

UTN-L / UTN-BL II° frame



UTN-BL 125-80-160 PFA
CLOSE COUPLED EXECUTION

Plastic and Fluoroplastic Lined Magnetic drive Horizontal - Single Stage - Process Centrifugal pumps

Lining: PP (Polypropylene), PVDF (Polyvinylidene fluoride), PFA (Perfluoroalkoxy)

Close-coupled and Long-coupled executions



Comply to :
2006/42/CE

Design to :
ISO 2858 / EN 22858
(ex DIN 24256)

ISO 5199 - UNI 15783

ATEX 100
Directive 94/9/EC



Flanged
UNI 1092-2 (ISO 7005-2)
PN16RF type B
slotted ANSI 150RF



Pompe S.P.A.

UTN SERIES

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.



UTN-L

Long Coupled pumps use the back pull-out principle and a strong bearing housing with flexible coupling.

Versatility

Suitable for handling corrosive, aggressive and hazardous liquids (low viscosity, clean or slightly contaminated) in the chemical, petrochemical and Pharma industries, where the need of high safety standards is the first requirement.



UTN-BL

Close coupled pumps are furnished with standard motors.

Reliability

The pump is equipped with reliable grease lubricated bearing bracket, especially developed to be suitable even under heavy duty service.

Design

UTN range share the same hydraulic design with the UCL series (mechanical seal pumps) which have been developed focusing on chemical Industry's requests.

Application Fields

Petrochemical Processing

Fertilizer Processing

Basic chemical Processing

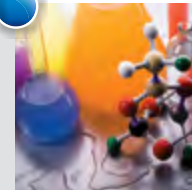
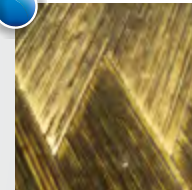
Air Treatment

Fine Chemical Processing

Detergents Processing

Fibre Processing

Active Pharmaceutical Ingredients



UTN 125-80-160



UTN 125-80-160 casing : new 125-80-160 casing is matching perfectly the impeller design , to achieve the best hydraulic efficiency.

The benefits of the lined technology are :

- stability to increased temperature
- under vacuum working capabilities
- constant coating layer thickness thanks to TM process
- high resistance to the permeation thanks to the TM process (for PFA and PVDF execution)



New Impeller 125-80-160 assembly made in one piece granting the maximum reliability and stability during the pump operation.

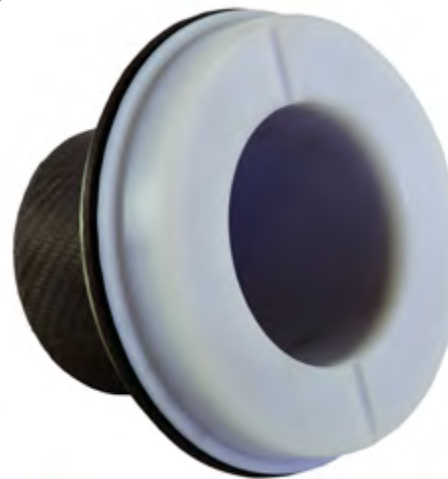
The closed impeller design, made around a sturdy metallic core surrounded by a minimum 4mm of fluoroplastic material, provides maximum efficiency and reliability.

New Suction Cover : using a static shaft design, the new UTN 125-80-160 will have also a new TM Lined suction cover.

The new Suction cover is able to hold the efforts caused on it by the shaft and the Axial Thrust Shoes, moreover 3 generous anti-rotating flat surfaces lock the suction cover into position on the casing.



