



SOME LIKE IT HOT

PUMPS DESIGNED FOR HEAT TRANSFER OIL
AND HOT WATER APPLICATIONS



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REDEFINING HANDLING OF HEAT TRANSFER FLUIDS

We understand the challenges you face in your day-to-day operations

That's why our heat transfer centrifugal pumps are engineered with meticulous attention to detail to ensure reliable, efficient performance even under extreme conditions. Whether it's high temperatures, or demanding operating conditions, Allweiler pumps are known for their ruggedness and durability. Our pumps are compatible with a wide range of fluids. Whether you need to safely handle mineral-based or synthetic heat transfer oils or hot water, our centrifugal pumps are suitable across industries for a variety of process heat systems. The pumps move hot oils up to 400 °C and hot water up to 207 °C.

Complete pump package from a single global supplier

Our extensive portfolio of heat transfer pumps ensures you get the optimal pump you need. With a variety of pump types available, including process, block, or inline designs, we provide seamless integration into your system.

Safety is one of our Absolutes

High Operational Safety: Our pumps are designed with advanced safety features to mitigate the risks associated with toxic and flammable organic heat transfer fluids, protecting your equipment and personnel. Additionally, our pumps help you comply with various emission control laws and regulations to protect the environment. We offer a wide range of sealing concepts to suit your safety requirements - from single mechanical seals with safety throttle to double mechanical seals and hermetically sealed pumps.

High Reliability / Durability: We know that lost production usually leads to lost revenue. That is why our pumps are built to last. They are constructed using high-quality materials and are specifically designed for heat transfer fluid applications. Experience unparalleled reliability and durability, minimizing downtime and maximizing your productivity.

Experience the Difference with Allweiler Heat Transfer Pumps

Allweiler Heat Transfer Pumps are at the forefront of fluid handling innovation. As an industry leader, we are committed to providing solutions that not only meet but exceed our customers' expectations.

Our heat transfer pumps are designed with efficiency, reliability and safety in mind. They represent a paradigm shift in fluid handling technology, offering a comprehensive solution tailored to the diverse needs of today's industries.

Cost Matter



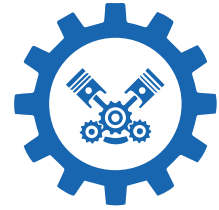
Low Capital Cost:

To keep an eye on costs, our heat transfer pumps offer cost-effective solutions without compromising on quality or performance.



Low Operating Costs:

Experience lower energy consumption and reduced maintenance requirements, resulting in significant savings over time.



Low Inventory Costs (Spare Parts):

Streamline your inventory management with our readily available spare parts and minimal inventory requirements due to our modular designed pumps.

Unlocking Efficiency: Special Bearing & Sealing Concept

Imagine a pump that not only moves fluid but also saves you money. Allweiler pumps with dynamic shaft sealing featuring unique bearing and sealing concepts.

Our design incorporates an effective thermal barrier, enabling the use of a cost-effective standard shaft seal without the need for an additional fluid cooling supply system. This not only reduces your initial cost but also minimizes ongoing maintenance expenses, making our pumps a cost-effective solution for your fluid handling needs.



Rugged Reliability: High Mechanical Stiffness

In the demanding environment of high-temperature applications, reliability is paramount. Our pumps offer unparalleled mechanical stiffness thanks to the robust connection between the casing and the bearing bracket. This ensures exceptional operational reliability and extends the life of critical wear parts, giving you peace of mind even in the harshest conditions.



Added Safety: Further Safety Features

Safety is a top priority at Allweiler, especially in critical heat transfer applications. That's why our pumps come equipped with additional safety features. These include a safety throttle/gland providing an additional safety barrier to protect your equipment and environment, minimized axial thrust to ensure a long service life of the roller bearing and standard connection for condition monitoring equipment.



These enhancements are designed to keep your operation running smoothly and safely, reinforcing our commitment to providing reliable and safe fluid handling solutions.

