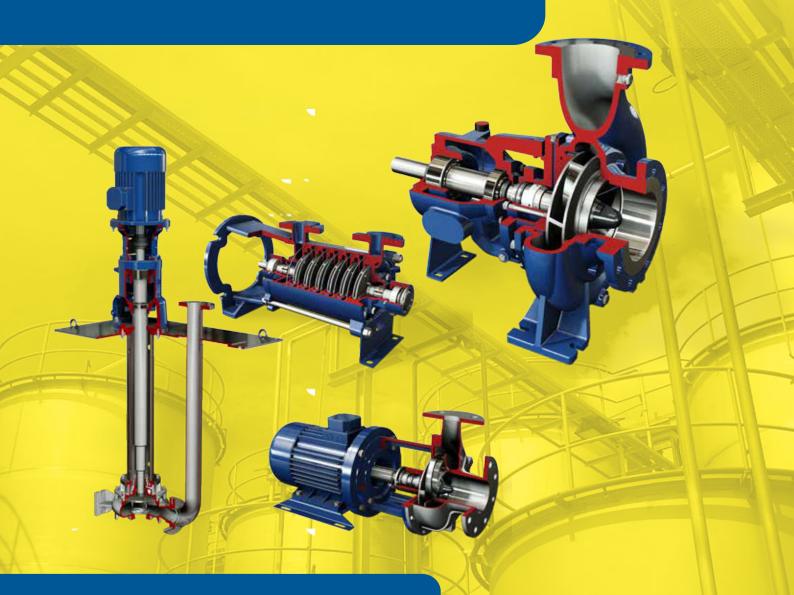


WATER AND INDUSTRIAL CENTRIFUGAL PUMPS

Edition 2022



>> All about your flow

www.tapflopumps.co.uk

About Tapflo >>

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 and also with 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 own 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 use in explosion hazardous environments.

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

All our products are obviously 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 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.

Customizing 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.

Process



Vertical

- VERTICAL

 Closed, Open, Channel and
 Vortex Impeller
- CANTILEVER Vortex and Channel Impeller





Close Coupled

■ HD Closed Impeller



■ HG **(E:** Semi-Open Impeller





■ RS Vort



Vortex Impeller



Water

RN Closed Impeller



TS
Multistage





RAM

Peripheral Impeller



Centrifugal pumps build according to ISO 2858/ISO 5199 norms.

Impeller type: closed.

Discharge sizes: from DN 32 to DN 125. Maximum working pressure: 16 bar.

Flow rate: up to 500 m3 /hr. Differential head: up to 140 m.

Temperature: up to 180-220°C according to the

pumped liquid.

Materials: AISI 316 Upon request AISI 304, AISI 904,

duplex, superduplex, Hastelloy B and C.

High hydraulic efficiencies and low NPSH requirements (investment casting impellers).

Heavy Duty Shaft and Bearings.

Only 3 bearing brackets for the whole range.

Only 1 casing cover fits every seal arrangement (see page "Seals").

FIELDS OF APPLICATION:

handling aggressive organic and inorganic liquids in the chemical and petrochemical industries.

They are also used in:

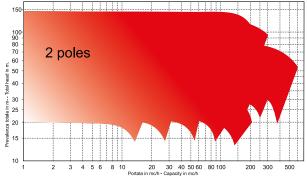
sea water desalination plants, absorption equipment in environmental engineering, power stations, steel industry, hot water distribution.

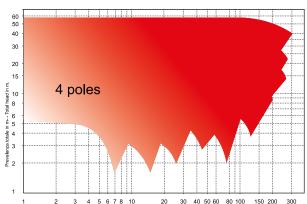




Selection Charts







Centrifugal pumps build according to ISO 2858/ISO 5199 norms.

Impeller type: semi-open with wear plate and external adjustment.

Discharge sizes: from DN 32 to DN 125.

Maximum working pressure: 16 bar - according to

the pump size.

Flow rate: up to 300 m3 /hr. Differential head: up to 95 m.

Temperature: up to 180-220°C according to the pumped

liauid.

Materials: AISI 316 Upon request AISI 304, AISI 904, duplex, superduplex, Hastelloy B and C.

High hydraulic efficiencies and low NPSH requirements (investment casting impellers).

Heavy Duty Shaft and Bearings.

Only 3 bearing brackets for the whole range.

