tapflo

CTM MAGNETIC DRIVE CENTRIFUGAL PUMPS

edition 2016 rev



All about your flow

Tapflo is a leading pump manufacturer with the ambition to provide a wide range of premium products for various industrial applications. We focus on delivering the best fluid processing solutions and support on all stages of the process, worldwide.



About Tapflo

Tapflo is an independent, Swedish, family owned, manufacturer and global supplier of air operated diaphragm pumps, centrifugal pumps and other industrial process The company was founded in Kungälv, Sweden in 1980 and has since then been working with design and manufacture of thermoplastic, metal and sanitary series diaphragm pumps and also with complete range of centrifugal pumps and industrial equipment. After years of dynamic development the company evolved into Tapflo Group with worldwide operations. Tapflo Group is represented by own companies and independent distributors all over the world on 6 continents.

Quality certified

At Tapflo we believe that quality is one of the highest values, both for our customers as well as our employees. As a result, we comply with various globally recognised certification and quality control institutions. Many of our products comply with EC ATEX directives for equipment intended for use in explosion hazardous environments.

The aseptic series is EHEDG certified (European Hygienic Engineering & Design Group), the pharmaceutical series has USP VI and EC 1935/2004 approval.

All our products are obviously CE marked and followed by our comprehensive instruction manuals. Tapflo manufacturing process is certified according to ISO 9001:2009.

















Our values

Long term engagement is our core

Our aim is to continuously provide premium products according to evolving needs of our customers. That is why we see each customer relationship as a long term commitment.

Local means on your terms

Tapflo is your global partner providing local support. No matter where your plant is located you can expect us to support you locally.

Flexibility the foundation of good service

We are prepared to deal with reality, knowing that in practice this means answering questions, offering solutions and supplying spare parts with a minimal loss of time.

Customizing to bring the product to the needs

Our intention is always to help our clients find the most cost effective solutions to increase their company's efficiency. If this means changing the design of the pump we see it as a challenge - not a problem.

To produce is to develop

When you are actively involved in the manufacturing of a product, it is almost impossible not to discover ways to improve it. This allows us to frequently offer solutions that are even more sustainable and efficient.

CTM magnetic drive pumps

ideal for safe fluid handling

Tapflo CTM magnetic drive pumps are pumps of centrifugal type where the power from the motor is transmitted to the impeller by means of a magnetic coupling.

CTM pumps are designed and manufactured for chemicals transfer and circulation in surface treatment industries.

CTM is a perfect choice for chemically corrosive and toxic liquids.

Features & Benefits

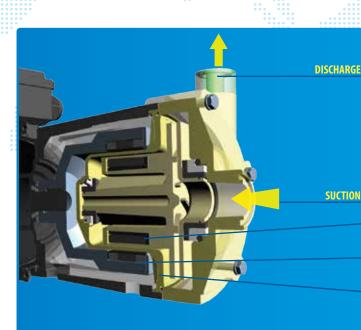
No leakage safe working environment and environmental friendly

Economical operation high degree of efficiency and no waste of product

Magnetic power transmission no mechanical seal problems

Safe handling of hazardous fluids seal less pump

Hermetic system no poisonous or dangerous vapours



■ Working principle

The power from the motor is transmitted to the centrifugal impeller by means of a magnetic coupling.

A so called isolation shell between the drive magnet and the impeller magnet separate the liquid side from the drive.

IMPELLER MAGNET ASSEMBLY

Driven by the drive magnet assembly

DRIVE MAGNET ASSEMBLY

Connected to the motor

(Rear housing) separating the liquid side from the atmosphere



Perfect pump

SUCTION

for clean and thin liquids like pure chemicals, acids and alkalis.

Wide range of applications

CTM pumps are used in most industries where liquids are pumped. The pumps handle many types of low and normal viscous clean liquids such as chemical aggressive and toxic.

