# Pumps

KLAUS UNION

## Quality and Know How, A Pump's Most Efficient Combination

Klaus Union is one of the leading manufactures of pumps and valves specially designed for the chemical industrial market. The professional production capability acquired over more than 50 years, a sophisticated and state-of-the art fabrication process provide an excellent basis for finding optimum solutions to any special problems: versatile response to any specific requirement imposed by the user.
Pump and valve units supplied by Klaus Union are of superior quality and come up to the highest standard. They contribute to appreciably enhance both performance and safety of your installation and, besides, they cut pollution to the benefit of environment and mankind.
Klaus Union: We set the standard for pumps.

## Quality Assurance

It is the policy of Klaus Union to achieve adequate quality assurance for the manufacture of all products to ensure they comply with contractual requirements. All subsuppliers are totally committed to assure and achieve the contractual requirements through vigorous implementation of the quality assurance program. All purchased material is repeatedly inspected for conformity on receipt and after assembly.
The quality assurance system established according to latest state-of-the art principles fully complies with the requirements specified in international codes and regulations.

A quality assurance system that has been verified and certified warrants that the requirements imposed by you are fully complied


TÜV CERT
ZERTIFIKAT
Die TÜV CERT-Zertifizierungsstelle der RWTÜV Anlagentechnik GmbH
bescheinigt gemäß
TÜV CERT-Verfahren, dass das Unternehmen
KLAUS UNION GMBH& CO. KG
44795 Bochum
21244 Buchholz
für den Geltungsbereich
Entwicklung, Konstruktion und Herstellung von Pumpen und Armaturen
ein Qualitätsmanagementsystem eingeführt hat und anwendet.
Durch ein Audit, Bericht-Nr. 03497/00
wurde der Nachweis erbracht, dass die Forderungen der
DIN EN ISO 9001 : 2000
erfüllt sind. Dieses Zertifikat ist gültig bis Februar 2005
Zertifikat-Registrier-Nr. QA 427
Das Unternehmen ist zertifiziert seit 1992
RWTÜV

Klaus Union is the holder of the following approval stamps:

- AD 2000 W0 / TRD 100
- AD 2000 HPO / DIN EN 729-2
- Inspection of a Production Facility for Pressure Vessels according to Directive 97/23 EC

## The Safety System – Perfectly Seals Aggressive, Explosive and Toxic Fluids

High safety demands are put on pumps delivering highly dangerous fluids. In addition to their normal application, the pumps must prove their safe and reliable operation even under adverse and extreme conditions, all by maintaining the perfectly sealed condition for a very long period of time.

Is this a stringent requirement? Pumps and valves manufactured and supplied by Klaus Union under the tradename *sealex* incorporate this safety.

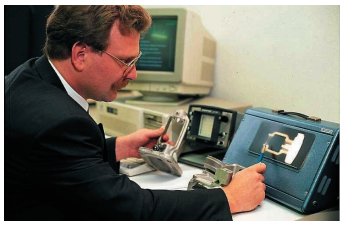
The pumps come without stuffing box, instead they are equipped with the permanent magnetic drive system thus ensuring leakage-free pumping of all fluids with their exceptional operational performance and reliability safely maintained.

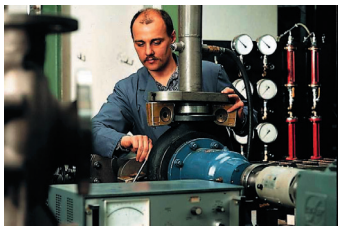
The *sealex* system eliminates the need for shaft passages since the motor torque is transmitted to the perfectly sealed volutes in the absence of any mechanical contact. This advanced tech-nology involves the central coupling where the permanent magnets with the same even number of poles are alternating thus ensuring a perfect rotational symmetry.

The concentric design of the coupling safely prevents any undesired radial and axial forces from acting on the mechanical bearings.

Adaption of the torque to any required operational mode is made by varying the system diameter and its height.

Full rotation of the coupling will not affect the condition of the magnets. After de-energizing the drive, synchronization of both coupling halves is restored automatically.

## *sealex* Engineered by Klaus Union Advanced Concept Operating Successfully in Installations – World-wide

Research and development work continually made by Klaus Union focussing at an advanced technology of environmental compatibility has resulted in a product range that warrants safe and reliable operation in compliance with virtually all and any requirements.

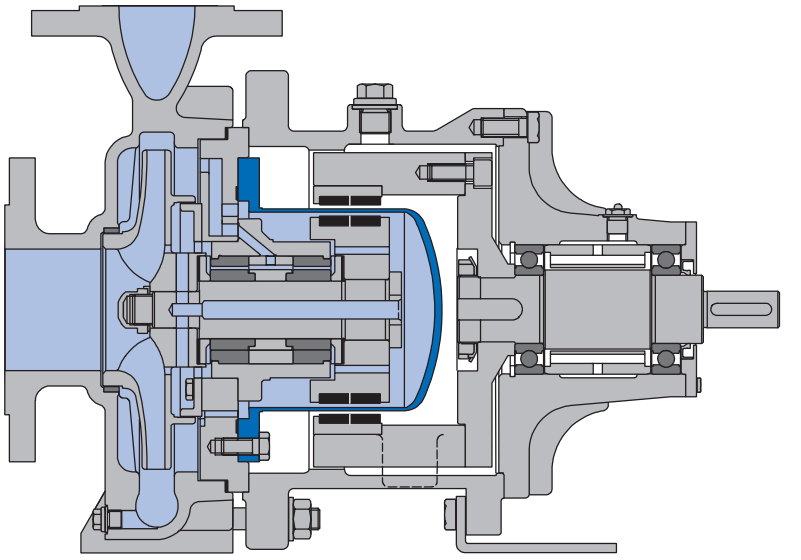
In addition to the products listed in this leaflet, Klaus Union can assist you in resolving any of your special problems. Contact us for any further particulars you may require.

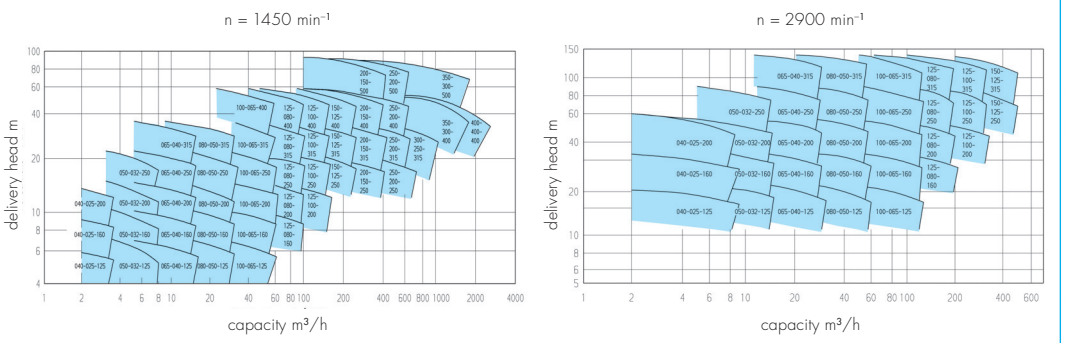
**Contents**

**SLM NV**

**Glandless centrifugal pump type SLM NV equipped with permanent magnet drive, DIN EN 22858 resp. special and complementary sizes included**

**The modular concept makes everything possible**






## Technical Data

Q up to 2500 m³/h
H up to 150 m.L.C.
t from –120 °Cup to +300 °C
p up to PN 16

Special constructions
up to PN 400
and up to +450 °C
higher capacities on demand

## Use

**Pumping**
acids
lyes
hydrocarbon
heat transfer liquids
liquid gas
aggressive, explosive and toxic liquids

**Domain**
Chemical and Petrochemical Industries
Refrigeration and Heat Engineering
Liquid Gas Plants
Galvanic Engineering
Power Stations
Tank Installations

## Construction

- horizontal centrifugal pump process type
- permanent magnet system *sealex,* no shaft duct
- separation of liquid chamber / atmosphere by means of an isolation shell
- transmission of force slipless by inner and outer magnetsystem
- slide bearing made of silicon carbide, lubricated with liquid, for absorption of radial and axial forces
- bearing of outer magnet system (outer magnet carrier): deep groove ball bearings

