

PETROCHEMICAL REFRIGERATION

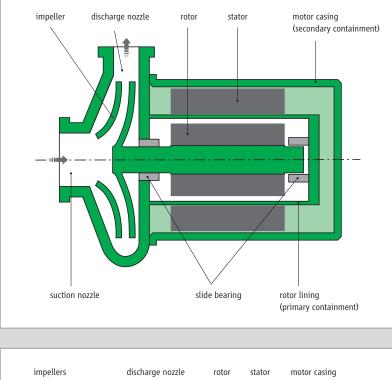
ENERGY

Product overview HERMETIC-Pumpen GmbH

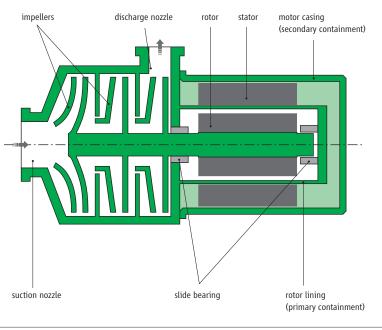


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DISPLACEMENT PUMPS	Internal gear pumps
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SCHEMATIC DIAGRAM OF CANNED MOTOR PUMPS





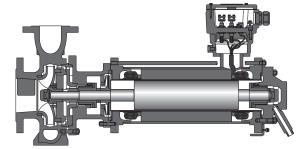


multistage canned motor pump

Туре СМ	Chemical Petrochemical Refrigeration Ene
	 Normal-suction design Dimensions and performance curves in accordance with EN 22858; ISO 2858 Explosion protection as per EC-type examination certificate according to directives 94/9/EG ATEX II 2 G EEx de II C T1 to T6 / II 2 G ck II C Tx Capacity: max. 1600 m³/h

capacity	1110101 2000 111 /11
Head:	max. 220 m
Rotating speed:	1450 to 3500 rpm
Operating temperature:	–120 °C to +360 °C
Viscosity:	max. 300 mm ² /s
Pressure ratings:	PN 16 and PN 25

Type CNF

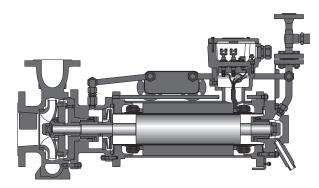


Chemical | Petrochemical | Refrigeration | Energy

- Normal-suction design
- Liquefied gas design
- Dimensions and performance curves in accordance with EN 22858; ISO 2858
- Explosion protection as per EC-type examination certificate according to directives 94/9/EG ATEX II 2 G EEx de II C T1 to T6 / II 2 G ck II C Tx

Capacity:	max. 1600 m ³ /h
Head:	max. 220 m
Rotating speed:	1450 to 3500 rpm
Operating temperature:	–120 °C to +360 °C
Viscosity:	max. 300 mm ² /s
Pressure ratings:	PN 16 and PN 25

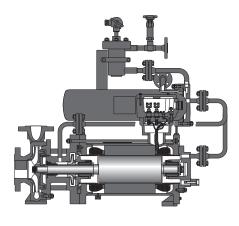
Туре СМКр



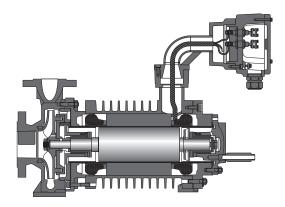
- Normal-suction design
- High-temperature design with plate heat exchanger
- Dimensions and performance curves in accordance with EN 22858; ISO 2858
- Explosion protection as per EC-type examination certificate according to directives 94/9/EG ATEX II 2 G EEx de II C T1 to T6 / II 2 G ck II C Tx

. 1600 m³/h
. 220 m
0 to 3500 rpm
. +400 °C
. 300 mm²/s
L6 and PN 25

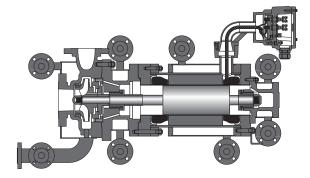
Type CNKr



Type CN and CNF



Type CN and CNF



Chemical | Petrochemical | Refrigeration | Energy

- Normal-suction design
- High-temperature design with tubular cooler
- Dimensions and performance curves in accordance with EN 22858; ISO 2858
- Explosion protection as per EC-type examination certificate according to directives 94/9/EG ATEX II 2 G EEx de II C T1 to T6 / II 2 G ck II C Tx

Capacity:	max. 1600 m³/h
Head:	max. 220 m
Rotating speed:	1450 to 3500 rpm
Operating temperature:	max. +400 °C
Viscosity:	max. 300 mm ² /s
Pressure ratings:	PN 16 and PN 25

Chemical | Petrochemical | Refrigeration | Energy

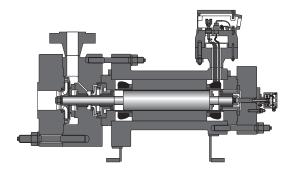
- Normal-suction design
- High-temperature design without external cooler
- Dimensions and performance curves in accordance with EN 22858; ISO 2858
- Explosion protection as per EC-type examination certificate according to directives 94/9/EG ATEX II 2 G EEx de II C T1 to T3 / II 2 G ck II C Tx

