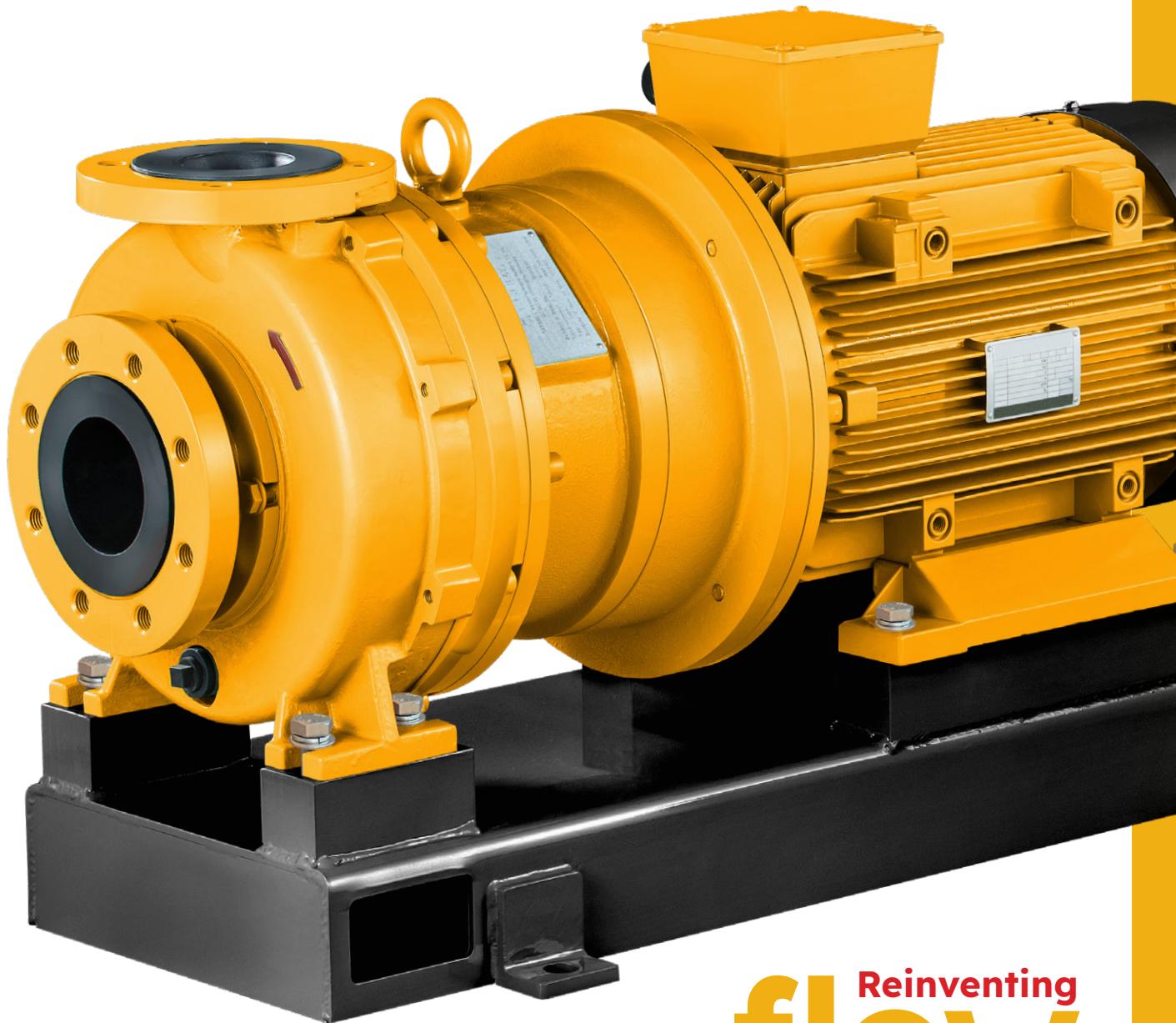


NEOCHEM

BASE

Standardized Chemical Pumps
ETFE-lined with Magnetic Coupling



Reinventing
flow.
Since 1964

NEOCHEM BASE

Standardized Chemical Pumps

ETFE-lined, with magnetic coupling according to ISO 2858 and ISO 15783 standards

Housing and impeller materials

ETFE-CF

Elastomers

EPDM, FKM (z. B. Viton®), PTFE+FKM

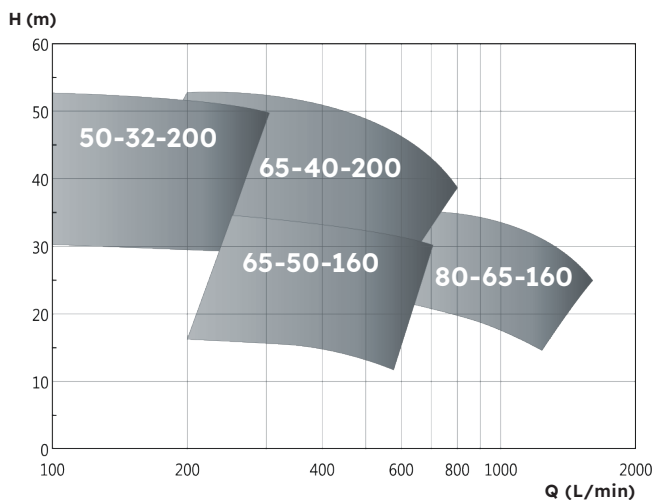
Bearing materials

Carbon, PTFE-CF, SSiC

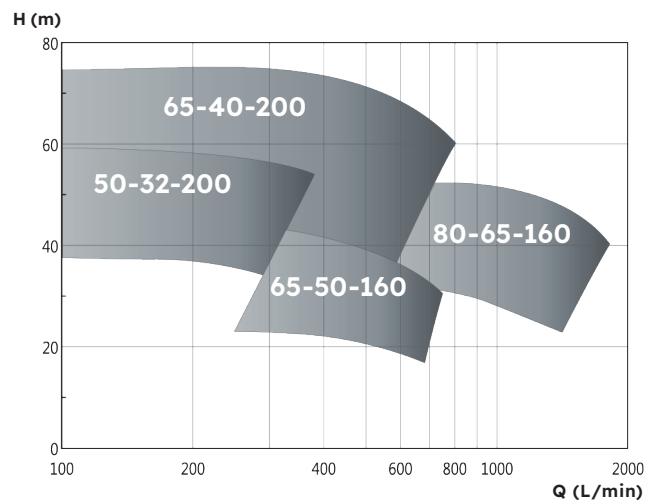
The NEOChem Base is a modern, chemically resistant plastic magnetic pump for demanding industrial applications. It combines a seal-less magnetic coupling with a high-strength armored outer construction and ETFE carbon-fiber lining, providing excellent corrosion resistance and robustness even under harsh operating conditions. Additional features such as a Back-Pull-Out design and flow-through bearing cooling system ensure reduced maintenance cycles and high availability.