Only 1 casing cover fits every seal arrangement (see page "Seals").

FIELDS OF APPLICATION:

handling slightly contaminated liquids or not abrasive slurries in the chemical and petrochemical industries. Well suited for handling liquids with gas contents up to 15%.

They are also used in:

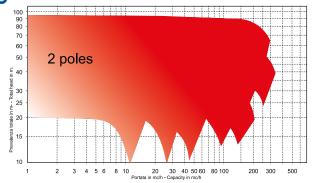
refineries, general industrial service, pulp and paper industry, foodstuffs industry, sugar industry, sea water desalination plants, absorption equipment in environmental engineering, power stations, steel industries, hot water distribution.

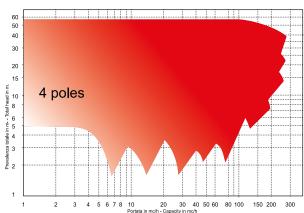




Selection Charts







Centrifugal pumps with bearing bracket in according to ISO 2858/ISO 5199 norms.

Impeller type: vortex.

Discharge sizes: from DN 32 to DN 250.

Maximum working pressure: 10 bar - according to

the pump size.

Flow rate: up to 800 m3 /hr. Differential head: up to 60 m.

Temperature: up to 150-220°C according to the pumped

liquid.

Materials: Cast Iron GJL250 or AISI 316. Upon request AISI 304, AISI 904, duplex, superduplex, Hastelloy.

Large free passage clearance up to 180 mm due to

the completely recessed impeller. Heavy Duty Shaft and Bearings.

Only 4 bearing brackets for the whole range.

Only 1 casing cover fits every seal arrangement (see

page "Seals").

FIELDS OF APPLICATION:

Handling chemical and crystalline suspensions, all viscous liquid, liquid with high concentrations of fibrous suspensions, municipal and industrial wastewater, every kind of sludge.

Textile and tannely:

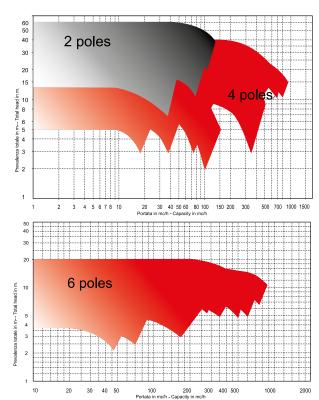
refineries, general industrial service, pulp and paper industry, foodstuffs industry, sugar industry, sea water desalination plants, absorption equipment in environmental engineering, power stations, steel industries.





Selection Charts





Centrifugal pumps with bearing bracket in according to ISO 2858/ISO 5199 norms.

Impeller type: channel.

Discharge sizes: from DN 65 to DN 300.

Maximum working pressure: 10 bar - according to

the pump size.

Flow rate: up to 2400 m3 /hr. Differential head: up to 70 m.

Temperature: up to 150-220°C according to the pumped

liquid

Materials: Cast Iron GJL250 or AISI 316. Upon request AISI 304, AISI 904, duplex, superduplex, Hastelloy.

 $Impeller\ with\ special\ blades\ geometry\ for\ low\ NPSH$

and high free passage.

Heavy Duty Shaft and Bearings.

Only 5 bearing brackets for the whole range.

Only 1 casing cover fits every seal arrangement (see

page "Seals").

FIELDS OF APPLICATION:

Handling slightly contaminated liquids in waste water treatment plants, clean water for cooling towers or condensate recovery plants, viscous liquids in evaporators in food or chemical industry.

They are also used in:

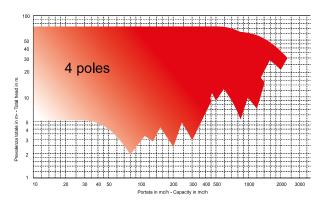
refineries, general industrial service, pulp and paper industry, foodstuffs industry, sugar industry, sea water desalination plants, absorption equipment in environmental engineering, power stations, steel industries, hot water distribution.

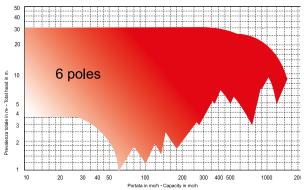




Selection Charts







Seals



ONLY ONE CASING FOR DIFFERENT MECHANICAL SEAL ARRANGEMENT

Cylindrical chamber built in according to EN 12756 standards can be fitted with any type of mechanical seal or cartridge.

