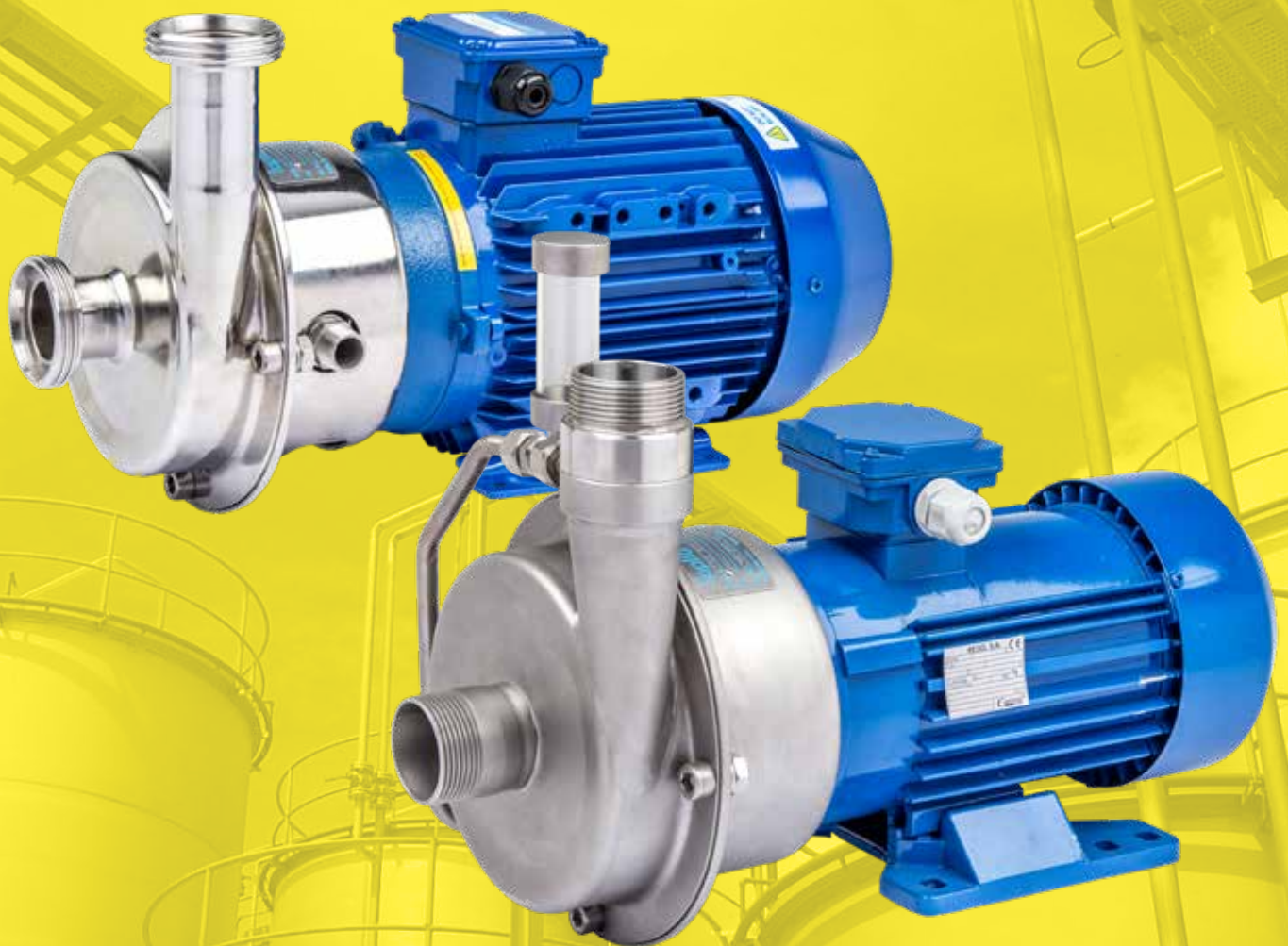


tapflo®

# CTI & CTH CENTRIFUGAL PUMPS

2025 | 1



» All about your flow®

[www.tapflo.com](http://www.tapflo.com)

# CTI & CTH Centrifugal Pumps

## meet the demands of various modern industries

The CT pumps are open or semi-open impeller single stage centrifugal pumps. They are manufactured in high finish and mechanically strong material - AISI 316L stainless steel.