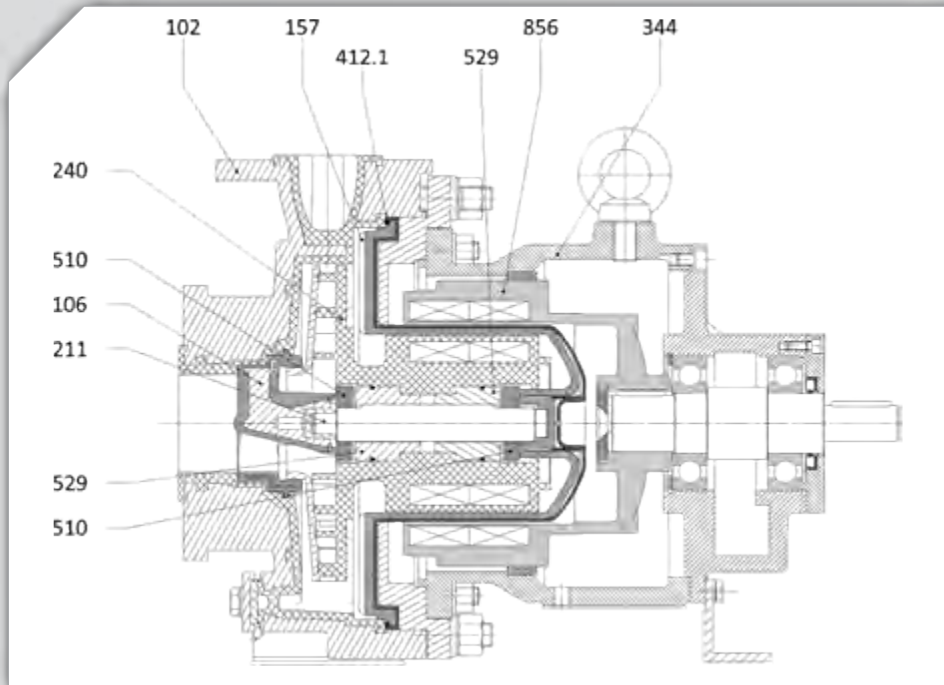
ISOLATION SHELL



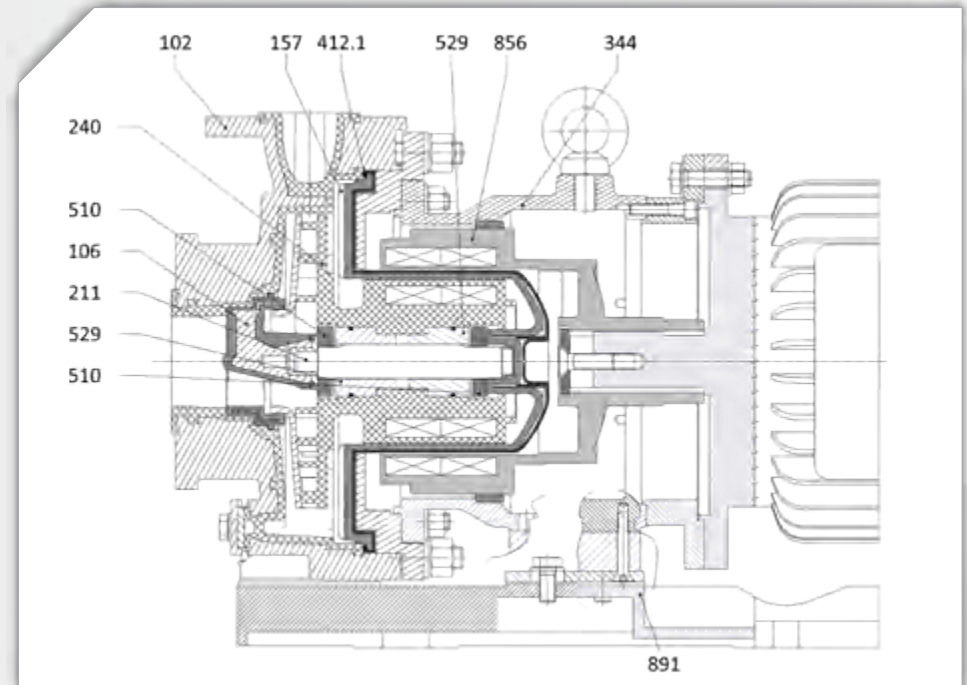
- Virgin unfilled PFA double Isolation Shell configuration : Virgin PFA on wet side externally reinforced by Carbon Fibre reinforcement.
- PP and PVDF: more than 4mm of thickness.
- Zero Eddy Current Losses thanks to non-metallic execution.

