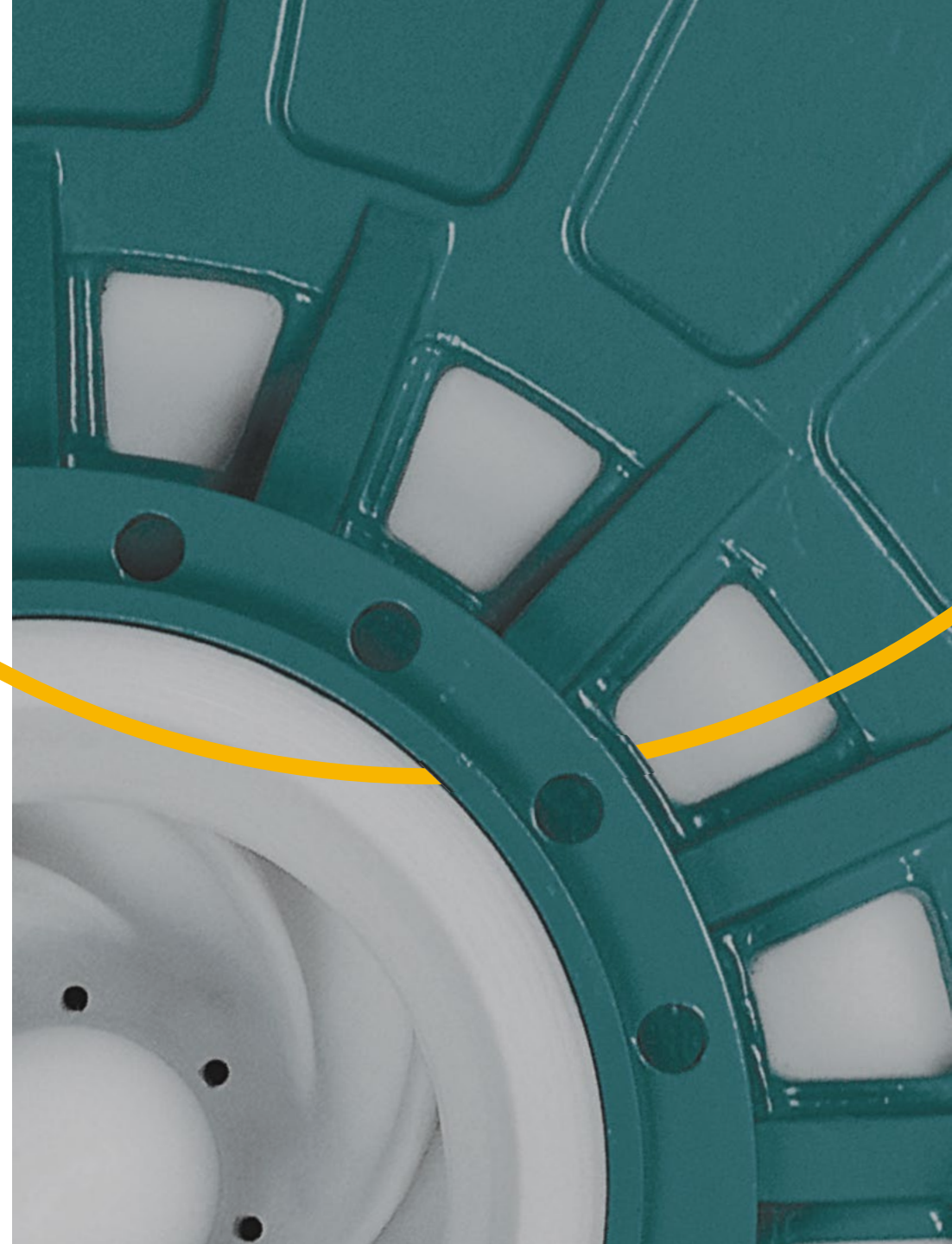


WERNERT chemical plastic lined pumps

High-performance plastic pumps
for use with aggressive, abrasive,
and toxic media



Pump solutions for aggressive environments

Mitsubishi Chemical Group provides you with ideal high-performance plastic pumps, fit for use with aggressive, abrasive, and toxic media. All pumps satisfy the highest security and safety specifications, including ATEX, and our teams work with you to find the right solution for your application and operating needs.