Capacity:	max. 300 m ³ /h
Head:	max. 220 m
Rotating speed:	1450 to 3500 rpm
Operating temperature:	–120 °C to +360 °C
Viscosity:	max. 300 mm ² /s
Pressure ratings:	PN 16 and PN 25

- Normal-suction design
- For liquids with completely high melting point in heatable design
- Dimensions and performance curves in accordance with EN 22858; ISO 2858
- Explosion protection as per EC-type examination certificate according to directives 94/9/EG ATEX I 2 G EEx de II C T1 to T3 / I I 2 G ck II C Tx

Capacity:	max. 300 m ³ /h
Head:	max. 220 m
Rotating speed:	1450 to 3500 rpm
Operating temperature:	max. +360 °C
Viscosity:	max. 300 mm ² /s
Pressure ratings:	PN 16 and PN 25

Type CNH and CNKH

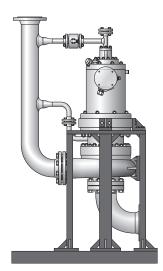


Chemical | Petrochemical | Refrigeration | Energy

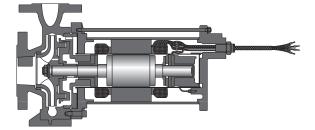
- Normal-suction design
- Design for high system pressures
- Explosion protection as per EC-type examination certificate according to directives 94/9/EG ATEX II 2 G EEx de II C T1 to T6 / II 2 G ck II C Tx

Capacity:	max. 180 m³/h
Head:	max. 220 m
Rotating speed:	1450 to 3500 rpm
Operating temperature:	–120 °C to +360 °C
Viscosity:	max. 300 mm ² /s
Pressure ratings:	up to PN 1200

Type CNFV



Type CNF



- Normal-suction design
- Design for pressure gases / liquefied gases
- In vertical installation
- Dimensions and performance curves in accordance with EN 22858; ISO 2858
- Explosion protection as per EC-type examination certificate according to directives 94/9/EG ATEX II 2 G EEx de II C T1 to T6 / II 2 G ck II C Tx

Capacity:	max. 180 m³/h
Head:	max. 220 m
Rotating speed:	1450 to 3500 rpm
Operating temperature:	–120 °C to +360 °C
Viscosity:	max. 300 mm ² /s
Pressure ratings:	up to PN 1200

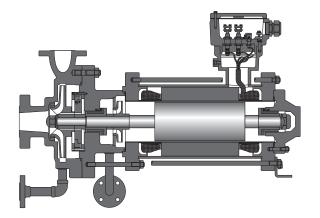
Chemical Petrochemical	Refrigeration	Energy
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- Normal-suction design
- Refrigeration industry design
- Liquefied gas design
- Dimensions and performance curves in accordance with EN 22858; ISO 2858

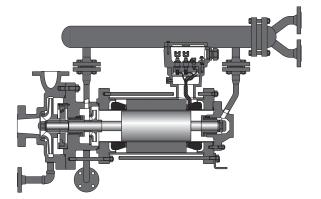
max. 80 m ³ /h
max. 70 m
2800 to 3500 rpm
–50 °C to +30 °C
max. 20 mm ² /s
PN 25 and PN 40

Type CNP acc. to API 685	Chemical Petrochem	ical Refrigeration Energy
	 Normal-suction design Single suction Centerline-mounted Process design Completely designed at Explosion protection as certificate according to EEx de II C T1 to T6 / S Capacity: Head: Rotating speed: Operating temperature: Viscosity: Pressure rating: 	per EC-type examination directives 94/9/EG ATEX 🐵 II 2 G

Type CNPF acc. to API 685



Type CNPKf acc. to API 685



- Normal-suction design
- Liquefied gas design
- Single suction
- Centerline-mounted
- Process design
- Completely designed according to the API 685
- Explosion protection as per EC-type examination certificate according to directives 94/9/EG ATEX 🐼 II 2 G EEx de II C T1 to T6 / 🐼 II 2 G ck II C Tx

Capacity:	max. 1200 m ³ /h	
Head:	max. 240 m	
Rotating speed:	1450 to 3500 rpm	
Operating temperature:	–120 °C to +360 °C	
Viscosity:	max. 300 mm ² /s	
Pressure rating:	PN 50	

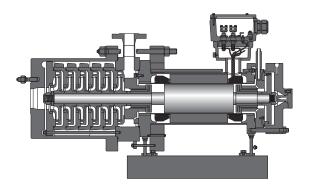
- Chemical | Petrochemical | Refrigeration | Energy
- Normal-suction design
- High-temperature design with tubular cooler
- Single suction
- Centerline-mounted
- Process design
- Completely designed according to the API 685
- Explosion protection as per EC-type examination certificate according to directives 94/9/EG ATEX 🐼 II 2 G EEx de II C T1 to T6 / 🐼 II 2 G ck II C Tx