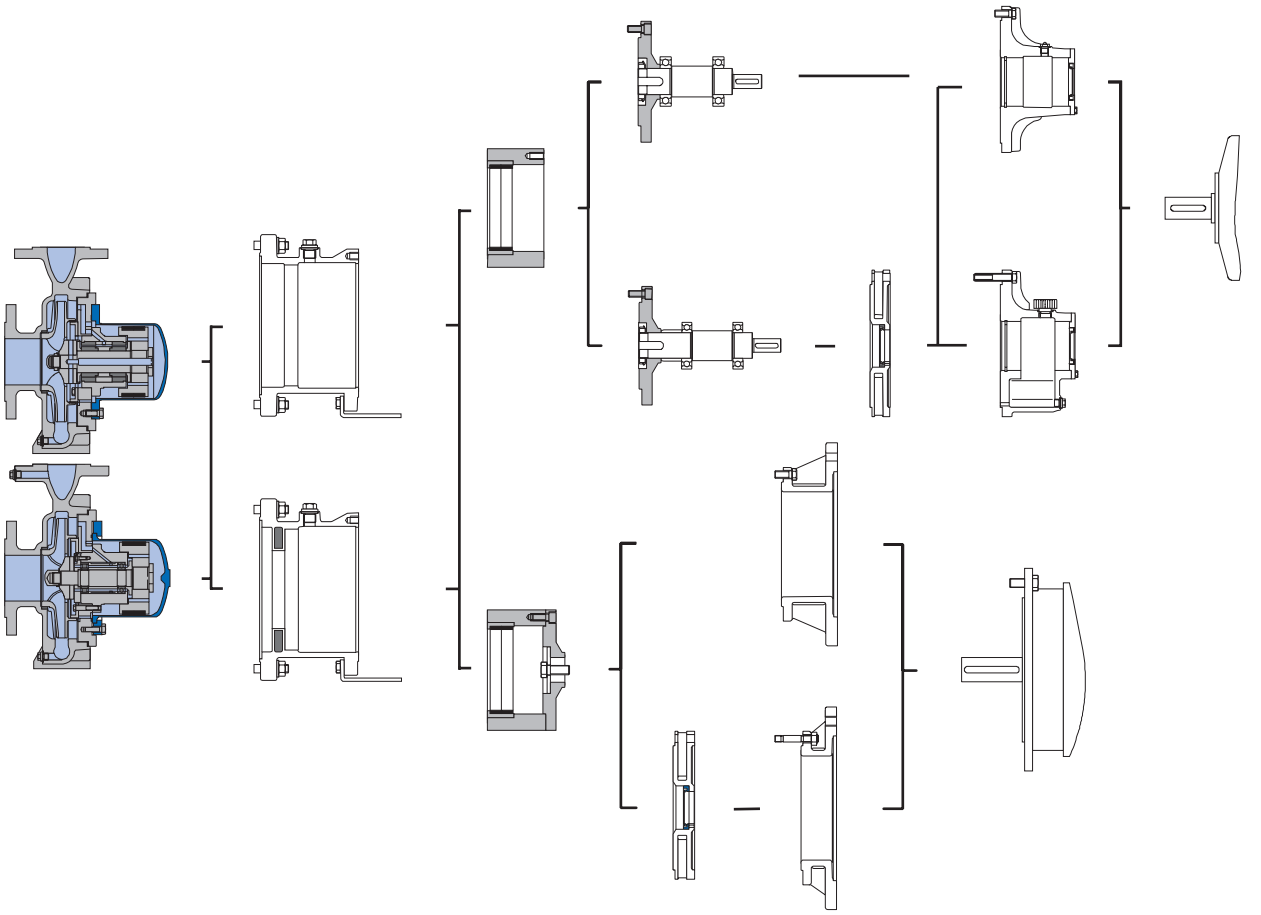
## Materials

**Standard Type of Construction**

| | |
|---|---|
| spiral casing: | 1.4408 |
| impeller: | 1.4408 |
| isolation shell: | 1.4571/2.4610 |
| inner magnet carrier: | 1.4571/2.4610 |
| slide bearing: | silicon carbide |
| bearing bracket: | 0.7043 |

**Special Alloy**
1.0619 GP240GH
1.4308 G-X6CrNi189
1.4361 G-X2CrNiSi1815
1.4539 G-X2NiCrMoCuN2520
2.4685 GNiMo28
2.4686 G-NiMo17Cr
3.7025 G-Ti

further material
on demand



## SLM NV

**The modular concept makes everything possible**

The modular system allows each customer to "put together" the pump that meets his particular special requirements.

To meet this need a wide range of modules and safety components are available. All parts have been developed and designed to coordinate with each other to provide maximum flexibility and the perfect solution to your particular pumping application.

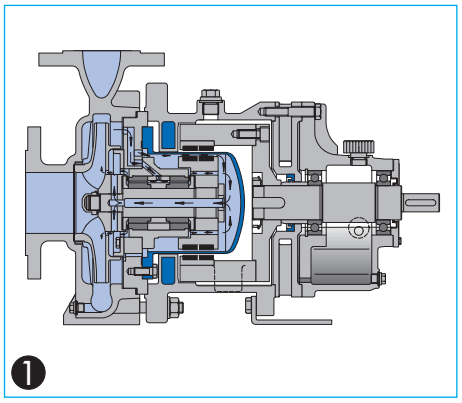
Grease or oil lubrication, close coupled, secondary sealing, thermal barrier, dry running capability, heating and cooling arrangements, centreline mounting and even pumps to ANSI and API standards.

**Rub Ring Protection**
In the event of journal bearing or ball bearing failure, the rub rings prevent immediate damage to the isolation shell from either the inside or outside. For the rub rings to be effective they must be used in conjunction with an input power monitoring arrangement on the drive motor. (LC Controller)

**Replacement of Anti-friction Bearings and Secondary Sealing without Draining of Pump**
By splitting the bearing bracket into bearing lantern and bearing support, wear parts (anti-friction bearings and radial lip seals) can be replaced without costly disassembly and drainage of the pump. The same applies to the replacement of the motor in case of a close coupled pump.

**Temperature Sensor**
The internal recirculation can be monitored by measuring the temperature of the isolation shell.

**Load Detector (LC)**
This monitors the shaft power and trips the pump if it detects under-load caused by cavitation, flow interruption or desynchronisation of the magnetic drive or overload due to mechanical contact of the rub rings.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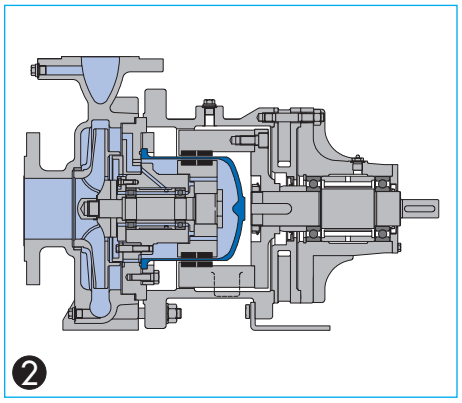
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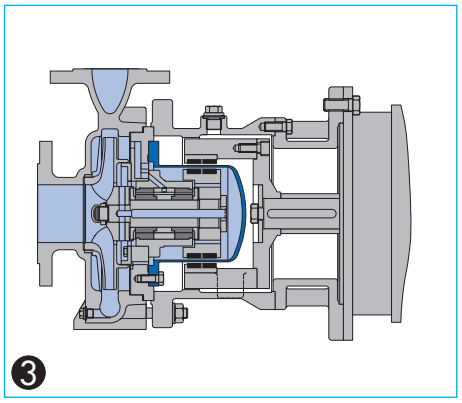
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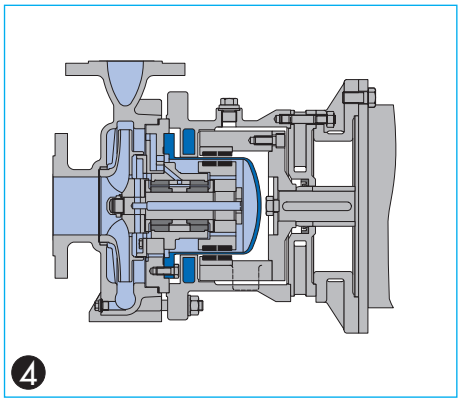
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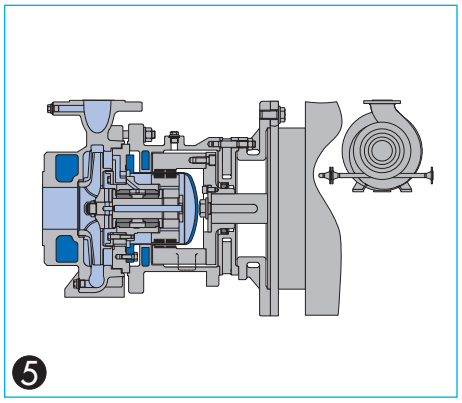
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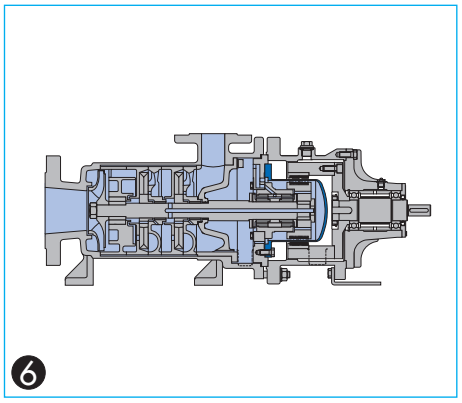
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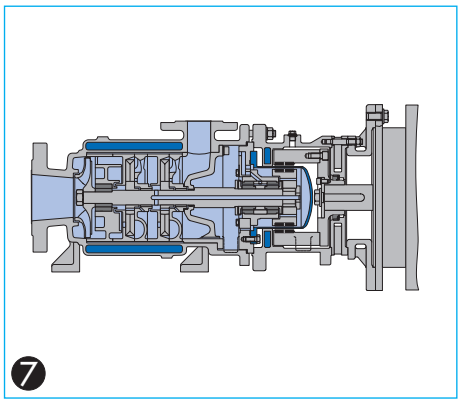
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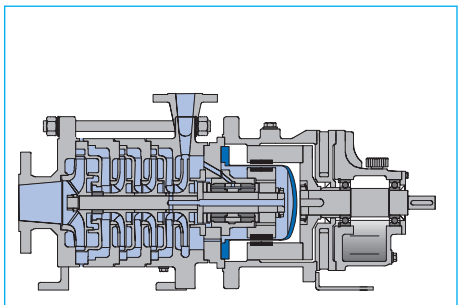
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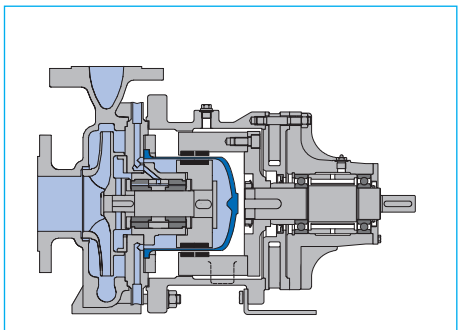

