

tapflo®

# CTP PLASTIC CENTRIFUGAL PUMPS

2026 | 1



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

# CTP Plastic Mechanically Sealed Centrifugal Pumps

unrivalled with strong acids also containing solid particles

The CTP are semi-open impeller single stage centrifugal pumps. Since there are no metal parts on the liquid side, the pumps are ideal for chemical transfer and circulation duties.

CTP pumps are available in polypropylene (CTP PP) and polyvinylidene fluoride execution (CTP PVDF).

## CTP PP - polypropylene execution

- » temperature resistance **up to 70 °C**
- » for circulation of pickling baths and degreasing processes
- » provides great mechanical strength

## CTP PVDF - polyvinylidene fluoride execution

- » temperature resistance **up to 90 °C**
- » for hot medias
- » great mechanical properties and chemical resistance



Certificates may vary depending on material execution of particular product.

## Features

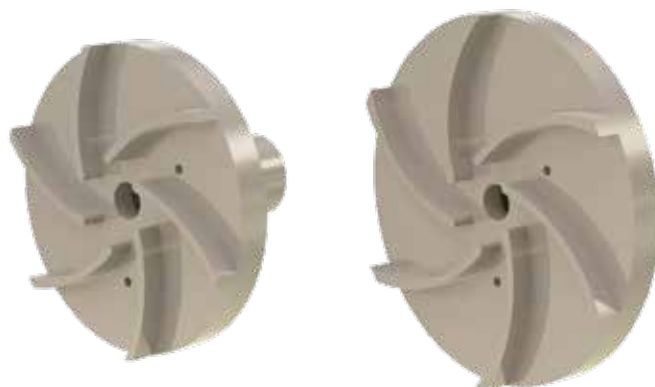
- ✓ Safety drain on air side of the pump
- ✓ Handling liquids with particles possible, even with metallic solids
- ✓ Compact and reliable
- ✓ No metal parts in contact with the liquid
- ✓ Few parts, low maintenance cost, easy to handle

## Trimmed impeller

Impeller trimming means **reducing the outer diameter** of the impeller. This leads to the reduction of the circumferential speed inside the centrifugal pump. This operation is done **to fit the required duty point**.

Reduction of the impeller diameter provides an easy and effective way to permanently **reduce both flow and head without changing the rotational speed of the motor**.

Impeller **can be trimmed every 5mm**. For CTP 32 minimum is 90 mm, for CTP 50 - 95 mm.



# Wide range of applications

## CTP

### Industries:

- » chemical,
- » surface treatment,
- » machinery, echanical,
- » foundry,
- » paint,
- » wastewater treatment plants

### Applications:

acids,  
toxic and corrosive chemicals,  
detergent concentrates,  
circulation of galvanic baths,

feeding and unloading of storage tanks, filters,  
containers, sumps.

powering process equipment, dosing systems,  
dispensing units, test rigs.



# Robust and compact design

## Mechanical seal

The **spring is located on the dry side of the pump** therefore all metallic parts are protected against contact with the liquid. This means no elastic bellow is required.

