

tapflo®

CTM MAGNETIC DRIVE CENTRIFUGAL PUMPS

2018 | 1



» All about your flow

www.tapflo.com

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 equipment. 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, as well as the 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 owned 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 used in explosive and hazardous environments.

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

All of our products are clearly CE marked and followed by our comprehensive instruction manuals. Tapflo manufacturing process is certified according to ISO 9001:2015.



Our values

■ Long term engagement is our core

Our aim is to continuously provide premium products according to the 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.

■ Customising 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

Being 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

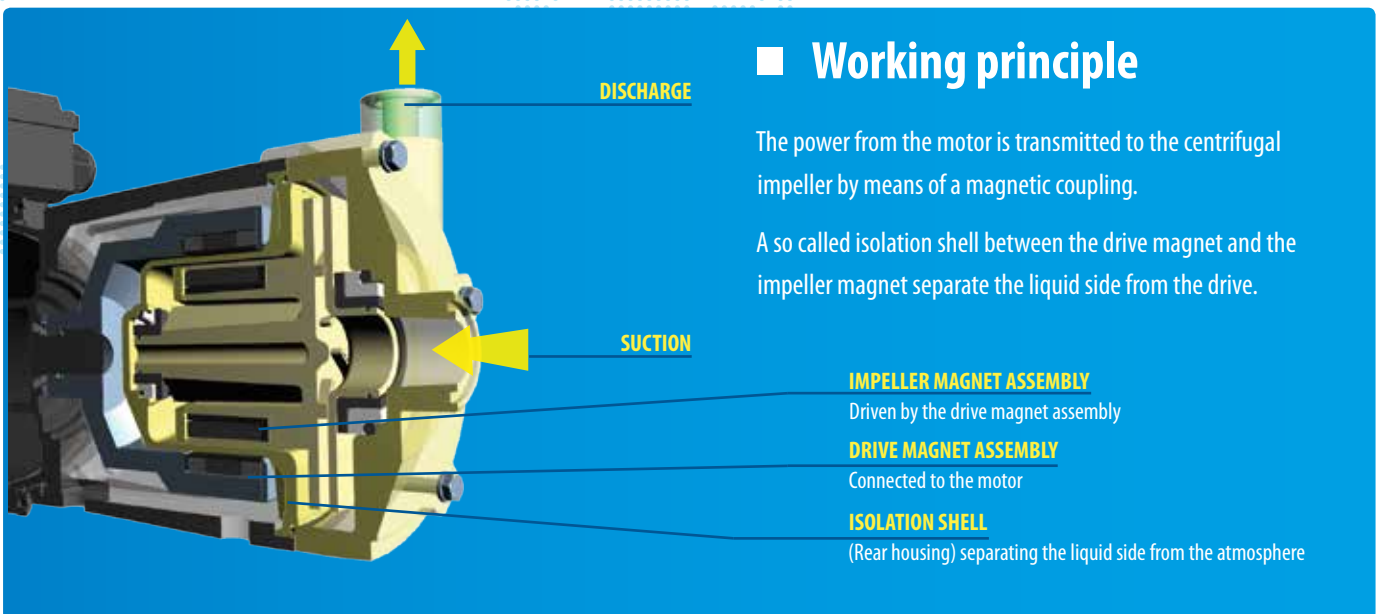
Tapflo CTM magnetic drive pumps are pumps of centrifugal type where the power from the motor is transmitted to the impeller by means of a magnetic coupling.

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



Perfect pump
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

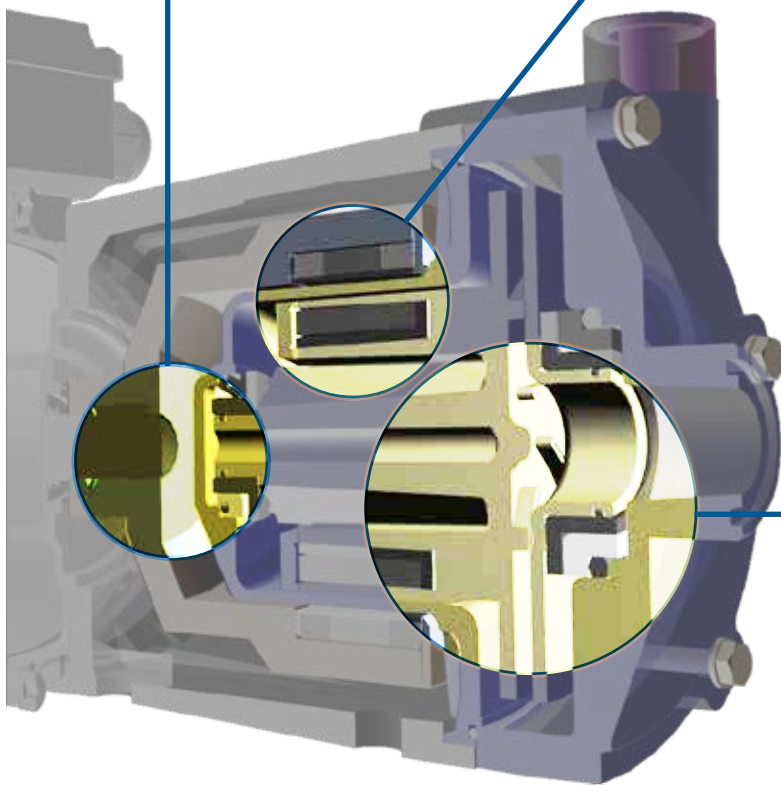
The impeller magnet assembly is designed with very powerful bushings where a conventional crack sensitive shaft is not needed. This results in a pump that has fewer parts and is very reliable in service.