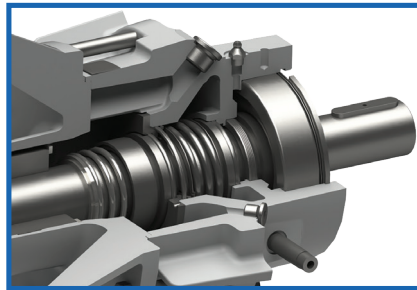
ALLHEAT® Series: Some Like It Hot

Innovative design makes it an all-round solution

Our powerful ALLHEAT® Series are designed for safe and reliable pumping of heat transfer fluids. A sleeve bearing with special bearing geometry makes the pump universal for all heat transfer fluids. Whether it is organic mineral oil-based, synthetic heat transfer oil up to 400 °C or hot water up to 207 °C, our versatile pump series offers a cost-effective solution to meet your technical requirements.

ALLHEAT pumps are versatile workhorses. They come with a single mechanical seal, standard in all our heat transfer pumps. But here's the kicker: you can also opt NTWH and CTWH series for a double mechanical seal. This setup, arranged in tandem, boosts safety by preventing fluid leaks into the atmosphere.

THE BENEFITS



Tandem double mechanical seal and quench system for highest operational safety and less emission.

PRESSURE SAFETY

Pressure-resistant casing parts available in two material executions, diverse flange execution and pressure ratings.

STABILITY AND DURABILITY

Unrivalled mechanical strength and stiffness resulting from optimally arranged stiffening ribs.

ALLHEAT NTWH, CTWH

HIGH SAFETY

Additional safety barrier by a throttling bush and efficient heat barrier.

LOW MAINTENANCE

Patented large-dimension seal space to avoid gas-bubble rotation and partial dry running of the mechanical seal.

EFFICIENCY

Hydraulically balanced impellers are optimized for high efficiency and minimal axial thrust on the roller bearing.

LONG SERVICE LIFE

Optimized antifriction bearing with special grease protected by additional shaft seal ring.

EFFICIENT OPERATION

Air-cooled: No water cooling and flushing of the sealing required, resulting in less costs for auxiliary equipment and operation.

OPERATIONAL SAFETY

Solid and durable plain bearing with high bearing load capacity, lubricated with the process fluid; tiltable for optimal alignment.

Optional available: IN-1000 condition monitoring system for continuous operating monitoring (leakage and roller bearing)

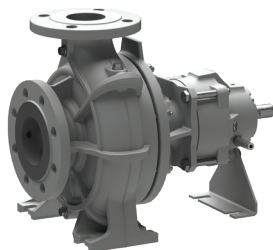
The ALLHEAT® Centrifugal Pump Is Offered In Six Versions

We understand that every application and every customer is unique. That's why we offer versatile solutions to meet your specific needs:

Pump	Specifications	Max. Capacity [m³/h]	Max. Delivery Head [m]	Max. Outlet Pressure [bar]	Max. Fluid Temperature [°C]
NTWH	Process design, installation dimensions according to DIN EN 733	1250	100	16	183 hot water / 350 heat transfer oil
NBWH	Block Design	270	92	16	183 hot water / 350 heat transfer oil
NIWH	Inline Design	220	92	16	183 hot water / 350 heat transfer oil
CTWH	Process Design	1500	136	25	207 hot water / 350 (400*) heat transfer oil
CBWH	Block Design	240	63	25	207 hot water / 350 heat transfer oil
CIWH	Inline Design	105	58	25	207 hot water / 350 heat transfer oil