Performance Overview

50 Hz



60 Hz

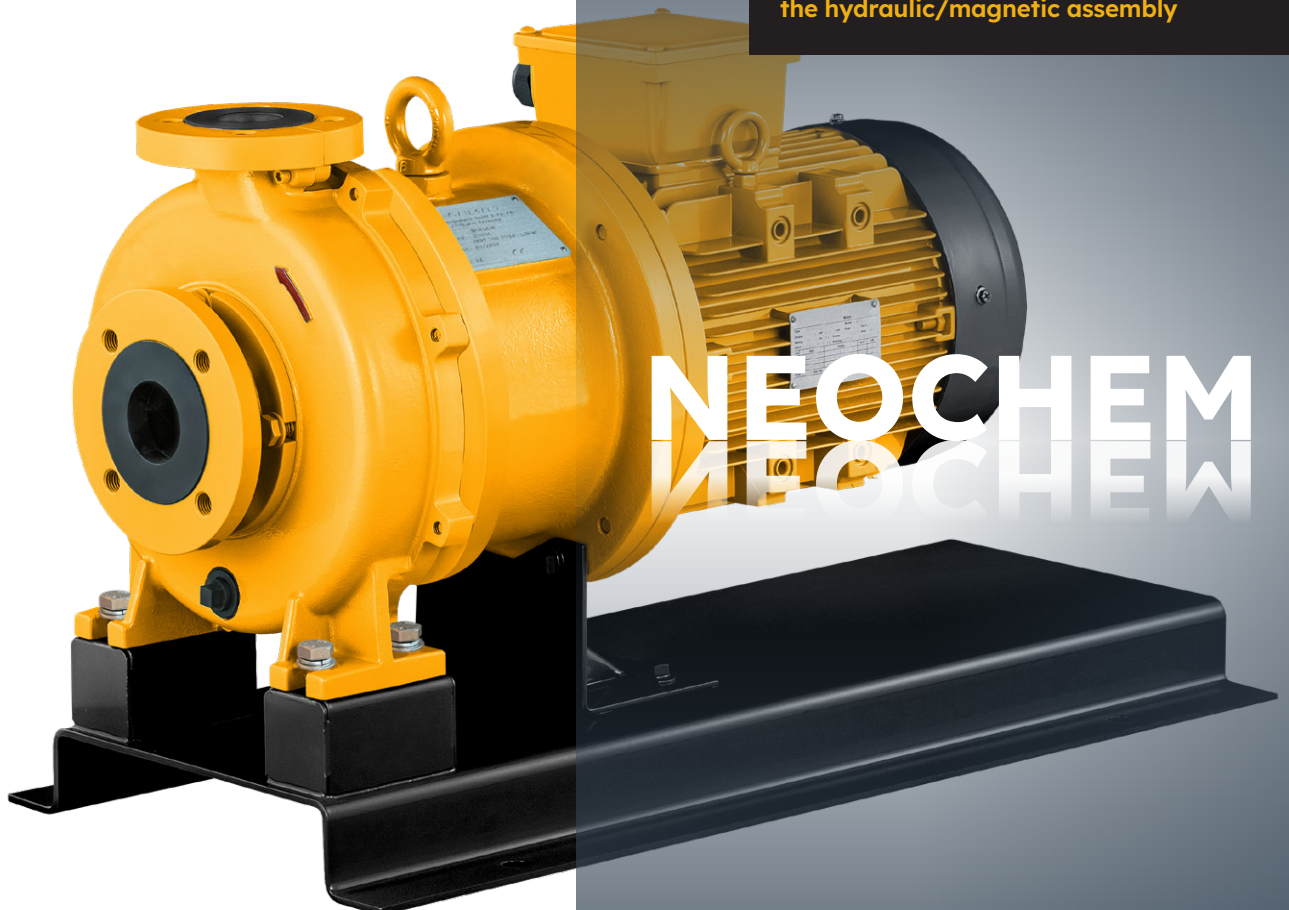


Advantages

- + Hermetically sealed and completely leak-free – sealless magnetic coupling (no mechanical seal), ensuring no leakage risk and maximum operational safety for expensive or environmentally hazardous media.
- + Ideal for toxic, aggressive, and high-purity media: The ETFE lining combined with a robust armored outer shell provides outstanding corrosion protection and prevents contamination.
- + Back-pull-out design – fast service and replacement of the hydraulic/magnetic assembly without removing the piping, enabling minimal downtime.

High-Strength Outer Construction
Excellent corrosion resistance and robustness

Back-Pull-Out
Fast service and replacement of
the hydraulic/magnetic assembly



NEOCHEM BASE

Description

Characteristics

Chemical-resistant, single-stage, ETFE-lined plastic centrifugal pump in close-coupled design per ISO 2858 and ISO 15783, with magnetic coupling, normal-priming

Features

- Hermetically sealed and absolutely leak-free (no shaft seal)
- Contact-free magnetic coupling with high-performance magnets
- All wetted parts made of premium, corrosion-resistant materials such as ETFE-CF
- Standard flange connections according to ISO, JIS, or ANSI

Fields of application

Pumping of acids, alkalis, and other corrosive, hazardous, or toxic liquids where leakage of even small quantities is unacceptable and hermetic sealing is required.

Pumping of high-purity or sensitive liquids where contamination must be prevented.