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.

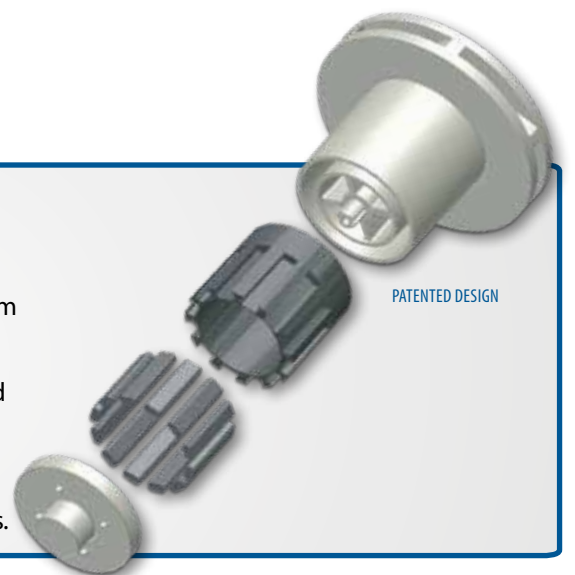
Non-metallic pumps

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 (PolyVinylidene DiFluoride) version has superior chemical resistance and allows temperatures up to 80° - 90°C.



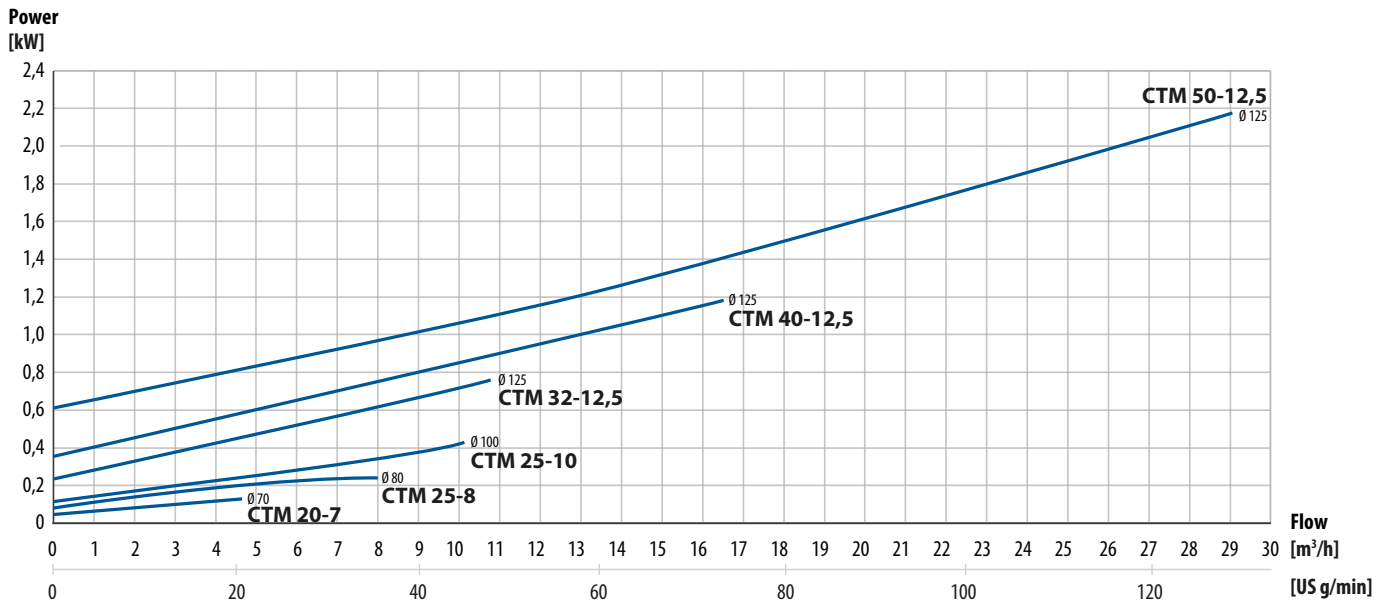