❾

**SLM NV**
**acc. to DIN EN 22858**
In the following is a selection out of many variations:

**❶ SLM NVO**
Oil lubrication · thermal barrier · secondary sealing · heated bearing lantern · from –120 °C up to +300 °C

**❷ SLM NVS**
dry running capability · grease lubrication · thermal barrier · secondary sealing

**❸ SLM NVB**
Basic design · close coupled · from –120 °C up to +160 °C

**❹ SLM NVB**
close coupled · heated bearing lantern · thermal barrier · secondary sealing · from –120 °C up to +250 °C

**❺ SLM NVB**
close coupled · fully heated · thermal barrier · secondary sealing

**❻ SLM SVS**
Side channel pump · process type · 1–8 stages · selfpriming · from –120 °C up to +250 °C

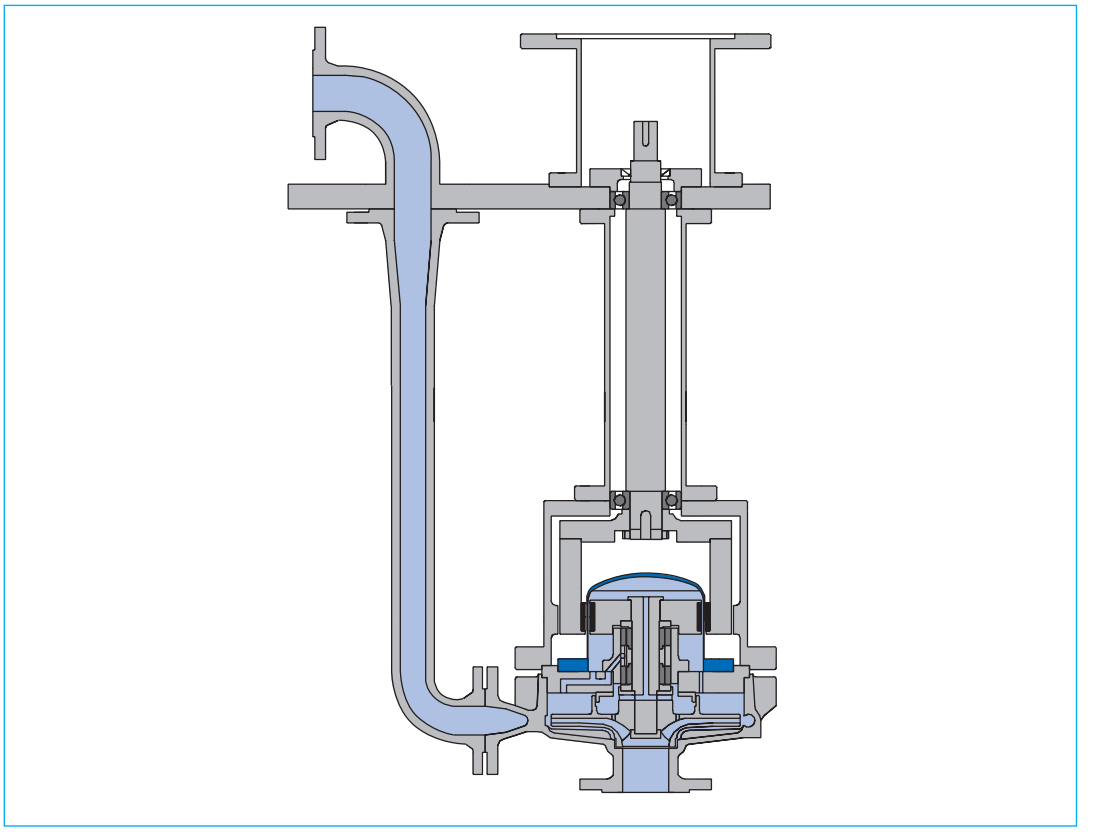
**❼ SLM SVB**
Side channel pump · close coupled · fully heated · thermal barrier · secondary sealing

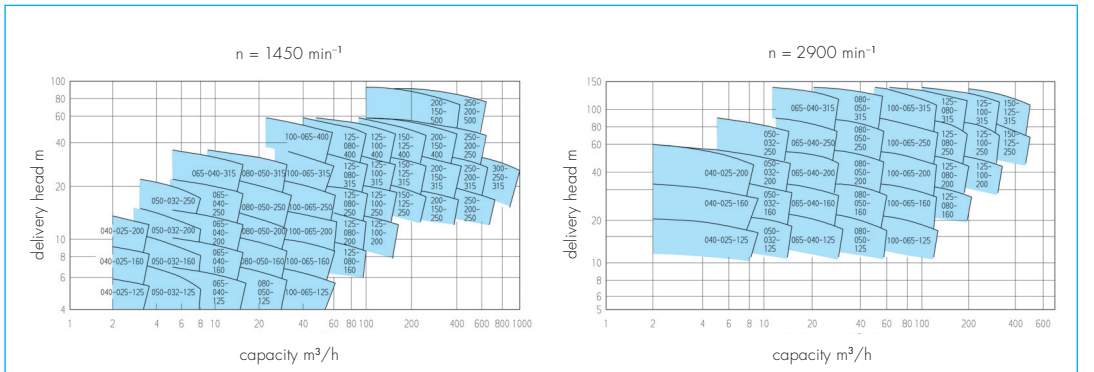
**❽ SLM GVO**
Multi-stage casing pump 1–6 stages · from –120 °C up to +300 °C

**❾ SLM NVN/OT**
no partial flow · suited for dry run · compatible with solid matters · secondary sealing –50 °C up to +200 °C

**SLM NVT**

**Glandless centrifugal pump type SLM NVT permanent magnet drive hydraulic acc. to DIN EN 22858 vertical construction**






## Technical Data

Q up to 1000 m³/h
H up to 150 m.L.C.
t from –50 °C up to +150 °C
p up to PN 16

Special constructions on demand

## Use

### Pumping

acids
lyes
hydrocarbon
heat transfer liquids
liquid gas
aggressive, explosive and toxic liquids

### Domain

Chemical and Petrochemical Industries
Refrigeration and Heat Engineering
Galvanic Engineering
Power Stations
Tank Installations

## Construction

- vertical centrifugal pump dry supporting tube
- permanent magnet system *sealex,* no shaft duct
- separation of liquid chamber / atmosphere by means of an isolation shell
- transmission of force slipless by inner and outer magnet system
- slide bearing radial and axial made of silicon carbide
- bearing of outer magnet system (outer magnet carrier): deep groove ball bearings

## Materials

### Standard Type of Construction

| | |
|---|---|
| spiral casing: | 1.4408 |
| impeller: | 1.4408 |
| isolation shell: | 1.4571/2.4610 |
| inner magnet carrier: | 1.4571/2.4610 |
| slide bearing: | silicon carbide |

