



PUMPS | VALVES | ACCESSORIES

Solutions for Hot Oil & Thermal Fluids Applications

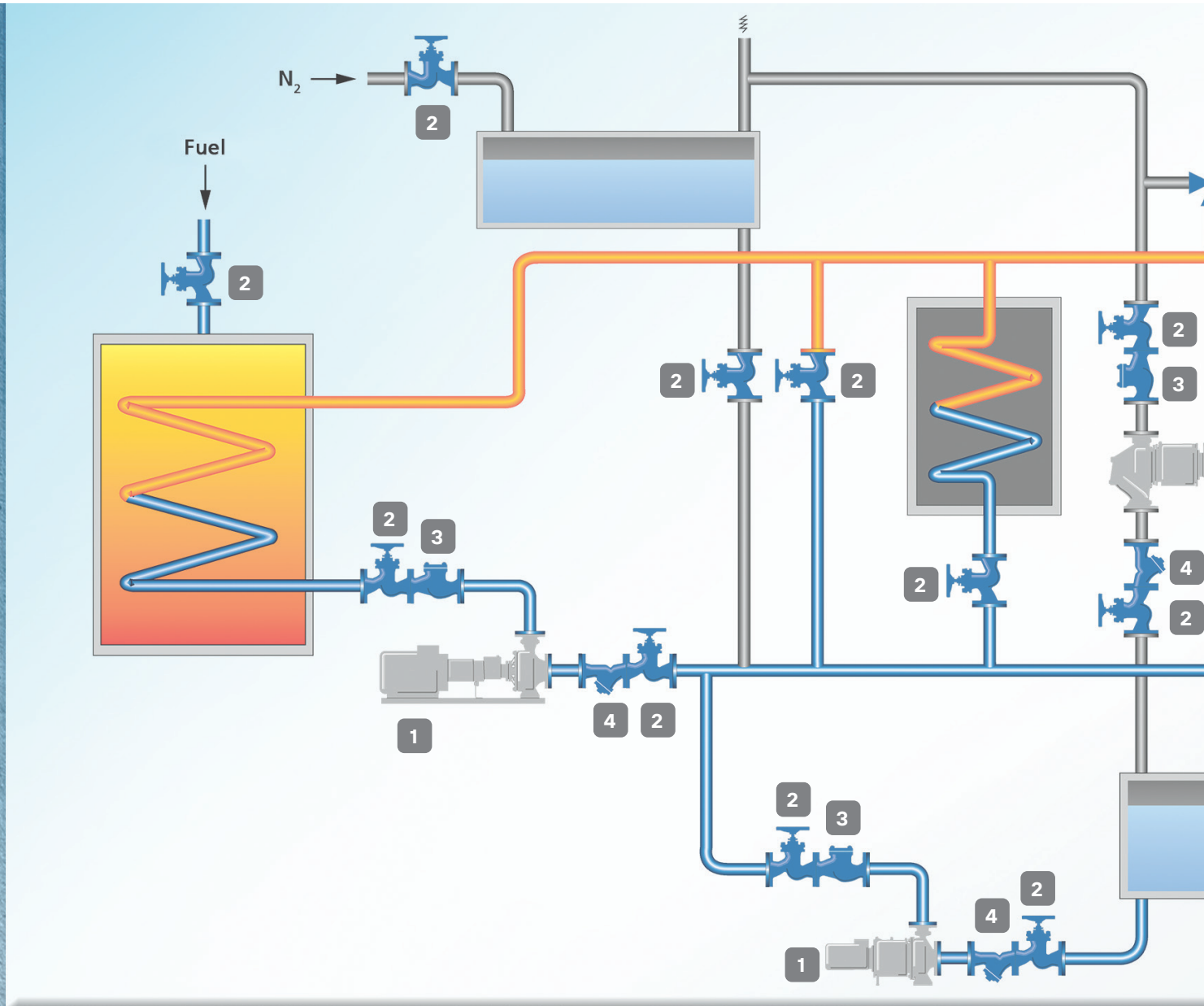


From a Supplier to a Partner: KSB's Full-Circle Expertise Provides Added Value

When it comes to heat transfer fluids, KSB provides more than individual components — we deliver complete, end-to-end solutions. Our portfolio combines pumps, valves, advanced automation, and drive technology with a comprehensive range of services designed to support heat transfer systems in demanding environments.

With solutions tailored to virtually any requirement, KSB is a trusted partner for heat transfer applications across a wide range of industries.

