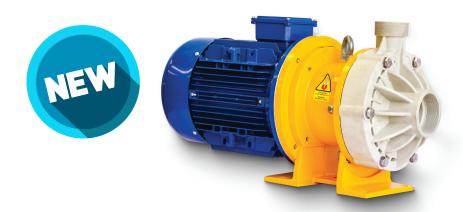
STN



STN 70



STN 30



STN 40

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



+31 (0)314 368 444 www.distrimex.nl



Comply to: 2006/42/CE

Available upon request:

ATEX 100 Ex Directive 2014/34/CE

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





STN ATEX EXECUTION without motor

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

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

Design

handling Suitable for 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









Water Iteaunen Nan exchange Pan Eregeneration

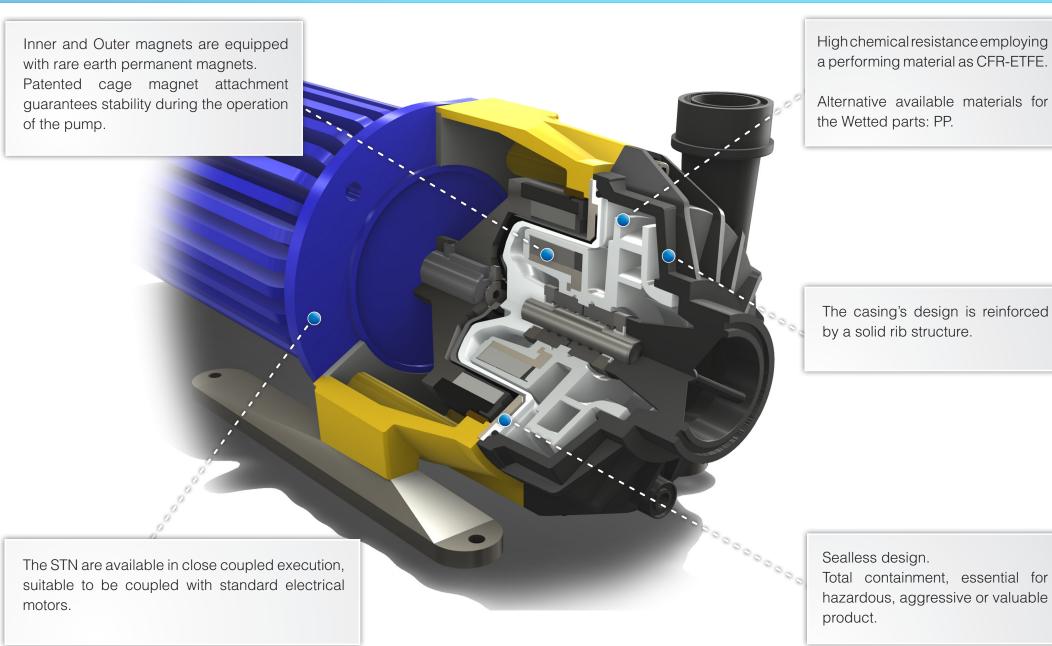




Application fields

3D VIEW - STN 30 / 40





FEATURES - STN 30 / 40





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.



IMPELLER ASSEMBLY

- 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 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.

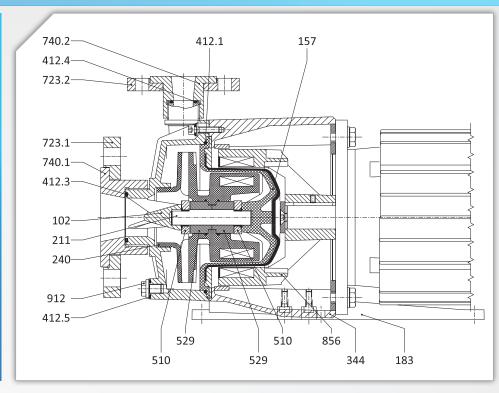


Z L S

Technical Specifications

SECTIONAL DRAWING - STN 30 / 40





st
Part
ᇤ
Pur

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-CARBON / 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 PN10RF or ANSI 150RF						
Viscosity	0,5 cSt min - 60 cSt max						
Allowable Solids	Max concentration 2 % by weight / Max particle size 0,10 mm						

