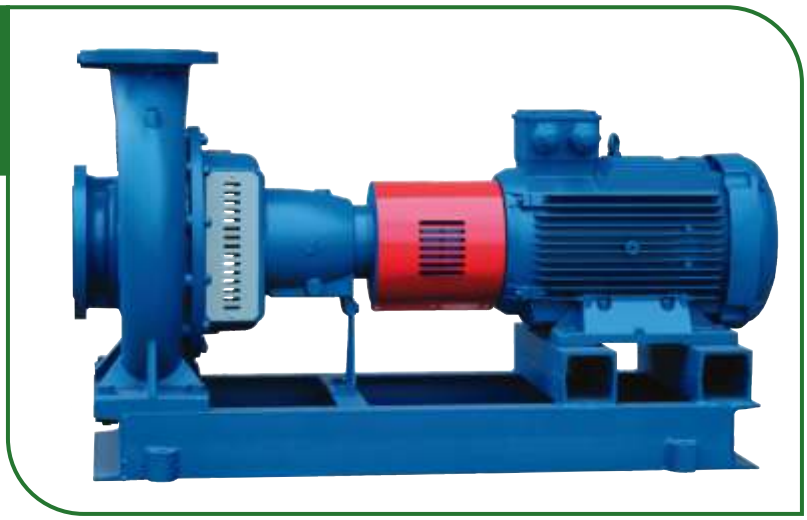
AquaMas®
Flow Systems

GENERAL CATALOGUE

SNT

EN 733 NORM PUMPS



Handled Liquids

SNT Type pumps are suitable for clean or slightly contaminated liquids with low viscosity.

Technical Data

Suction Flange	DN 50 .... DN 300 mm
Discharge Flange	DN 32 .... DN 250 mm
Capacity	up to 1700 m³/h
Heads	up to 100 m
Speed	up to 2900 rpm
Operating Temperature	-10 °C - +140 °C' *
Casing Pressure (Pmax)	10 bar (16 bar) *

(Pmax : Suction Pressure + Shut off Head)

(*) The material of pumps differ according to the type of pumped liquid, operating temperature and pressure. Contact our company for detailed information.

- The suction and discharge flanges are conforming to ISO 7005-2/PN 16.
- Due to the back-pull-out design the complete bearing assembly including impeller and stuffing box cover can be dismantled without removing the volute casing from the pipe system.
- All impellers are balanced statically and dynamically according to ISO 1940 class 6.3.
- Axial thrust is balanced by wear ring/balancing holes system.

Design Features

- Horizontal, radially split volute casing type, single stage, end suction centrifugal pump with enclosed impeller.
- Dimensionally complies with EN 733.
- In addition to 29 basic sizes conforming with EN 733, there are 20 additional sizes.

Shaft Sealing

- In standard production soft packed stuffing boxes are used.
- Depending on customer requirement mechanical seals are available. In this case, pump shaft is always stainless steel.

Pump Designation

SNT 100 - 250

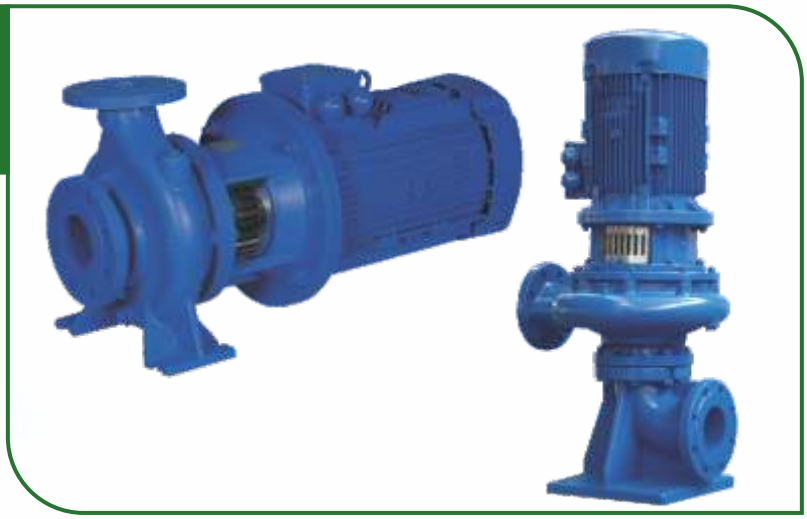
Pump Type

Discharge Nozzle (DN-mm)

Nominal Impeller Diameter (mm)

SNM/SNMV

EN 733 NORM PUMPS



Handled Liquids

SNM / SNM-V type pumps are suitable for non-aggresive, non-explosive, clean or slightly contaminated liquids with low viscosity

Technical Data

Suction Flange	DN 50 ..... DN 200 mm
Discharge Flange	DN 32 ..... DN 150 mm
Capacity	up to 500 m³/h
Head	up to 95 m
Speed	up to 2900 rpm
Motor Rating	up to 55 kW +
Operating Temperature	-10 °C up to +110 °C
Casing Pressure (Pmax)	10 bar (16 bar) *
Shaft Sealing	Mechanical Seal

(Pmax: Suction pressure + Shut off Head)

(+) Please contact our company for pumps with motor power over 55 kW.