SECTIONAL DRAWING

UTN-L



UTN-BL



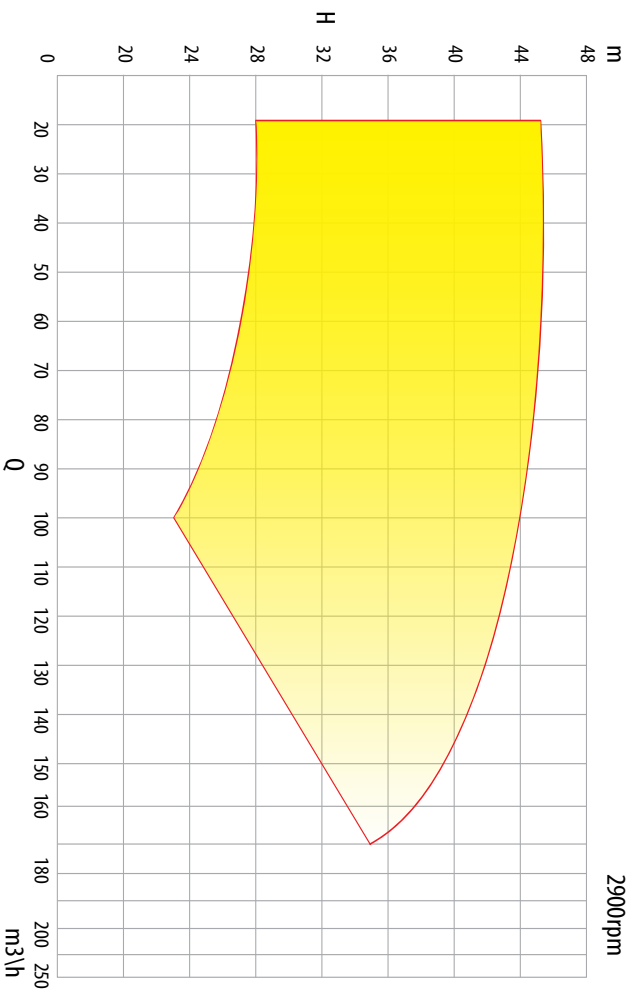
Technical Specifications

Performances 2900 rpm	Q max = 170 m3/h - H max = 45 mcl
Electric Motors	<ul style="list-style-type: none"> • UTN-BL: 2.2 kW (motor size 100) -> 37 kW (motor size 200) • UTN-L: 2.2 kW (motor size 100) -> 37 kW (motor size 200)
Temperature range	<ul style="list-style-type: none"> • PP: - 10 °C -> +70 °C • *PVDF: - 30 °C -> +100 °C (end 2014) • PFA: - 50 °C -> +140 °C
Allowable Pressure Range	<ul style="list-style-type: none"> • PP: from 16 bar (20 °C) to 12 bar (70 °C) • *PVDF: from 16 bar (20 °C) to 8 bar (100 °C) • PFA: from 16 bar (20 °C) to 8 bar (140 °C)
Flange Connections	UNI 1092-2 / ISO 7005-2 PN 16RF, type B slotted to ASME /ANSI class 150
Viscosity	min : 1 cSt min - max : 100 cSt
Allowable Solids	<ul style="list-style-type: none"> • Max concentration 3 % by volume • Max particle size 0,25 mm

Part list

DIN	Component	Material
102	Casing	PP lined \ *PVDF lined \ PFA lined
106	Suction Casing	PP-GF \ *PVDF-CF \ PFA lined
157	Isolation Shell	PP-GF \ *PVDF-CF \ PFA+CF
211	Shaft	SiC \ Al2O3 \ RunSafe SiC
240	Impeller Assembly	PP lined \ *PVDF lined \ PFA lined
344	Lantern	GS400
412.1	O-Ring Casing	EPDM \ FPM \ FPM enc. FEP
510	Thrust Bearing	SiC \ Al2O3 \ RunSafe SiC
529	Rotating Bushing	SiC \ PTFE-Al2O3 \ Graphite \ RunSafe SiC
856	Outer Magnet	GS400+Ryton
891	Pump foot pad	GS400