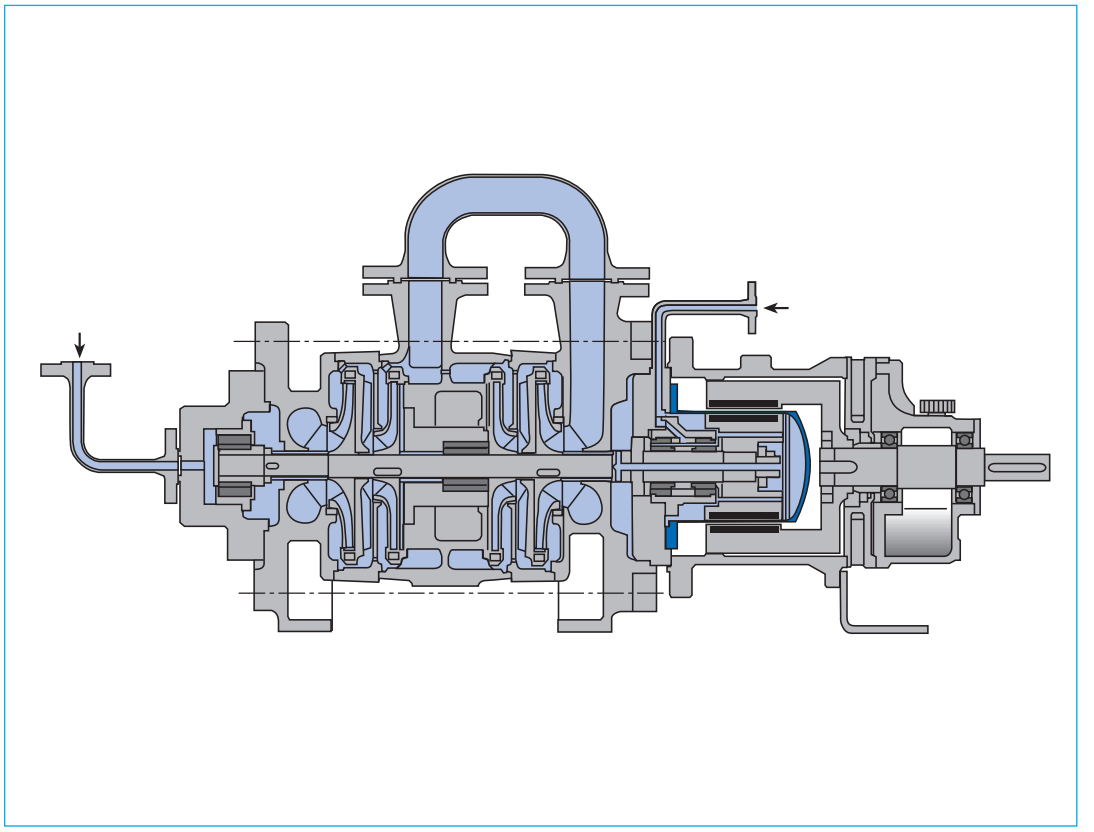
### Special Alloy

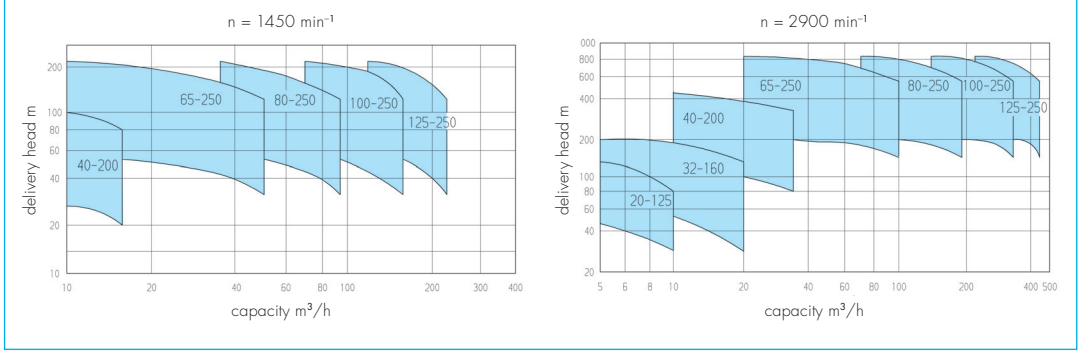
1.0619 GP240GH
1.4308 G-X6CrNi189
1.4361 G-X2CrNiSi1815
1.4539 G-X2NiCrMoCuN2520
2.4685 G-NiMo28
2.4686 G-NiMo17Cr
3.7025 G-Ti

further material on demand

**SLM HV**

**Glandless multi-stage casing pump type SLM HV equipped with permanent magnet drive**






## Technical Data

Q up to 450 m³/h
H up to 900 m.L.C.
t from -40 °C up to +180 °C
p up to PN 100

special constructions on demand

## Use

### Pumping

acids
lyes
hydrocarbon
hot water (boiler water)
sea water
fuels
fatty acids

### Domain

Chemical and Petrochemical Industries
Refineries
Liquid Gas Plants
Power Stations

## Construction

- horizontal multi-stage casing pump
- permanent magnet system *sealex,* no shaft duct
- separation of liquid chamber / atmosphere by means of an isolation shell
- transmission of force slipless by inner and outer magnet system
- slide bearing made of silicon carbide, lubricated with liquid, for absorption of radial and axial forces
- bearing of outer magnet system (outer magnet carrier): deep groove ball bearings
- impellers in pairs, back-to-back arrangement or in rows

## Materials

### Standard Type of Construction

| | |
|---|---|
| suction casing: | 1.4408 |
| pressure casing: | 1.4408 |
| multi-stage casing: | 1.4408 |
| impellers: | 1.4408 |
| isolation shell: | 1.4571/2.4610 |
| inner magnet carrier: | 1.4571/2.4610 |
| slide bearing: | silicon carbide |
| bearing bracket: | 0.7043 |

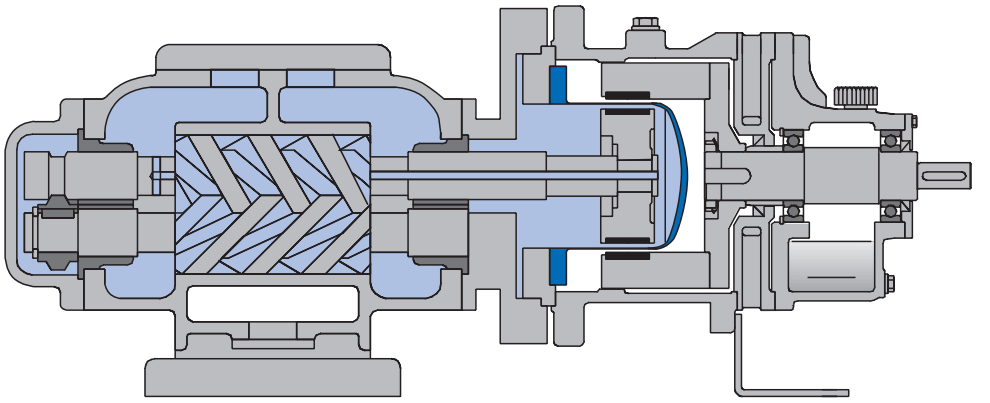
### Special Alloy

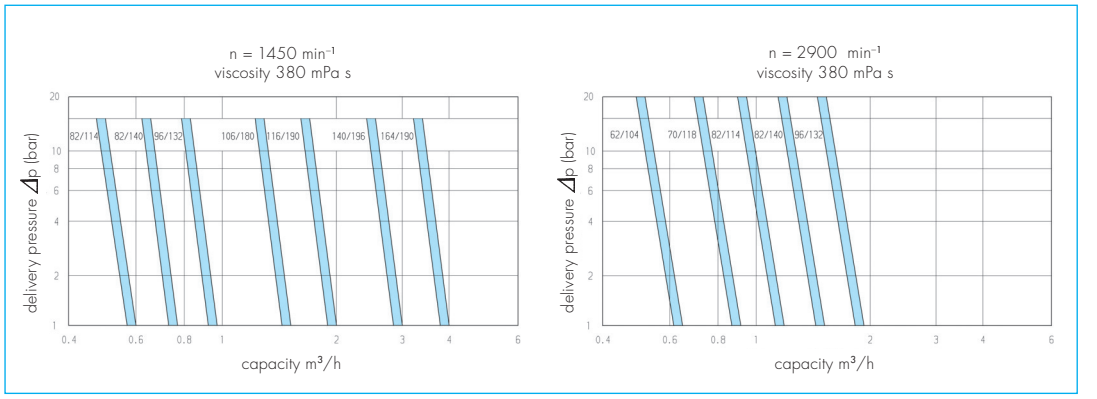
1.0619 GP240GH
1.4308 G-X6CrNi189
1.4361 G-X2CrNiSi1815
1.4539 G-X2NiCrMoCuN2520
2.4685 G-NiMo28
2.4686 G-NiMo17Cr
3.7025 G-Ti

further materials on demand

**SLM LV**

**Glandless screw pump type SLM LV equipped with permanent magnet drive**






## Technical Data

Q up to 4 m³/min
H up to 160 m.L.C.
t from – 10 °C up to +300 °C
Δp up to 16 bar

special constructions
on demand

## Use

**Pumping**
isocyanate
polycarbonate
oils and fats
manomere
polyester
resin
viscous liquids

**Domain**
Chemical and Petrochemical Industries
Synthetic and Rubber Industries
Mineral Oil Industry
Colour and Lacquer Industries

## Construction

- positive-displacement pump
- permanent magnet system *sealex,* no shaft duct
- transmission of force slipless by inner and outer magnet system
- slide bearing radial and axial
- bearing of outer magnet carrier: deep groove ball bearings, grease-lubricated
- two screw spindles, rotating towards each other
- spindles supported in exchangeable bearing bushes
- hydraulic compensation of axial force

## Materials

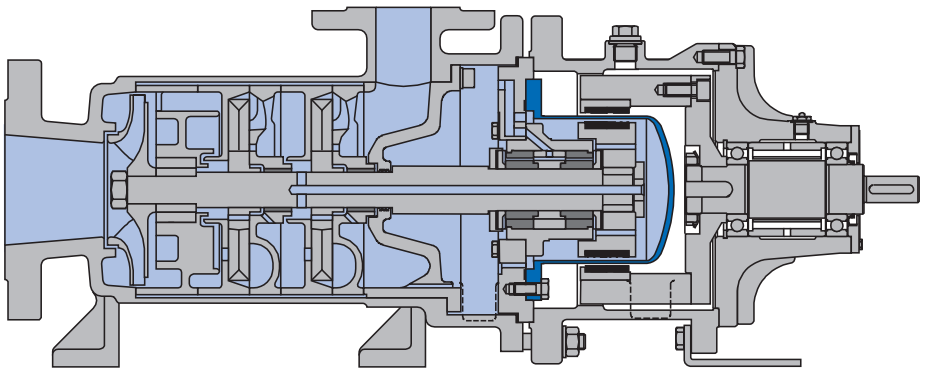
**Standard Type of Construction**

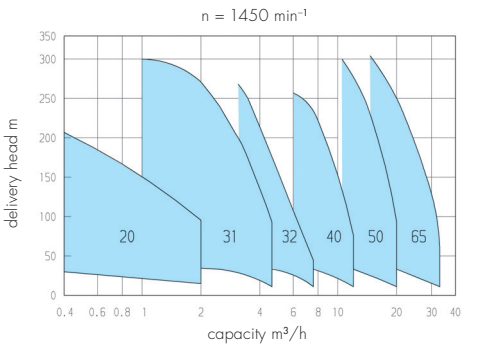
casing: 0.7043
spindle: nitration hardened
slide bearing: GG/GG, SiC/SiC
isolation shell: 1.4571/2.4610
inner magnet carrier: 1.4571/2.4610
bearing bracket: 0.7043

further materials on demand

## SLM SV

## Glandless side channel pump type SLM SV with magnetic coupling in process type design






### Technical Data

Q up to 35 m³/h
H up to 310 m.L.C.
t from –40 °C up to +250 °C
p up to PN 40

special constructions up to PN 400 on demand

### Use

**Pumping**
acids
lyes
hydrocarbon
solvents
liquid gas
oxidate
refrigerants

**Domain**
Chemical and Petrochemical Industries
Electrolysis
Refrigeration Engineering
Liquid Gas Plants
Galvanic Engineering
Tank Installations
Vacuum Technology
Extracting Plants