Capacity:	max. 1200 m³/h
Head:	max. 240 m
Rotating speed:	1450 to 3500 rpm
Operating temperature:	–120 °C to +425 °C
Viscosity:	max. 300 mm ² /s
Pressure rating:	PN 50

Туре САМ	Chemical Petrochem	nical Refrigeration Energy
		s per EC-type examination o directives 94/9/EG ATEX 🐼 II 2 G
	EEx de II C T1 to T6 / 🐼	
	Capacity:	max. 350 m³/h
	Head:	max. 1100 m
	Rotating speed:	2900 to 3500 rpm
	Operating temperature:	–120 °C to +100 °C
	Viscosity:	max. 300 mm ² /s

PN 16 to PN 100

Type CAMT



Chemical | Petrochemical | Refrigeration | Energy

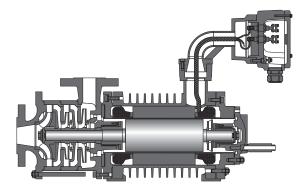
Normal-suction design

Pressure ratings:

- With pressure barrel for high system pressures
- Explosion protection as per EC-type examination certificate according to directives 94/9/EG ATEX II 2 G EEx de II C T1 to T6 / II 2 G ck II C Tx

Capacity:	max. 350 m ³ /h	
Head:	max. 1100 m	
Rotating speed:	2900 to 3500 rpm	
Operating temperature:	–120 °C to +100 °C	
Viscosity:	max. 300 mm ² /s	
Pressure ratings:	up to PN 500	

Туре САМ



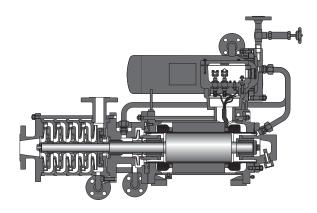
Chemical | Petrochemical | Refrigeration | Energy

- Normal-suction design
- High-temperature design without external cooling
- Explosion protection as per EC-type examination certificate according to directives 94/9/EG ATEX Il 2 G

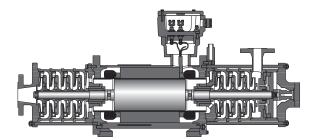
EEx de II C T1 to T3 / 🐼 II 2 G ck II C Tx

Capacity:	max. 350 m ³ /h	
Head:	max. 1100 m	
Rotating speed:	2900 to 3500 rpm	
Operating temperature:	: −100 °C to +360 °C	
Viscosity:	max. 300 mm ² /s	
Pressure ratings:	PN 16 to PN 100	

Type CAMKr



Type CAM-Tandem



Chemical | Petrochemical | Refrigeration | Energy

- Normal-suction design
- High-temperature design with tubular cooler
- Explosion protection as per EC-type examination certificate according to directives 94/9/EG ATEX I 2 G
- EEx de II C T1 to T6 / 🐼 II 2 G ck II C Tx

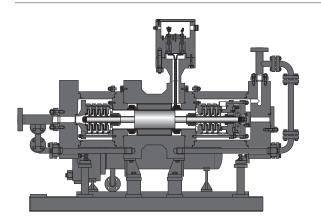
Capacity:	max. 350 m³/h
Head:	max. 1100 m
Rotating speed:	2900 to 3500 rpm
Operating temperature:	max. +400 °C
Viscosity:	max. 300 mm ² /s
Pressure ratings:	PN 16 to PN 100

Chemical | Petrochemical | Refrigeration | Energy

- Normal-suction design
- Tandem design
- Explosion protection as per EC-type examination certificate according to directives 94/9/EG ATEX II 2 G EEx de II C T1 to T6 / II 2 G ck II C Tx

Capacity:	max. 350 m³/h	
Head:	max. 1200 m	
Rotating speed:	2900 to 3500 rpm	
Operating temperature:	–120 °C to +100 °C	
Viscosity:	max. 300 mm ² /s	
Pressure ratings:	PN 16 to PN 100	

Type CAMH-Tandem



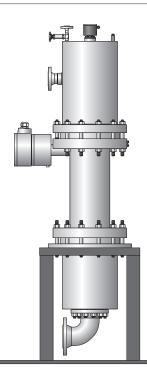
- Normal-suction design
- Tandem design
- With pressure barrel for high system pressures
- Explosion protection as per EC-type examination certificate according to directives 94/9/EG ATEX H 2 G EEx de II C T1 to T6 / H 2 G ck II C Tx

Capacity:	max. 350 m ³ /h	
Head:	max. 1200 m	
Rotating speed:	2900 to 3500 rpm	
Operating temperature:	–120 °C to +100 °C	
Viscosity:	max. 300 mm ² /s	
Pressure ratings:	up to PN 500	

CANNED MOTOR PUMPS MULTISTAGE DESIGN

Туре САМТV	Chemical Petrocher	mical Refrigeration Energy
	 Design for pressure ga In vertical installation Explosion protection a 	ases / liquefied gases s per EC-type examination o directives 94/9/EG ATEX