### CTH - hygienic execution

- » **pump casing** and **wetted parts** electropolished to  $Ra < 0,8 \mu m$
- » intended for hygienic duties in food, beverage and pharmaceutical industries, **where cleanability is an important factor**
- » mechanical seals and elastomers **FDA and EC1935 approved**
- » **hygienic connections** with DIN 11851 as standard

### CTI - industrial execution

- » **pump casing** (both external and wetted parts) glass blasted to  $Ra < 1,6 \mu m$
- » a variety of connection types, mechanical seal options and other executions are available to **satisfy most of industrial duties**
- » **as standard BSPT thread connection** or with flanged connections according to **EN 1092-1 or ANSI 150 Lbs**



EN 10204



AT Ex



Certificates may vary depending on material execution of particular product.



### Features

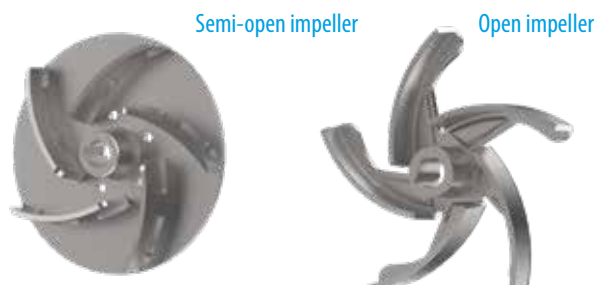
- |                             |                                   |
|-----------------------------|-----------------------------------|
| ✓ Simple and compact design | ✓ Competitive price-quality ratio |
| ✓ Low maintenance cost      | ✓ Multiple options                |
| ✓ Open impeller             | ✓ Solids handling                 |
| ✓ High grade materials      | ✓ Wide range of applications      |

### Special executions and options



#### Big choice of sealing solutions

The CTI & CTH pump range features top brand mechanical seals in a variety of materials to suit most type of liquids. They are available in combinations of ceramic, graphite and SiC.



Semi-open impeller

Open impeller

#### Semi-open impeller

Tapflo CT pumps can be fitted with a semi-open impeller in comparison to its standard open impeller. This option ensures more stable operation, lower noise, lower vibrations and more robust construction. It is recommended to use the semi-open impeller when hard solids can be present in the pumped liquid.

## Wide range of applications (CTH & CTI)

### CTH

#### Industries:

- » **dairy**
- » **ice cream**
- » **beverage**
- » **food**
- » **pharma**
- » **cosmetics**
- » **brewery and winery**

#### Applications:

diary,  
fats,  
juices,  
alcohol,  
semi products,  
food additives,  
ingredients for cosmetic and pharmaceutical,  
products in explosive and safe zones,

mild and aggressive chemicals,  
hot and cold liquids,  
suspensions and emulsions,  
cleaning and washing agents,  
wastewater,  
feeding and unloading of storage tanks,  
containers, filters, sumps,  
powering process equipment, dosing systems,  
dispensing units,



### CTI

#### Industries:

- » **chemical,**
- » **mining,**
- » **oil & gas,**
- » **packaging,**
- » **printing,**
- » **automotive,**
- » **machinery,**
- wastewater treatments plants,**

#### Applications:

oils,  
fuels,  
solvents,  
concentrated or diluted acids and alkalis in  
explosives and safe zones,  
mild and aggressive chemicals,  
hot and cold liquids,

suspensions and emulsions,  
cleaning and washing agents,  
wastewater  
cooling and heating media,  
feeding and unloading of storage tanks,  
containers, filters, sumps.  
powering process equipment, dosing systems,  
dispensing units, test rigs,