Single mechanical seals, double mechanical seals (tandem or back to back arrangements) or packing can be obtained using few components.

This modular system allow the customer to change seal arrangements using the same casing cover and replacing just few parts.

Up to 15 different seal arrangement to cover all the customer needs.

Seal arrangements can be fitted with flushing plans in according to API 682 standards (such as PLAN 11, PLAN 52, PLAN 53, PLAN 54).

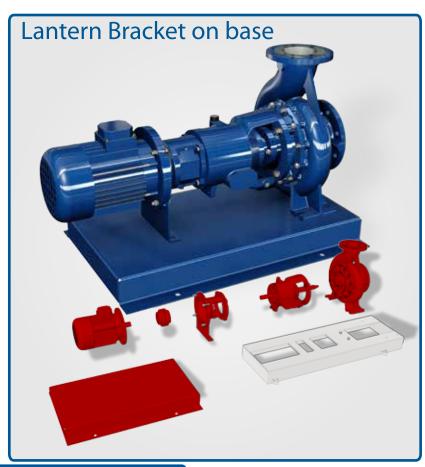


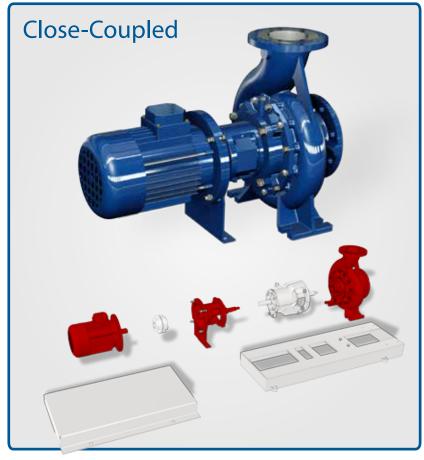












VERTICAL



Closed, Open, Channel and Vortex Impeller



Impeller type



Closed Impeller Clean liquids.



Channel Impeller

Slightly contaminated liquids or non abrasive slurries. Special blade geometry for low NPSH and high free passage. High efficiency and low NPSH.



Semi-open impeller with wear plate and external adjustment

Slightly contaminated liquids or non abrasive slurries. Well suited for handling liquids with gas contents up to 15%.



Vortex Impeller

Chemical and crystalline suspensions, all viscous liquids, liquids with high concentrations of fibrous suspensions, municipal and industrial wastewater, every kind of sludge. Free passage up to 180 mm.

Vertical immersible sump pump (ISO 5199 norms) line-shaft with bearing bushes.

The pump body is immersed into the liquid, whilst the motor is mounted above the plate, keeping it away from the liquid.

The discharge pipe is separated from the column pipe and the lubrication of the line bearings is normally obtained by means of the same pumped fluid, or from an external lubricating source (such as clear liquid or grease) in abrasive services.

The possibility to customize mounting plate shape and dimensions, discharge flange position and column length, allows designers and end-users to match sump or tank plates or flanges.

Pump length: up to 6 meters.

Mounting plate: rectangular, circular or according to customer's specifications.

PTFE LIP SEAL or CARTRIDGE SEAL for vapor proof construction or pressurized designs.

Materials: Cast Iron GJL250 or AISI 316. Upon request AISI 304, AISI 904, duplex, superduplex.

Bearing bush materials: bronze, rubber, RULON and PEEK.

Suction strainer and suction extension on request.

FIELDS OF APPLICATION:

Used in all industrial applications, refining, oil and gas production, chemical, pulp & paper, and water facilities.

Typical applications include: drainage sumps, oily water sumps, tank transfer.

Arrangement

A arrangement:

Lubrication by means of pumped fluid.

Pumped fluid lubricates all the bearing bushes (bottom and intermediates).

The liquid must be clean: suspended solids could clog the small pipes for intermediate bearing bush lubrication.

Vertical pumps with bottom bearing bush only, can also work with liquids with non abrasive small solids.

B arrangement:

Lubrication by external lubricating source.

A clean external source, clean liquid or grease lubricates all the bearing bushes (bottom and intermediates).

Used when the liquid is dirty, sticky or with suspended solids. This arrangement also allows also the pump to work without liquid in the sump or with tail pipe. The external fluid is pumped together with the main fluid.

E arrangement:

Lubrication by fluid into the pipe column.