Type CAMTV-Tandem

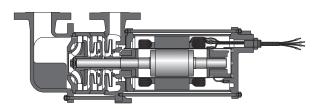


- Normal-suction design
- Tandem design
- Design for pressure gases / liquefied gases
- In vertical installation
- Explosion protection as per EC-type examination certificate according to directives 94/9/EG ATEX II 2 G EEx de II C T1 to T6 / II 2 G ck II C Tx

Capacity:	max. 350 m ³ /h	
Head:	max. 1200 m	
Rotating speed:	2900 to 3500 rpm	
Operating temperature:	-120 °C to +100 °C	
Viscosity:	max. 300 mm ² /s	
Pressure ratings:	PN 16 to PN 100	

Туре САМ	Chemical Petrochem	nical Refrigeration Energy
	Normal-suction design	1
	Refrigeration industry	Refrigeration industry design
	🗲 Capacity:	max. 40 m³/h
	Head:	max. 180 m
	Rotating speed:	2800 to 3500 rpm
	Operating temperature:	–50 °C to +30 °C
	Viscosity:	max. 20 mm ² /s
	Pressure ratings:	PN 25 and PN 40

Type CAMR



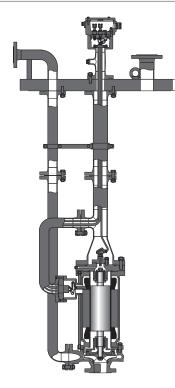
Chemical | Petrochemical | Refrigeration | Energy

Normal-suction design

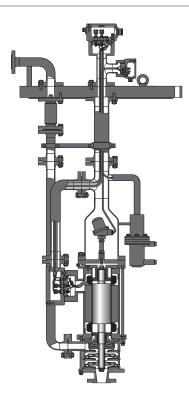
Refrigeration industry design		
Capacity:	max. 12,5 m³/h	
Head:	max. 100 m	
Rotating speed:	2800 to 3500 rpm	
Operating temperature:	–50 °C to +30 °C	
Viscosity:	max. 20 mm ² /s	
Pressure ratings:	PN 25 and PN 40	

CANNED MOTOR PUMPS SUBMERSIBLE DESIGN

Type TCN



Туре ТСАМ



Chemical Petrochem	ical Refrigeration	l Energy
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Single-stage

- Normal-suction design
- Explosion protection as per EC-type examination certificate according to directives 94/9/EG ATEX Il 2 G EEx de II C T1 to T6 / Il 2 G ck II C Tx

Capacity:	max. 1600 m³/h
Head:	max. 150 m
Rotating speed:	1450 to 3500 rpm
Operating temperature:	max. +250 °C
Viscosity:	max. 300 mm ² /s
Pressure ratings:	PN 16 to PN 100

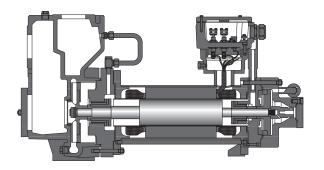
Chemical	Petrochemical	Refrigeration	l Energy
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- Multistage
- Normal-suction design
- Explosion protection as per EC-type examination certificate according to directives 94/9/EG ATEX II 2 G EEx de II C T1 to T6 / II 2 G ck II C Tx

max. 350 m³/h
max. 1200 m
1450 to 3500 rpm
max. +250 °C
max. 300 mm ² /s
PN 16 to PN 100

CANNED MOTOR PUMPS SELF-PRIMING DESIGN

Type CS



Chemical Petrochemic	l Refrigeration	l Energy
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Single-stage

Pressure ratings:

Self-priming design

 Explosion protection as per EC-type examination certificate according to directives 94/9/EG ATEX I 2 G

EEx de II C T1 to T6 / 🐼 II 2 G ck II C Tx

Capacity:	m
Head:	m
Rotating speed:	29
Operating temperature:	-3
Viscosity:	m
Pressure rating:	PN

max. 100 m³/h max. 85 m 2900 rpm -30 °C to +90 °C max. 75 mm²/s PN 10

Type CS 32

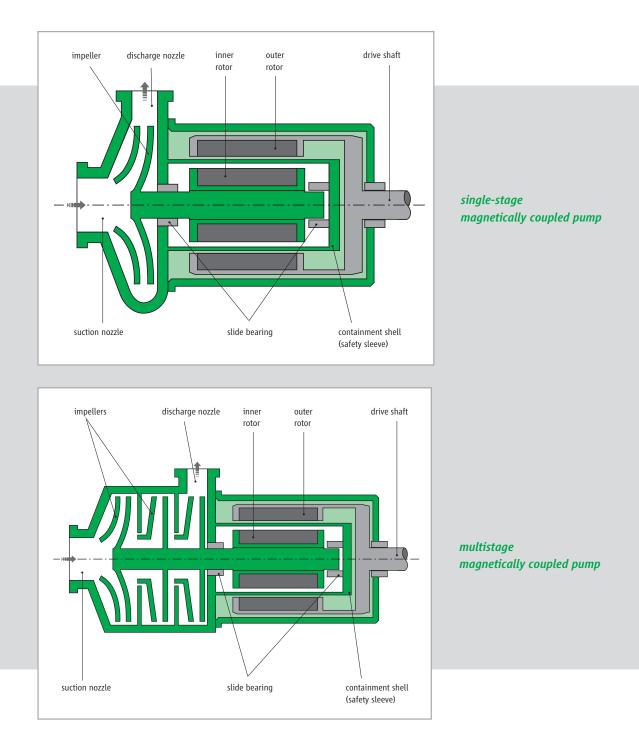
 Multista Self-prir Explosio certificar EEx de II Capacity: Head: Rotating spot operating Viscosity:

Chemical	Petrochemical	Т	Refrigeration	Т	Energy
 Multistage Self-priming design Explosion protection as per EC-type examination certificate according to directives 94/9/EG ATEX II 2 G EEx de II C T1 to T6 / II 2 G ck II C Tx 					
Capacity:	ma	ax. 2	20 m³/h		
Head:	ma	ax. 1	L10 m		
Rotating spee	d: 14	50	rpm		
Operating temperature: $-40 \degree C$ to $+240 \degree C$					

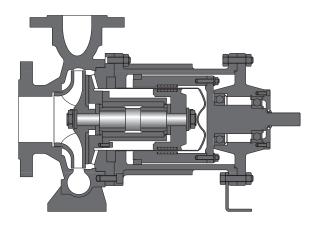
max. 75 mm²/s

PN 16 to PN 40

SCHEMATIC DIAGRAM OF MAGNETICALLY COUPLED PUMPS



Туре МСМ

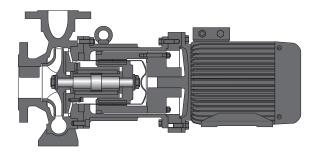


Chemical | Petrochemical | Refrigeration | Energy

- Normal-suction design
- Dimensions and performance curves in accordance with EN 22858; ISO 2858

max. 700 m³/h
max. 220 m
1450 to 3500 rpm
max. +220 °C
max. 100 mm ² /s
PN 16 and PN 25

Type MCN close-coupled

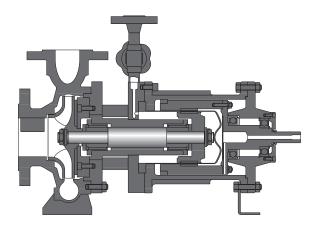


Chemical | Petrochemical | Refrigeration | Energy

- Normal-suction design
- Close-coupled design
- Dimensions and performance curves in accordance with EN 22858; ISO 2858

Capacity:	max. 220 m ³ /h
Head:	max. 220 m
Rotating speed:	1450 to 3500 rpm
Operating temperature:	max. +140 °C
Viscosity:	max. 100 mm ² /s
Pressure ratings:	PN 16 and PN 25

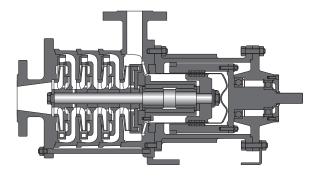
Туре МСКК



- Normal-suction design
- High-temperature design
- With external cooling
- Dimensions and performance curves in accordance with EN 22858; ISO 2858

Capacity:	max. 700 m³/h
Head:	max. 220 m
Rotating speed:	1450 to 3500 rpm
Operating temperature:	max. +360 °C
Viscosity:	max. 100 mm ² /s
Pressure ratings:	PN 16 and PN 25

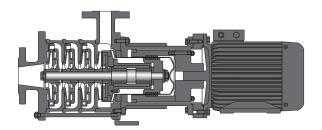
Туре МСАМ



Chemical | Petrochemical | Refrigeration | Energy

Normal-suction design	
Capacity:	max. 45 m³/h
Head:	max. 270 m
Rotating speed:	2900 to 3500 rpm
Operating temperature:	max. +220 °C
Viscosity:	max. 100 mm ² /s
Pressure ratings:	PN 16 and PN 25

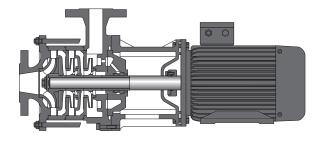
Type MCAM close-coupled



Normal-suction design	
Close-coupled design	
Capacity:	max. 45 m ³ /h
Head:	max. 270 m
Rotating speed:	2900 to 3500 rpm
Operating temperature:	max. +140 °C
Viscosity:	max. 100 mm ² /s
Pressure ratings:	PN 16 and PN 25

Type HKL Chemical | Petrochemical | Refrigeration | Energy Single- and multistage Normal-suction design Bearing bracket design Shaft seal by stuffing box packing or mechanical seal Capacity: max. 45 m³/h Head: max. 270 m Rotating speed: 2900 to 3500 rpm Operating temperature: max. +350 °C Viscosity: max. 300 mm²/s

Туре НК



Chemical | Petrochemical | Refrigeration | Energy

PN 16 and PN 25

Single- and multistage

Pressure ratings:

- Normal-suction design
- Close-coupled design
- Shaft seal by stuffing box packing or mechanical seal
 Capacity: max. 45 m³/h
 Head: max. 270 m
 Rotating speed: 2900 to 3500 rpm
 Operating temperature: max. +350 °C
 Viscosity: max. 300 mm²/s
 Pressure ratings: PN 16 and PN 25

Type VHK



- Single- and multistage
- Normal-suction design
- In vertical installation
- Close-coupled design
- Shaft seal by stuffing box packing or mechanical seal

Capacity:	max. 45 m³/h
Head:	max. 270 m
Rotating speed:	2900 to 3500 rpm
Operating temperature:	max. +350 °C
Viscosity:	max. 300 mm ² /s
Pressure ratings:	PN 16 and PN 25

The most part of HERMETIC pumps are designed according to explosion protection requirements. The pumps comply with the requirements of the electrical as well as mechanical explosion protection.

Level monitoring

On condition that the rotor cavity as part of the process system is steadily filled with liquid, no explosive atmosphere may arise. In this case, no accepted explosion protection is required for the rotor cavity. If the operator is not able to guarantee for a steady filling, it is necessary to install level monitoring devices.

Temperature monitoring

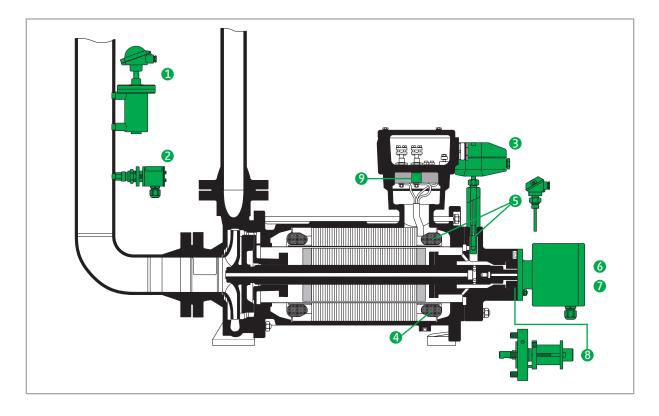
The observance of the temperature class and the maximum admissible surface temperature of the canned motor, respectively, is ensured via thermistor in the stator winding and/or via a measuring point on the bearing cover (liquid temperature). In case of magnetically coupled pumps the temperature is monitored on the containment shell.

Monitoring of rotor position and rotating direction

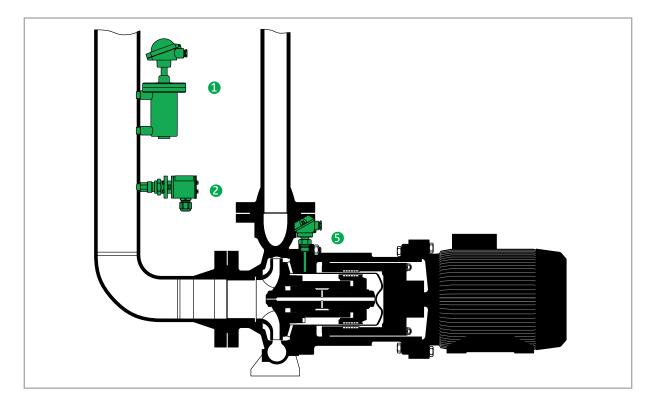
The axial thrust balancing is mainly influenced by the operating method of the pump, plant conditions and by various physical data of the liquid to be conveyed. For early detection of the source of errors, it is recommended to install a rotor-position-monitoring device as well as a direction of rotation monitor. This electronic protective gear monitors the axial shaft position of the rotor and / or its direction of rotation during operation in a hermetic and seal-less way. Together with the level and temperature monitoring, an effective and automatic early detection of failures may be achieved.

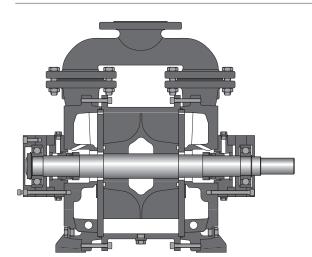
various monitoring devices			
1	Type N 30	LS	level
2	Type O 30	LS	level
8	Туре Т 30	TS	
4	Type KL 180	TS	temperature
6	Type PT 100	TI	
6	Type ARM-2000 (420mA)	GI	rotor position / direction of rotation
0	Type AM-2000	GI	rotor position
8	Туре МАР	GI	rotor position
9	Type ROM	GI	direction of rotation

Canned motor pumps



Magnetically coupled pumps

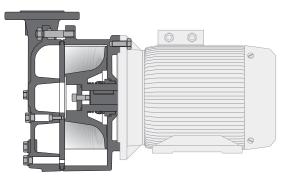




Chemical Petrochem	cal Refrigeration Energy	gy
 Double suction design Shaft seal by mechanica Suction capacity: Suction pressure: Rotating speed: Operating temperature: Pressure rating: 	l seal max. 1800 m ³ /h min. 33 mbar (abs) 700 to 1800 rpm –20 °C to +100 °C PN 10	

