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CTM

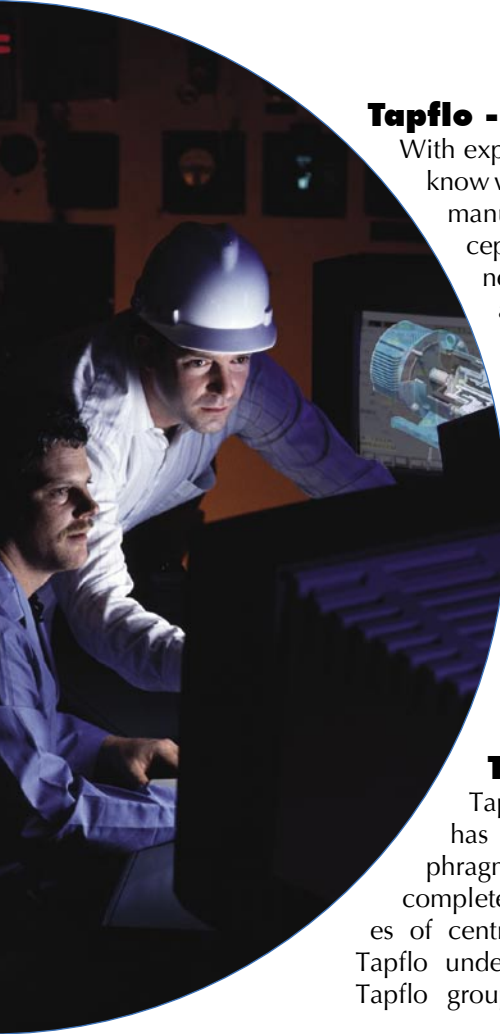
compact magnetic drive centrifugal pumps
catalogue 2007



tapflo[®]



tapflo®



Tapflo - your reliable pumpchoice

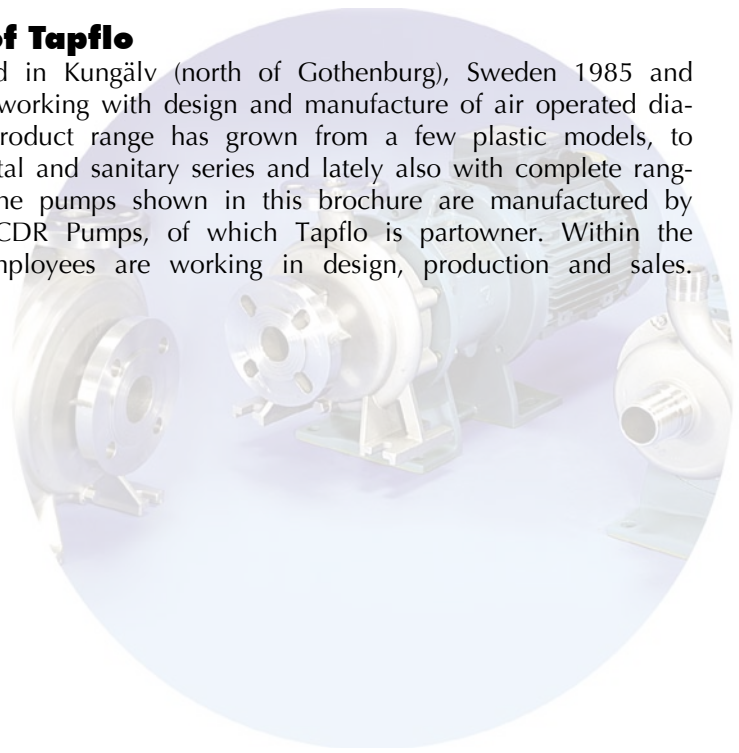
With experience from industrial fluid handling and pump manufacture since 1970, we know what you as a customer require from an industrial pump. Ever since we started our manufacture of air operated diaphragm pumps, we have always had our winning concept in mind: to create pumps for reliable duty and with a minimal number of components enabling easy maintenance. We are always keenly aware of new requirements and ideas from our customers. The products are therefore always in continuous progress with improved detail solutions, new materials and further accessories.