Flange Connections

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	Discharge flange	PP-STEEL / AISI 304
740.1	Flare connection	PP / ETFE-AISI 304
740.2	Flare connection	PP / ETFE-AISI 304

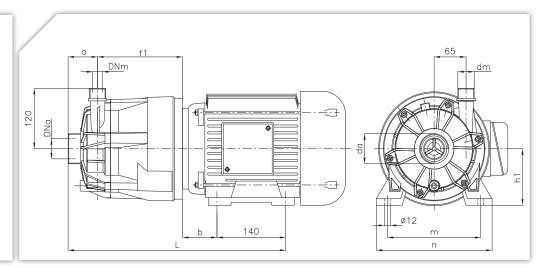
OVERALL DIMENSIONS - STN 30 / 40



STN 30/40 MOTOR SIZE 80/90

00 156.5 65 dm

STN 30/40 MOTOR SIZE 100/112



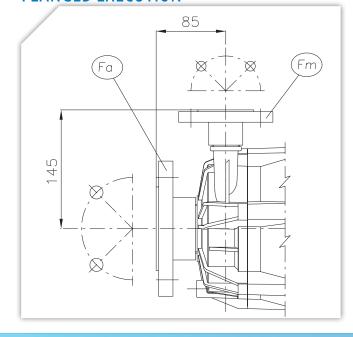
STN 30/40 MOTOR SIZE 80/90

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
	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





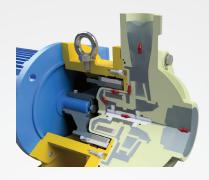
3D VIEW - STN 70



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.

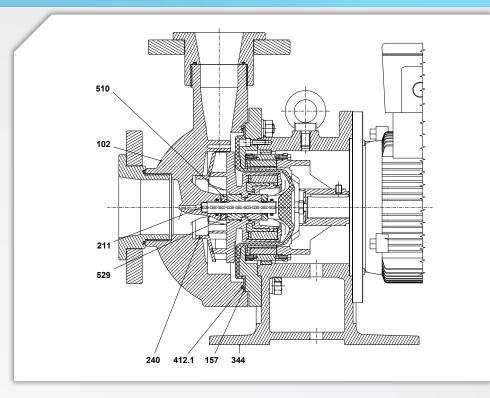
Interchangeability of bushes, axial thrusts and shaft between ETN EVO and STN 70

Bushes available in PTFE/Carbon.



SECTIONAL DRAWING - STN 70





ist
art L
- Pa
dHI
屲

DIN	Component	Material
102	Casing	PP-GF
157	Isolation shell	PP
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) -> 7,5kW motor size 132							
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							