Used when the liquid is aggressive, dirty, sticky or with suspended solids.

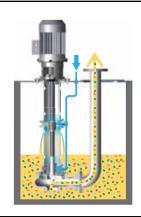
A mechanical seal is placed between the shaft and the casing cover to fill the pipe column.

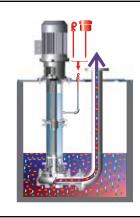
All the bearing bushes (bottom and intermediates) are lubricated by flushing fluid.

Before startup, the pipe column must be filled with antifreeze solution.

The level can be controlled by a dip-stick or level probe upon request.







CANTILEVER (EX)



Vortex and Channel Impeller



Impeller type

Channel Impeller



Slightly contaminated liquids or non abrasive slurries. Special blades geometry for low NPSH and high free passage. High efficiency and low NPSH.

Vortex Impeller



Chemical and crystalline suspensions, all viscous liquid, liquid with high concentrations of fibrous suspensions, municipal and industrial wastewater, every kind of sludge. Free passage up to 180 mm.

Vertical cantilever sump pumps with non-clogging vortex and channel impeller.

The pump body is immersed into the liquid, whilst the motor is mounted above the plate, keeping it away from the liquid.

Oversize heavy duty ball bearing are supplied with grease fittings and located above the mounting plate out of the corrosive area. This means:

- >> None of the bearings are in the liquid and there is no shaft seal or bearing bush;
- >> Bearing assembly is sealed-off to prevent bearing contamination by liquids or gases-vapors;
- Pumps can run dry without risk of damage;
- >>> Reliable operation and reduced cost.

The possibility to customize mounting plate shape and dimensions, discharge flange position and column length, allows designers and end-users to match sump or tank plates or flanges.

Pump length: up to 1,8 meters. Can be extended by means of a suction suction extension allowing the pump to operate with a liquid level under the impeller level.

Mounting plate: rectangular, circular or according to customer's specifications.

PTFE LIP SEAL for vapor proof construction.

Materials: Cast Iron GJL250 or AISI 316. Upon request CA6NM (400HB hardness), AISI 304, AISI 904, duplex, superduplex, CA6NM (400HB hardness).

Suction strainer and suction extension on request.

FIELDS OF APPLICATION:

Used for sludges, slurries and liquids containing large or long solids.

Typical applications include: drainage sumps, oily water sumps, tank transfer, Food Processing, Ground Water Development and Irrigation, Heavy Oil, Oil Sands and Shale, Paper Stock, Sewage Collection and Treatment, Shower Pumps, Slurry Processing, Slurry Transfer.

Installation

TYPICAL INSTALLATION

The cantilever pump is installed at the top of sump/tank and works without level controls. With liquid level above the pump "priming holes", the pump works properly.

As soon as the liquid level is below the suction port, the pump will be unprimed and *work dry*.

The pump will restart to work when the liquid level reaches. the pump "priming holes".

TYPICAL INSTALLATION WITH SUTION EXTENSION

The cantilever pump is installed at the top of sump/tank and works without level controls. With liquid level above the pump "priming holes", the pump works properly.

As soon as the liquid level is below the end of suction extension or when the NPSHa is lower then NPSHr, the pump will be unprimed and work dry.

This arrangement allows to empty tanks up to 5 meters below the suction port.

The pump will restart to work when the liquid level reaches the pump "priming holes".

EXTERNAL INSTALLATION

The cantilever pump is installed beside of sump/tank and works without level controls.

When the liquid level inside the tank is above the pump casing the pump can operate.

As soon as the liquid level is below the suction port, the pump will be unprimed and work dry.

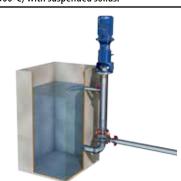
The pump will start again to work when the liquid level inside the tank is above the pump casing.

The liquid level inside the tank has to be lower than recirculation pipe in order to allow the liquid back to into the tank and not damage motor.

This arrangement allows to work with very hot fluid (up to 300°C) with suspended solids.







Heavy duty close coupled centrifugal pumps.

Impeller type: closed.

Discharge sizes: from DN 32 to DN 80.

Maximum working pressure: up to 8 bar - according

to the pump size.

Flow rate: up to 300 m3 /hr. Differential head: up to 55 m.