Performance values at 50 Hz operation

*upon request



ALLHEAT® NTWH, CTWH



ALLHEAT® NBWH, CBWH



ALLHEAT® NIWH, CIWH



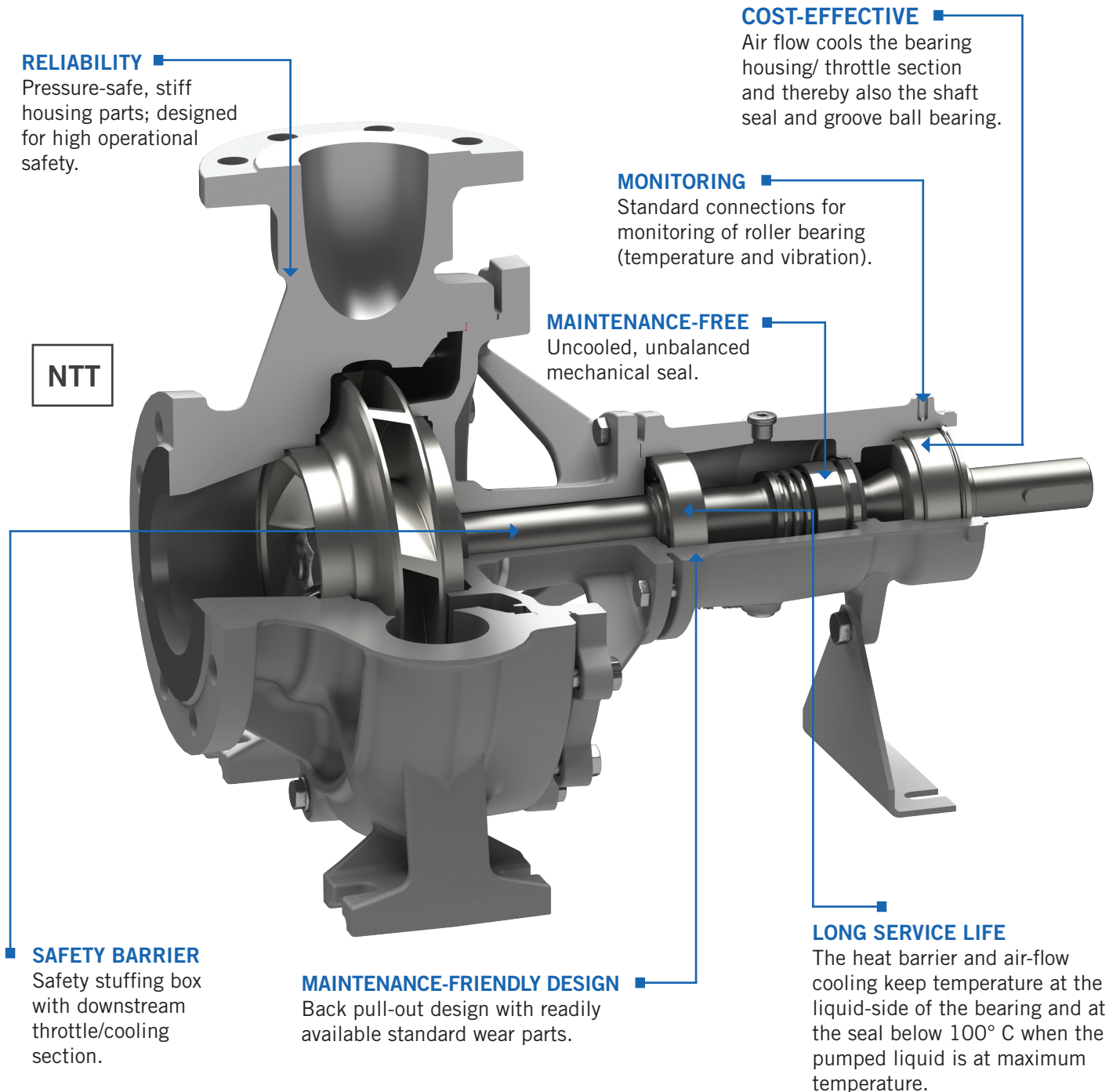
Please check out our homepage for more information:

NTT Family: Efficient Heat Circulation for Industrial Excellence

A special design ensures a long service life coupled with low costs for maintenance and operation

NTT centrifugal pumps are specially designed for mineral-based organic heat transfer oils up to 350 °C, efficiently transferring heat to the consumer. With an optimal blend of safety, efficiency and durability, they ensure reliable operation in demanding industrial processes. NTT centrifugal pumps are designed with cost-effectiveness in mind, with readily available standard wear parts, such as two roller bearings, facilitating efficient maintenance and minimizing downtime. Trust NTT pumps for reliable performance in demanding conditions proven over decades.