### Construction

- horizontal side channel pump, single or multi-stage, with NPSH pre-stage
- one pressure casing with a static sealing
- permanent magnet system *sealex* – no shaft duct
- separation of liquid chamber / atmosphere by means of an isolation shell
- transmission of force slipless by means of magnetic coupling
- slide bearing made of silicon carbide, lubricated with liquid, for absorption of radial and axial forces
- bearing of outer magnet system (outer magnet carrier): deep groove ball bearings
- self-priming, pumping liquids containing gas

### Materials

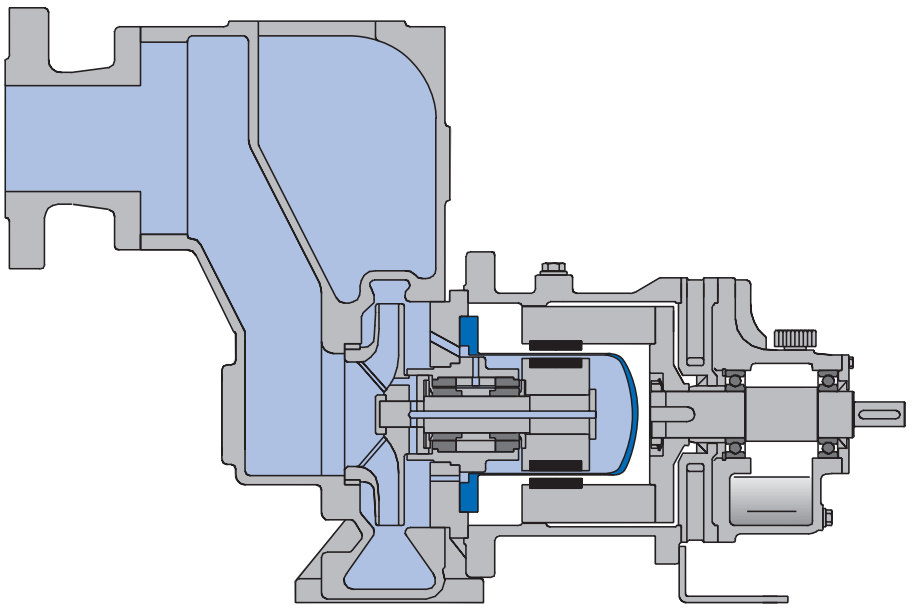
**Standard Type of Construction**

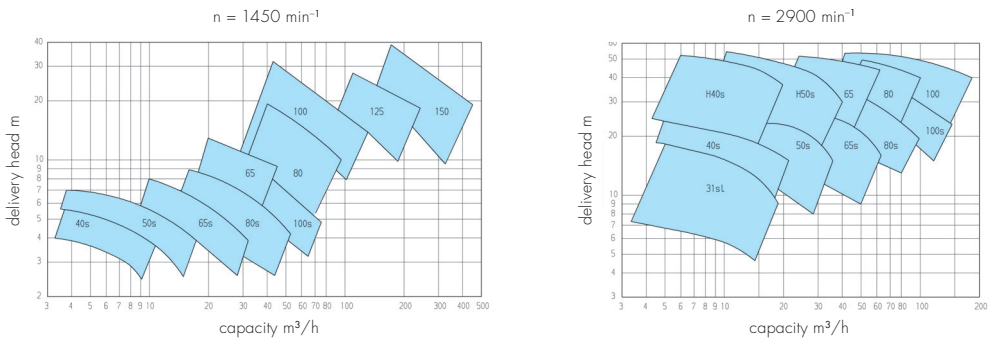
| | |
|---|---|
| hydraulic casing parts: | 1.4408 |
| pressure casing: | 1.4571/1.4408 |
| impellers: | 1.4581 |
| shaft: | 1.4571 |
| isolation shell: | 1.4571/2.4610 |
| inner magnet carrier: | 1.4571/2.4610 |
| bearing: | silicon carbide |
| bearing bracket: | 0.7043 |

Special materials on demand

## SLM DV

## Glandless centrifugal pump SLM DV with magnetic coupling (self-priming, pumping liquids containing gas)






### Technical Data

Q up to 450 m³/h
H up to 60 m.L.C.
t from –120 °C up to +300 °C
p up to PN 8

### Use

**Pumping**
acids
lyes
hydrocarbon
liquid gas
aggressive, explosive and toxic liquids

**Domain**
Chemical and Petrochemical Industries

### Construction

- horizontal pump, self-priming / pumping liquids containing gas
- permanent magnet system *sealex*, no shaft duct
- separation of liquid chamber / atmosphere by means of an isolation shell
- transmission of force slipless by inner and outer magnet system
- slide bearing made of silicon carbide as standard execution, lubricated with liquid, for absorption of radial and axial forces
- bearing of outer magnet system (outer magnet carrier): deep groove ball bearings

### Materials

**Standard Type of Construction**

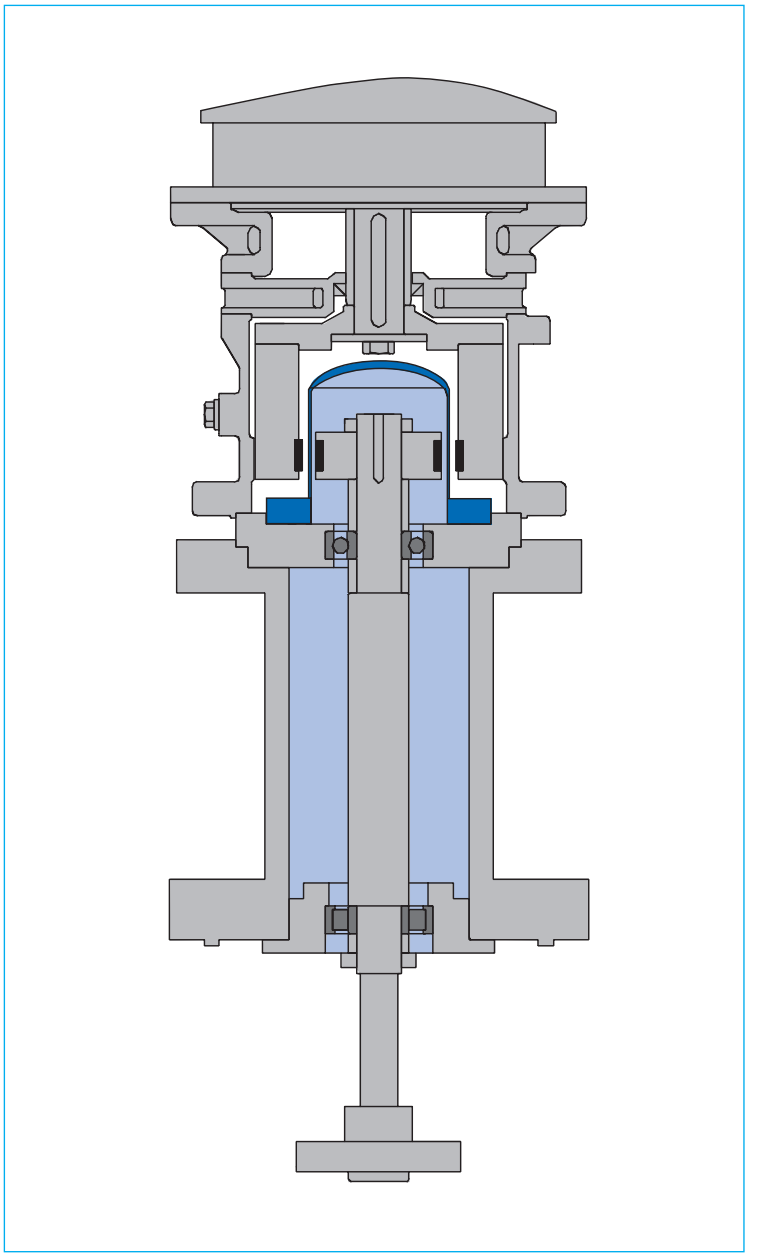
| | |
|---|---|
| spiral casing: | 1.4408 |
| impeller: | 1.4408 |
| isolation shell: | 1.4571/2.4610 |
| inner magnet carrier: | 1.4571/2.4610 |
| slide bearing: | silicon carbide |
| bearing bracket: | 0.7043 |

**Special Alloy**
0.7040
1.0416
1.4410
1.4538

further materials on demand

**SLM RA**

**Glandless agitator type SLM RA equipped with permanent magnet drive**



## Technical Data

Md up to 4500 Nm without gear reduction
t from –120 °C up to +450 °C
p up to PN 320

higher pressure rating on demand

## Use

**Mixing and Homogenizing of**
acids
lyes
hydrocarbon
liquid gas
suspensions
aggressive, explosive and toxic liquids

**Domain**
Chemical Industry
Pharmaceutic Industry
Grease and Soap Industries
Research
Textile Industry
Paper Industry
Process Manufacturing
Galvanic Industry

## Construction

- permanent magnet system *sealex,* no shaft duct
- separation of liquid chamber / atmosphere by means of an isolation shell
- transmission of force slipless by inner and outer magnet system
- bearing of inner magnet system (inner magnet carrier): roller bearings made of $Si_3N_4$ (silicon nitride) dry run up to 960 rpm
- alternative slide bearing made of silicon carbide or roller bearings in the liquid chamber
- bearing of outer magnet system (outer magnet carrier): deep groove ball bearings
- spezial constructions on demand