Typical uses:

Chemical industry—process and transfer (e.g. tanker unloading, bulk transfer)

Characteristics

Available materials

- Housing: ETFE-CF-lined
- Elastomers: EPDM, FKM (e.g. Viton®), PTFE+FKM
- Bearing materials: Carbon, PTFE-CF, SiC

Standard motors

(available from stock)

- Three-phase motors: Δ 230/Y400 V, 3-ph @ 50 Hz; Y460 V, 3-ph @ 60 Hz; IP55, Class F, with PTC as standard
- All three-phase motors from 0.75 kW comply with energy efficiency class IE3
- Single-phase motors: up to 1.1 kW: 230 V, 1-ph, 50/60 Hz, IP55, Class F
- ATEX-certified motors (temperature rating T3)

Special motors

(on request)

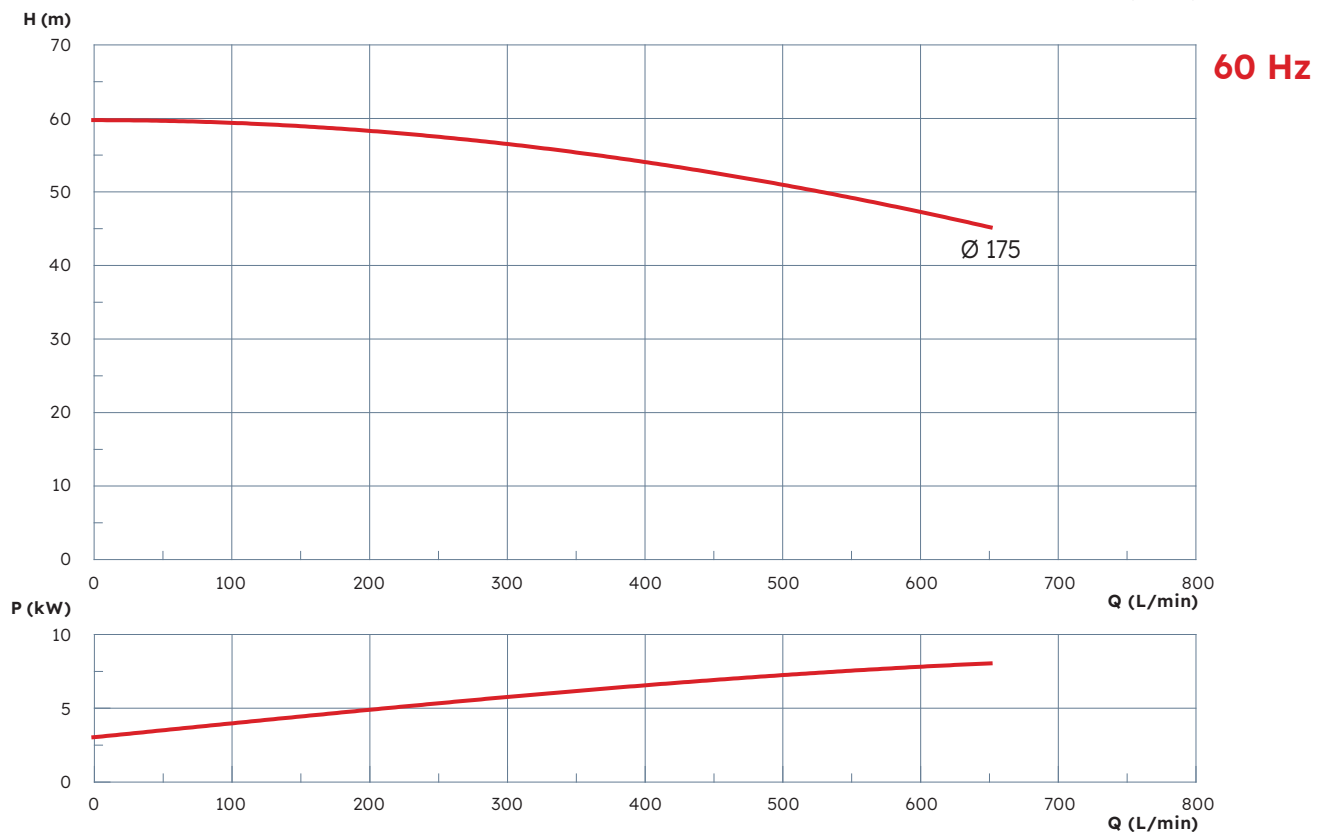
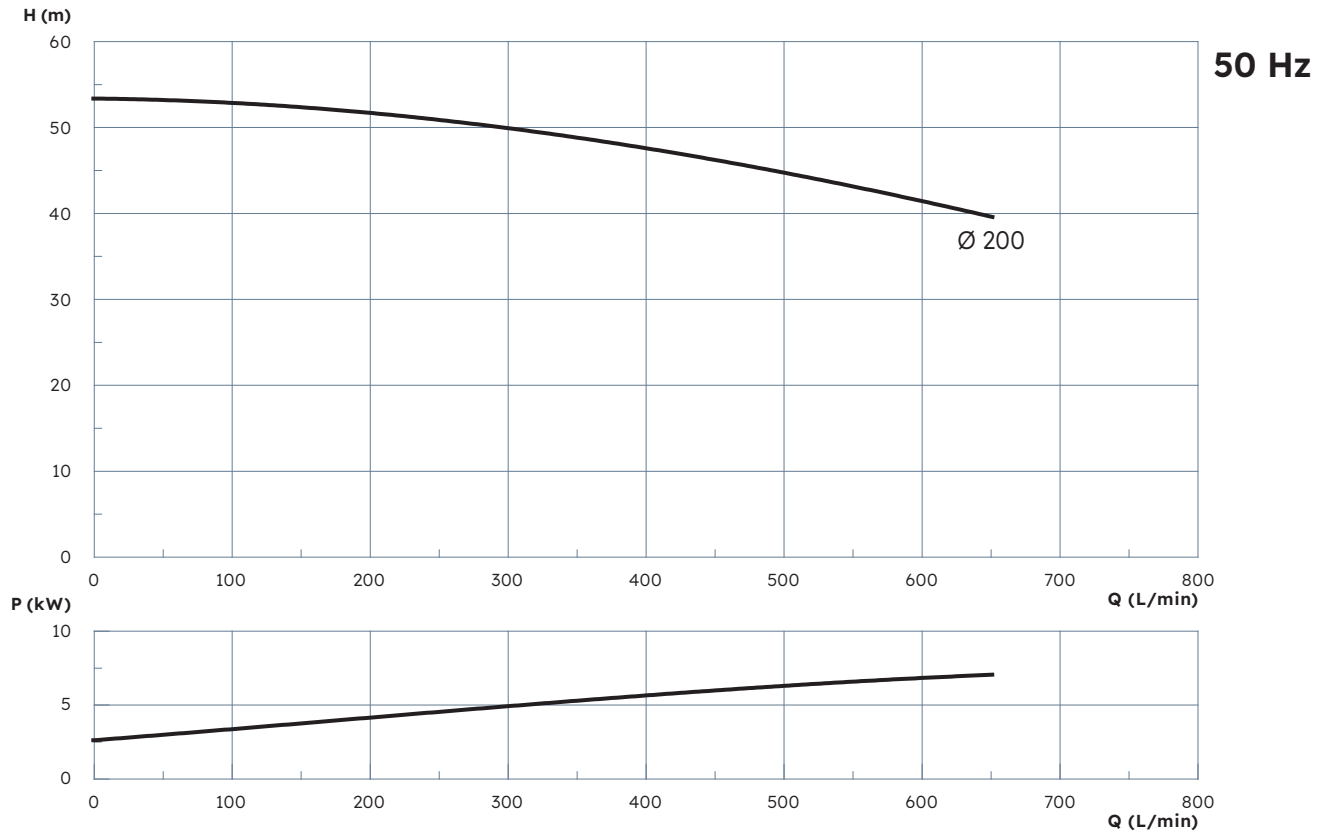
- Special voltages and frequencies
- Three-phase motors with integrated frequency converter
- ATEX-certified motors with flameproof enclosure and temperature rating T4
- Four-pole motors with 1450 rpm @ 50 Hz / 1650 rpm @ 60 Hz
- UL- and CSA-certified motors
- Special types of protection, e.g., IP65
- Special insulation classes, e.g., tropical insulation
- Multi-voltage, e.g., Δ 220-290/Y380-500 V @ 50 Hz; Δ 220-332/Y380-575 V @ 60 Hz
- Direct-current motors (DC or BLDC)