Tapflo quality

The Tapflo pump is usually an essential part in the process with hazardous fluids. We always strive to supply the safest and most environmental friendly solution for these fluids. As a part of our safety thinking, we are in the frontline following important standards, guidelines and directives. Many of our products comply with the EC ATEX directive for equipment in explosion hazardous environments. All our pumps are of course CE marked and followed by our comprehensive instruction manuals. Tapflo is an ISO 9001:2001 certified company.

The history of Tapflo

Tapflo was founded in Kungälv (north of Gothenburg), Sweden 1985 and has since then been working with design and manufacture of air operated diaphragm pumps. The product range has grown from a few plastic models, to complete PE & PTFE, metal and sanitary series and lately also with complete ranges of centrifugal pumps. The pumps shown in this brochure are manufactured by Tapflo under licence from CDR Pumps, of which Tapflo is partowner. Within the Tapflo group today 130 employees are working in design, production and sales.



The superior solution for a leakage free and safe fluid handling

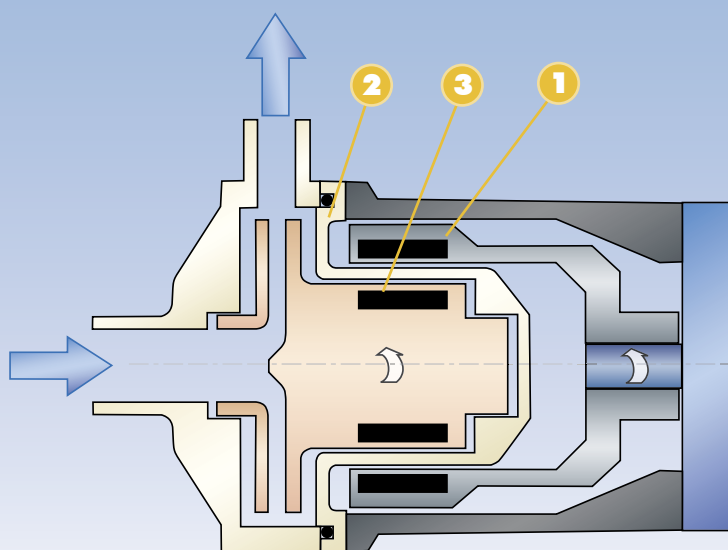


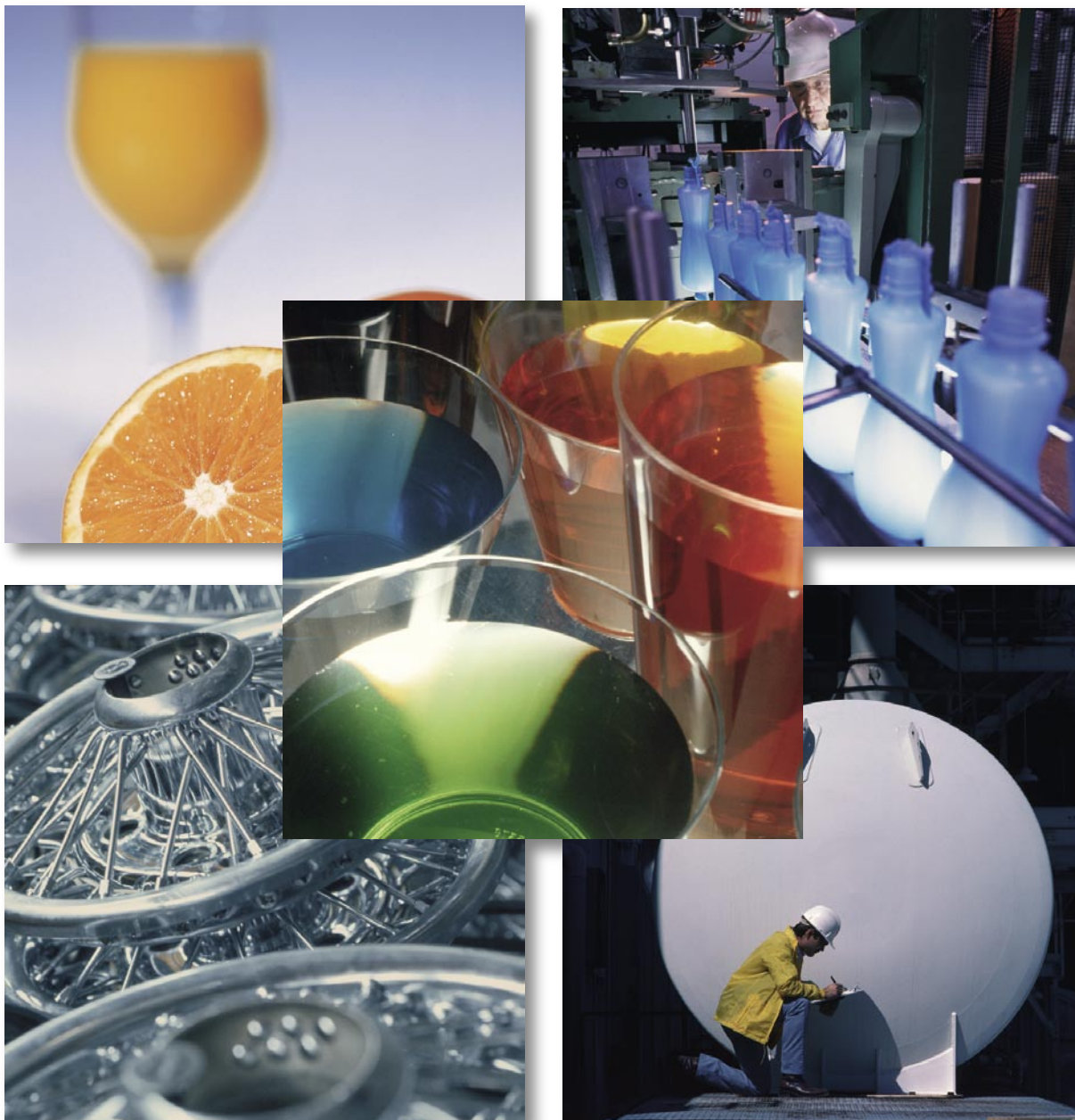
- ✓ Magnetic power transmission – no mechanical seal problems
- ✓ No leakage – safe working environment and environmental friendly
- ✓ Safe handling of hazardous fluids – seal less pump
- ✓ No poisonous or dangerous vapours – hermetic system
- ✓ Economical operation – high degree of efficiency and no waste of product

How the magnetic drive pumps function

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.

1. Drive magnet, connected to the motor
2. Isolation shell (rear housing) separating the liquid side from the atmosphere
3. Impeller magnet assembly, driven by the drive magnet





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.