Transfer of chemicals

Transfer of various chemicals from storage tanks to smaller containers

Surface treatment

Transfer, filtering and circulation of surface treatment baths

Food and beverage

Pumping of CIP detergent used for cleaning of pipes and other food process equipment

Water treatment

Dosing of acids and alkalis used as cleaning chemicals in nanofiltration

Chemical manufacture

Pumping of chemicals in industrial detergent equipment

Demineralization

Demi-water circulation and transfer in many industrial applications

Photo processing

Transfer of photo development chemicals and inclusion in processing machines

Liquid crystal manufacture

Pumping of concentrated acids and alkalis







Compact but powerful

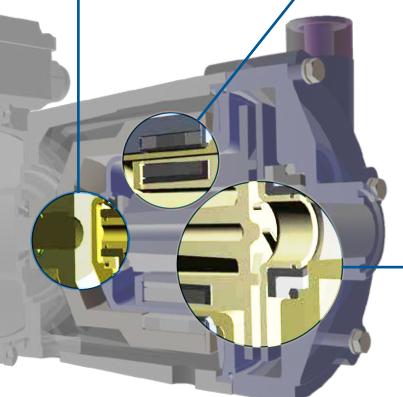
CTM is a close coupled compact pump ideal for service in little spaces like in OEM installations.

Reliable design without shaft

The impeller magnet assembly is designed with very powerful bushings where a conventional crack sensitive shaft is not needed. This results in a pump that has fewer parts and is very reliable in service.

Powerful magnet couplings

Our magnets in NdFeB (Neodymium-iron-boron) with our unique magnet cage system have a superior strength also under demanding circumstances. The power from the drive is transmitted even at high temperatures and with high specific gravity liquids. Furthermore the robust steel frame for the external magnet increases the magnet power and grants a gentle startup of the pump.



Non-metallic pumps

The wetted components are non-metallic injection moulded thermoplastics enabling excellent corrosion resistance.

The version in PP-GF (glass fibre reinforced polypropylene) provides great mechanical strength and allows liquid temperatures up to 70°C. The PVDF (PolyVinylidine DiFluoride) version has superior chemical resistance and allows temperatures up to 80° - 90°C.

Excellent performance with magnet cage system

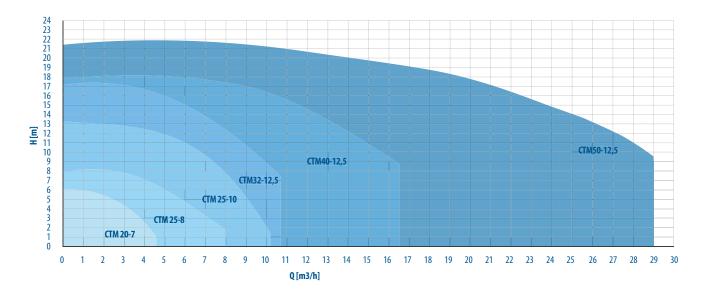
The magnets are totally encapsulated in their cage with the unique system that avoids the use of resins and glue. This grants a safe system with better performance at high temperatures. Furthermore the impeller is injection moulded, resulting in excellent performance and no weak points. CTM20-7 has a semi-open impeller while models CTM25-8, CTM25-10, CTM32-12,5 CTM40-12,5 and CTM50-12,5 have closed impellers to obtain best pumping parameters.

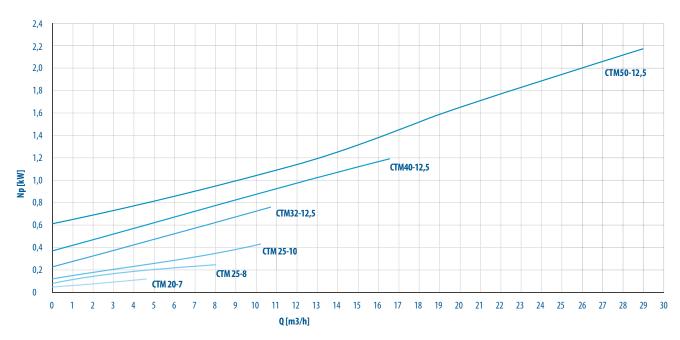


Performance curves

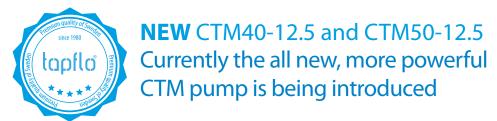
Performance curves are based on 2900 rpm motor speed. Please contact us for individual detailed performance curves. H = Head in mWC $Q = Flow in m^3/h$