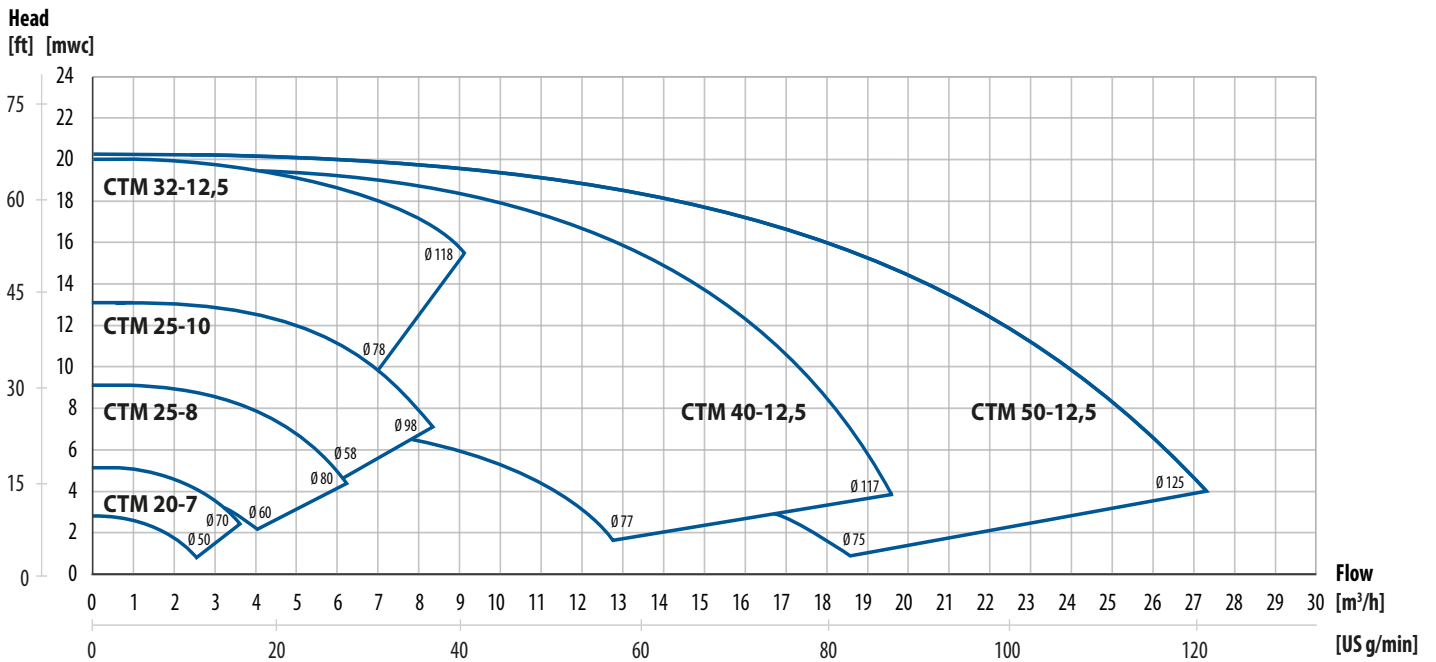
Excellent performance with magnet cage system

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.



Changes reserved without notice

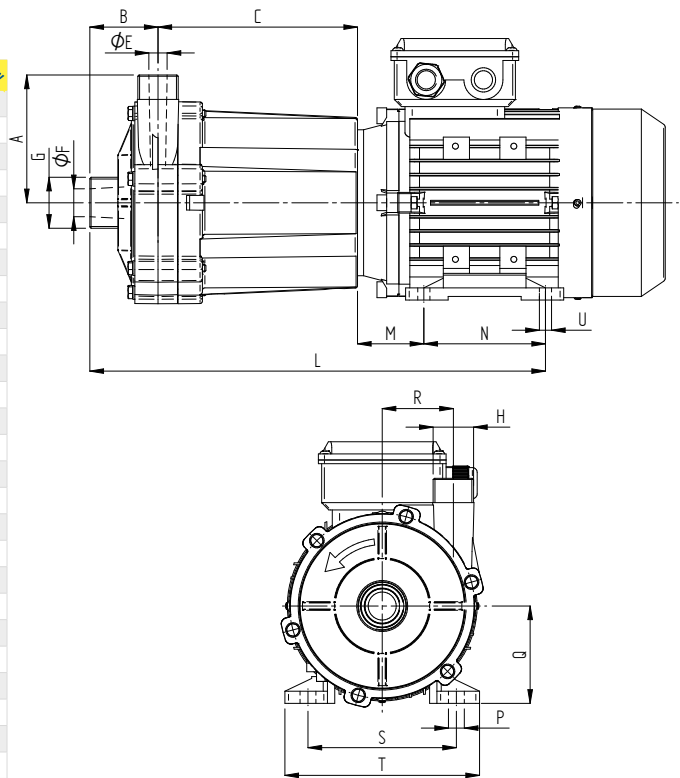


NEW CTM40-12.5 and CTM50-12.5
Currently the all new, more powerful
CTM pump is being introduced