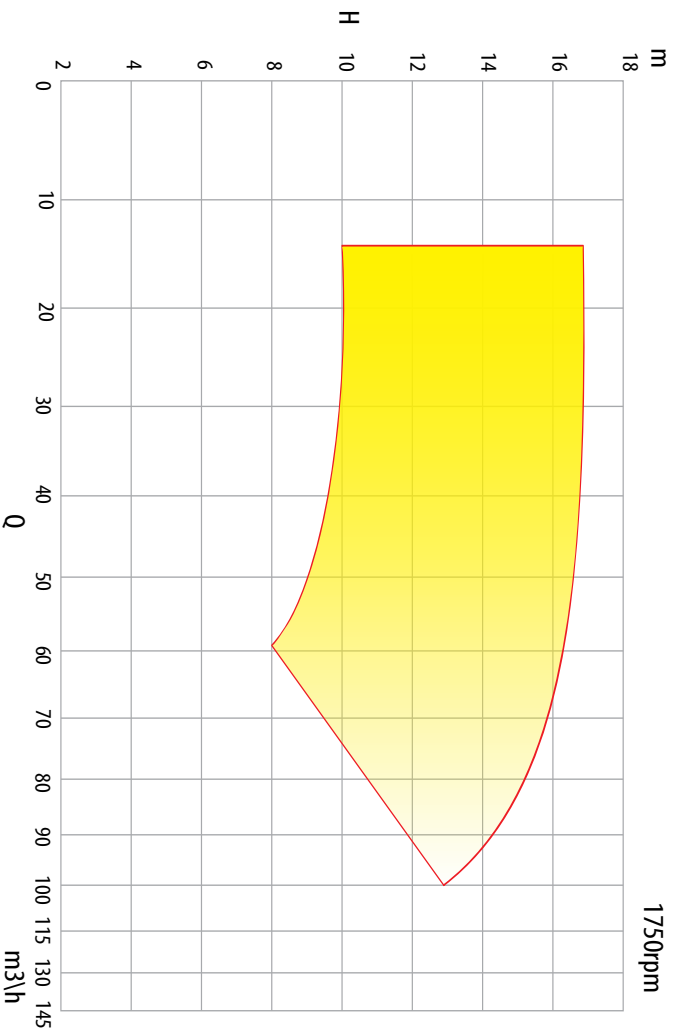
PERFORMANCE FIELDS



50 Hz - 2900rpm

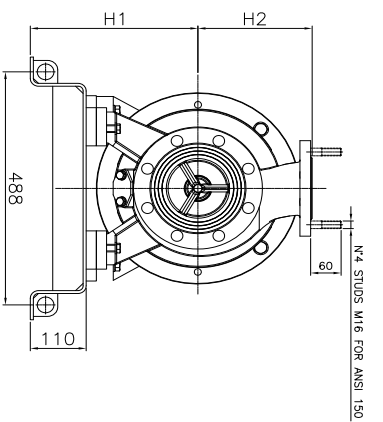
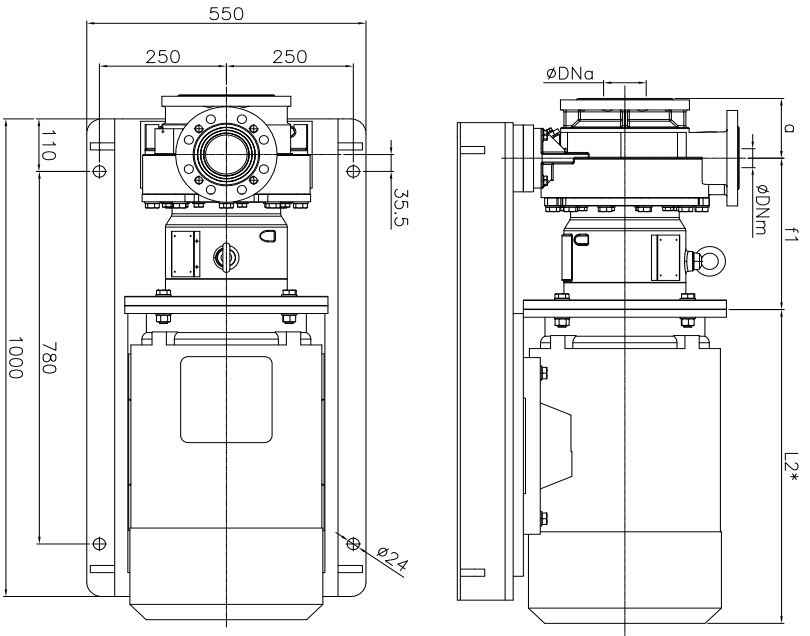