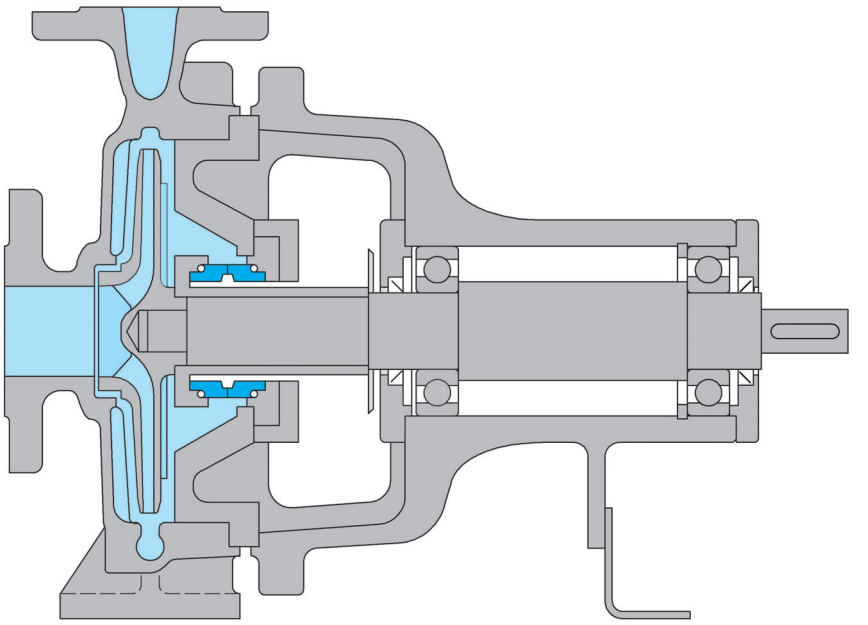
## Materials

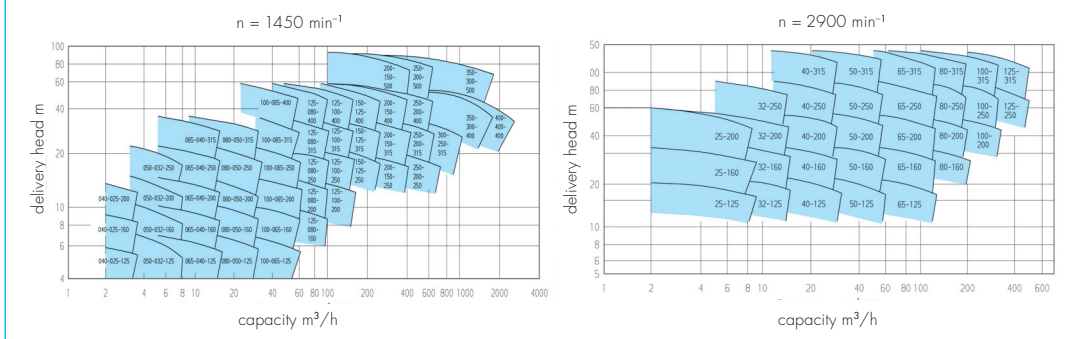
**Standard Type of Construction**
bearing lantern: 1.4571
inner magnet carrier shaft: 1.4571
isolation shell: 1.4571/2.4610
motor lantern: 1.0038
inner magnet carrier: 1.4571/2.4610

further materials on demand

**NO**

# Horizontal single-stage centrifugal pump DIN EN 22858






## Technical Data

Q up to 2500 m³/h
H up to 150 m.L.C.
t from –40 °C up to +300 °C
p up to PN 16

special constructions
up to PN 400
higher capacities on demand

## Use

**Pumping**
acids
lyes
hydrocarbon
ammonium sulphate
pulp
sewage
colouring matters
salt solutions
desalted water
caprolactam

**Domain**
Chemical and Petrochemical Industries
Paper and Cellulose Plants
Power Stations
Evaporation Plants
Ore Dressing
Refineries
Sugar Industry

## Construction

- horizontal centrifugal pump
- shaft supported in roller bearings, oil or grease lubricated
- shaft sealing: packing or mechanical seal
- mechanical seal single or double type, or tandem arrangement

## Materials

**Standard Type of Construction**

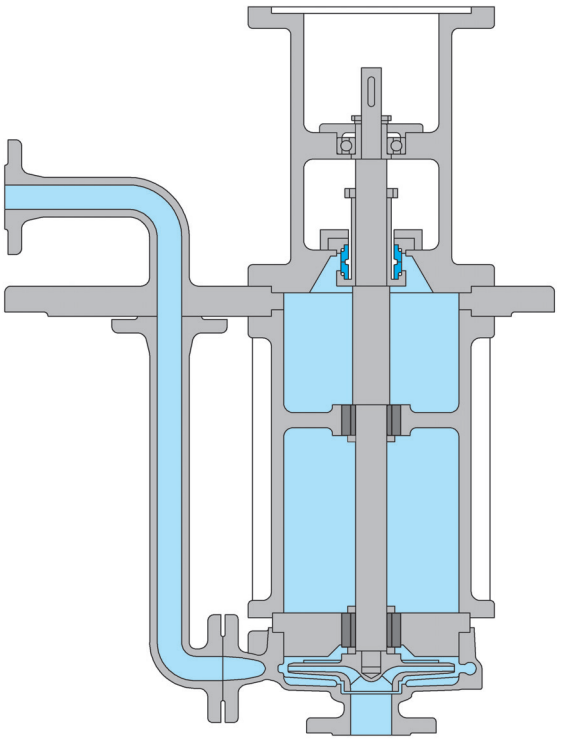
| | |
|---|---|
| spiral casing: | 1.4408 |
| impeller: | 1.4408 |
| casing cover: | 1.4571 |
| shaft: | 1.1191 |
| shaft sleeve: | 1.4571 |
| bearing bracket: | 0.6025 |

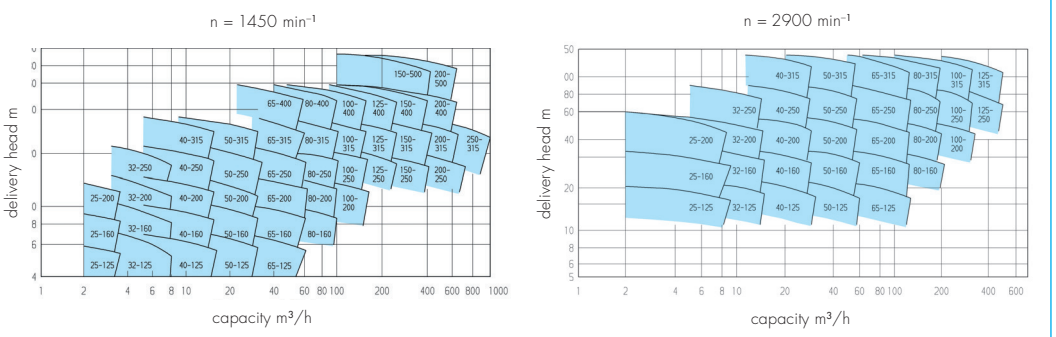
**Special Alloy**
1.0619 GP240GH
1.4308 G-X6CrNi189
1.4361 G-X2CrNiSi1815
1.4539 G-X2NiCrMoCuN2520
2.4685 G-NiMo28
2.4686 G-NiMo17Cr
3.7025 G-Ti

rubber coated lining and further materials on demand

**TP**

# Vertical centrifugal pump type TP, hydraulic acc. to DIN EN 22858 special and complementary sizes






## Technical Data

Q up to 1000 m³/h
H up to 150 m.L.C.
t from –100 °C up to +300 °C
p up to PN 16

special constructions on demand

## Use

### Pumping
acids
lyes
sewage
aggressive liquids
solid suspensions
cellulose
salt fuse

### Domain
Chemical and Petrochemical Industries
Paper and Cellulose Plants
Power Stations
Sewage Technics
Irrigation Plants and Drainage Works
Tank Installations

## Construction

- vertical, single-stage centrifugal pump
- impeller closed or open type with wear plate
- impeller hydraulically balanced
- shaft supported in radial SiC bearings
- grease-lubricated roller bearings in the lantern section
- separated pressure piping up to supporting flange
- shaft sealing by means of packing or mechanical seal

## Materials

### Standard Type of Construction

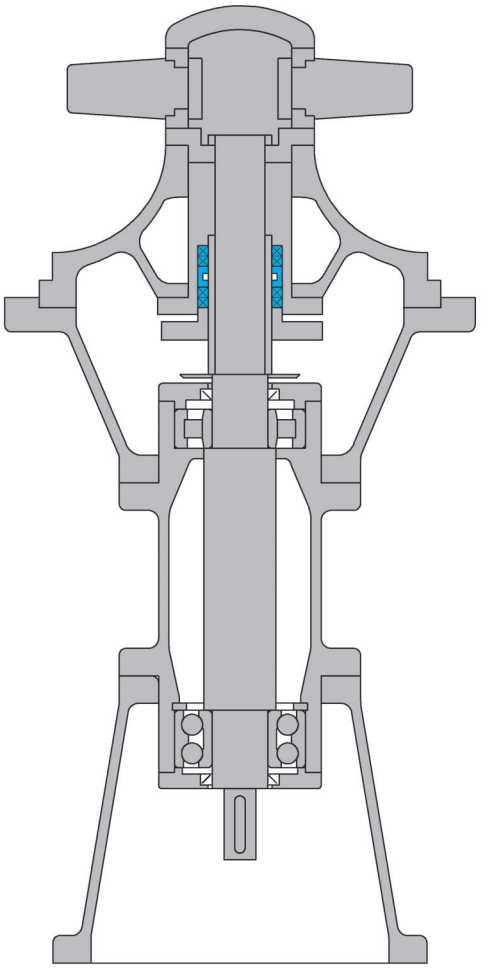
| | |
|---|---|
| spiral casing: | 1.4408 |
| impeller: | 1.4408 |
| shaft: | 1.4571 |
| shaft sleeve: | 1.4571 |
| slide bearing: | silicon carbide |
| bearing lantern: | 1.0038 |
| shaft sealing: | depending on liquid |