# CTH - hygienic series

## Materials, data and limits

<b>Casing</b>	AISI 316L stainless steel electropolished to Ra<0.8 µm
<b>Impeller</b>	AISI 316L stainless steel electropolished to Ra<0.8 µm
<b>Mechanical seal</b>	Single ceramic/carbon (standard), SiC/SiC or SiC/carbon
<b>O-rings</b>	EPDM, FKM, FFKM, NBR, FEP compliant with FDA and EC 1935/2004 directive requirements
<b>Motor*</b>	IEC standard, 3-phase, 2-pole/4-pole, IP55
<b>Max pressure</b>	10 bar (PN10)
<b>Temperature</b>	max 90 °C, max 180 °C for long coupled version
<b>Viscosity</b>	max ~200 cSt
<b>Particles</b>	max diameter is Ø 6 mm (with standard open impeller), bigger if soft particles

\*other motor options available on request

## Connection dimensions

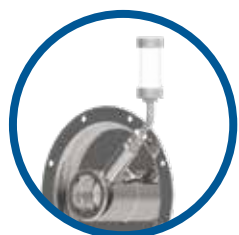
Model	DIN 11851 thread (standard)		DIN 32676 clamp		ISO 2852 clamp		SMS 1145 thread		RJT thread	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
<b>CTH A...</b>	DN25	DN25	DN25	DN20	25	25	38	25	1 ½"	1"
<b>CTH B...</b>	DN40	DN32	DN40	DN25	38	25	51	38	1 ½"	1 ½"
<b>CTH C...</b>	DN40	DN40	DN40	DN40	38	38	51	38	3"	3"
<b>CTH D...</b>	DN65	DN50	DN65	DN50	70	51	63	51	3"	2"
<b>CTH E...</b>	DN65	DN50	DN65	DN50	70	51	63	51	3"	2"

## Options and special executions



### Hygienic shroud

The hygienic motor shroud in polished AISI 304L **protects the motor from spraying water during pump cleaning procedure.**



### Buffer fluid system

A great option **when the product tends to solidify or crystallize.** An oil reservoir is connected to the mechanical seal chamber.



### Long coupled execution

The perfect solution **when pumping hot products** like edible oil. Complete pump unit **mounted on baseplate, with coupling and cover.**



### Casing drainage

Draining plug with variety of connection types, **allow to empty the pump** at the end of the process.



### Heating jacket

Great **protection for the mechanical seal** in cases where product solidification is likely. The heating jacket is also **used when the pumped product has to maintain a specific temperature**, high or low. A heating or cooling medium is continuously circulated in the jacket.



### Adjustable feet

The solution allows **easy cleaning** of the surface underneath the pump. It can also prove useful when there is a need to move the pump to a different location.



# CTI - industrial series

## Materials, data and limits

<b>Casing</b>	AISI 316L stainless steel glass blasted to Ra<1,6 µm
<b>Impeller</b>	AISI 316L stainless steel electropolished
<b>Mechanical seal</b>	Single ceramic/carbon (standard), SiC/SiC or SiC/carbon
<b>O-rings</b>	EPDM (standard), FKM, FFKM, FEP/silicone or NBR
<b>Motor*</b>	IEC standard, 3-phase, 2-pole/4-pole, IP55
<b>Max pressure</b>	10 bar (PN10)
<b>Temperature</b>	max 90 °C, max 180 °C for long coupled version
<b>Viscosity</b>	max ~200 cSt
<b>Particles</b>	max diameter is Ø 6 mm (with standard open impeller), bigger if soft particles

\*other motor options available on request

## Connection dimensions

Model	BSPT male thread (standard)		EN 1092-1		ANSI 150 Lbs flange	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
<b>CTI A...</b>	1"	¾"	DN25	DN 20	1"	¾"
<b>CTI B...</b>	1 ½"	1"	DN40	DN25	1 ½"	1"
<b>CTI C...</b>	1 ½"	1 ½"	DN40	DN40	1 ½"	1 ½"
<b>CTI D...</b>	2 ½"	2"	DN65	DN50	2 ½"	2"
<b>CTI E...</b>	2 ½"	2"	DN65	DN50	2 ½"	2"

## Options and special executions



### Flushed seal

Ideal **when abrasive or sticky particles are present**. System where a small amount of the pumped product is recirculated from the discharge side to the seal chamber through a strainer, will protect the mechanical seal and seal chamber from excessive wear.