Operating conditions

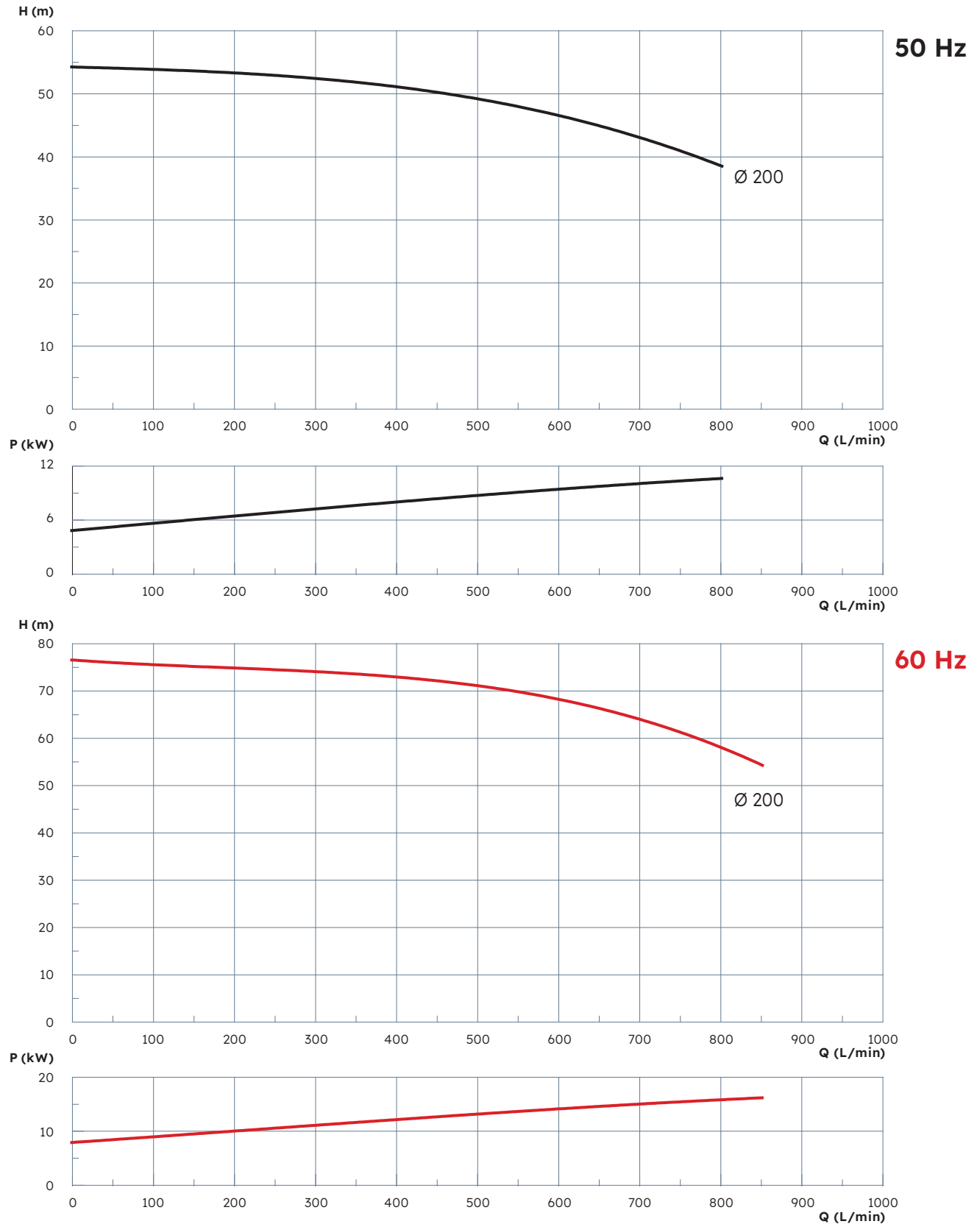
- Max. flow rate: 108 m³/h
- Max. head: 76 m
- Medium temperature: 0 to 95 °C
- Drive power: 5.5 to 18.5 kW