Technical data

Dimensions

Model	CTM20-7	CTM25-8	CTM25-10	CTM32-12.5	CTM40-12.5	CTM50-12.5	NEW
A	70	90	100	105	105	110	
B	2.76	3.54	3.94	4.13	4.13	4.33	
	48	58.50	63	56	56.5	54	
C	1.89	2.30	2.48	2.20	2.22	2.13	
	93.5	100.5	136.5	164	165	189	
ØE	3.68	3.96	5.37	6.46	6.50	7.44	
	15	18	18	15	23	30.8	
ØF	0.59	0.71	0.71	0.59	0.91	1.21	
	15	18	18	23	30.5	42	
G	0.59	0.71	0.71	0.91	1.20	1.65	
	¾"	1"	1"	1 ¼"	1 ½"	2"	
H	¾	1	1	1 ¼	1 ½	2	
	¾"	1"	1"	1 ¼"	1 ½"	1 ½"	
L	¾	1	1	1 ¼	1 ½	1 ½	
	248.5	279	334.5	370	402.5	446	453
M	9.78	10.98	13.17	14.74	15.85	17.56	17.83
	36	40	45	54.5	56	63	70
N*	1.42	1.57	1.77	2.15	2.20	2.48	2.76
	71	80	90	100	125	140	
P*	2.80	3.15	3.54	3.94	4.92	5.51	
	9	10	10	15	10	12	
Q	0.22	0.28	0.28	0.59	0.39	0.47	
	56	63	71	80	90	100	112
R	2.20	2.48	2.80	3.15	3.54	3.94	4.41
	35	39.5	43.5	58.5	58.5	52	
S*	1.38	1.56	1.71	2.30	2.30	2.05	
	90	100	112	125	140	160	190
T	3.54	3.94	4.41	4.92	5.51	6.30	7.48
	112	126	133	160	166	184	220
U*	4.41	4.96	5.24	6.30	6.54	7.24	8.66
	5.5	7	7	10	10	12	
U*	0.22	0.28	0.28	0.39	0.39	0.47	
	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
IMPELLER							
NOMINAL DIAMETER	70	80	98	118	117	125	
OPTIONAL CONNECTIONS							
FLANGE	-	DN25	DN25	DN32 / DN25	DN40 / DN32	DN50 / DN40	
HOSE	-	Ø25	Ø 25	Ø32 / Ø25	Ø40 / Ø32	Ø50 / Ø40	



General 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)

CTM Pump code

I. Tapflo magnetic drive centrifugal pump

II. Pump size

III. Pump housing material

IV. Pump options

CTM

25-10

P

1V

-

05

P

I. CTM = Tapflo magnetic drive centrifugal pump

II. Pump size: 20-7|25-8|25-10|32-12.5|40-12.5|50-12.5

III. Pump housing material:

P = PP (Polypropylene)

K = PVDF (Polyvinylidene fluoride)

IV. Pump options:

1. Casing O-ring:

blank* = EPDM for PP, FKM for PVDF pump

F = FEP / Silicone

V = FKM

V. Motor power

VI. Motor options

2. Static bushing:

blank* = Al2O3 (ceramic)

S = SiC (silicone carbide)

3. Rotating bushing:

blank* = PTFE-graphite

S = SiC (silicone carbide)

4. Connection options:

blank* = BSP external thread

F = Flange DIN PN10 (CTM20, CTM25); PN16 (CTM32)

H = Hose connection

* = standard execution

V. Motor power / IEC mechanical size:

01 = 0.12 kW / 56

02 = 0.25 kW / 63

05 = 0.55 kW / 71

07 = 0.75 kW / 80

11 = 1.1 kW / 80

15 = 1.5 kW / 90

22 = 2.2 kW / 90

30 = 3.0 kW / 100

40 = 4.0 kW / 112

VI. Motor options

P = 1-phase motor (220/230 VAC)

V = 500 V motor

T = PTC motor protection

F60 = 60 Hz motor



Ask us for complete pump code with all available options and executions. Changes reserved without notice.

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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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