(*) The material of pumps differs according to the type of pumped liquid, operating temperature and pressure. Contact our company for detailed information.

- Main dimensions of casing according to EN 733
- Suction and discharge flanges are conforming to ISO 1092- 2 / PN16.
- SNM / SNM -V pumps are direct coupled with NORM electric motors comply with the VDI standards and IEC frame sizes.
- SNM / SNM -V type Close-coupled pumps are lighter and smaller compared to the norm centrifugal pumps of same hydraulic specifications.

Design Features

- Close-coupled, volute casing, single stage, end suction centrifugal pump with closed impeller.

Shaft Sealing

- Single mechanical seal, flushed by pumped liquid,

Pump Designation

SNM 100 - 250

Pump Type

Discharge Nozzle (DN-mm)

Nominal Impeller Diameter (mm)

SNL
IN-LINE PUMPS

Handled Liquids

SNL Type pumps are suitable for non-aggressive, non-explosive, clean or slightly contaminated liquids with low viscosity.

Technical Data

Suction Flange	DN 40 up to 200 mm
Discharge Flange	DN 40 up to 200 mm
Capacity	up to 500 m³/h
Head	up to 95 m
Speed	2900 rpm
Motor Rating	up to 55 kW+
Operating Temperature	-10 °C up to 110 °C *
Casing Pressure (Pmax)	10 Bar (16 Bar) *

(Pmax: Suction pressure + Shut off Head)

(+) Please contact our company for pumps with motor power over 55 kW.
(*) The material of pumps differs according to the type of pumped liquid, operating temperature and pressure. Contact our company for detailed information.

Desing Features

- Close-coupled, volute casing, single stage, in-line centrifugal pump with closed impeller.
- Suction and discharge flanges are conforming to TS EN 1092-2/PN 16
- SNL type pumps are direct coupled with NORM electric motors comply with the VDI standards and IEC frame sizes.
- Axial thrust is balanced by wear ring / balancing holes system.

Rotation

- Direction of rotation is clockwise viewed from driver.

Pump Designation

SNL 100 - 250

Pump Type

Suction and Discharge Nozzles (DN-mm)

Nominal Impeller Diameter (mm)

SDS / SDS-V

DOUBLE SUCTION PUMPS

Handled Liquids

SDS / SDS-V type pumps are suitable for clean or slightly contaminated liquids with low viscosity.

Technical Data

Discharge Flange ——— DN 65..... DN 700 mm
Capacity ——— up to 6000 m3/h
Heads ——— up to 180 m
Speed ——— up to 2900 rpm
Operating Temperature —— -20 °C up to + 80 °C
Casing Pressure (Pmax) — 16 bar - 25 bar *

(Pmax: Suction Pressure + Shut off Head)

(*) The material of pumps differ according to the type of pumped liquid , operating temperature and pressure. Contact our company for detailed information.

- Flanges are conforming to ISO 7005-2 / PN 16 or PN 25.
- Impeller is of double suction. This feature increases pump suction performance in addition it provides the balance of hydraulic axial forces.
- All impellers are balanced statically and dynamically according to ISO 1940 class 6.3.

Design Features

- Horizontal and vertical configaration
- Suction and discharge flanges are on the same axis at the bottom casing. Split case design permits easy dis - assembly of the rotor group for maintenance or repair without distorting pump alignment and suction and discharge piping.

Shaft Sealing

- Different soft packing and mechanical seal types are available.

Pump Designation

SDS-V 200 - 500

Pump Type
Vertical Installation
Discharge Nozzles (DN-mm)
Nominal Impeller Diameter (mm)

SCP

EN 22858 NORM PUMPS

Handled Liquids

SCP Type pumps are suitable for clean or slightly contaminated liquids with low viscosity.

Technical Data

Suction Flange — DN 50 .... DN 300 mm

Discharge Flange — DN 32 .... DN 250 mm

Capacity — up to 1700 m³/h

Head — up to 140 m

Speed — up to 2900 rpm

Operating Temperature — -20 °C - +175 °C *

Casing Pressure (Pmax) — 16 bar (25 bar) *

(Pmax: Suction pressure + Shut off Head)

(*) The material of pumps differs according to the type of pumped liquid, operating temperature and pressure. Contact our company for detailed information.

