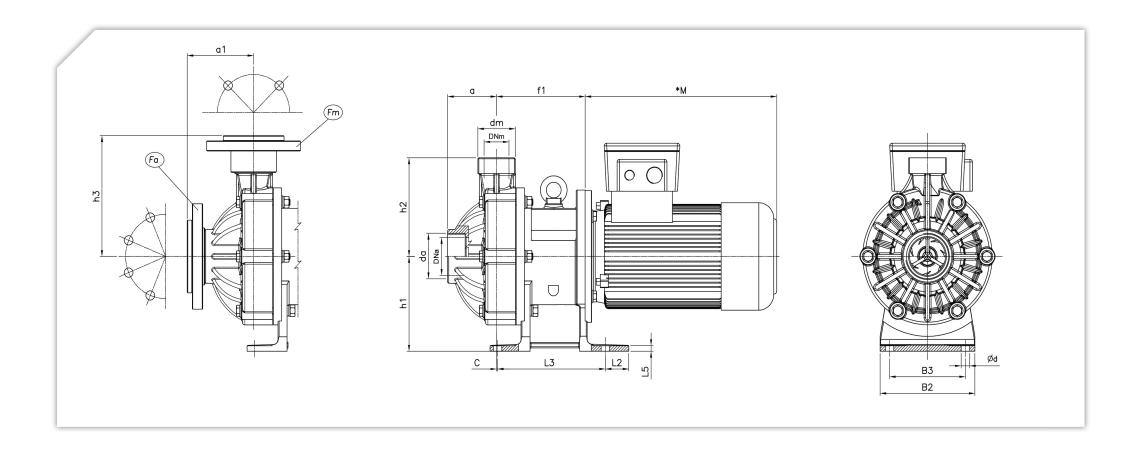
Performances 2900 rpm	Q max = 62 m3/h -> H max = 30 mcl
Electric Motors	0.75 kW (motor size 80) -> 4 kW (motor size 112)
Temperature range	● PP-GF: 0°C -> +60°C
Allowable Pressure Range	● PP : from 6 bar (20°C) to 4 bar (60°C)
Threaded Connections	STN 70 Threaded execution = DN 80 / DN 50 Flanged execution = DN 80 / DN 65 * as option: flanges ISO 1092 PN16RF or ANSI 150RF
Viscosity	1cSt min - 100 cSt max
Allowable Solids	Max concentration 2 % by weight / Max particle size 0,10 mm

Painting Coating Quality

The metal surfaces are protected by a high performance three layers coating (240 micron total)

- Epoxy zinc paint
- Epoxy amidic modified viny
- Epoxy enamel paint or aliphatic acrylic polyurethane.
- Available upon request: EN ISO 12944-5 C5M and C5I protecting paint system grades
- RAL 1017

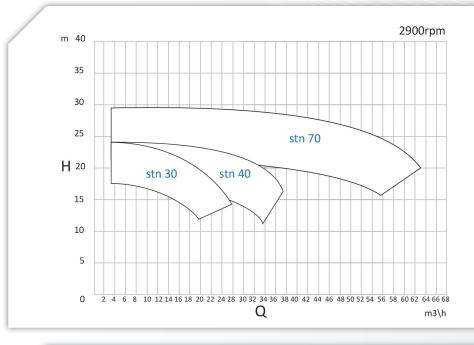
OVERALL DIMENSIONS – STN 70

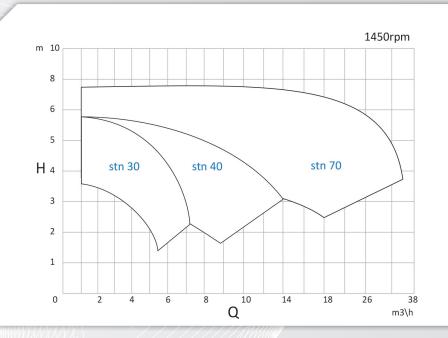


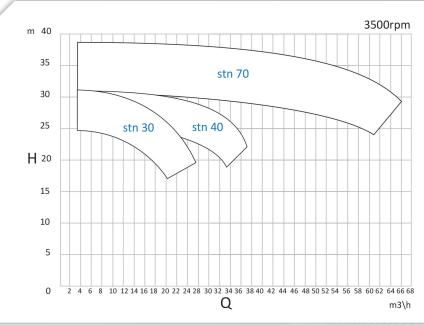
Pump Model DNa	DNa	DNm	E ₂		Em		da	dm	a	a1	B2	В3	c	Ød	h1	h2	h3	L2	L3	L5			F1			Matau	Weight
	DIVIII	ra		Fm		ua	dm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		Me	otor Si	ze		Motor Frame	pump (w\o	
																					80	90	100	112	132	Trume	motor)
STN 70	80	50	Dn80	UNI EN 1092-1 PN 10RF or ANSI 150	Dn65	UNI EN 1092-1 PN 10RF or ANSI 150	G 3"	G 2"1/2	98	133	190	152	2	17	180	187	229	47	216	10	mm	mm	mm	mm	mm		kg
				.5 5.74461 100		10111 01711101 100		/_													178	178	178	178	196	B5	32

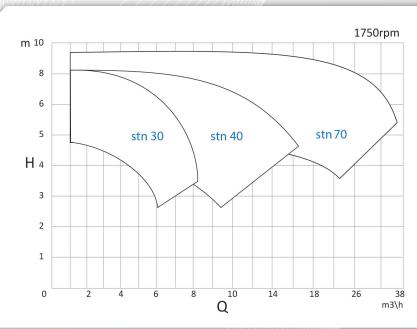
^{*}M dimension is according to installed motor manufacturer



















For further info, please visit: www.cdrpompe.com













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Technical Characteristics:

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