NEOCHEM BASE

Performance Curve NEOCHEM BASE 50-32-200

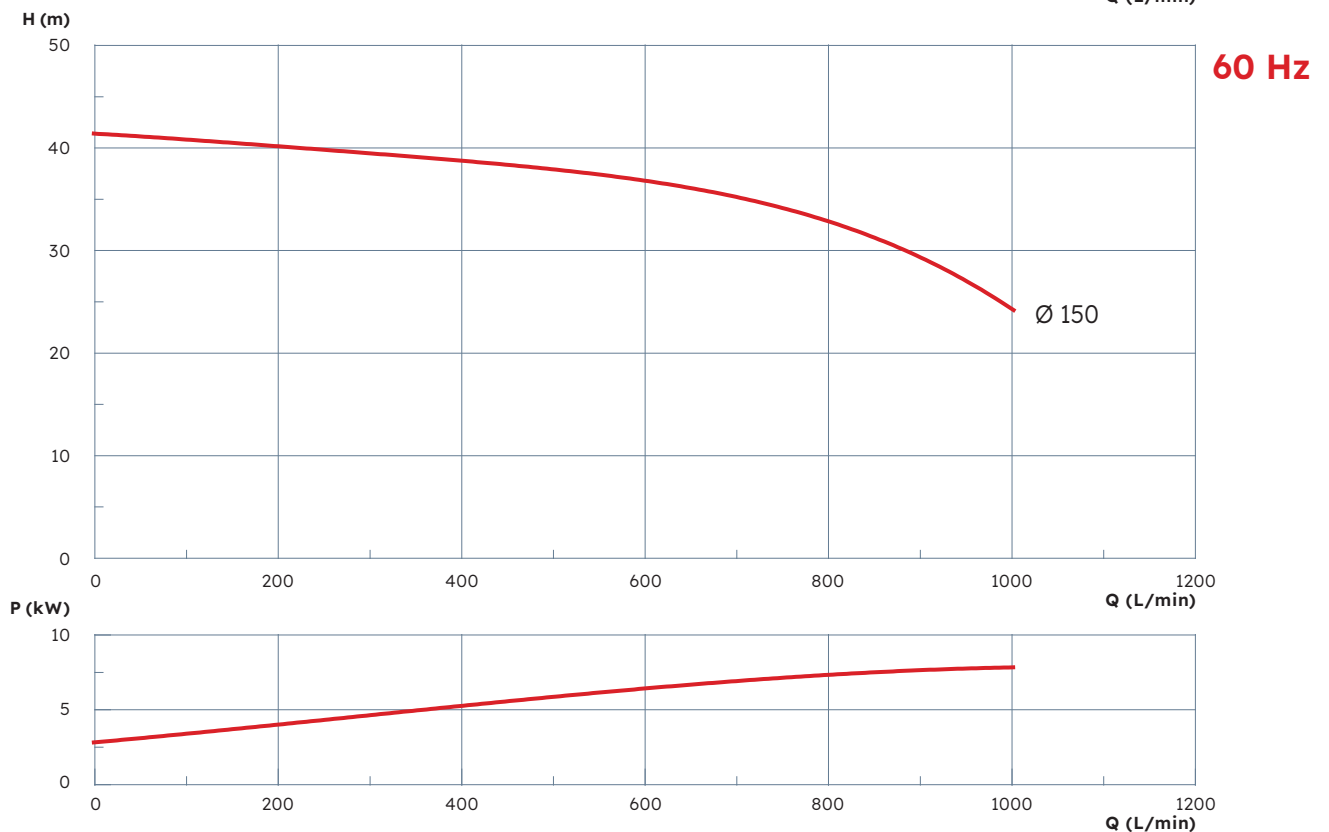
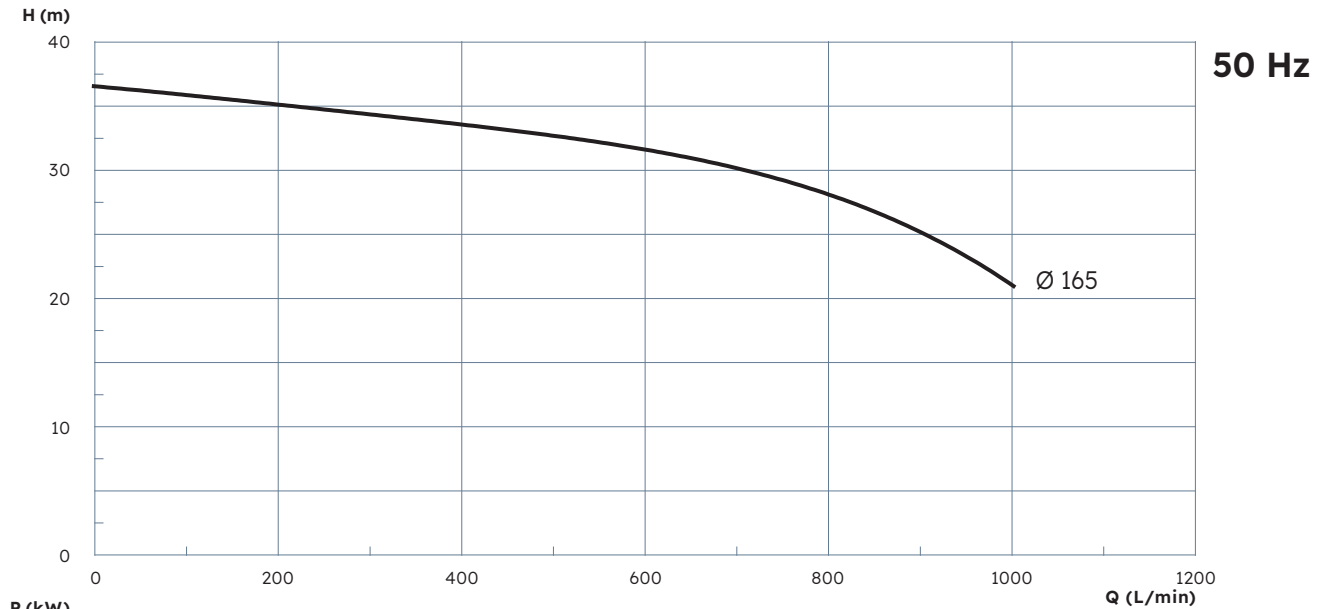