### Long coupled execution

The perfect solution **when pumping hot products** like oil or paraffin wax at temperatures **up to 180 °C**. Complete pump unit **mounted on baseplate, with coupling and cover**.



### Heating jacket

Great **protection for the mechanical seal** in cases where product solidification is likely. The heating jacket is also **used when the pumped product has to maintain a specific temperature**, high or low. A heating or cooling medium is continuously circulated in the jacket.



### Flanged connections

The CTI pump can be supplied with a **standard BSPT thread connection** or with flanged connections according to **EN 1092-1 or ANSI 150 Lbs**.



### Buffer fluid system

A great option **when the product tends to solidify or crystalize**. An oil reservoir is connected to the mechanical seal chamber.



### Casing drainage

The drain connection at the bottom of the pump casing **allows to fully drain the pumped liquid from the casing**.



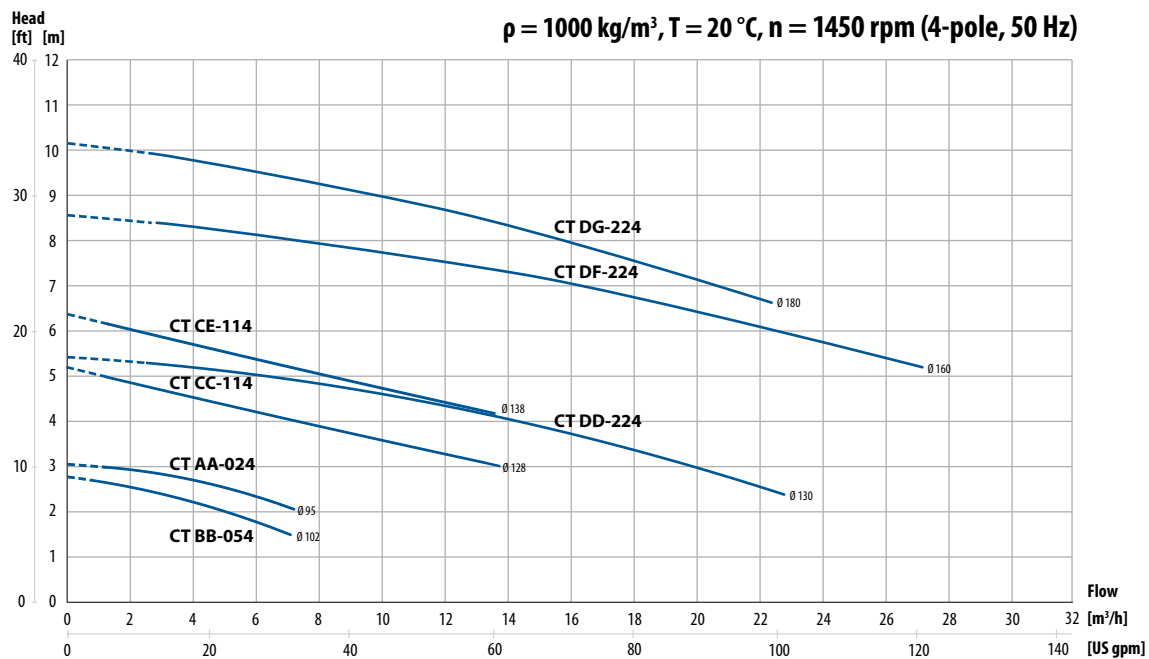
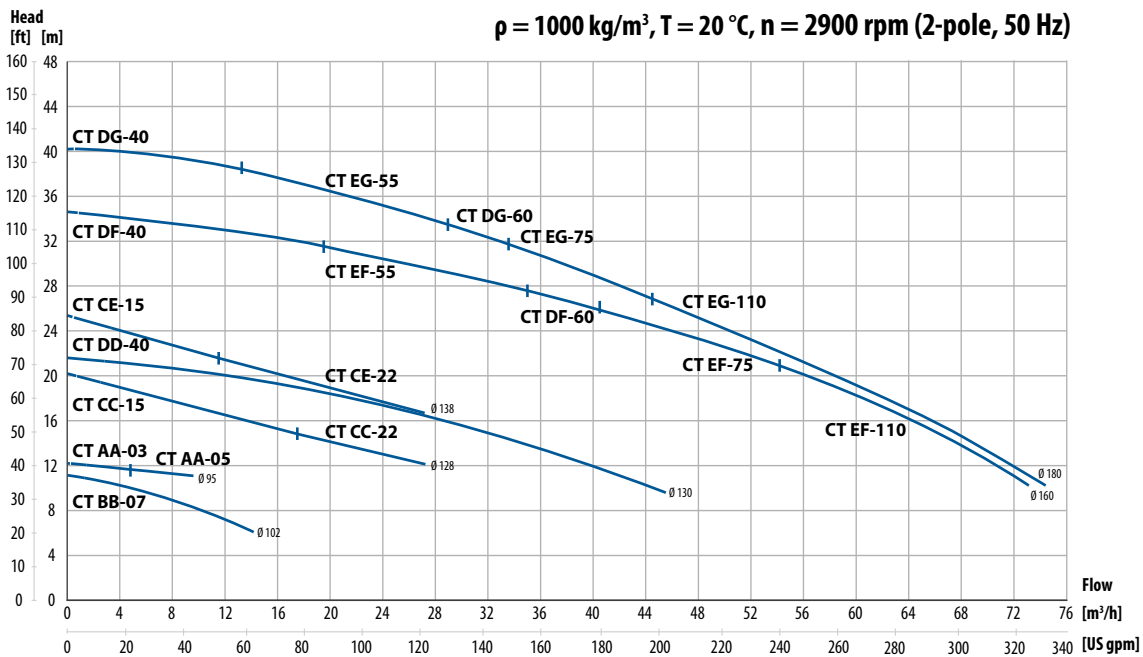
### Mounting brackets