50 Hz - 1450rpm

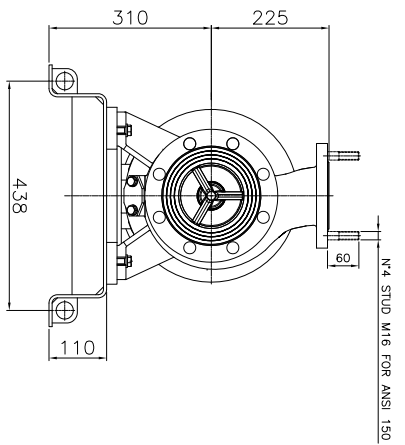
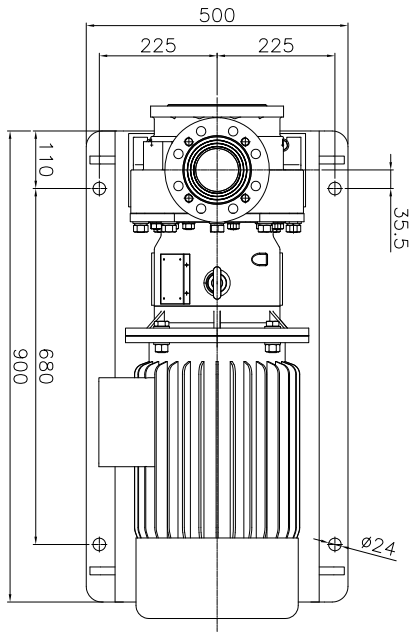


60 Hz - 1750rpm

OVERALL DIMENSIONS



UTN-BL MOT. 180-200



UTN-BL MOT. 100-160

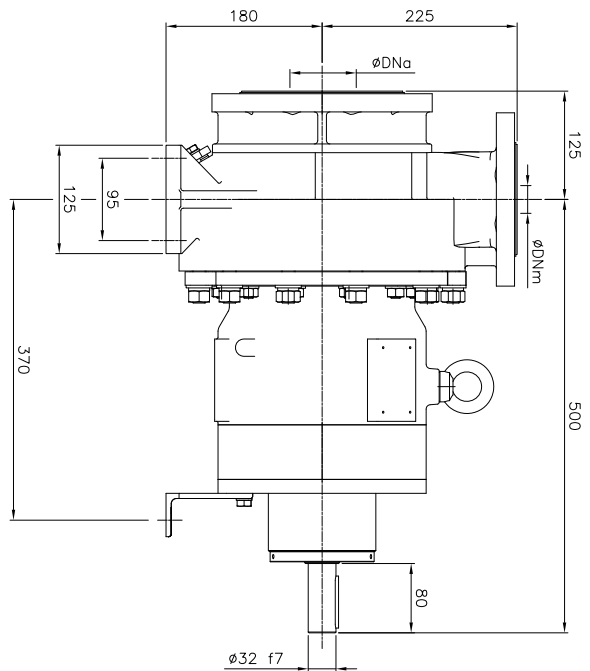
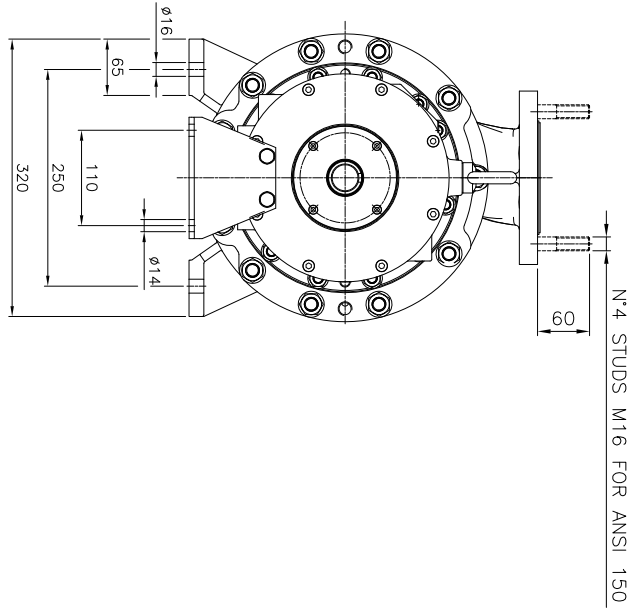
MOTOR SIZE/ Motore	H1 mm	H2 mm	f1 mm
180-835	310	225	317
200-835	330	225	317