Performance Curve NEOCHEM BASE 65-40-200

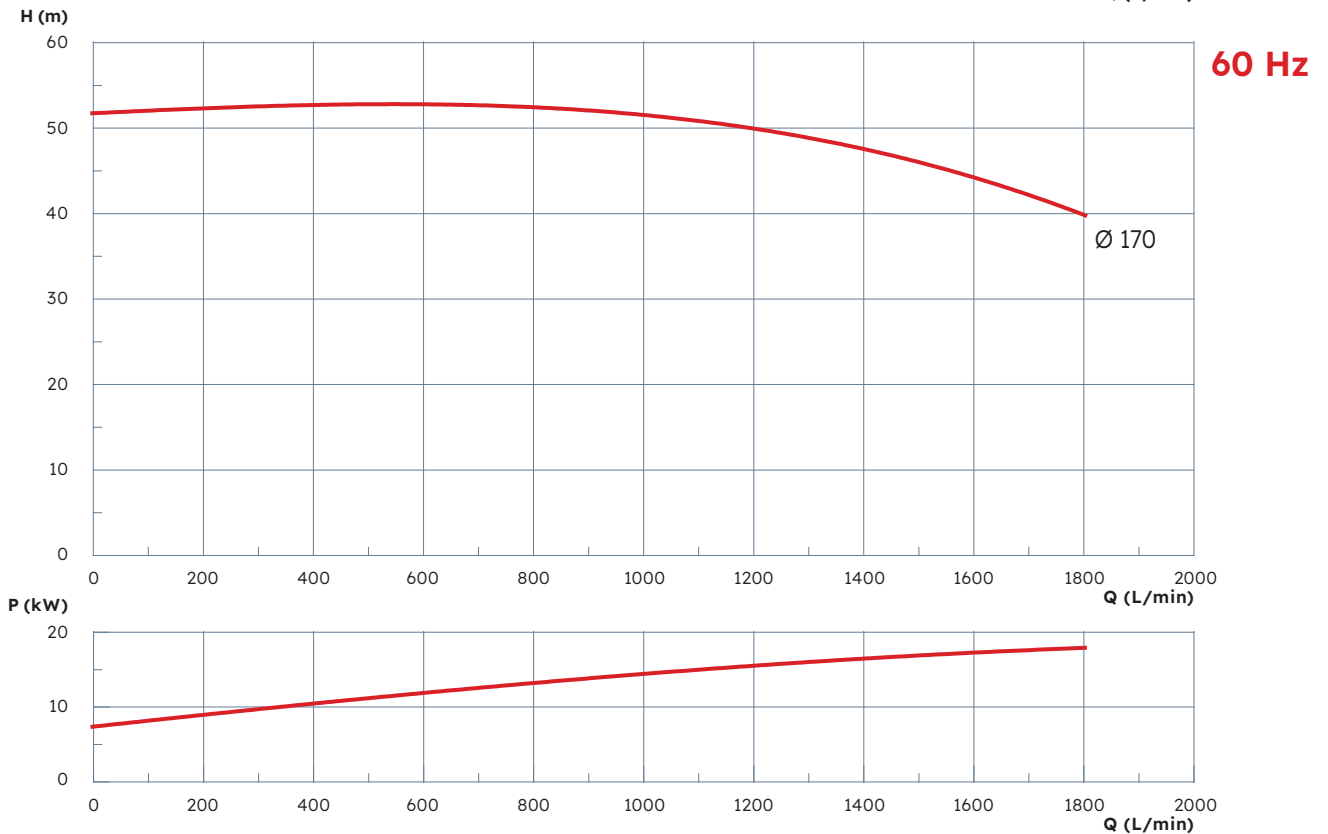
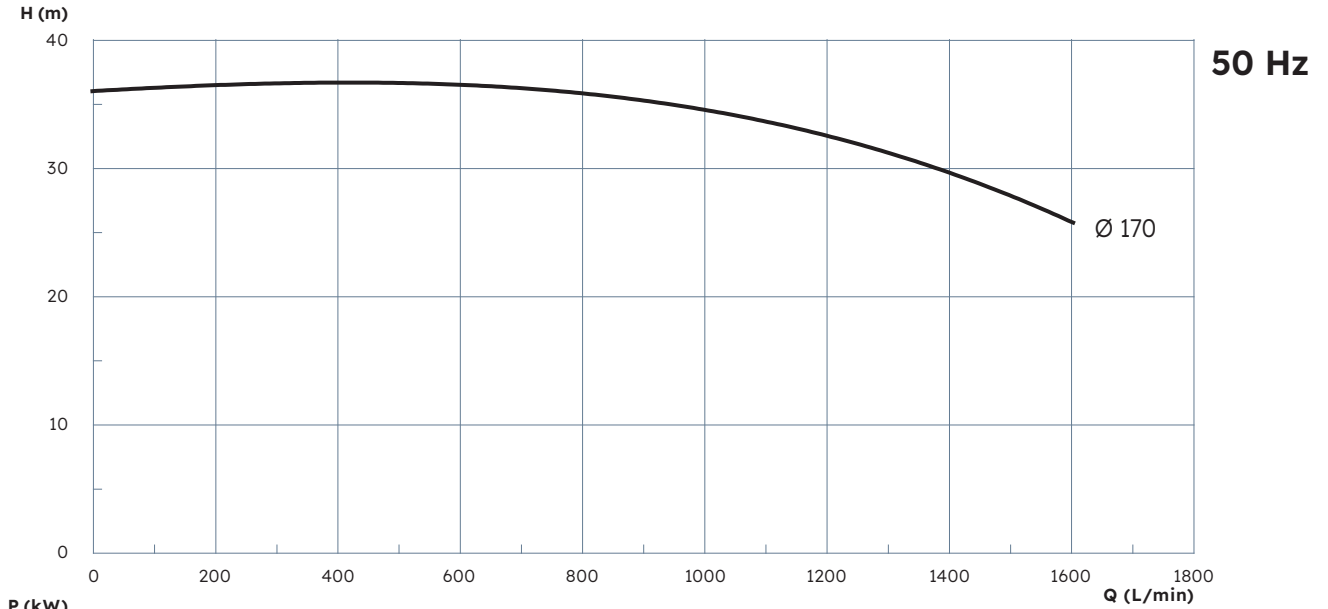