The Advanced Materials Division of Mitsubishi Chemical Group (MCG) in South Africa is the sole agent for WERNERT pumps and spares in Southern Africa, and we supply a full range of products into manufacturing and mine sites across South Africa.



WERNERT pumps are considered a market leader in chemical transfer pumps across the world, providing high quality and performance while pumping high-risk chemicals, problematic fluids, or other challenging media. WERNERT pumps are made with our portfolio of engineering plastics, supported by cast steel for maximum performance and reliability. For nearly 100 years, our partnerships have led the way in innovation, with plastic pumps now available for applications requiring centrifugal, grinding, and magnetically coupled pumps as well as submersible and vertical pumps.

Applications:

- For aggressive, abrasive, or toxic media

Main characteristics of WERNERT pumps:

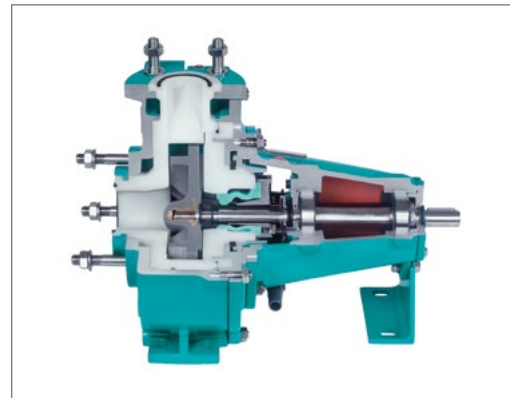
- Thick-walled interchangeable plastic parts
- Competent handling of aggressive fluids
- Grease or oil lubrication
- Unique axial face seals
- External flushing for solid-laden liquids
- Optimized impellers

[Learn more about WERNERT pumps](#)

Type NE: The general-purpose pump – safe and robust

For your applications in conveying toxic, corrosive, aggressive, or solid-laden liquids.

This pump has a single-stage radial centrifugal process design and operates with grease or oil lubrication. In addition to corrosive media, it can also be used in areas with explosive atmospheres. It has thick-walled interchangeable parts and is completely supported by metal casting, designed to absorb all pipe forces.



FLOW RATE:

0.5 to 1000 m³/h+

MATERIALS AND APPLICATION LIMITS:

UHMW-PE	up to 90 °C
PVDF	up to 115 °C
Mineral casting WERNIT®	up to 125 °C
Mineral casting WERNIT®	up to 125 °C

Type SP: The power pump – for high flow rates

For your applications with high flow rates.

This pump is a single-stage radial centrifugal pump in process design, with a closed impeller specifically designed for high-abrasion applications. It is available with either grease or oil lubrication, is reinforced with metallic absorption, and features thick, replaceable plastic components to ensure high efficiency.



FLOW RATE:

500 to 2500 m³/h

MATERIALS AND APPLICATION LIMITS:

UHMW-PE

up to 90 °C

Type VKP: The tank pump – space-saving

An invincible Sump-Pump for applications conveying liquids from basins, vessels, or sumps.

This pump is a single-stage radial centrifugal pump, with a vertical design for optimized wet installation. It may be used in applications with explosive atmospheres, and it has intermediate bearing in a submerged range with internal or external flushing. Thick-walled, interchangeable parts increase efficiency, and the lack of a required mechanical seal enables brief dry-running.



