

General Description

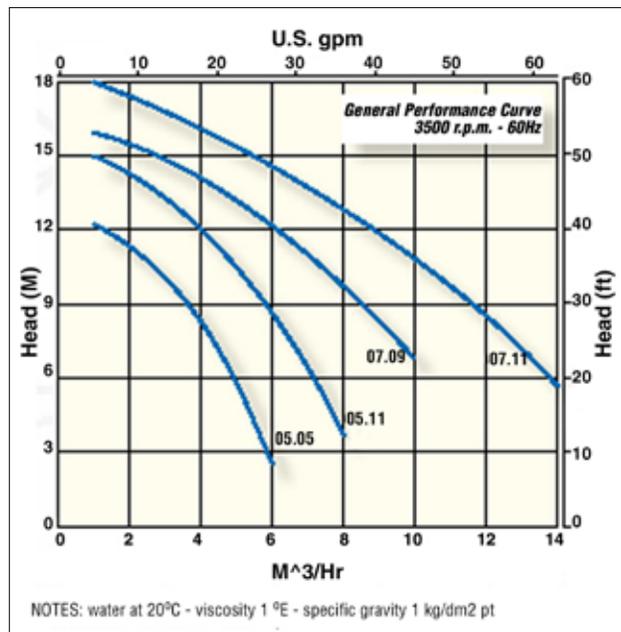
The CENTRAN TMP pump is a magnetic driven pump, designed to meet the continuous demands of the marketplace.

CENTRAN TMP series pumps were developed as a successor to the AM series, offering a more practical response to the demands of the market.

CENTRAN TMP pumps are centrifugal, horizontal axis, and close-coupled with the bodies built entirely of reinforced thermoplastic polymers. The internal components are ceramic oxides, HD carbon, and fluorinated elastomers: which mean any contact of metallic parts with the pumped fluid is avoided. This combination of materials was correctly chosen to obtain the best performance.

Versatility and Performance

All chemicals may be pumped at low and medium temperatures with any of the bodies in GFR-PP (glass fibre reinforced polypropylene) or CFF-E-CTFE (Etylene-ChloroTrifluoroEtylene carbon fibre filled).



Temperature

Version	Reinforced Polymers	Min Temp.	Max Temp.	Environment Temp.
WR	GFR/PP	-5 °C (23 °F)	80 °C (176 °F)	0+40 °C (14+104 °F)
GF	CFF/E-CTFE	-20 °C (-4 °F)	100 °C (212 °F)	-20+40 °C (-4+104 °F)
GX*				

Note: Maximum inlet pressure: 1,5 bar
(*) Compliant to ATEX 94/9/EC regulations



The strong magnetic coupling is made up of rare-earth materials (Neodimium Iron Boron) and is available in three versions: "N" (standard), "P" (powered) or "S" (strong-powered), which allow liquids with 1.05 - 1.35 - 1.8 specific gravity (respectively R-N-X) to be pumped at maximum flow. These three internal configurations of constructive materials are suitable for many applications: from clean water to waste and slightly abrasive liquids, strong alkali or salts such as sodium hypochlorite, and acids such as chromic, nitric, sulphuric, etc.

"Hermetic" Pump

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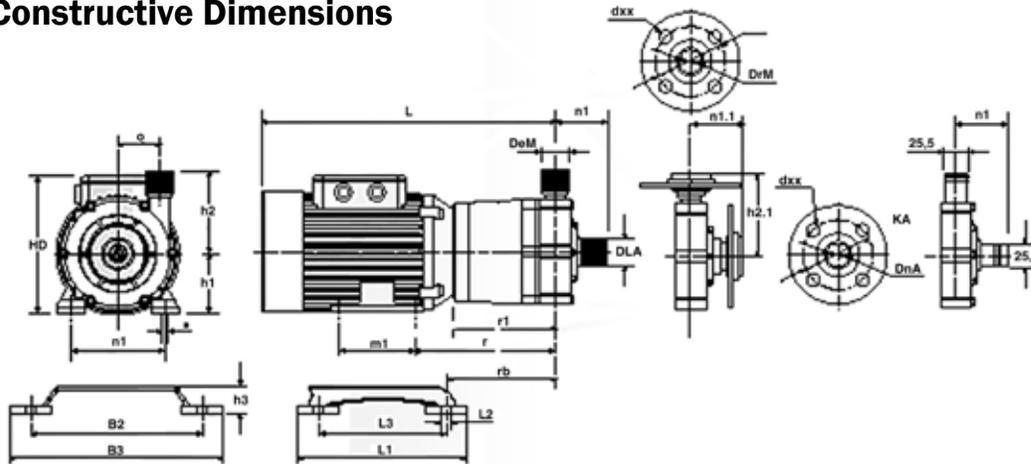
Safety and Life

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Special solutions and employed materials allow for the occasional dry running operation (starting from 15 min. up to many hours depending on operating conditions), while avoiding any damages inside the TMP pumps. These solutions require an internal structure "R".

Constructive Dimensions



Dimension with NEMA Motors - 60 Hz

Model	5.05			5.11			7.09			7.11		
	N	P	S	N	P	S	N	P	S	N	P	N/A
Motor Size	56	56	56	56	56	56	56	56	143	56	143	
a1	2-1/2"			2-1/2"			2-1/2"			2-1/2"		
L	14-1/8"			14-1/8"	14-1/2"	14-1/8"	14-1/2"	16-13/32"	14-1/2"	16-13/32"	X	
L3	7-9/32"			7-9/32"			7-9/32"			7-9/32"		
h1	2-1/2"	2-13/16"	2-13/16"	2-13/16"	35/32"	2-13/16"	3-5/32"			3-5/32"		
h2	3-15/16"			3-15/16"			3-15/16"			3-15/16"		
B2	X	9-3/4"		9-3/4"		9-3/4"		9-3/4"		9-3/4"		
B3	X	12-1/8"		12-1/8"		12-1/8"		12-1/8"		12-1/8"		
h3	1-9/16"			1-9/16"			1-9/16"			1-9/16"		
DeM	3/4"			1"			1-1/4"			1-1/4"		
DeA	3/4"			1"			1-1/4"			1-1/4"		
ANSI Flanged KM	X			1"			1-1/4"			1-1/4"		
ANSI Flanged KA	X			1"			1-1/4"			1-1/4"		



Materials of Construction

Version	WR			GF			GX*	
	R1	X1	N1	R2	X2	N2	R2	X2
Volute Casing	GFR-PP			CFF-E-CTFE				
Rear Casing								
Centrifugal Impeller								
Guide Bushing	CARB.HD	SIC	GFR-PTFE	CAB.HD	SIC	GFR-PTFE	CARB.HD	GFR-PTFE
Shaft	CER			SIC				
Thrust Bush	FKM (1)			FKM (1)(2)				
OR Gasket	Stainless Steel							
Screws								

Upon request:(1)EPDM and (2) FFKM

* Compliant to ATEX 94/9/EC regulations