KSB's heat transfer range:
the perfect product for every application



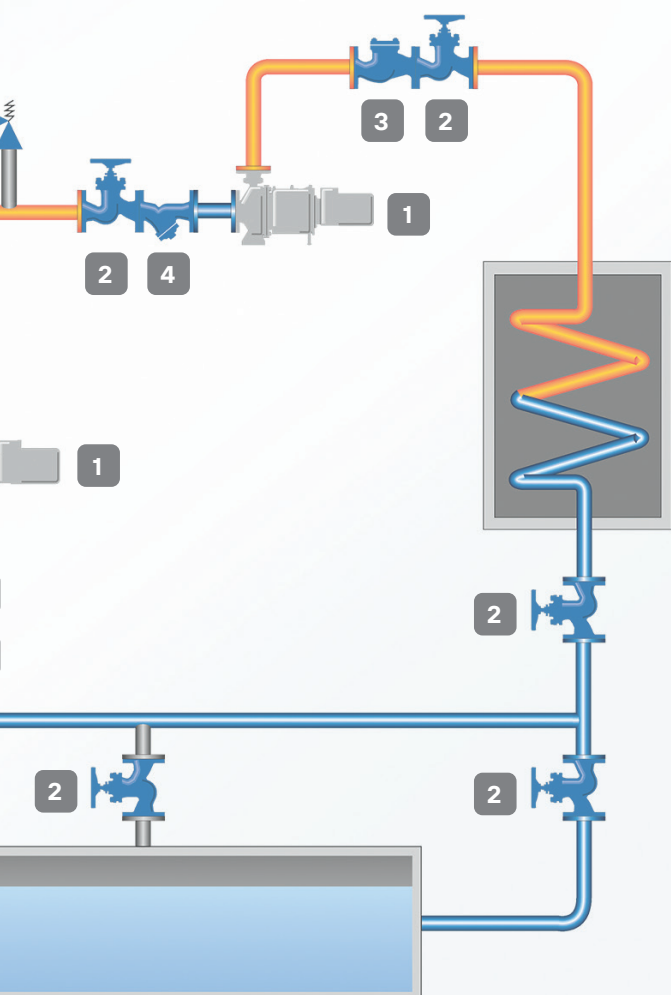
Maximum Support – Whenever You Need It

Reliable pumps and valves are essential to any heat transfer system, but KSB goes far beyond supplying equipment. Backed by decades of experience in heat transfer engineering, we deliver products that meet the highest standards of quality, performance, and safety, while supporting customers from early planning through the entire project lifecycle.

Fast response times, transparent communication, and dependable performance define the KSB experience. We deliver the safety and reliability you can count on.

Applications:

- Wood & Paper Industry
- Marine & Offshore Technology
- District Heating Systems, Building Services
- Bitumen & Tar Processing Industry
- Textile Industry, Laundries
- Food Industry
- Metal Processing Industry
- Oil Industry
- Chemicals, Petrochemicals, Plastics Industries



1 Pumps:

- Etanorm, Etaline, Etabloc SYT
- Etanorm RSY
- HPK-L
- RPH
- Magnochem, Magnochem Bloc

2 Shut-off valve:

- NORI 40 ZYLB / ZYSB
- BOA-H
- TRIODIS 150-600

3 Non-return valve:

- NORI 40 RXL / RXS
- BOA-R
- SERIE 2000 Class 150-300

4 Strainer:

- NORI 40 FSL / FSS
- BOA-S

KSB pumps are designed to efficiently circulate heat transfer fluids, ensuring precise temperature control across various industries. We deliver consistent product quality you can trust.



A Standout Heat Transfer Fluid Pump: The Etanorm SYT

With its unique product range and first-class technical features, KSB sets standards in the field of heat transfer fluid pumps. Our products and services cover solutions for all system conditions and safety requirements. A special highlight is the Etanorm SYT, a premium pump that has proven its worth around the world.

Etanorm SYT is the ideal solution whenever thermal fluids must be conveyed safely and efficiently. The pump is a true all-rounder, equally suited for handling mineral and synthetic thermal oils. Its highly effective venting chamber VenJet provides maximum operating reliability. The vent valve separates gases contained in the fluid from the liquid and collects them in a dedicated space. In this way, the gases can be eliminated in a controlled manner using a screw plug.

The SYT can also be supplied with a double mechanical seal and bearings to meet the highest demands for operating reliability and safety.

