tapflo

CTM MAGNETIC DRIVE CENTRIFUGAL PUMPS

2020 |



>> All about your flow ⊓

We began our journey 40 years ago in Kungälv, a small town on the Swedish west coast, as a family company with an ambition to one day become a global player on the pump market.

Since 1980, we have taken pride in delivering a wealth of knowledge and passion for pumps to the industry, whilst supplying a wide range of premium products for various industrial applications.

Over the years, the company has developed into a global Tapflo Group with branches and distributors present in nearly every region of the world.

One thing did not change - we are still a family company.

Our solutions are designed and manufactured in Europe and distributed globally to offer the best service and flow solutions to our customers for a variety of applications.

Our values, Commitment, Quality and Simplicity are reflected both in our product and business approach.



For fast and flexible service and high-quality products readily available worldwide, choose Tapflo.

Quality commitment

At Tapflo we are simply committed to quality. As a result, our production standards, as well as products quality, comply with various globally recognised certification and quality control standards. The Tapflo manufacturing process is certified according to ISO 9001:2015, confirming that our processes are appropriate, effective, customer-focused and continuously improved.















Tapflo values

Our culture is concluded in Our values

Commitment

We are different from our competitors because of our willingness to exceed the customers' expectations, move fast and be flexible. Our culture is based on the spirit of togetherness, enthusiasm and integrity. We come from all over the world but we share the same values and we respect each other. We are committed.

Quality

We understand that the quality in our work is never better than the weakest link, that's why we focus on every small detail. We share a common passion for continuously finding more efficient and effective ways to provide value to our customers. As a manufacturer we have control of the complete process both in terms of our products and the way we operate internally. That is why we manufacture the highest quality pumps in our segment.

Simplicity

We have a saying, "Simple is art" which means we try to find smooth and uncomplicated solutions in everything. By keeping it simple we can focus on the essential, like designing uncomplicated pumps with few components. For us it is a key to success; strive to simplify what is complex.

CTM Magnetic Drive Pumps

Perfect choice for chemically corrosive and toxic liquids.

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

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

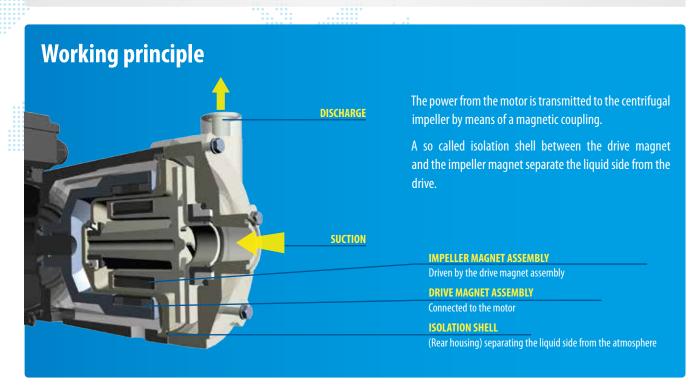
CTM pumps are designed and manufactured for transfer of chemicals and circulation in surface treatment industry.



Features & Benefits

- $\sqrt{}$
- No leakage safe working environment and environmental friendly
- **V**
- Economical operation high degree of efficiency and no waste of product
- \checkmark
- Magnetic power transmission no mechanical seal problems
- \checkmark
- Safe handling of hazardous fluids seal less pump
- \checkmark
- Hermetic system

no poisonous or dangerous vapours





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

Fluid transfer in water treatment installations.

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







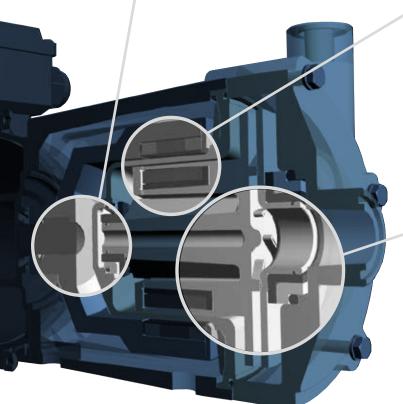
Compact but powerful

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** (polyvinylidene fluoride) version has **superior chemical resistance** and allows **temperatures up to 90°C**.