Temperature: up to 120 °C according to the

pumped liquid. Materials: AISI 316.

Flanges: PN16 reduced thickness or DIN 11851 food

connections.

Same interaxis of ISO 5199 chemical norm pump: easy interchangeability.

Casing and impeller manufactured with investment

casting technology.

Standard IEC motor (different brand available) -

stub shaft design.

Different seal execution and materials options

available on request.

FIELDS OF APPLICATION:

handling aggressive organic and inorganic liquids in the chemical industries.

They are also used in:

general industrial service, foodstuffs industry, water/solvent recovery process, power stations, steel industry, small evaporator plants.

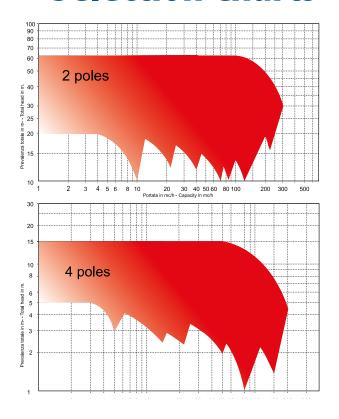




Selection Charts

Connection





Heavy duty monoblock centrifugal pumps.

Impeller type: semi-open with wear plate. Discharge sizes: from DN 32 to DN 80.

Maximum working pressure: up to 8 bar - according

to the pump size.

Flow rate: up to 200 m3 /hr. Differential head: up to 60 m.

Temperature: up to 120 °C according to the pumped

liquid.

Materials: AISI 316.

Flanges: PN16 reduced thickness or DIN 11851 food

connections.

Same interaxis of ISO 5199 chemical norm pump: easy interchangeability.

Casing and impeller manufactured with investment

casting technology.

Standard IEC motor (different brand available) -

stub shaft design.

Different seal execution and materials options

available on request.

FIELDS OF APPLICATION:

handling slightly contaminated liquids or non abrasive slurries in the chemical and petrochemical industries. Well suited for handling liquids with gas contents up to 10%.

They are also used in:

general industrial service, foodstuffs industry, dissolved air flotation systems, small evaporator plants, sugar industry, water/solvent recovery process, power stations, steel industry textile.

Connection



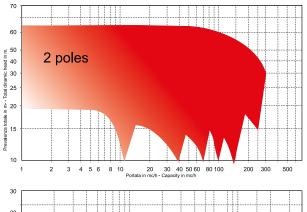
FLANGED or FOOD CONNECTIONS

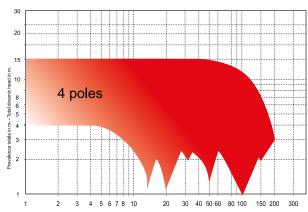






Selection Charts





Heavy duty monoblock centrifugal pumps.

Impeller type: vortex.

Discharge sizes: from ¾" M to DN 65.

Maximum working pressure: up to 8 bar - according

to the pump size.

Flow rate: up to 100 m3 /hr. Differential head: up to 60 m.

Temperature: up to 120 °C according to the pumped

liquid.

Materials: AISI 316.

Flanges: PN16 reduced thickness or DIN 11851 food

connections.

Same interaxis of ISO 5199 chemical norm pump: easy interchangeability.

Casing and impeller manufactured with investment casting technology.

Large free passage clearance up to 50 mm due

to the completely recessed impeller.

Standard IEC motor (different brand available) - stub

shaft design.

Different seal execution and materials options available on request.

FIELDS OF APPLICATION:

Handling chemical and crystalline suspensions, all viscous liquid, liquid with high concentrations of fibrous suspensions, municipal and industrial wastewater, every kind of sludge.

They are also used in:

general industrial service, foodstuffs industry, dissolved air flotation systems, waste water treatment plant, sugar industry, water/solvent recovery process, power stations, steel industry, textile and tannery.

Connection



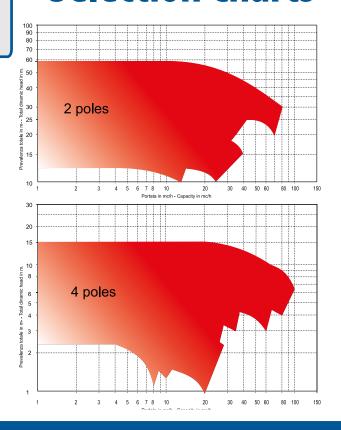
FLANGED or FOOD CONNECTIONS







Selection Charts



Centrifugal pumps in according to EN 733 norms.