Maximum Operating Reliability

- Highly effective venting chamber ensures optimum venting
- Confined gaskets
- Option for double mechanical seal in tandem arrangement
- Anti-seize carbon plain bearing lubricated by the pumped fluid

Easy to Service

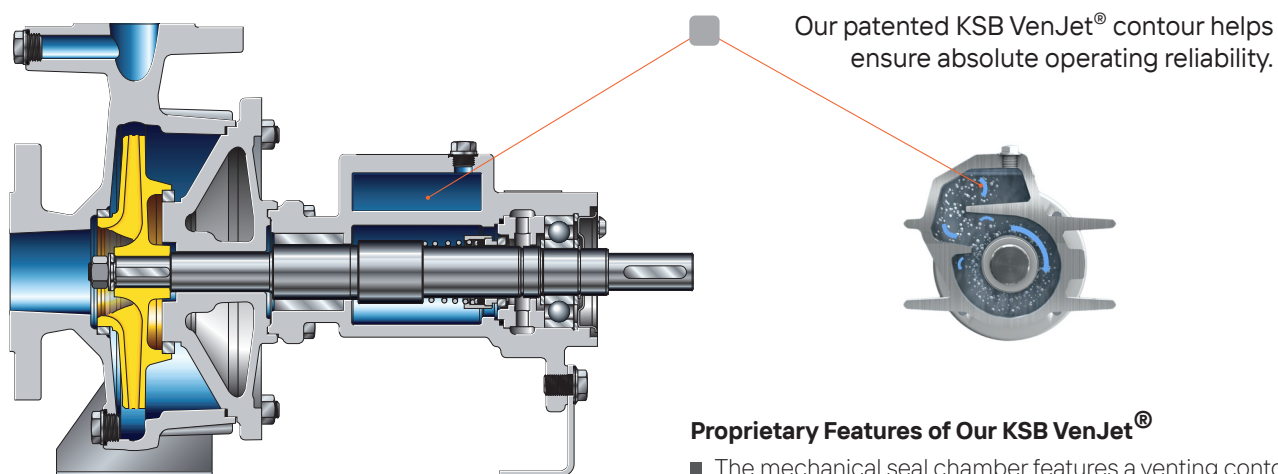
- Replaceable casing wear rings
- Easily dismantled bearing bracket

Unmatched Durability

- Sturdy discharge cover designed for high rigidity
- Optimized heat barrier, little wear

Energy Efficient

- Optimized hydraulic system for high efficiency
- Each impeller trimmed to match the specified duty point



Proprietary Features of Our KSB VenJet®

- The mechanical seal chamber features a venting contour comprising two casing ribs extending into the chamber
- The venting contour has proven its ability to reliably separate gas during pump operation
- The gas collects in the space created by one of the two casing ribs

Etanorm SYT / RSY



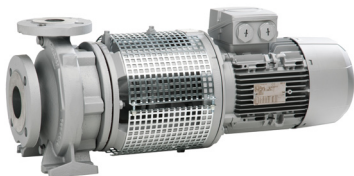
Horizontal volute casing pump in back pull-out design, single-stage, with integrally cast pump feet, replaceable casing wear rings, closed radial impeller with single or double mechanical seal.

For handling mineral and synthetic thermal oils. Can be automated with a PumpDrive variable speed system.

Technical data:

Flange [in.]	1 to 8"
Q [GPM]	3,317 max.
H [Ft]	331 max.
p [psi]	232 max.
T [°F]	662 max. (oil) 356 max. (water)

Etabloc SYT



Close-coupled volute casing pump for horizontal or vertical installation, back pull-out design, single-stage, with replaceable casing wear rings, integrally cast pump feet, closed radial impeller with single mechanical seal.

For handling mineral and synthetic thermal oils. Can be automated with a PumpDrive variable speed system.

Technical data:

Flange [in.]	1 to 4"
Q [GPM]	1,482 max.
H [Ft]	324 max.
p [psi]	232 max.
T [°F]	662 max. (oil) 356 max. (water)

Etaline SYT



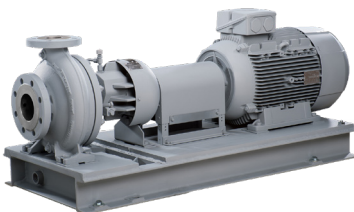
Horizontal or vertical in-line, single-stage volute casing pump, back pull-out design, with replaceable casing wear rings, closed radial impeller with single mechanical seal.

For handling mineral and synthetic thermal oils. Can be automated with a PumpDrive variable speed system.