Chemical stockists

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

Demineralizing

Demi-water circulation and transfer in many industrial applications

Photo processing

Transfer of photo develop chemicals and inclusion in processing machines

Liquid crystal manufacture

Pumping of concentrated acids and alkalis

Compact but powerful design

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

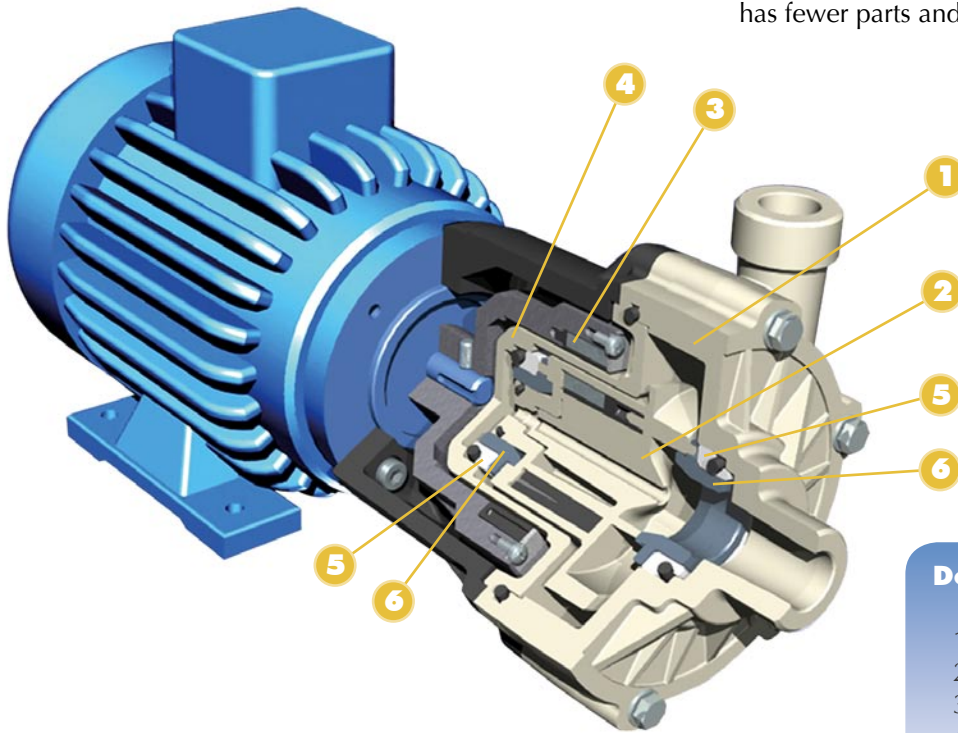
Non-metallic pumps

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 the superior chemical resistance and allows temperatures up to 80°C.

The reliable design without shaft

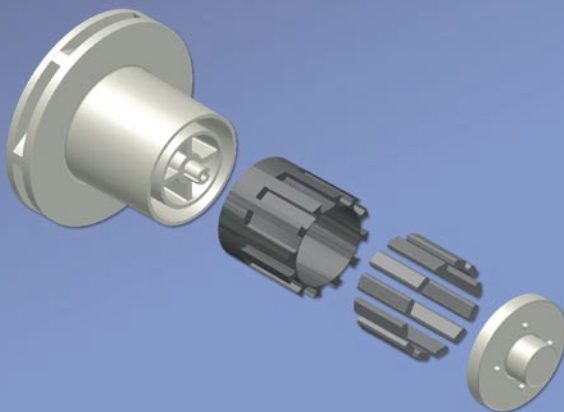
The impeller magnet assembly is designed with very powerful bushings where a conventional crack sensitive shaft is not needed. This results in a pump that has fewer parts and is very reliable in service.



Details of CTM

1. Pump casing
2. Impeller (with magnet)
3. External magnet (drive)
4. Isolation shell (rear casing)
5. Static bushing
6. Rotating bushing