Impeller type: closed.

Discharge sizes: from DN 32 to DN 150. Maximum working pressure: 10 bar.

Flow rate: up to 480 m3 /hr. Differential head: up to 90 m.

Temperature: up to 130°C according to the pumped

liquid. Materials:

> CAST IRON GJL200 EN1561, Shaft in AISI 430 or AISI 316,

Impeller in CAST IRON GJL200 EN1561 or BRASS

according to the pump size.

FIELDS OF APPLICATION:

Clean and non-aggressive liquids for the pump materials (contents of solids up to 0,2% max).

They are also used for:

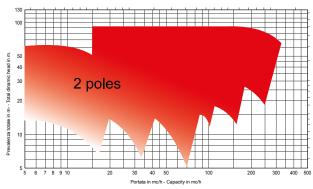
non aggressive industrial liquids, water supply, heating, conditioning, cooling and circulation plants, civil and industrial applications, fire-fighting plants and irrigations.

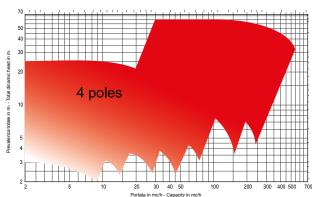




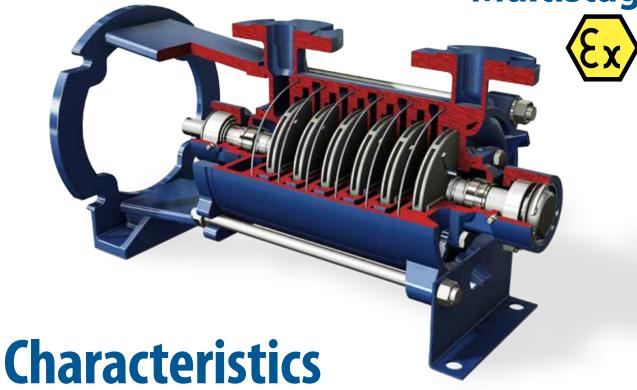
Selection Charts











Centrifugal pumps in according to EN 733 norms.

Impeller type: closed.

Discharge sizes: from DN 32 to DN 150. Maximum working pressure: 10 bar.

Flow rate: up to 480 m3 /hr. Differential head: up to 90 m.

Temperature: up to 130°C according to the pumped

liquid. Materials:

CAST IRON GJL200 EN1561, Shaft in AISI 430 or AISI 316,

Impeller in CAST IRON GJL200 EN1561 or BRASS

according to the pump size.

FIELDS OF APPLICATION:

Clean and non-aggressive liquids for the pump materials (contents of solids up to 0,2% max).

They are also used for:

non aggressive industrial liquids, water supply, heating, conditioning, cooling and circulation plants, civil and industrial applications, fire-fighting plants and irrigations.





RAM

Peripheral



Characteristics

Multistage centrifugal pumps. Impeller type: Peripheral.

Discharge sizes: DN 25.

Maximum working pressure: up to 25 bar.

Flow rate: up to 6,3 m3 /hr. Differential head: up to 180 m. Temperature: up to 120°C.

Materials: Casing and diffusers in cast iron GJL250, Shaft in AISI 420, impellers in BRASS or AISI 316 SS

upon request. Flanges: PN25.

FIELDS OF APPLICATION:

clean liquids without solid parts in suspension.

They are used in:

boiler feeding, washing plants, flotation plants in waste water treatment, and whenever low capacity and high pressure are required.





TAPFLO UK

United Kingdom

Tel: **02380 252325**

Email: sales@tapflopumps.co.uk

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

Belarus

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 E00D Tel: +359 (0)2 974 18 54 office@tapflo.bg

Canada

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

Croatia

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

Czech Republic

Tapflo 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

India

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

Ireland

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

Italy

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

Japan

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. Tapflo Rom. S.r.l. Tel: +40 21 3451255 sales@tapflo.ro

Russia

Tapflo Company
Tel: +7 495 232 18 28
sales@tapflo.com.ru

023 8025 2325

Serbia

Tapflo 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

TOB Tapflo Tel: +380 44 222 68 44 sales@tapflo.ua

Uzbekistan

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

United Kingdom

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





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