Np = Required motor power in kW



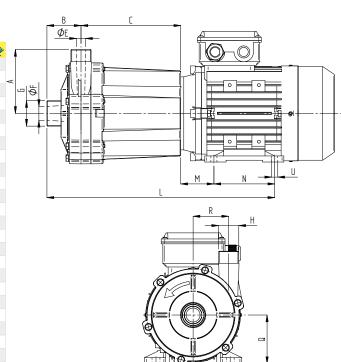


Changes reserved without notice



Technical data

Dimei	nsions						
Model	CTM20-7	CTM25-8	CTM25-10	CTM32-12.5	CTM40-12.5	CTM50-12.5	
Α	70	90	100	105	105	110	
	2.76	3.54	3.94	4.13	4.13	4.	33
В	48	58.50	63	56	56.5	54	
	1.89	2.30	2.48	2.20	2.22	2.13	
С	93.5	100.5	136.5	164	165	189	
	3.68	3.96	5.37	6.46	6.50	7.44	
ØE	15	18	18	15	23	30.8	
	0.59	0.71	0.71	0.59	0.91	1.21	
ØF	15	18	18	23	30.5	42	
	0.59	0.71	0.71	0.91	1.20	1.65	
G	3/4"	1"	1"	1 1/4"	1 1/2"	2"	
	3/4	1	1	1 1/4	1 1/2	2	
Н	3/4"	1"	1"	1"	1 1/4"	1 1/2"	
	3/4	1	1	1	1 1/4	1 ½	
L	248.5	279	334.5	374.5	402.5	446	453
	9.78	10.98	13.17	14.74	15.85	17.56	17.83
М	36	40	45	54.5	56	63	70
	1.42	1.57	1.77	2.15	2.20	2.48	2.76
N*	71	80	80	100	125	140	
	2.80	3.15	3.15	3,94	4.92	5.51	
P*	9	10	10	13	14	15	
	0.22	0.28	0.28	0.51	0.55	0.59	
Q	56	63	71	80	90	100	112
	2.20	2.48	2.80	3.15	3.54	3.94	4.41
R	35	39.5	43.5	58.5	58.5	52	
	1.38	1.56	1.71	2.30	2.30	2.05	
	90	100	112	125	140	160	190
S*	3.54	3.94	4.41	4.92	5.51	6.30	7.48
Т	112	126	141	160	170	200	230
	4.41	4.96	5.55	6.30	6.69	7.87	9.06
U*	5,5	7	7	10	10	1	2
	0.22	0.28	0.28	0.39	0.39	0.	47
			1	MOTOR			
POWER	0.12 kW	0.25 kW	0.55, 0.75 kW	0.75, 1.1 kW	1.5 kW, 2.2 kW	3.0 kW	4.0 kW
SIZE	56	63	71	80	90	100	112
			OPTIONAL	CONNECTION	NS		
FLANGE	-	DN25	DN25	DN32 / DN25	DN40 / DN32	DN50 / DN40	
HOSE	-	Ø25	Ø 25	Ø32 / Ø25	Ø40 / Ø32	Ø50 / Ø40	



Jeneral Characteristics				
Temperature range	PP pumps: 0°C - 70°C PVDF pumps: 0°C - 80°C (CTM20); 0°C - 90°C (CTM25, CTM32, CTM42, CTM50)			
System pressure rating	CTM20: PP pumps: PN4 at 20°C, PN2 at 70°C PVDF pumps: PN4 at 20°C, PN2 at 80°C CTM25 , CTM32, CTM40 and CTM50: PP pumps: PN6 at 20°C; PN2 at 70°C PVDF pumps: PN6 at 20°C; PN2 at 90°C			
Viscosity	200 cSt max			
Motor	IEC standard, 3x400 VAC (other voltage upon request), 2900 rpm, IP55, frame B34			

Dimensions in mm (where other is not indicated)



TAPFLO AB

Sweden

Filaregatan 4 | S-442 34 Kungälv

Tel: +46 303 63390 Fax: +46 303 19916

E-mail addresses:

Commercial questions: sales@tapflo.com

Orders: order@tapflo.com

Tech support: support@tapflo.com

Tapflo products and services are available in 75 countries on 6 continents.

Tapflo is represented worldwide by own Tapflo Group Companies and carefully selected distributors assuring highest Tapflo service quality for our customers' convenience.