Type LVPS

Type LVPG

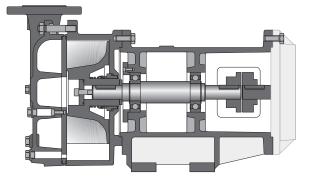


Chemical | Petrochemical | Refrigeration | Energy

Single suction design Shaft seal by mechanical seal Suction capacity: Suction pressure:

Suction capacity:	max. 250 m ³ /h
Suction pressure:	min. 33 mbar (abs)
Rotating speed:	1500 to 1800 rpm
Operating temperature:	–20 °C to +100 °C
Pressure rating:	PN 10

Type LVPL

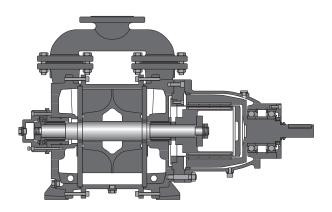


Chemical	Petrochemical	Refrigeration	Energ	qy

Single suction design

Shaft seal by mechanical seal		
Suction capacity:	max. 450 m ³ /h	
Suction pressure:	min. 33 mbar (abs)	
Rotating speed:	1500 to 1800 rpm	
Operating temperature:	–20 °C to +100 °C	
Pressure rating:	PN 10	

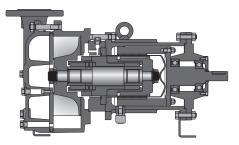
Type LVPM



Chemical | Petrochemical | Refrigeration | Energy

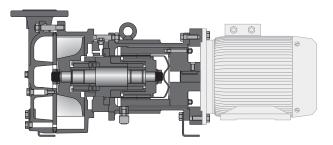
Double suction design			
Shaft seal by magnetic coupling			
Suction capacity:	max. 1800 m³/h		
Suction pressure:	min. 33 mbar (abs)		
Rotating speed:	700 to 1800 rpm		
Operating temperature:	–20 °C to +100 °C		
Pressure rating:	PN 10		

Type LVPML



Chemical	l Petroch	emical I	Refrigeration	Т	Energy
5	suction desigr		9		
Suction c	apacity:	max.	450 m³/h		
Suction p	oressure:	min. 3	33 mbar (abs)		
Rotating	speed:	1500	to 1800 rpm		
Operating	g temperature	: −20 °	C to +100 °C		
Pressure	rating:	PN 10)		

Type LVPMB



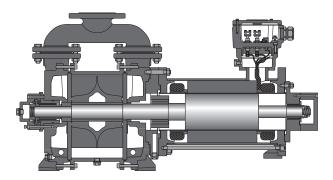
Chemical | Petrochemical | Refrigeration | Energy

Single suction designShaft seal by magnetic couplin

Shaft seal by magnetic	coupling
Suction capacity:	max. 450 m³/h

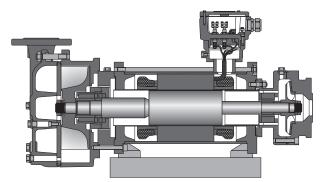
Suction capacity.	max. 400 m /m
Suction pressure:	min. 33 mbar (abs)
Rotating speed:	1500 to 3500 rpm
Operating temperature:	–20 °C to +100 °C
Pressure rating:	PN 10

туре сога



Chemical Petrochemi	cal Refrigeration Energy
 Double suction design Shaft seal by canned me Suction capacity: Suction pressure: Rotating speed: Operating temperature: Pressure rating: 	

Type LVPH



Chemical | Petrochemical | Refrigeration | Energy

Single suction design
 Shaft seal by canned motor
 Suction capacity: max. 450 m³/h
 Suction pressure: min. 33 mbar (abs)
 Rotating speed: 1450 to 3500 rpm
 Operating temperature: -20 °C to +100 °C
 Pressure rating: PN 10

PACKAGE UNIT

Vacuum pump type LVPG 1800



Liquid ring vacuum pump type LVPG 1800 with mechanical shaft seal, double-flow

- For suction of solvent vapours
- Suction temperature approx. 42 °C
- Pumping capacity 1674 m³/h at 147 mbar
- Compression to 1206 mbar

Vacuum package unit type ALVPM 800



Chemical | Petrochemical | Refrigeration | Energy

Liquid ring vacuum pump type LVPM 800 with magnetic coupling, double-flow

For suction of a mixture of:

air, nitrogen, epichlorohydrin and water vapour

- Suction temperature approx. 20 °C
- Pumping capacity 280 m³/h at 26 mbar
- Compression to 1113 mbar

Special features:

vacuum package unit with connected gas ejector

Bornet	

Chemical | Petrochemical | Refrigeration | Energy

Liquid ring vacuum pump type LVPMB 150 with magnetic coupling, close-coupled, single-flow

- For suction of a mixture of:
 - air, nitrogen, epichlorohydrin and water vapour
- Suction temperature approx. 25 °C
- Pumping capacity 81 m³/h at 106 mbar
- Compression to 1113 mbar