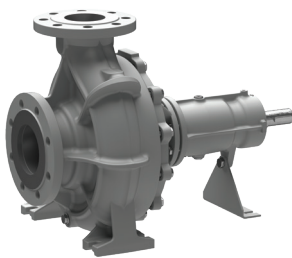
THE BENEFITS



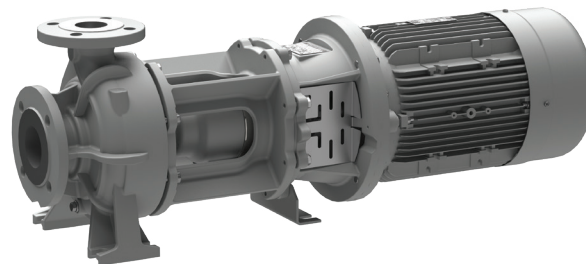
NTT Centrifugal Pump Series are offered in Three Versions

Pump	Specifications	Max. Capacity [m ³ /h]	Max. Delivery Head [m]	Max. Outlet Pressure [bar]	Max. Fluid Temperature [°C]
NTT	Process design, installation dimensions according to DIN EN 733	1250	145	16	350
NBT	Block Design	270	145	16	350
NIT	Inline Design	220	145	16	350

Performance values at 50 Hz operation



NTT



NBT



NIT

Please check out our homepage for more information:



ALLMAG® Series: Leak-Free Delivery of Every Single Drop

Hermetically Sealed for Highest Safety

Allweiler ALLMAG® pumps are leak-free, magnetic drive centrifugal pumps. As hermetically sealed centrifugal pumps, they can be used wherever the explosion or fire hazard, toxicity or odor nuisance of the pumped liquid makes it necessary. Or you have specific standards of cleanliness.

Magnetic Drive Design

The ALLMAG® pump is an environmentally friendly and safe solution for handling hazardous fluids. Its magnetic drive design eliminates the need for dynamic shaft seals, reducing maintenance and downtime, while ensuring emission-free operation to meet environmental regulations and enhance employee safety.

THE BENEFITS

ECONOMICAL

Simplified patented design concept with less number of components keeps investment cost to a minimum.