FLOW RATE:	
0.5 to 800 m³/h	
MATERIALS AND APPLICATION LIMITS:	
UHMW-PE	up to 90 °C
PP	up to 95 °C
PVDF	up to 115 °C

Other characteristics:

- Single stage vertical radial centrifugal pump
- May be used in areas with explosive atmosphere – directive 94/9/EG
- Semi open impeller
- Delivery suspension pipe rubber lined or Halar coated
- Drive and shaft bearings are in a protected nonwetted area
- Thick-walled interchangeable plastic parts
- Intermediate bearings in submerged area with internal or external flushing
- Differential Head up to 110 m
- Immersion Depth up to 1,5 m with cantilevered shaft (VKPF Type) or up to 8,5 m with intermediate bearing (VKP Type)
- Equipment Group II. Equipment Category 2G. Temperature Class T3

Type NKP: The tank pump – space-saving

For applications conveying aggressive liquids containing solids or fibers out of tanks and basins.

This compact pump is a single-stage radial centrifugal pump, with a vertical design to enable dry installation. It's space-saving structure is designed for direct external installation on tanks or containers, which enables easy access and inspection throughout its operating life. Thick-walled, interchangeable parts increase overall efficiency, and the absence of a mechanical seal enables brief dry-running.



FLOW RATE:	
0.5 to 450 m³/h	
MATERIALS AND APPLICATION LIMITS:	
UHMW-PE	up to 90 °C
PVDF	up to 115 °C

Other characteristics:

- Single stage vertical centrifugal pump
- Space-saving installation alongside a holding tank
- Easy access and inspection options
- May be used in areas with explosive atmosphere – directive 94/9/EG
- Semi open impeller
- Delivery suspension pipe rubber lined or Halar coated
- Dry running is possible for a short time, because no rotating mechanical seal is necessary
- Propulsion and bearing of the spindle in the safe area outside the conveying area
- Thick-walled interchangeable plastic parts
- Differential head up to 110 m
- Depth of immersion up to 1,5 m with cantilevered shaft
- Equipment Group II. Equipment Category 2G. Temperature Class T3

Questionnaire for centrifugal pumps

Customer information

Company name: _____
Contact person _____
Contact phone no.: _____
Mail address: _____

A. Liquid to be pumped:

Type & concentration temperature _____
Specific gravity _____
% of solids viscosity _____
Crystallisation during operation? _____
Crystallisation when standing still? _____

B. Service conditions:

Capacity _____
Flooded suction _____
Suction head when starting pump _____
Suction head during operation _____
System pressure at suction branch _____
Delivery head in metres LC _____
Comprising static head & friction losses _____
Suspension depth (immersed pumps) _____

C. Motor data:

AC or DC current _____
Voltage and frequency _____
Desired protection system _____
Shall motor be supplied by us? _____
Desired material of base (mild/SS): _____

Get in touch

Our branches in all the major centres throughout the country:

Head Office: Johannesburg

No. 2 Covora Street •
Corner Jet Park Road & Covora
Jet Park Ext. 15 • Boksburg • 1469
PO Box 8273 • Elandsfontein •
Germiston
Johannesburg • 1406

Contact us:

Tel: 011 397 4150/1/2/3/4/5/6.
www.mcam.com

Branch: Durban

Unit 9 Willow Park •
7 Willowfield Crescent
Springfieldpark • Durban • 4051
PO Box 22258 • Glenashley •
Durban • 4022

Branch: Cape Town

Unit 6 Peter Park • Corner Marconi
Road & Montague Drive
Montague Gardens •
Cape Town • 7441
PO Box 36605 • Chempet •
Cape Town • 7442

Branch: Port Elizabeth

No. 137 Haupt Street • Sidwell •
Port Elizabeth • 6001
PO Box 14240 • Sidwell •
Port Elizabeth • 6000

All statements, technical information and recommendations contained in this publication are presented in good faith and are, as a rule, based upon tests and such tests are believed to be reliable and practical field experience. The reader, however, is cautioned, that Mitsubishi

Chemical Advanced Materials does not guarantee the accuracy or completeness of this information. It is the customer's responsibility to determine the suitability of Mitsubishi Chemical Advanced Materials' products in any given application.

Design and content created by Mitsubishi Chemical Advanced Materials and protected by copyright law. Copyright © 2024 Mitsubishi Chemical Advanced Materials. All rights reserved.