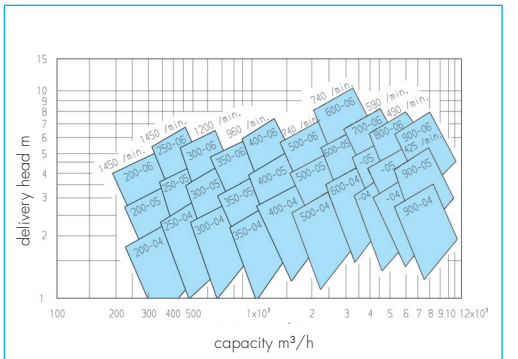
### Special Alloy
1.0619 GP240GH
1.4308 G-X6CrNi189
1.4361 G-X2CrNiSi1815
1.4539 G-X2NiCrMoCuN2520
2.4685 G-NiMo28
2.4686 G-NiMo17Cr
3.7025 G-Ti

further materials on demand

## UP

## Propeller pump, vertical construction






### Technical Data

Q up to 18000 m³/h
H up to 6 m.L.C.
t from –50 °C up to +400 °C
p up to PN 10

special constructions on demand

### Use

**Pumping**
acids
lyes
paper and cellulose pulp
brine
heat transfer liquids

**Domain**
Chemical and Petrochemical Industries
Paper and Cellulose Industries
Evaporation Plants
Ore Dressing
Synthetic Fertilizer Plants

### Construction

- vertical propeller pump for installation into tanks
- cast or welding construction
- adjustable propeller blades screwed with hub
- bearing bracket equipped with integrated tank flange
- shaft bearing: grease-lubricated roller bearing
- shaft sealing: gland or mechanical seal
- pumping direction variable by adjusting propeller blades

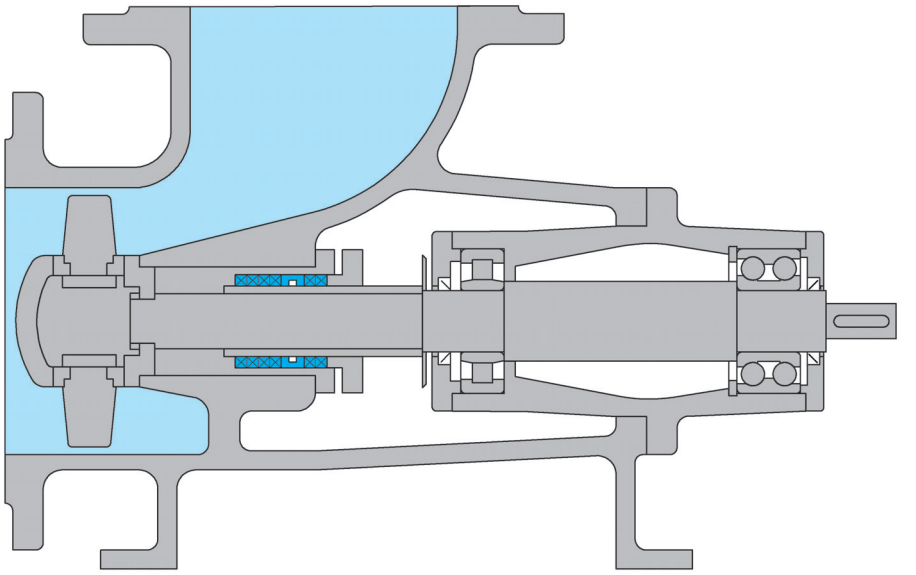
### Materials

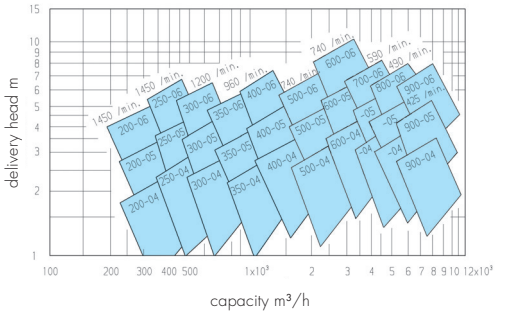
0.6025 GG-25
0.7043 GGG-40.03
1.0619 GP240GH
1.4308 G-X6CrNi189
1.4361 G-X2CrNiSi1815
1.4408 G-X10CrNiMo1810
1.4539 G-X2NiCrMoCuN2520
2.4685 G-NiMo28
2.4686 G-NiMo17Cr
3.7025 G-Ti

further materials on demand

**P**

# Horizontal pipe bend propeller pump






## Technical Data

Q up to 12000 m³/h
H up to 8 m.L.C.
t from –100 °C up to +160 °C
p up to PN 10

**Special Constructions**
Q up to 20000 m³/h
H up to 28 m.L.C.
t up to 500 °C
p up to PN 100
on demand

## Use

**Pumping**
acids
lyes
paper and cellulose mash
brine (evaporation plants)
synthetic fertilizer (liquid)
sea water
cooling water
sewage
colours

**Domain**
Chemical and Petrochemical Industries
Paper and Cellulose Industries
Evaporation Plants
Ore Dressing
Synthetic Fertilizer Industry
Refineries
Cooling Water Installations
Installations for Sea Water Treatment

## Construction

- horizontal propeller pump
- casing in pipe bend, cast or welding construction
- adjustable propeller blades screwed with hub
- shaft bearing: grease-lubricated roller bearings
- shaft sealing: gland or mechanical seal
- change of pumping direction
- special type of construction: **PV:** propeller blades continuously adjustable during operation **PK:** propeller cap can completely be dismantled without disassembly of casing
- pumping direction variable by adjusting propeller blades

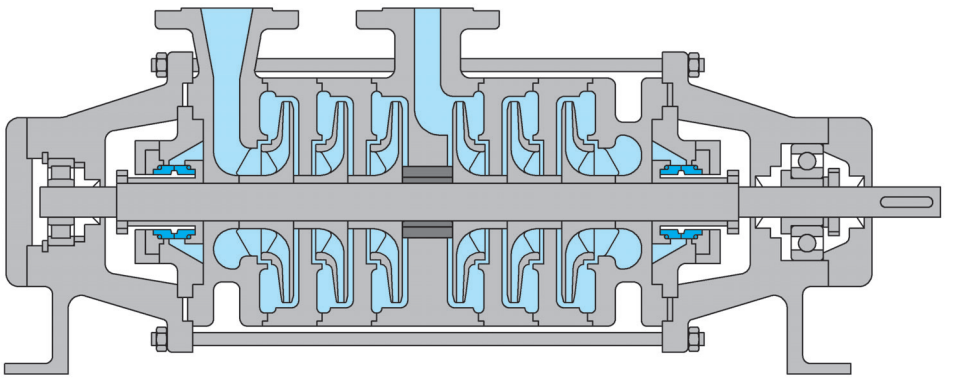
## Materials

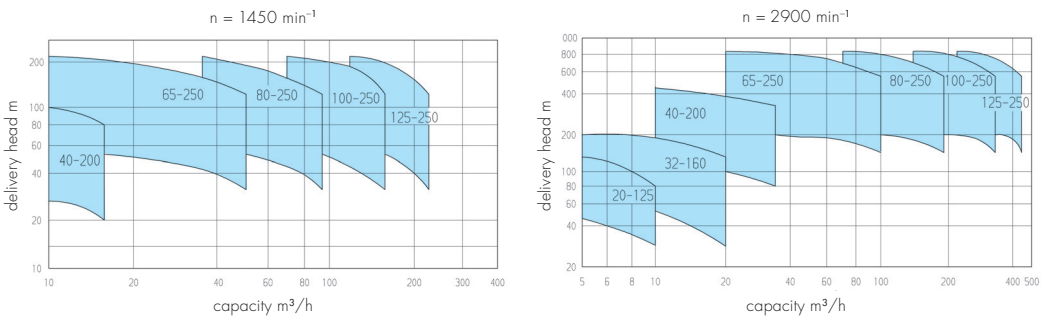
0.6025 GG-25
0.7043 GGG-40.03
1.0619 GP240GH
1.4308 G-X6CrNi189
1.4361 G-X2CrNiSi1815
1.4539 G-X2NiCrMoCuN2520
2.4685 G-NiMo28
2.4686 G-NiMo17Cr
3.7025 G-Ti

further materials on demand

**H**

# Horizontal multi-stage casing pump






## Technical Data

Q up to 450 m³/h
H up to 900 m.L.C.
t from –40 °C up to +180 °C
p up to PN 100

special constructions on demand

## Use

**Pumping**
acids
lyes
hydrocarbon
liquid gas
hot water (boiler water)
sea water
fuels

**Domain**
Chemical and Petrochemical Industries
Liquid Gas Plants
Power Stations
Refineries

## Construction

- horizontal multi-stage casing pump
- impellers in pairs, arrangement back-to-back or in rows
- shaft bearing: roller bearings outside the casing
- shaft sealing: packing or mechanical seal