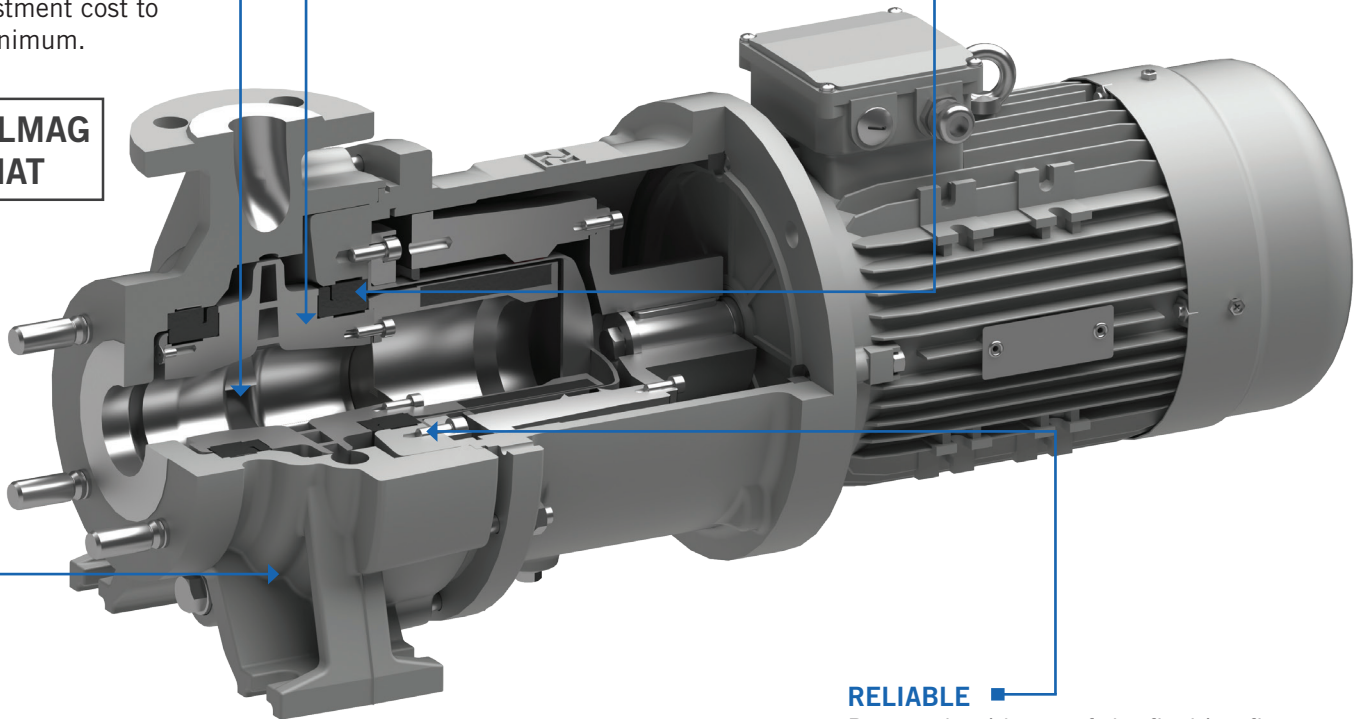
OPERATIONAL SAFETY

Large silicon-carbide bearing and symmetrical impeller lower axial and radial loads and distributes forces onto the bearing as efficiently as possible.

MAINTENANCE-FREE

Hydrodynamic lubrication of the bearing permits virtually unlimited service life even with low-viscosity liquids.

**ALLMAG
CMAT**



ROBUSTNESS

Insensitive to external influences and disturbance-free absorption of flange forces thanks to a special housing design with a robust lantern.

RELIABLE

Patented guidance of the flushing flow through the SiC plain bearing provides large tolerance for solid particles as well as security against leaks and protection for the isolation can.

Shaftless design results in short straight-line flushing flow that eliminates dead spaces and deposits in the flushing flow.

The ALLMAG® CMAT and CMIT Series for Unmatched Safety & Cost Efficiency

The ALLMAG® CMAT (block version) and CMIT (inline version) series of centrifugal pumps has been carefully designed to ensure exceptionally high operational reliability while keeping investment costs to a minimum. Our concept aims to effectively counteract the challenges and disturbances to which classical overhanging pump designs are typically exposed. This prevents damage to the pump and ensures high reliability and long service life.

Shaftless Excellence

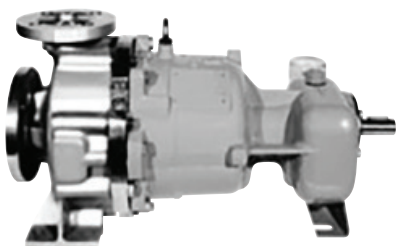
The reduction of investment and spare parts costs is achieved by eliminating all unnecessary parts that are not essential for power transmission and pumping of the medium - the pumps have no shaft!