NEOCHEM BASE

Performance Curve NEOCHEM BASE 65-50-160

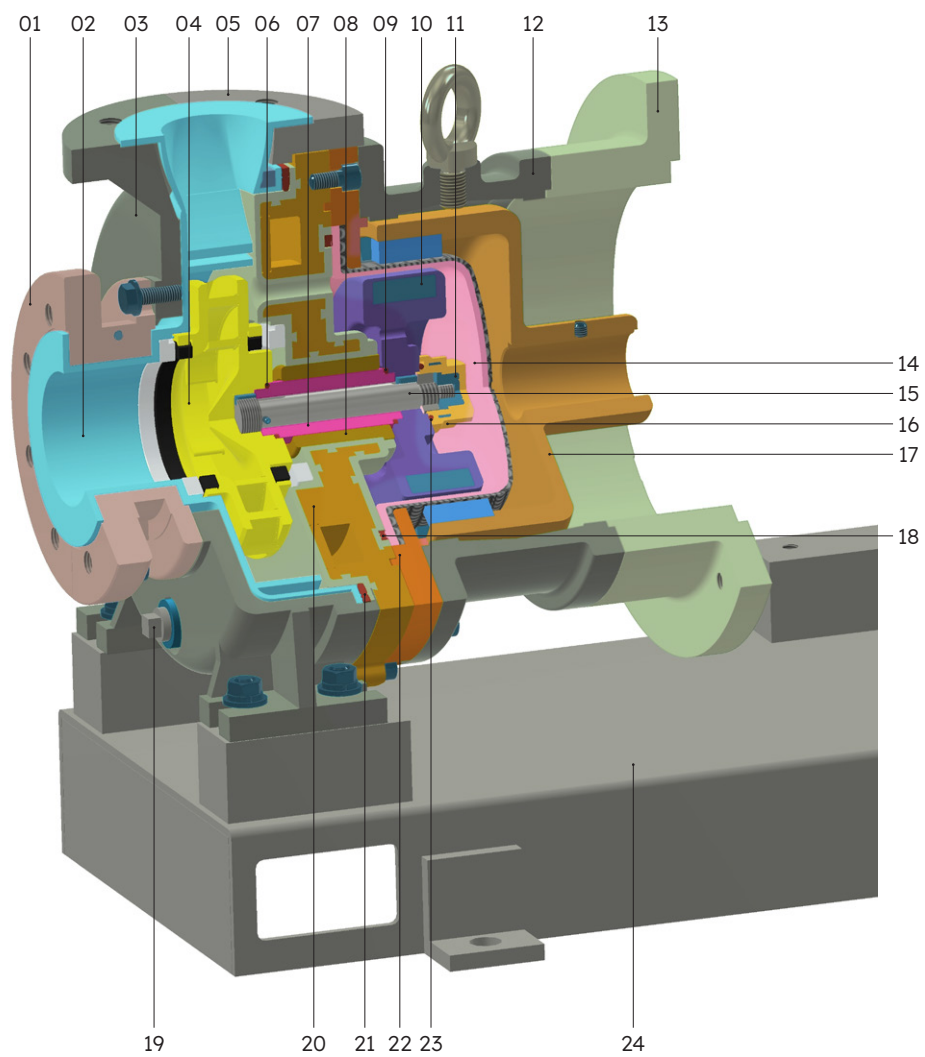


Performance Curve NEOCHEM BASE 80-65-160



Spare Parts

65-40-200 / 80-65-160



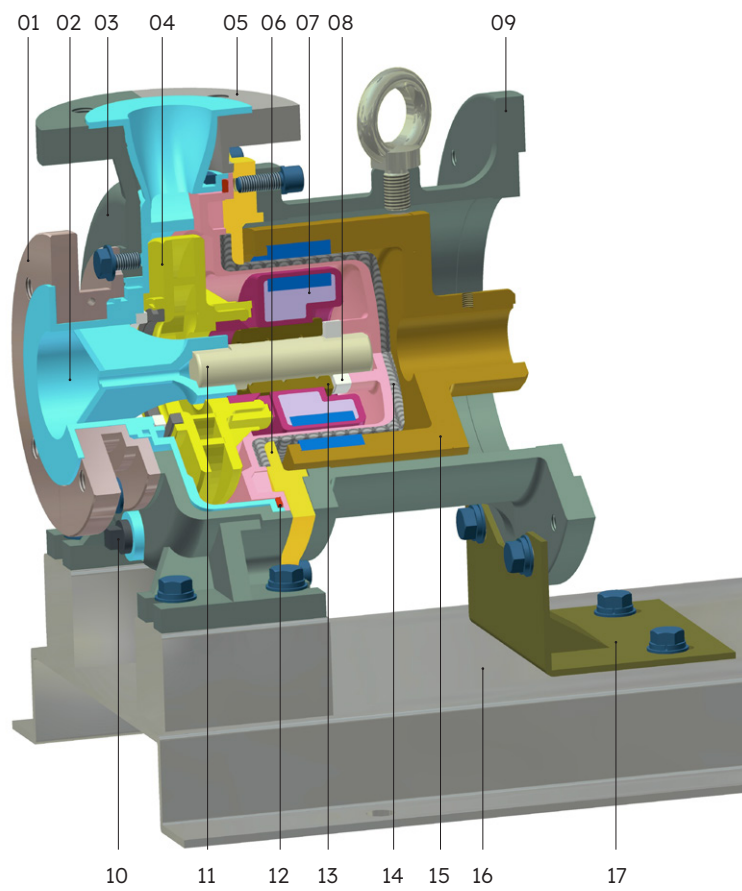
Standardized Chemical Pumps

ETFE-lined with Magnetic Coupling

Position	Description	Available materials
01	Inlet armour	EN-GJS-450-10 (5.3107)
02	Pump casing assembly	Casing: ETFE+CF, Ring: SSiC
03	Casing armour	EN-GJS-450-10 (5.3107)
04	Impeller assembly	Front ring: SSiC Impeller: ETFE+CF
05	Outlet armour	EN-GJS-450-10 (5.3107)
06	O-Ring	EPDM/FKM
07	Shaft sleeve	SSiC
08	Bearing	SSiC
09	O-Ring	EPDM/FKM
10	Magnet capsule	ETFE, Nd-Fe-B
11	Nut & washer	Stainless Steel (1.4404) (AISI 316L)
12	Bracket	EN-GJS-450-10 (5.3107)
13	Bracket adapter	EN-GJS-450-10 (5.3107)
14	Containment shell	ETFE+CF, Carbon FRP
15	Shaft	Stainless Steel (1.4404) (AISI 316L)
16	Shaft nut	ETFE
17	Drive magnet	Nd-Fe-B
18	Flat gasket	EPDM/FKM/PTFE+FKM
19	Drain plug	ETFE+CF
20	Bearing frame assembly	Bearing frame: EN-GJS-450-10 (5.3107) Thrust ring: SSiC
21	Gasket	EPDM/FKM/PTFE+FKM
22	Backup plate	EN-GJS-450-10 (5.3107)
23	O-Ring	EPDM/FKM
24	Base plate	Stainless Steel (1.4301) (AISI 304)