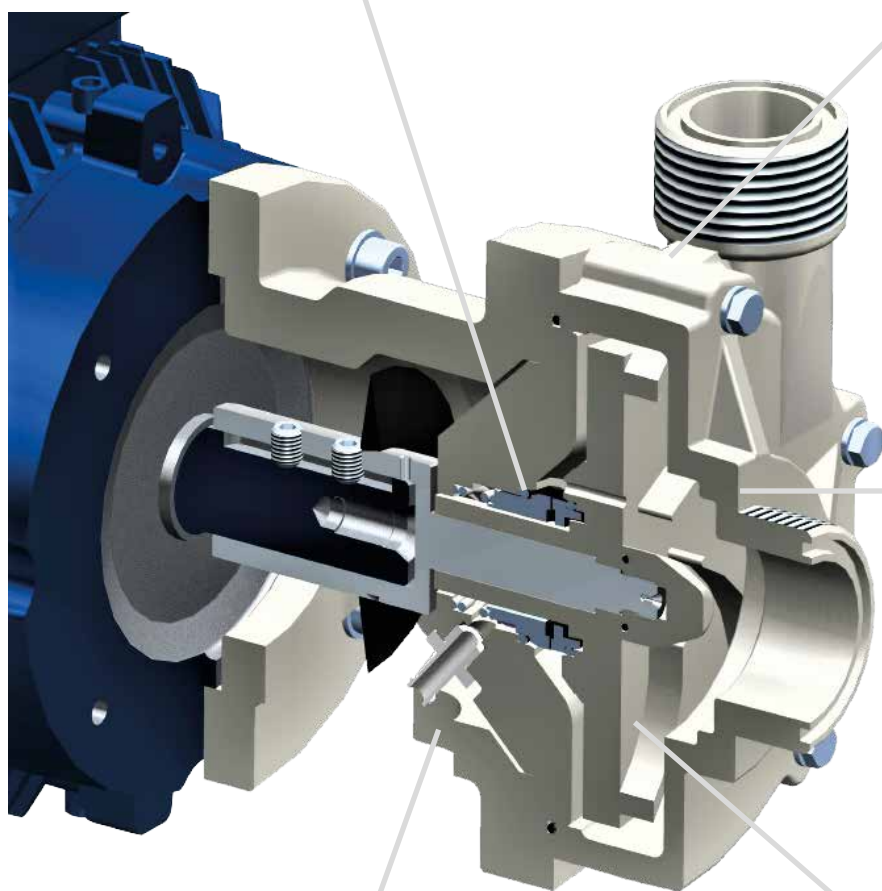


## PP & PVDF wetted materials

Can handle highly corrosive liquids also containing solids and metallic particles. Pumps can handle hot alkali and acids.

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**.



## Chemically resistant pumps

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

The **shaft is protected by means of a plastic sleeve and nut** compatible with the pump housing material.

## Safety drain

The special revision hole in the back casing provides a **drainage from the mechanical seal in case any leakage occurs**.

This prevents the motor and shaft from getting into contact with the pumped liquid. The PVDF barb connector allows to plug a hose and reroute the liquid out of the pump.

## Semi open impeller

Allows pumping liquids with particles up to **Ø 3 mm and 10% in concentration**.

A semi open impeller also **improves the transfer of liquids with higher viscosity**.



# CTP PP & PVDF

## Materials, data and limits

|                              |   |
|------------------------------|---|
| <b>Casing</b>                | PP-GF (30%) or PVDF   |
| <b>Back casing, Impeller</b> | PP or PVDF  |
| <b>Lantern (not wetted)</b>  | PP  |
| <b>Mechanical seal</b>       | Rotating part: SiC or Graphite<br>Stationary part: SiC or Ceramic<br>Spring: AISI 316 or Hastelloy C-276 <sup>1</sup> |
| <b>O-rings</b>               | EPDM, FEP/FKM, FKM  |
| <b>Shaft</b>                 | AISI 316L stainless steel (standard) or Hastelloy® C-276  |
| <b>Motor*</b>                | IEC standard, 3-phase, 2-pole, IP55   |
| <b>Pressure rating</b>       | PP: PN6 at 20 °C; PN2 at 70 °C<br>PVDF: PN6 at 20 °C; PN2 at 90 °C  |
| <b>Temperature</b>           | PP: from 0 °C up to 70 °C; PVDF: from -20 °C up to 90 °C  |
| <b>Viscosity</b>             | max ~200 cSt  |
| <b>Particles</b>             | max diameter is Ø 3 mm and 10% in concentration   |

<sup>1</sup>Hastelloy® C is a registered trademark of Haynes International, Inc.