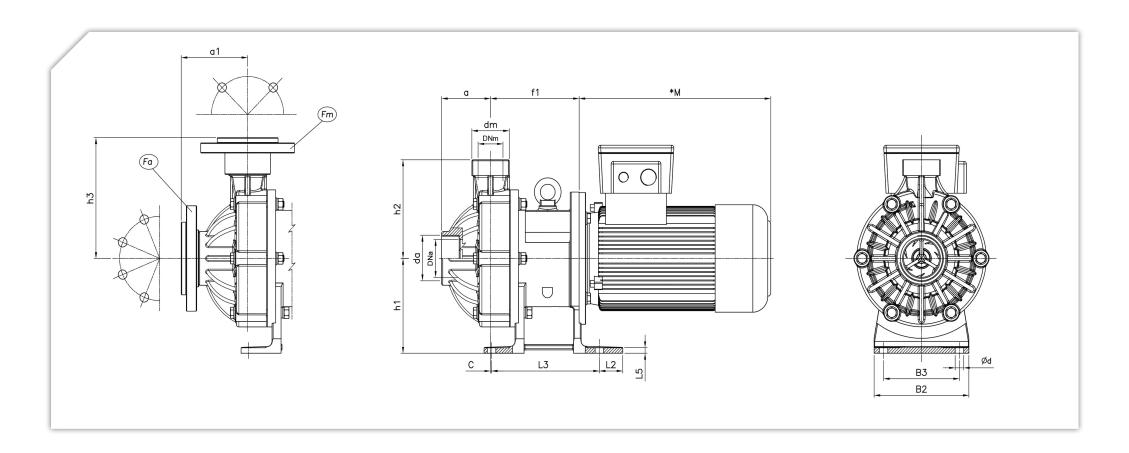
Painting Coating Quality

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

- Epoxy zinc paint
- Epoxy amidic modified vinyl
- 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



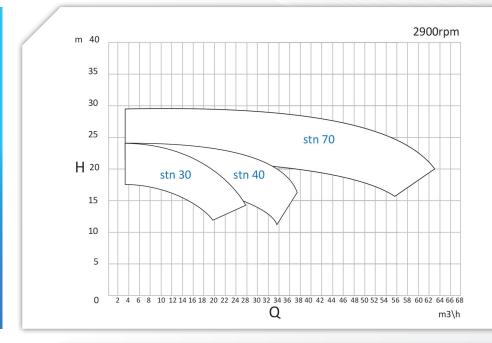


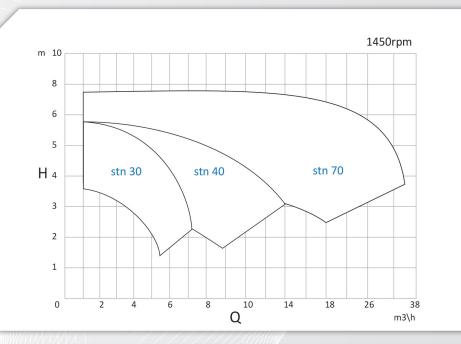
Pump	DNa	DNm		En.		Em	da	dm	a	a1	B2	В3	c	Ød	h1	h2	h3	L2	L3	L5			F1			Matau	Weight		
Model	DNa	DIVIII		ra riii		Fm		riii 		uiii	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		Me	otor Si	ze		Motor Frame	pump (w\o
																						80	90	100	112	132	Trume	motor)	
STN 70	80	50	Dn80	UNI EN 1092-1 PN 10RF or ANSI 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		
																					178	178	178	178	196	B5	32		

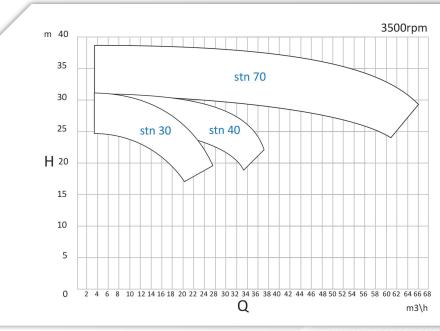
^{*}M dimension is according to installed motor manufacturer

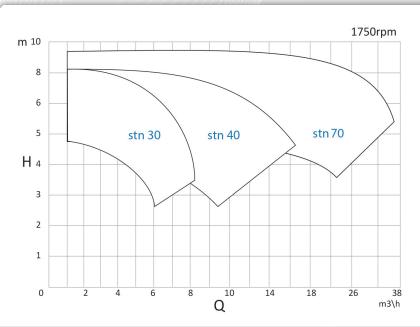


distrimex POMPEN & SERVICE

















For further info, please visit: www.distrimex.nl













+31 (0)314 368 444

Technical Characteristics:

The technical data and characteristics stated in this General Catalogue are not binding. CDR Pompe S.r.l. reserves the right to make modifications without notice. Therefore data, dimensions, performances and any other stated issues are indicative only and not binding.