Impeller CTM 25-10



Excellent performance with magnet cage system

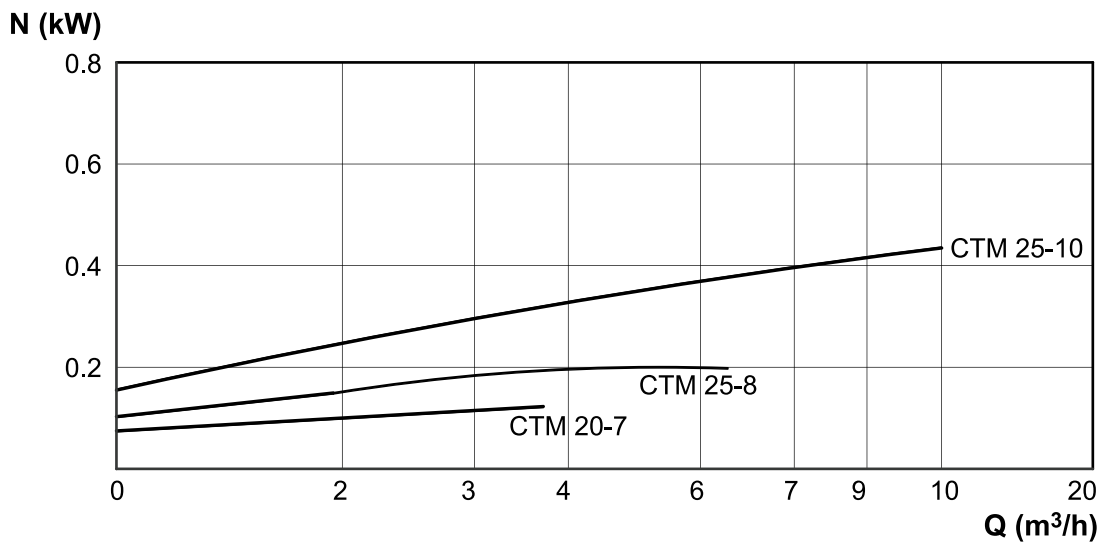
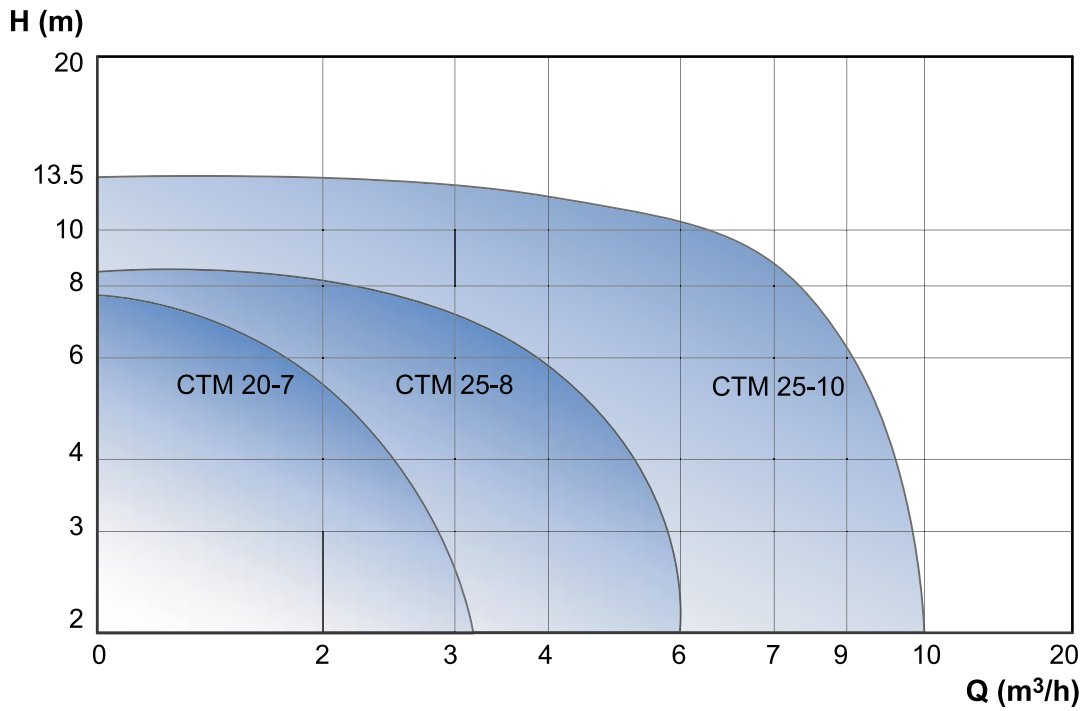
The magnets are totally encapsulated in their cage with the patented system that avoids the use of resins and glue. This grants a safe system with better performance at high temperatures. Furthermore the impeller is injection moulded, resulting in excellent performance and no weak points. CTM 20-7 has an open impeller while models CTM 25-8 and CTM 25-10 have closed impellers.