Vacuum package unit type ALVPH 1800

Vacuum package unit type ALVPMB 150



Chemical | Petrochemical | Refrigeration | Energy

Liquid ring vacuum pump type LVPH 1800 with canned motor, double-flow

- For suction of nitrogen
- Suction temperature approx. 40 to 45 °C
- Pumping capacity 1007 m³/h at 30 mbar
- Compression to 1113 to 1120 mbar

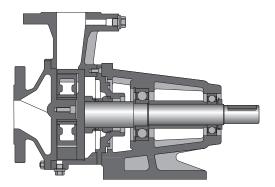
Special features:

vacuum package unit with integrated canned motor pump type CNK and 2 metering pumps

GEAR PUMPS

Type LZ	Chemical Petrochemical Refrigeration Ener				
	 Chemical Petrochemical Refrigeration Energy Self-priming Shaft seal by stuffing box packing, single or double mechanical seal Capacity: 0,5 to 120 m³/h Discharge pressure: max. 100 bar Rotating speed: max. 1450 rpm Operating temperature: -20 °C to +250 °C Viscosity: 0,3 to 5.000.000 mm²/s Pressure ratings: PN 25 to PN 100 				
Type LZM	Chemical Petrochemical Refrigeration Energ				
	 Shaft seal by magnetic coupling Capacity: 0,5 to 120 m³/h Discharge pressure: max. 100 bar Rotating speed: max. 1450 rpm Operating temperature: -20 °C to +250 °C Viscosity: 0,3 to 6.000 mm²/s Pressure ratings: PN 25 to PN 100 				

Туре НР



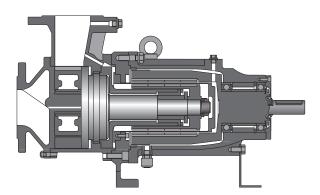
Chemical | Petrochemical | Refrigeration | Energy

Self-priming

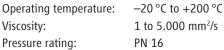
- Shaft seal by stuffing box packing, single or double mechanical seal
- Capacity: Discharge pressure: Rotating speed: Operating temperature: Viscosity: Pressure rating:
- 1 to 60 m³/h max. 12 bar max. 1450 rpm -20 C° to +200 °C 1 to 1.000.000 mm²/s PN 16



Туре МНР



Chemical Petrochemi	ical I	Refrigeration	Ι	Energy	
Self-primingShaft seal by magnetic coupling					
Capacity:	1 to 6	0 m³/h			
Discharge pressure:	max. 2	L2 bar			
Rotating speed:	max. 2	L450 rpm			

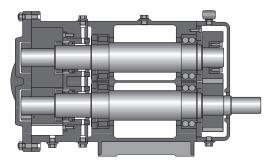


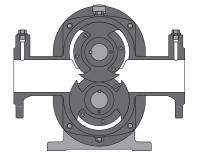
Viscosity:



ROTARY LOBE PUMPS

Type KRL





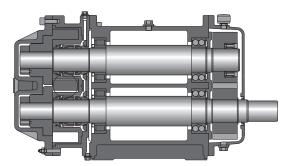
Chemical | Petrochemical | Refrigeration | Energy

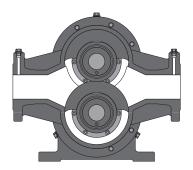
Self-priming

- Shaft seal by stuffing box packing, single or double mechanical seal
 Capacity: 1 to 300 m³/h
- Discharge pressure: Rotating speed: Operating temperature: Viscosity: Pressure ratings:

1 to 300 m³/h max. 100 bar max. 1450 rpm -20 °C to +280 °C 1 to 5.000.000 mm²/s PN 16 and PN 25

Type KRH





Chemical | Petrochemical | Refrigeration | Energy Self-priming Shaft seal by stuffing box packing, single or double mechanical seal 1 to 300 m³/h Capacity: Discharge pressure: max. 100 bar Rotating speed: max. 1450 rpm Operating temperature: -20 °C to +280 °C Viscosity: 1 to 5.000.000 mm²/s Pressure ratings: PN 16 and PN 25

Convincing service.

Important features are readiness, mobility, flexibility, availability and reliability. We are anxious to ensure a pump operation at best availability and efficiency to our customers.

Installation and commissioning

service effected on site by own service technicians

Spare part servicing

- prompt and longstanding availability
- customized assistance in spare part stockkeeping

Repair and overhauling

- professional repairs including test run executed by the parent factory
- or executed by one of our service stations worldwide

Maintenance and service agreement

 concepts individually worked out to increase the availability of your production facilities

Training and workshops

 extra qualification of your staff to ensure the course of your manufacture

Our products comply with:

- Explosion protection acc. to ATEX / UL / CQST / CSA
- VOC directive 1999/13/EC
- TA-Luft
- IPPC-directive
- CE
- RCCM, level 2
- Rosgortechnazdor

HERMETIC-Pumpen GmbH

is certified acc. to:

- ISO 9001:2000
- GOST "R"
- ATEX 94/9/EG
- AD HP 0 / TRD 201
- DIN EN 729-2
- KTA 1401, QSP 4a



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