- Due to the back-pull-out design, the complete bearing assembly including impeller and shaft can be dismantled without removing the volute casing from the piping system.
- All impellers are dynamically balanced according to ISO 1940 class 6.3.
- Axial thrust is balanced in closed impeller by wear ring / balance hole system and in semi-open impeller by back ribs.
- Heavy duty shaft not in contact with the medium handled (dry shaft).
- For casing sealing, confined gaskets are used to prevent blow-out under pressure.

Design Features

- Horizontal, single stage, radially split volute casing type, end suction centrifugal pumps with closed or semi-open impeller.
- In addition to 26 basic sizes conforming with EN 22858 / ISO 2858, there are 10 additional sizes. Dimensions of additional sizes may differ from other suppliers.
- Suction and discharge flanges conforming to ISO 7005 / PN16.

Shaft Sealing

- Depending on request or requirement, pumps with soft packing or single, double and cartridge type mechanical seals can be supplied.
- External seal cooling system may be used if required.

Pump Designation

SCP 125 - 315 A

Pump Type

Discharge Nozzle (DN)

Nominal Impeller Diameter (mm)

Impeller Type (A: semi-open)

PC / PCV-M

WASTE WATER & PROCESS PUMPS

Handled Liquids

Domestic and industrial waste water, raw sewage, viscous and corrosive liquids, liquids with fibrous and solid substances.

Technical Data

Discharge Flange	DN 40 … DN 300 mm
Capacity	up to 1500 m³/h
Head	up to 95 m
Speed	up to 2950 rpm
Operating Temperature	-10° C up to 110° C
Casing Pressure (Pmax)	10 bar (16 bar*)

(Pmax: Suction Pressure + Shut off Head)

(*) The material of pumps differ according to the type of pumped liquid, operating temperature and pressure. Contact our company for detailed information.

- 15 basic sizes covering wide range of operational area.
- Due to the back-pull-out design, the complete bearing assembly including impeller and shaft seal can be dismantled without removing the volute casing from the piping system.
- Suction and discharge flanges conforming to TS EN 1092 / PN10 (PN16*)
- All impellers are dynamically balanced according to ISO 1940 Class 6.3.
- Axial thrust is balanced by back balancing ribs.

Design Features

- Horizontal, radially split volute casing, single stage, end suction centrifugal pumps with enclosed or semi-open impeller.

Shaft Sealing

- Depending on the type of application different mechanical seals and soft packing is applicable.

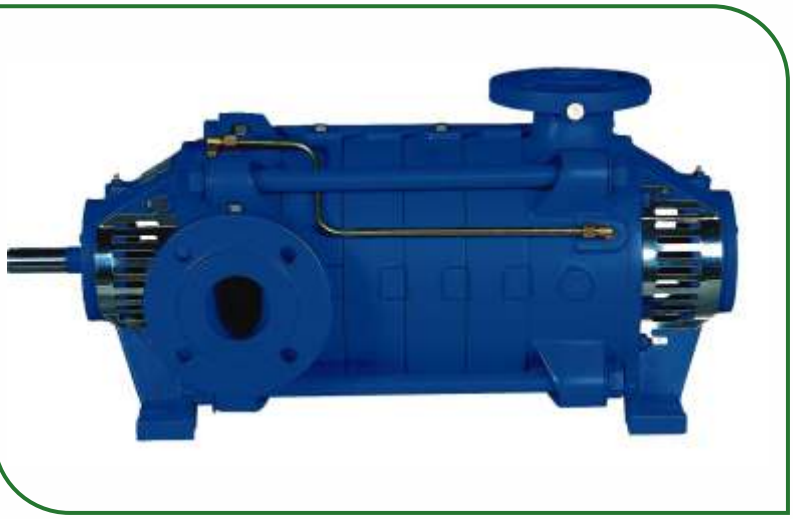
Pump Designation

PC V-M 250 - 315 XX

- **Pump Type**
- **Vertical Installation**
- **Discharge (DN in mm)**
- **Nominal Impeller Diameter (mm)**
- **Impeller Type**

SKM

MULTISTAGE CENTRIFUGAL PUMPS



Handled Liquids

SKM Type pumps are suitable for clean or slightly contaminated liquids with low viscosity.

Technical Data

Discharge Flange	DN 32 ... DN 250 mm
Capacity	up to 1000 m³/h
Head	up to 550 m
Speed	up to 2950 rpm
Operating Temperature	-10° C up to 110° C (140°C*)
Casing Pressure (Pmax)	30 bar (63 bar)*

(Pmax: Suction Pressure + Shut off Head)

(*) The material of pumps differ according to the type of pumped liquid, operating temperature and pressure. Contact our company for detailed information.

Design Features

- Horizontal ring section, multistage, centrifugal pumps with closed impellers and diffusers.
- 10 models from DN 32 to DN 250.
- Suction nozzle flanges are according to TS EN 1092 - 2 / PN 16 and discharge nozzle flanges are according to TS EN 1092 - 2 / PN 40 (PN 63)
- In standart production, suction flange is placed on the right side and close to the coupling while discharge flange is at the other end radially upwards. The position of the suction and discharge flanges can be turned in 90° increments if requested during order.
- Axial trust is minimized by rear wear ring / balance holes.
- All impellers are balanced statically and dynamically according to ISO 1940 class 6.3.