Complete pump unit may be assembled on a baseplate **which can be firmly, permanently fixed to the foundation**.



## Performance curves

The performance curves are based on water.



## Available motor powers

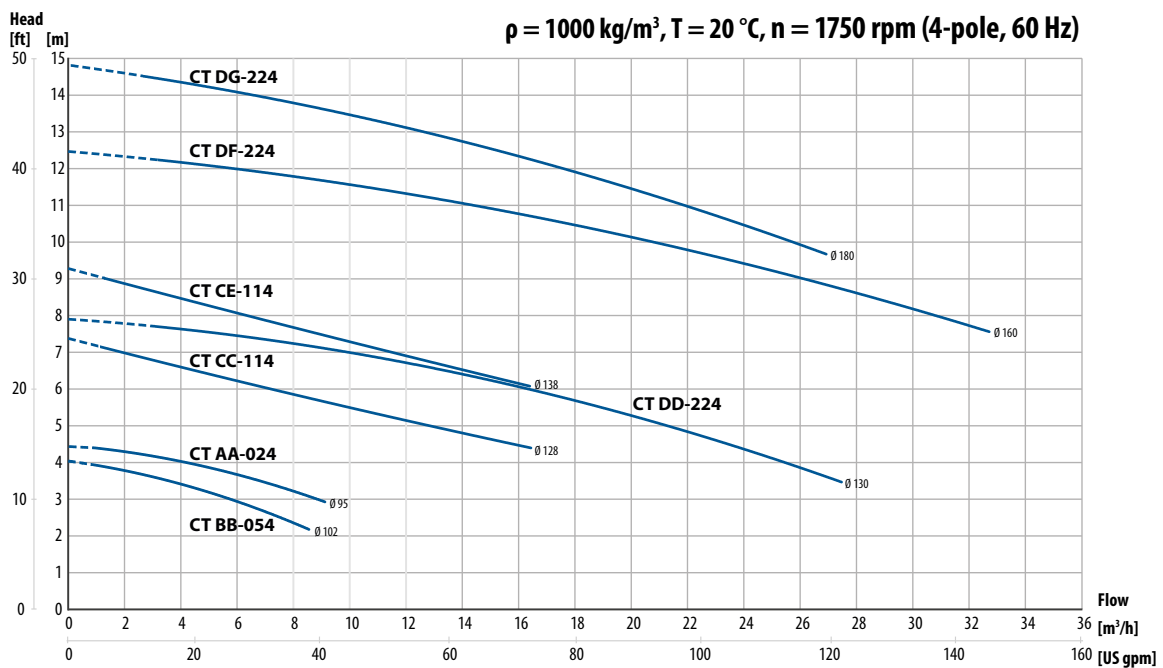
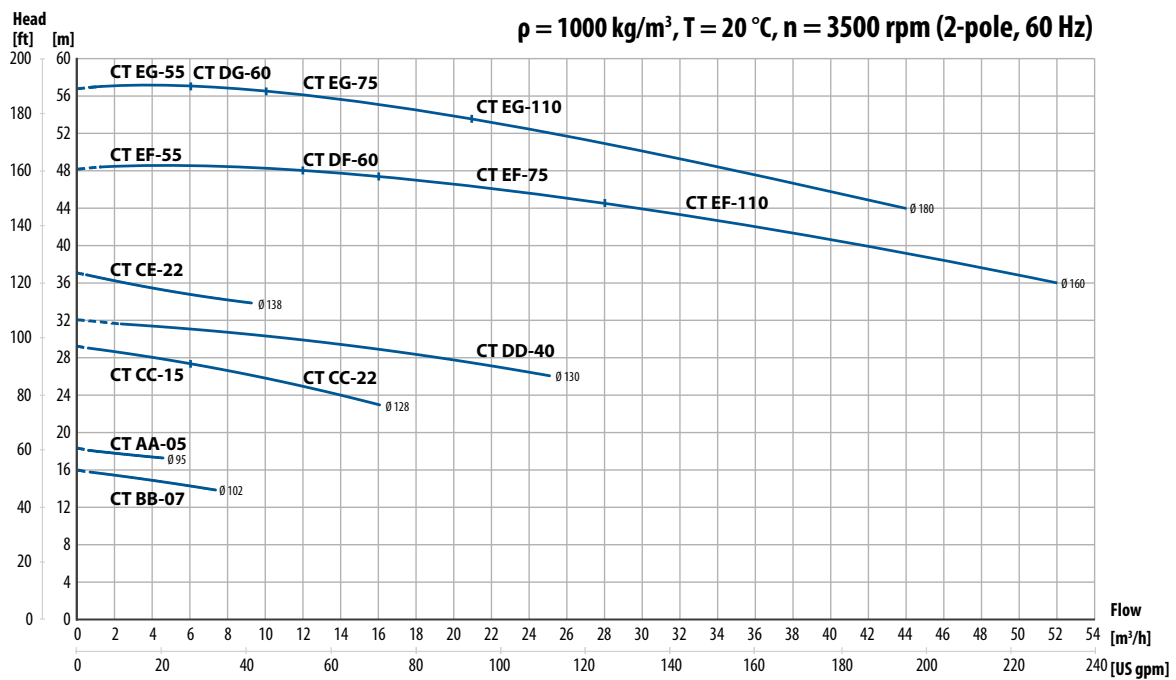
2-pole motor	AA-03	AA-05	BB-07	CC-15	CC-22 CE-22	DD-40 DF-40	DF-60 DG-60	EF-55 EG-55	EF-75 EG-75	EG-110 EF-110
Motor power [kW]	0.37	0.55	0.75	1.5	2.2	4.0	6.0	5.5	7.5	11*
IEC motor size	71	71	80	90	90	112	112	132	132	160

\* Long coupled execution

4-pole motor	AA-024	BB-054	CC-114; CE-114	DD-224; DF-224; DG-224
Motor power [kW]	0.25	0.55	1.1	2.2
IEC motor size	71	80	90	100

## Performance curves

The performance curves are based on water.



## CT Pump code

I. Tapflo centrifugal pump

CT

II. Pump execution

I

III. Casing size

C

IV. Impeller size

C

V. Pump options

- 1CGV3F-

VI. Motor power / IEC motor size

03

VII. Motor options

M

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*We began our journey in 1980 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 the foundation, 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.*

## Tapflo products and services are available worldwide.

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

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