\*other motor options available on request

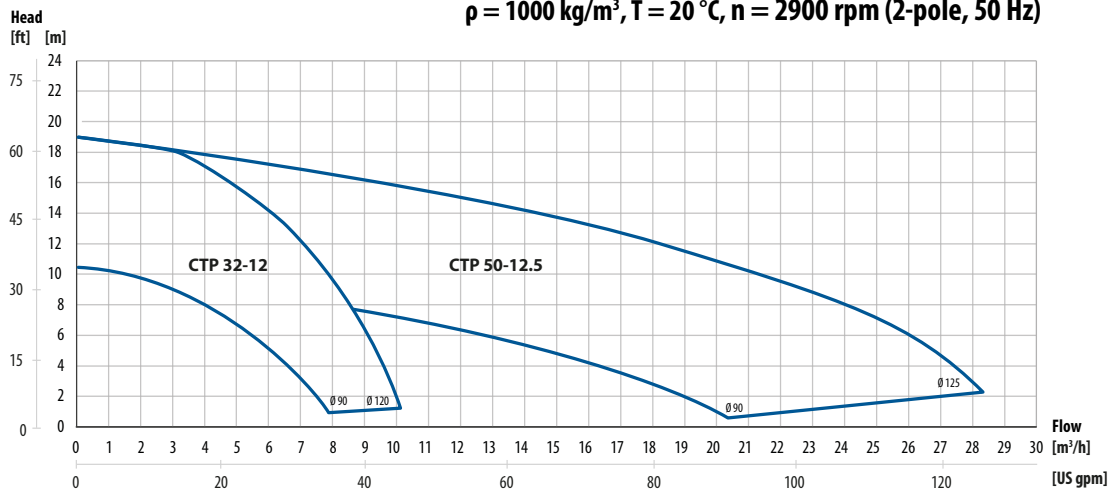
## Connection dimensions

| Model              | BSPT male thread (standard) |        | DIN 2633/ PN16 flange |        | Hose  |        |
|--------------------|-----------------------------|--------|-----------------------|--------|-------|--------|
|                    | Inlet                       | Outlet | Inlet                 | Outlet | Inlet | Outlet |
| <b>CTP 32-12</b>   | 1 ¼"                        | 1"     | DN32                  | DN25   | Ø32   | Ø25    |
| <b>CTP 50-12.5</b> | 2"                          | 1 ½"   | DN50                  | DN40   | Ø50   | Ø40    |

## Performance curves

The performance curves are based on water.

$\rho = 1000 \text{ kg/m}^3, T = 20 \text{ }^\circ\text{C}, n = 2900 \text{ rpm (2-pole, 50 Hz)}$



## Available motor powers

| 2-pole motor            | 32-12 |     | 50-12.5 |     |
|-------------------------|-------|-----|---------|-----|
| <b>Motor power [kW]</b> | 0.75  | 1.1 | 3.0     | 4.0 |
| <b>IEC motor size</b>   | 80    |     | 100     | 112 |

## CTP Pump code

I. Tapflo mechanically sealed plastic centrifugal pump II. Pump size III. Impeller size IV. Pump housing material V. Pump options VI. Motor power VII. Motor options

CTP

32

12.5

P

-

1SSV

-

07

P

# Mobile Pump Solutions

## solve the problem of spread technological processes

The portability of the units allows easy movement to various locations. This means almost limitless application.

Mobile pump units are available in both hygienic and industrial designs. The great advantage is the compatibility with the majority of Tapflo centrifugal pumps range.

Moreover, it is possible to compose the trolley to your own needs by using a number of accessories such as ON-OFF switches, frequency inverters, or cable holders.

### Hygienic Trolleys

- » Stainless steel polished drip tray
- » Valve for drainage
- » 3 sizes available



### Industrial Trolleys

- » Stainless steel construction
- » Compact and strong baseplate
- » 3 sizes available



### Special executions













CTH Liquid Soap Dispensing Unit on M hygienic trolley



CTI mobile transferring pump on the dedicated trolley

# Product range

## Diaphragm pumps

|  |  |  |  |   |
|--|--|--|--|---|
| <br>Electrically operated pumps | <br>PE & PTFE pumps | <br>Metal pumps           | <br>Pharmaceutical pumps      | <br>Sanitary pumps |
| <br>TC Intelligent pumps        | <br>Powder pumps    | <br>TF Filter press pumps | <br>Steinle filter press pumps | <br>Aseptic pumps  |

## Centrifugal pumps

|  |   |   |   |   |
|--|---|---|---|---|
| <br>CTXH & I, CTH & I pumps | <br>CTXS H & I, CTS H & I self-priming pumps | <br>CTV vertical pumps | <br>CTP plastic pumps | <br>CTM magnetic drive pumps |
|--|---|---|---|---|

## Other pumps

  
Hose pumps

  
Submersible pumps

  
LPX Lobe pumps\*

## Mixers

  
Industrial Mixers

## Systems

  
HVS Quattro Drum Unloading System

## Filters

  
FT Filter units

## Accessories

  
Pulsation dampeners

  
Control systems

  
Hygienic valves

  
Hygienic & Industrial Trolleys

• offered only in: Australia, Austria, Canada, Denmark, France, Germany, Ireland, Italy, Japan, Netherlands, Portugal, South Africa, Spain, Sweden, United Kingdom

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