The ALLMAG® CNH-ML heavy duty and variable

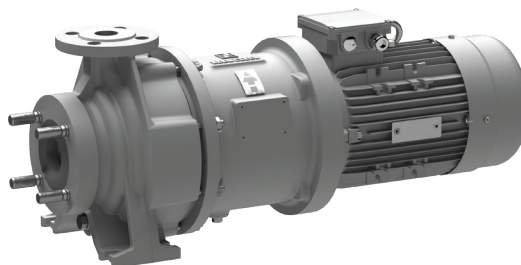
The CNH-ML heavy-duty, base-plate pumps are versatile enough to handle even the most demanding applications. Offering a wide performance range and customizable to your material requirements, this pump excels in challenging operating conditions, including handling sticky or stagnant fluids.

The ALLMAG® Series are offered in Three Versions

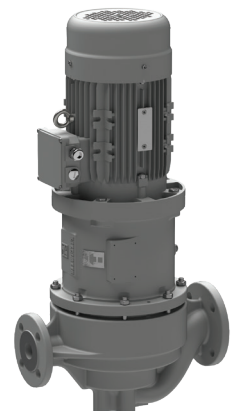
Series	Specifications	Max. Capacity [m ³ /h]	Max. Delivery Head [m]	Max. Outlet Pressure [bar]	Max. Fluid Temperature [°C]
CMAT	Block Design	80	55	16	183 hot water / 350 heat transfer oil
CMIT	Inline Design	80	55	16	183 hot water / 350 heat transfer oil
CNH-ML	Process design	300	145	25	350



ALLMAG® CNH-ML



ALLMAG® CMAT



ALLMAG® CMIT



Please check out our homepage for more information:

After the Purchase is before the Service

First-class products must be complemented by first-class service. That's why we offer a comprehensive network of service and support services designed to

- Maximize uptime and
- Minimize lifecycle costs.

From preventive maintenance to quick repair solutions, Allweiler supports customers worldwide to ensure that every pump performs at its best.

Our experienced engineers and factory-trained technicians have some of the best product knowledge in the industry. In addition, we have as-built drawings and original design documents that allow us to troubleshoot, analyze and solve even your most complex problems in ways that other service options cannot.

"WHEN OUR PUMP WENT DOWN AT THE WORST POSSIBLE TIME, THE TEAM FROM CIRCOR GOT US THE SOLUTION AND THE ALLWEILER PARTS ARE NEEDED. WE WERE UP AND RUNNING IN NO TIME".

- FACILITY MANAGER, FRANKFURT, GERMANY

Confidence Installed

Our Original Spare Parts Stand Up To Our Tough Standards And To Yours

Our service teams only install spare parts that meet or exceed the original equipment standards. So you can be sure your ALLWEILER, IMO, HOUTTUIN, TUSHACO, WARREN and ZENITH pumps are going to be repaired correctly and back to optimal performance in no time. CIRCOR has a wide range of products and spare parts to meet standards based on your location and industry. Our product lines are certified to industrial, marine, petroleum and safety standards such as CE, ISO, API and all major class marine societies such as DNV-GL, ABS and others.



Contact our team of experts.

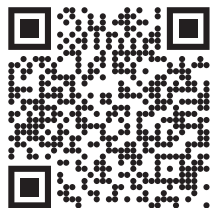
They will work with you to review your application and determine which pump meets your needs best.



CIRCOR Radolfzell

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Allweilerstraße 1
78315 Radolfzell am Bodensee
Germany

Scan the QR-Code and get in touch.





CIRCOR Pumps, a group of CIRCOR Int., delivers an extensive portfolio of pumping and fluid handling technologies to meet the needs of customers in demanding applications around the world. As world leaders in design, manufacture and application of a wide range of pump types, CIRCOR Pumps offer the brands ALLWEILER, HOUTTUIN, IMO, ZENITH, TUSHACO, and WARREN. The brands are known not only for their superior technology and quality, but also for their decades of experience in various industries.

We move more than fluids.

Africa | Asia Pacific | Europe | Middle East | North America | South America



pumps.circor.com

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