## Materials

**Standard Type of Construction**

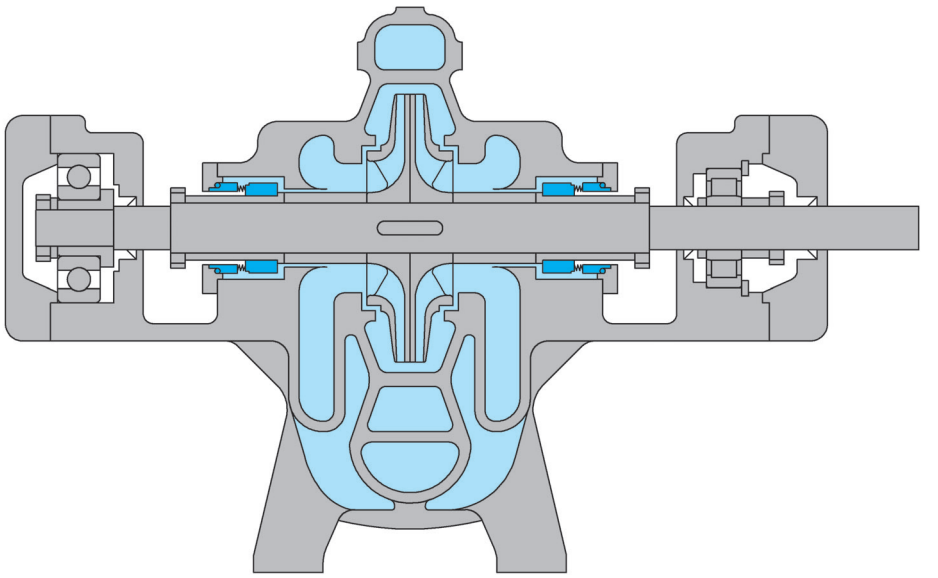
| | |
|---|---|
| suction casing: | 1.4408 |
| pressure casing: | 1.4408 |
| multi-stage casing: | 1.4408 |
| impeller: | 1.4408 |
| bearing bracket: | 0.7043 |

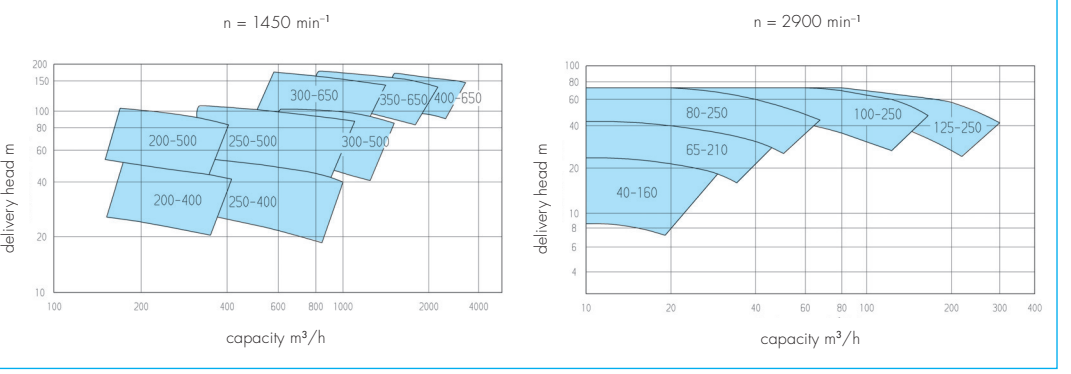
**Special Alloy**
1.0619 GP240GH
1.4308 G-X6CrNi189
1.4361 G-X2CrNiSi1815
1.4539 G-X2NiCrMoCuN2520
2.4685 G-NiMo28
2.4686 G-NiMo17Cr
3.7025 G-Ti

further materials on demand

## NZ

## Horizontal centrifugal pump double flux






### Technical Data

Q up to 4000 m³/h
H up to160 m.L.C.
t from –20 °C up to + 300 °C
p up to PN 25

special constructions on demand

### Use

**Pumping**
acids
lyes
cooling water
sea water
brine
sewage

**Domain**
Industrial Sections
Cooling Water Pumps
Drainage Pumps
Sea Water Treatment Plants
Circulating Plants

### Construction

- horizontal centrifugal pump casing separated in the centerline
- suction and discharge nozzle in bottom part
- shaft bearing: roller bearings outside the casing
- shaft sealing: mechanical seal or gland

### Materials

0.6025 GG-25
0.7043 GGG-40.3
1.4308 G-X6CrNi189
1.4361 G-X2CrNiSi1815
1.4408 G-X6CrNiMo1810
1.4539 G-X2NiCrMoCuN2520
2.4685 G-NiMo28
2.4686 G-NiMo17Cr
3.7025 G-Ti

further materials on demand

## Production Programme Pumps

**SLM-Pumps with magnet drives**

Chemical centrifugal pumps acc. to DIN EN 22858

Chemical centrifugal pumps in close coupled design

Multistage casing pumps

Side channel pumps

Vertical centrifugal pumps

Submerged pumps

Self-priming spiral casing pumps

Screw pumps

Special designs

SLM agitator drives

**Pumps**

Chemical centrifugal pumps acc. DIN EN 22858

Multistage casing pumps

Horizontal and vertical propeller pumps

Bottom flange propeller pumps

Vertical centrifugal pumps (Nobox system)

Submerged pumps

Double-suction chemical pumps

Special designs

## Production Programme Valves

Globe valves with stuffing box

Globe valves bellow sealed

Check valves

Gate valves

Swing check valves

Strainers

Sight glasses

Bottom valves

Relief valves

Control valves

High pressure valves

Valves for cryogenics

**Valves with electric or pneumatic drive**

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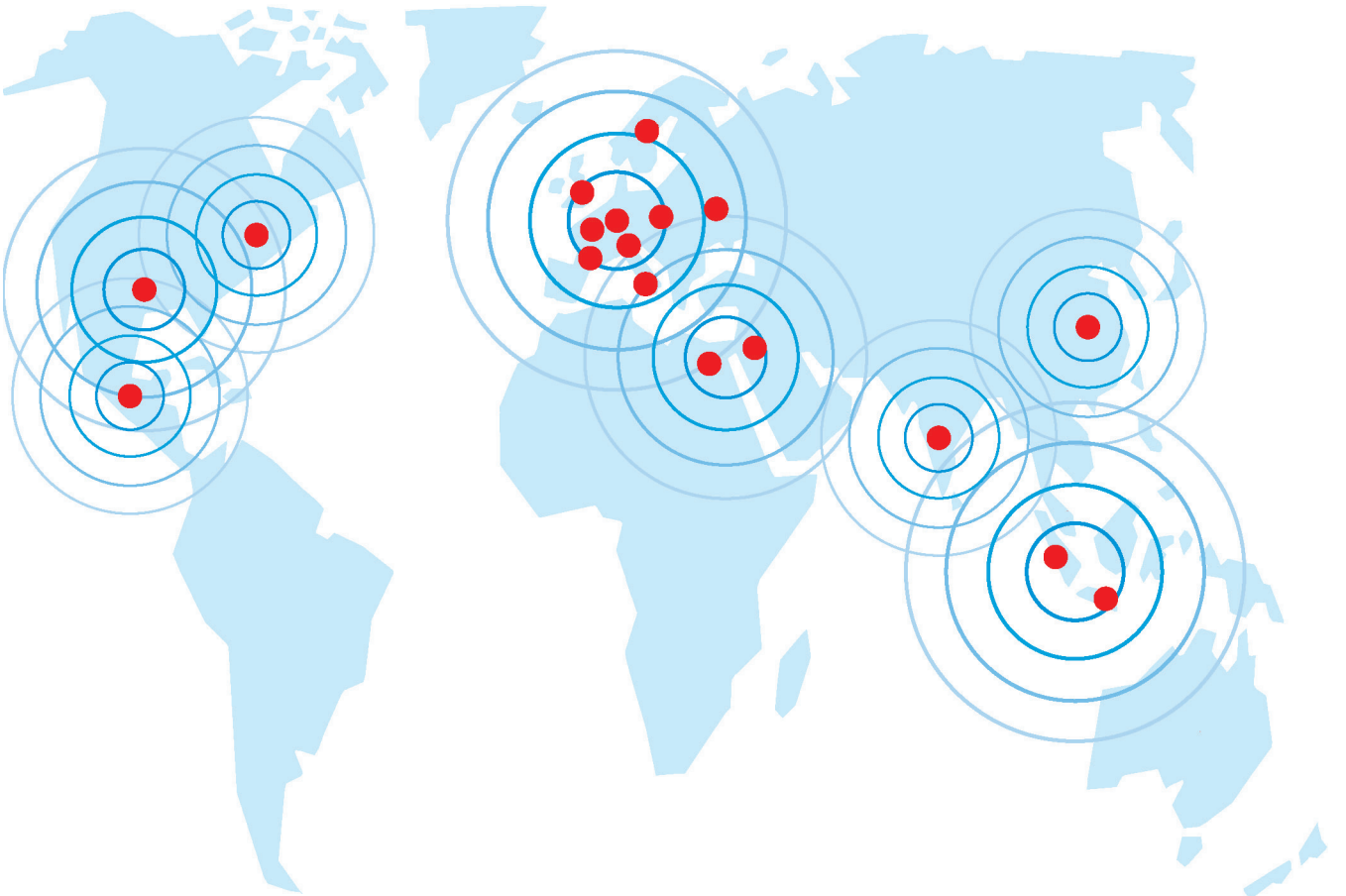

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Subject to alterations 03.2003.101 e