UNI EN 1092-1 PN 16RF drilled to ANSI 150	Dna	UNI EN 1092-1 PN 16RF drilled to ANSI 150	DNm
	\varnothing		\varnothing
	125		80

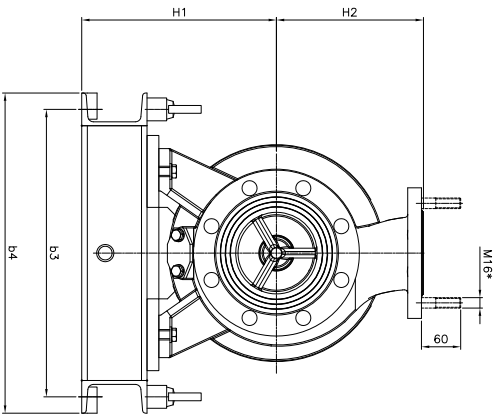
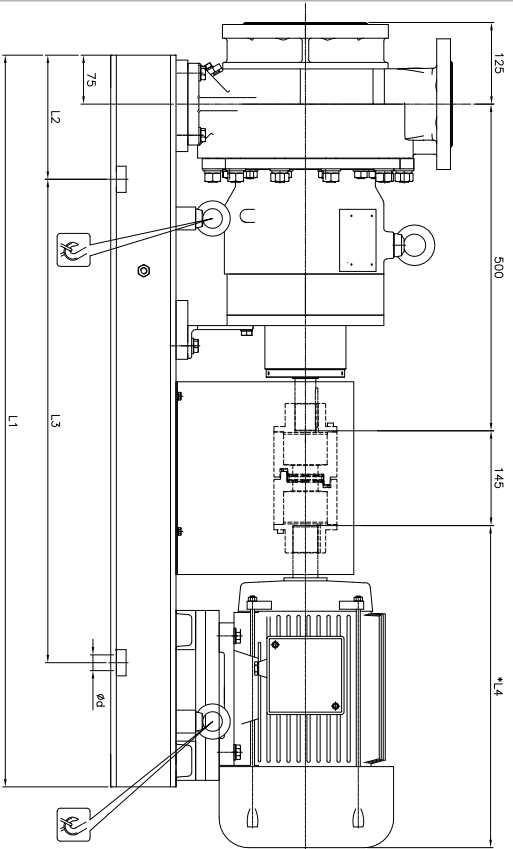
* L2 dimension is according to installed motor manufactured

OVERALL DIMENSIONS

UTN-L BARESHAFT



UTN-L BASEPLATE INSTALLATION



UNI EN 1092-1 PN 16RF drilled to ANSI 150	Dna	UNI EN 1092-1 PN 16RF drilled to ANSI 150	DNm
	Ø		Ø
	125		80

* L2 dimension is according to installed motor manufacturer



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TB - UTN II 2014_01



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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.