Excellent performance with magnet cage system

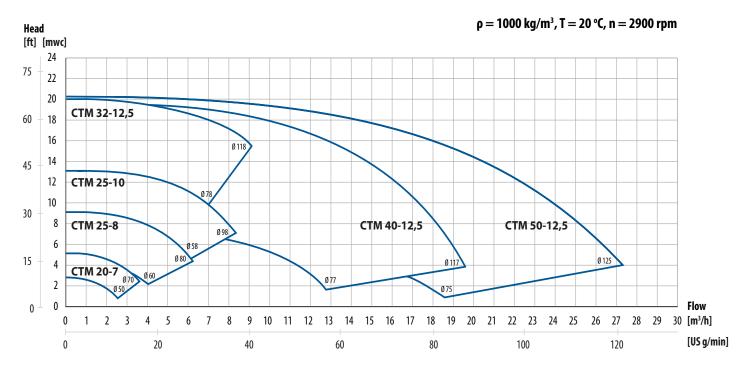
The magnets are encapsulated in their cage with the unique system that avoids the use of resins and glue.

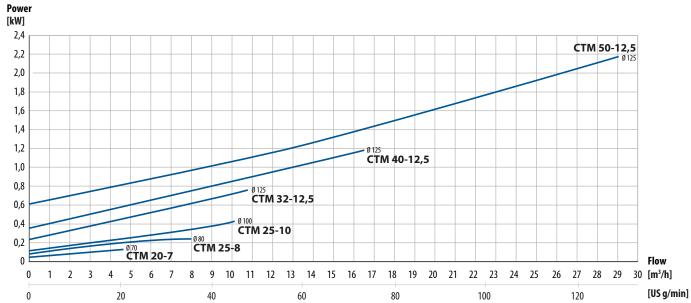
This grants a safe system with better performance at high temperatures. Furthermore the impeller is injection moulded, resulting in excellent performance and no weak points. CTM20-7 has a semi-open impeller while models CTM25-8, CTM25-10, CTM32-12,5, CTM40-12,5 and CTM50-12,5 have closed impellers to obtain best pumping parameters.



Performance curves

The performance curves are based on water.

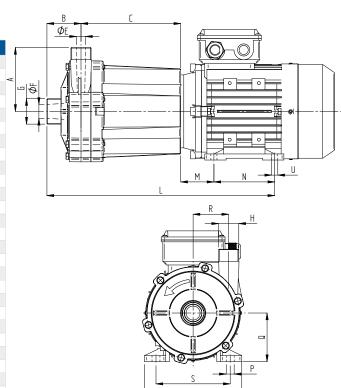




Technical data

Dimensions

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Model	CTM20-7	CTM25-8	CTM25-10	CTM32-12.5	CTM40-12.5	CTM50-12.5	
А	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 ½"	2"	
	3/4	1	1	1 1/4	1 ½	2	
Н	3/4"	1"	1″	1″	1 1/4"	1 1/2"	
	3/4	1	1	1	1 1/4	1	1/2
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
	35	39.5	43.5	58.5	58.5	52	
R	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		12
	0.22	0.28	0.28	0.39	0.39	0.47	
				MOTOR			
POWER	0.12 kW	0.25 kW	0.55kW	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
			ı	MPELLER			
NOMINAL DIAMETER	70	80	98	118	117	125	
			OPTION	AL CONNECTIONS			
FLANGE	-	DN25	DN25	DN32 / DN25	DN40 / DN32	DN50 / DN40	
HOSE	-	Ø25	Ø 25	Ø32/Ø25	Ø40 / Ø32	Ø50 / Ø40	



General characteristics

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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.

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Tapflo Group Companies

Australia

Tapflo Oceania (Pty) Ltd Tel: +61 1800 303 633 sales@tapflo.com.au

Austria

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

Baltic States

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

Relarus

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

Belgium

Tapflo Benelux B.V. Tel: +31 (0)85 00 743 00 info@tapflo.nl

Bulgaria

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

Canada

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

Croatia

Tanflo d o o Tel: +385 91 4884 666 sales@tapflo.hr

Czech Republic

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

China

Tapflo (Wuxi) Tel: +86 510 8241 7072 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

Hungary

Tapflo kft. Tel: +36 30 148 8551 office@tapflo.hu

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

Ireland

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

Italy

Tapflo Italia Tel: +39 0362 306528 info@tapfloitalia.com

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

Kazakhstan

Tapflo Kazakstan Tel: +7 727 3278347 sales@tapflo.kz

Netherlands

Tapflo Benelux B.V. Tel: +31 (0)85 00 743 00 info@tapflo.nl

Poland

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

Romania

S.C. Tanflo 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

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

Slovakia

Tapflo s.r.o. Tel: +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

TOR Tanflo Tel: +380 44 222 68 44 sales@tapflo.ua

Uzbekistan

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

United Kinadom

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





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