The powerful magnet couplings

Our magnets in NdFeB (Neodymium-iron-boron) with our patent pending 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.

Performance

Performance curves are based on 2900 rpm motor speed.
Please contact us for individual detailed performance curves.



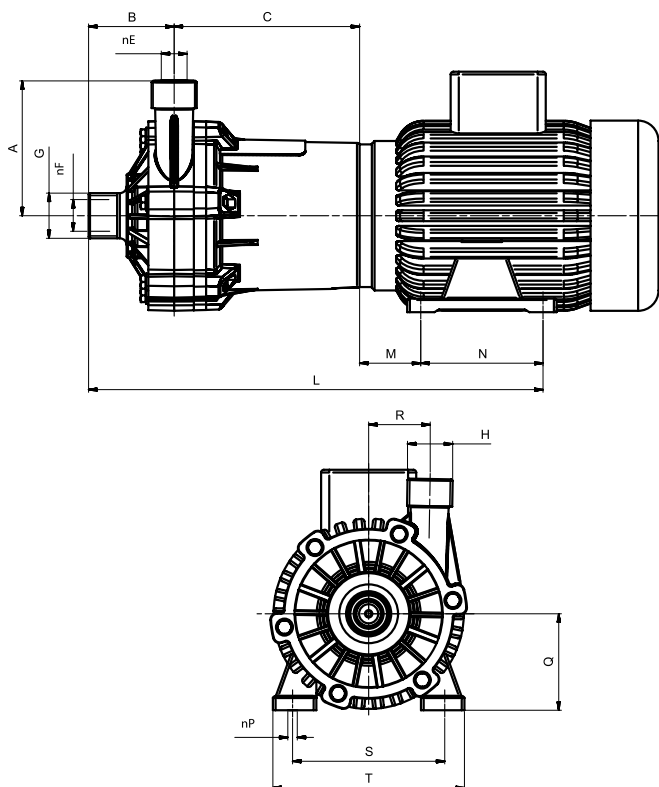
H = Head in meter
Q = Flow in m³/h
N = Required motor power in kW

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Dimensions			
	CTM 20-7	CTM 25-8	CTM 25-10
A	70	90	100
B	48	58.5	63
C	93.5	100.5	136.5
ØE	15	18	18
ØF	15	18	18
G	3/4"	1"	1"
H	3/4"	1"	1"
L	248.5	279	334.5
M	36	40	45
N	71	80	90
ØP	5.5	7	7
Q	56	63	71
R	35	39.5	43.5
S	90	100	112
T	112	126	141

Motor			
Power	0.12 kW	0.25 kW	0.55 kW
Size	56	63	71

Flange connections (optional)			
Inlet	-	DN25	DN25
Outlet	-	DN25	DN25



Dimensions in mm where other is not indicated

Materials	
Pump casing and isolation shell (rear casing)	PP (GF 30%) or PVDF
Impeller	PP or PVDF
Lantern (not wetted)	PP (GF 30%)
Static bushings	Ceramic (standard) or SiC
Rotating bushings	Carbographite (standard) or SiC
O-rings	FKM (standard), EPDM or FFKM Kaflon
Magnets	NdFeB

General characteristics	
Temperature range	PP pumps: 0°C +70°C PVDF pumps: 0°C +80°C
System pressure rating	PP pumps: PN4 at 20°C, PN2 at 70°C PVDF pumps: PN4 at 20°C, PN2 at 80°C
Viscosity	200 cSt max
Solids	2% max concentration in weight Hardness 800 V _k / size 150 µm
Motor	IEC standard, 3x380 VAC (other voltage upon request), 2900 rpm, IP55, frame B3/B14

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Tapflo is represented in more than 30 countries worldwide. Visit our website for updated information.



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