Spare Parts

50-32-200 / 65-50-160



Position	Description	Available materials
01	Inlet armour	EN-GJS-450-10 (5.3107)
02	Pump casing assembly	Casing: ETFE+CF, Ring: 995 Al ₂ O ₃ /SSiC
03	Outlet armour front	EN-GJS-450-10 (5.3107)
04	Impeller assembly	Front ring: Carbon/SSiC Impeller: ETFE+CF
05	Outlet armour rear	EN-GJS-450-10 (5.3107)
06	Backup plate	EN-GJS-450-10 (5.3107)
07	Magnet capsule	ETFE,Nd-Fe-B
08	Rear thrust ring	995 Al ₂ O ₃ /SSiC
09	Bracket adapter	EN-GJS-450-10 (5.3107)
10	Drain plug	ETFE+CF
11	Shaft	995 Al ₂ O ₃ /SSiC
12	Gasket or O-Ring	EPDM/FKM/PTFE+FKM
13	Bearing	Carbon/SSiC
14	Containment shell	ETFE+CF, Carbon FRP
15	Drive magnet	Nd-Fe-B
16	Base plate	Stainless Steel (1.4301) (AISI 304)
17	Bracket foot	Stainless Steel (1.4301) (AISI 304)

Accessories

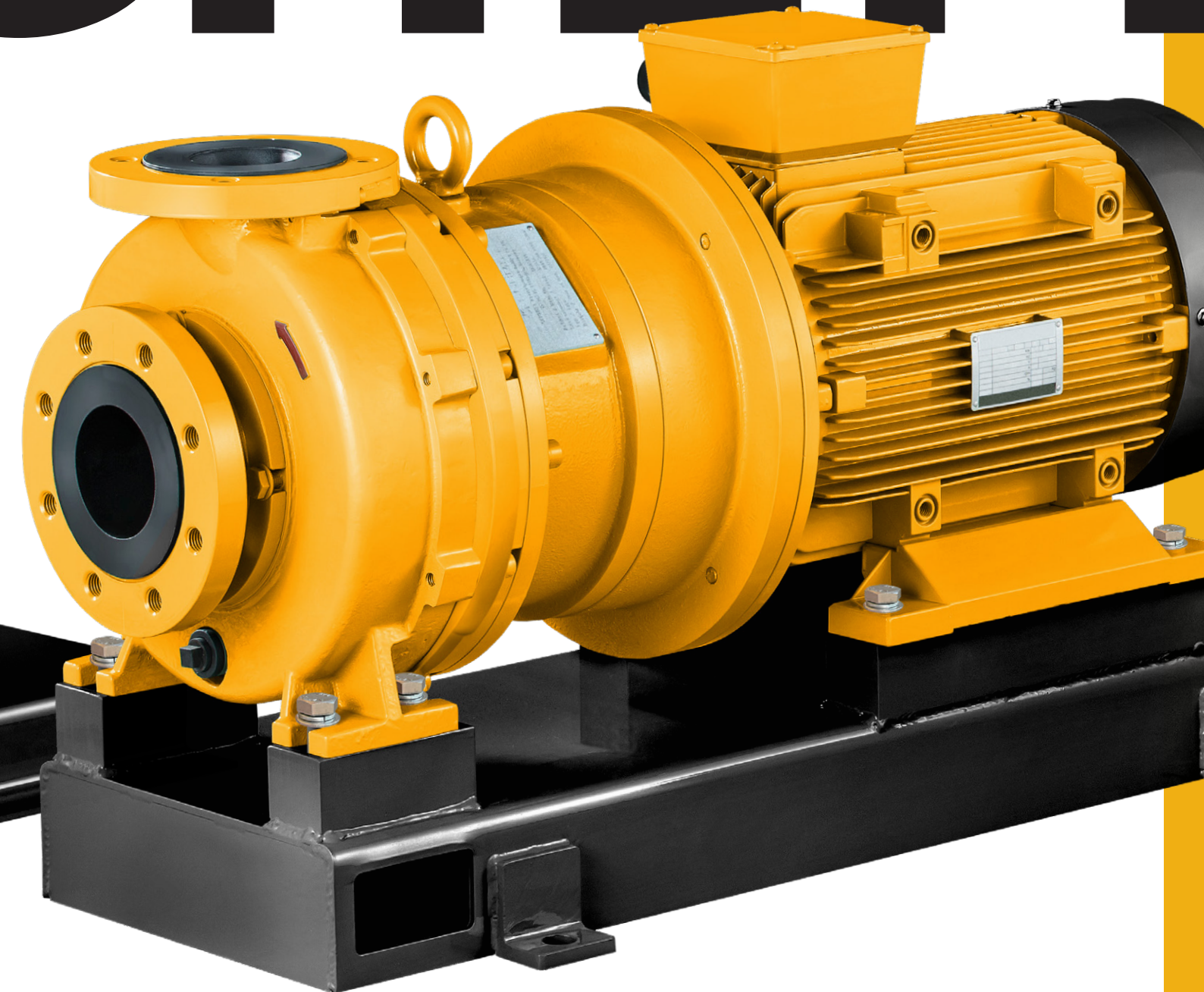
A comprehensive range of accessories is available for all Schmitt pumps, facilitating seamless integration into your system:

- + Flange adapters
- + Hose connectors
- + Weld-on fittings for stainless steel piping
- + Reducers and expanders
- + NPT-threaded adaptors
- + Inlet strainers for vertical pumps
- + Extension pipes for vertical pumps

BASEOCC



CHEM



SCHMITT

Reinventing flow. Since 1964

NHM

Normal-Priming Centrifugal Pumps
Made of PVDF or PP with Magnetic Coupling



SCHMITT

Reinventing flow. Since 1964

MPN

Normal-Priming Centrifugal Pumps
Made of PVDF or PP with Magnetic Coupling



SCHMITT

Reinventing flow. Since 1964

U

Normal-Priming Centrifugal Pumps
Made of PVDF or PP with Single Mechanical Seal



SCHMITT

T

Sealless Vertical Centrifugal Pumps
Made of PVDF or PP Dry-Run Safe

Reinventing flow. Since 1964



SCHMITT

UP | UP-DO

Normal-Priming Centrifugal Pumps
Made of Stainless Steel with Single or Double Mechanical Seal

Reinventing flow. Since 1964



SCHMITT

Reinventing flow. Since 1964

SMP

Self-Priming Centrifugal Pumps
Made of PP with Magnetic Coupling



SCHMITT

Reinventing flow. Since 1964

P

Normal-Priming Turbine Pumps
Made of PVDF or PP with Magnetic Coupling



SCHMITT

NEOCHEM BASE

Standardized Chemical Pumps
ETFE-lined with Magnetic Coupling

Reinventing flow. Since 1964



SCHMITT

NEOCHEM CORE

Heavy-Duty Standardized Chemical Pumps
FFA-lined with Magnetic Coupling

Reinventing flow. Since 1964



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