Shaft Sealing

- Soft packing is applied in standart production upto 110°C. Between 110°C and 140°C, soft packing sealing may also be applied together with the stuffing box cooling.
- Pumps with mechanical seal can also be manufactured upon request.

Pump Designation

SKM - K 100 / 6

- **Pump Type**
- **Heavy-duty Design**
- **Discharge Nozzle (DN-mm)**
- **Number of Stages**

SKM-E

MULTISTAGE CENTRIFUGAL PUMPS

Handled Liquids

SKM-E Type pumps are suitable for clean or slighlty contaminated liquids with low viscosity.

Technical Data

Discharge Flange — DN 40 ... DN 150 mm

Capacity — up to 400 m³/h

Head — up to 450 m

Speed — up to 2900 rpm

Operating Temperature — -10 °C up to 110 °C*

Casing Pressure (Pmax) – 30 bar (50 bar)*

(Pmax: Suction Pressure + Shut off Head)

(*) The material of pumps differ according to the type of pumped liquid, operating temperature and pressure. Contact our company for detailed information.

Design Features

- Horizontal, multistage, end suction centrifugal pumps with closed impellers and diffusers
- 7 models from DN 40 to DN 150.
- Suction nozzle flanges are according to TS EN 1092 - 2 / PN 16 and discharge nozzle flanges are according to TS EN 1092 - 2 / PN 40 (63).
- Axial thrust is balanced by back wear rings and balancing holes systems.
- All impellers are balanced statically and dynamically according to ISO 1940 class 6.3.

Shaft Sealing

- Sealing with soft packing or mechanical seal.

Pump Designation

SKM-E 100 / 6

Pump Type

Discharge Nozzle (DN-mm)

Number of Stages

SKMV-H

MULTISTAGE CENTRIFUGAL PUMPS

Handled Liquids

SKMV-H Type pumps are suitable for clean or slightly contaminated liquids with low viscosity.

Technical Data

Discharge Flange — DN 32 ... DN 150 mm

Capacity — up to 400 m³/h

Head — up to 450 m

Speed — up to 2900 rpm

Operating Temperature — -10 °C up to 120 °C*

Casing Pressure (Pmax) – 30 bar (50 bar)*

(Pmax: Suction Pressure + Shut off Head)

(*) The material of pumps differ according to the type of pumped liquid, operating temperature and pressure. Contact our company for detailed information.

Design Features

- Vertical, multistage centrifugal pumps with closed impellers and diffusers.
- 8 models from DN 32 to Dn 150.
- Suction flanges are according to TS EN 1092-2 / PN 16 and discharge flanges are TS EN 1092 - 2 / PN 40.
- Axial thrust is balanced by back wear ring and balancing holes in each impeller.
- Pump impellers are balanced statically and dynamically according to ISO 1940 class 6.3.
- Pump shaft is coupled with standard motor shaft by means of a flexible coupling.

Shaft Sealing

- Sealing with soft packing or mechanical seal.

Pump Designation

SKMV-H 100 / 6

Pump Type

Discharge Nozzle (DN-mm)

Number of Stages

C
SUBMERSIBLE SEWAGE AND WASTE WATER PUMPS

Handled Liquids

C type pumps are suitable for pumping industrial and domestic raw sewage, and waste water.

Technical Data

Discharge Flange ——— DN 50 ... DN 300 mm

Capacity ——— up to 1600 m/h

Head ——— up to 95 m

Speed ——— up to 2900 rpm

Operating Temperature — up to 40 °C*

Casing Pressure (Pmax) – 10 bar*

(Pmax: Suction Pressure + Shut off Head)

(*) The material of pumps differ according to the type of pumped liquid, operating temperature and pressure. Contact our company for detailed information.

- 15 basic sizes covering a wide range of operational area.
- Due to the back-pull-out design, the complete bearing assembly including impeller and shaft seal can be dismantled without removing the volute casing from the piping system.
- Suction and discharge flanges are according to TS EN 1092 - 2 / PN10.
- All impellers are balanced dynamically according to ISO 1940 class 6.3.
- Axial thrust is balanced by back balancing ribs.

Design Features

- Vertical, wide volute casing, single stage, end suction centrifugal pump with enclosed, semi-open or vortex types imepeller.

Shaft Sealing

- Depending on the operation conditions (liquid specifications, tempreture,etc.) different types of mechanical seals are used.

Pump Designation

C 100 - 240 B

Pump Type
Discharge Nozzle (DN-mm)
Nominal Impeller Diameter
Impeller Type

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