AUSTRALIA | AUSTRIA | AZERBAIJAN | BAHRAIN | BELARUS | BELGIUM | BOSNIA | BRAZIL | BULGARIA | CANADA | CHILE | CHINA | COLOMBIA | CROATIA |

CZECH REPUBLIC | DENMARK | ECUADOR | EGYPT | ESTONIA | FINLAND | FRANCE | GREECE | GEORGIA | GERMANY | HONG-KONG | HUNGARY |

ICELAND | INDIA | INDONESIA | IRAN | IRELAND | ISRAEL | ITALY | JAPAN | JORDAN | KAZAKHSTAN | KUWAIT | LATVIA | LIBYA | LITHUANIA | MACEDONIA |

MALAYSIA | MEXICO | MONTENEGRO | MOROCCO | THE NETHERLANDS | NEW ZEALAND | NORWAY | POLAND | PORTUGAL | PHILIPPINES | QATAR |

ROMANIA | RUSSIA | SAUDI ARABIA | SERBIA | SINGAPORE | SLOVAKIA | SLOVENIA | SOUTH AFRICA | SOUTH KOREA | SPAIN | SUDAN | SWEDEN |

SWITZERLAND | SYRIA | TAIWAN | THAILAND | TURKEY | UKRAINE | UNITED ARAB EMIRATES | UNITED KINGDOM | USA | UZBEKISTAN | VIETNAM

Tapflo Group Companies

Austria

Tapflo Austria
Tel: +43 732 27292910
sales@tapflo.at

Azerbaijan

Tapflo Azerbaijan LLC Tel: +994 502660799 sales@tapflo.az

Baltic States

Tapflo Latvia Tel: +371 67472205 sales@tapflo.lv

Belarus

Tapflo Belarus
Tel: +375 17 3934609
sales@tapflo.by

Bulgaria

Tapflo EOOD
Tel: +359 (0)2 974 18 54
office@tapflo.bg

Canada

Tapflo Canada Tel: +1 514 813 5754 canada@tapflo.com

Croatia

Tapflo GmbH Tel: +385 91 4884 666 sales@tapflo.hr

Czech Republic

Tapflo s.r.o.
Tel: +420 513 033 924
tapflo@tapflo.cz

China

Tapflo (Wuxi) Tel: +86 510 8241 7602 sales@tapflo.cn

Denmark

Tapflo Danmark
Tel: +45 36 454600
info@tapflo.dk

France

Tapflo France
Tel: +33 1 34 78 82 40
info@tapflo.fr

Georgia

Tapflo Georgia
Tel: +995 577 463010
sales@tapflo.ge

India

Tapflo Fluid Handling India Pvt Ltd Tel: +91 20 65000215 ad@tapflo.in

Ireland

Tapflo Ireland Ltd Tel: +353 1 2011911 info@tapflo.ie

Italy

Tapflo Italia
Tel: +39 0362307698
info@tapfloitalia.com

Japan

Tapflo Japan K.K.
Tel: +81-3-6240-3510
tapflojp@tapflo.co.jp

Kazakhstan

Tapflo Kazakstan Tel: +7 727 3278347 sales@tanflo kz

Poland

Tapflo Sp. z o.o.
Tel: +48 58 530 42 12
info@tapflo.pl

Romania

S.C. Tapflo Rom. S.r.l.
Tel: +40 21 3451255
sales@tapflo.ro

Russia

Tapflo Company
Tel: +7 495 232 18 28
sales@tapflo.com.ru

Serbia

Tapflo d.o.o.
Tel: +381 21 44 58 08
sales@tapflo.rs

Slovakia

Tapflo s.r.o. +421 911 137 883 tapflo@tapflo.sk

Slovenia

Tapflo GmbH
Tel: +386 68 613 474
sales@tapflo.hr

Spain

Tapflo Iberica
Tel: +34 91 8093182
avives@tapfloiberica.es

South Africa

Tapflo (Pty) Ltd Tel: +27 31 701 5255 sales@tapflo.co.za

Turkey

Tapflo Makina Ltd Tel: +90 216 467 33 11 sales@tapflo.com.tr

Ukraine

TOB Tapflo Tel: +380 44 222 68 44 sales@tapflo.com.ua

Uzbekistan

Tapflo Uzbekistan Tel: +998 712370940 sales@tapflo.uz

United Kingdom

Tapflo (UK) Ltd Tel: +44 2380 252325 sales@tapflopumps.co.uk