Technical data:

Flange [in.]	125 to 4"
Q [GPM]	1,390 max.
H [Ft]	331 max.
p [psi]	232 max.
T [°F]	662 max. (oil) 356 max. (water)

HPK-L



Horizontal radially split volute casing pump in back pull-out design, single-stage, single-entry. Equipped with heat barrier, seal-chamber air-cooled by integrated fan impeller, no external cooling.

For handling mineral and synthetic thermal oils in systems with operating pressures of up to 40 bar. Can be automated with a PumpDrive variable speed system.

Technical data:

Flange [in.]	1 to 12"
Q [GPM]	6,160 max.
H [Ft]	765 max.
p [psi]	580 max.
T [°F]	752 max.

All data for 60 Hz operation

RPH



Horizontal, radially split volute casing pump in back pull-out design to API 610, ISO 13709 (heavy duty).

Suitable for handling mineral and synthetic thermal oils. For use in systems to API specifications.

Technical data:

Flange [in.]	1 to 16"
Q [GPM]	22,014 max.
H [Ft]	886 max.
p [psi]	1,595 max.
T [°F]	842 max.

Magnochem



Sealless pump with magnetic coupling, single or double volute, radially split casing with integrally cast pump feet, replaceable casing wear rings.

Pump with magnetic coupling for higher reliability and safety in operation, zero leakage and longer service intervals.

Technical data:

Flange [in.]	1 to 10"
Q [GPM]	6,160 max.
H [Ft]	764 max.
p [psi]	580 max.
T [°F]	752 max.

Magnochem Bloc



Sealless pump with magnetic coupling, single or double volute, radially split casing with integrally cast pump feet, replaceable casing wear rings.

Pump with magnetic coupling for higher reliability and safety in operation, zero leakage and longer service intervals.

Technical data:

Flange [in.]	1 to 10"
Q [GPM]	6,160 max.
H [Ft]	764 max.
p [psi]	580 max.
T [°F]	392 max.

All data for 60 Hz operation



With a focus on quality down to the smallest detail, safety, reliability, and customer satisfaction are top priorities in KSB's quality assurance.

Uncompromising Reliability: Valves Made by KSB

Complementing our heat transfer fluid pumps, KSB offers a full range of valves engineered to work seamlessly with our pump portfolio. Across demanding processes, these valves deliver dependable performance where robustness, versatility, and precision are essential. Our shut-off and non-return valves integrate perfectly with KSB pumps, enabling complete system solutions — all from a single source.

Extreme temperatures, high pressures, and aggressive fluids place exceptional demands on valves. KSB meets these challenges with products designed for every requirement. Our shut-off valves include globe and butterfly designs in all common materials, suitable for the full range of operating conditions.

Hydraulically optimized flow paths, ease of service and installation, and uncompromising safety and reliability reflect decades of expertise and continuous product development in heat transfer engineering.

Our valves

Type of product	Design	KSB products	Material		Temperature			Pressure class		
			Steel	Nodular cast iron	Up to 662°F	Up to 801°F	Up to 842°F	PN 16–25	PN 16–40	PN 20–50
Shut-off valves	Bellows-type globe valves	NORI 40 ZYLB/ZYSB	●				●		●	
		BOA-H		●	●			●		
	Butterfly valves	TRIODIS 150–600	●				●	●		
Non-return valves	Lift check valves	NORI 40 RXL/RXS	●				●		●	
		BOA-R		●	●			●		
	Swing check valves	SERIE 2000 Class 150–300	●			●				●
Strainers	Strainers	NORI 40 FSL/FSS	●				●		●	
		BOA-S		●	●			●		

BOA-H**Flanged end bellows-type globe valve made of nodular cast iron**

Shut-off valve for absolute safety and reliability in continuous operation, energy efficiency and user-friendliness even at the highest temperatures, to ensure optimum handling in heat transfer fluid systems. The short bonnet can be fully insulated and absolutely minimizes the valve's heat losses.

p [psi] 230/360
DN [in.] 1/2" - 14"
T [°F] 15 to 660

**BOA-S****Flanged-end, nodular cast iron strainer with standard or fine mesh**

Designed as the ideal complement to KSB's BOA valves.

p [psi] 230/360
DN [in.] 1/2" - 12"
T [°F] 15 to 660

**NORI 40 RXL/RXS****Flanged or weld-end non-return valve made of cast steel**

The NORI 40 non-return valve features a proven design for demanding heat transfer fluid applications. Like all valves in the NORI 40 series, it ensures reliable operation and seamless integration with KSB's system solutions.

p [psi] 360/580
DN [in.] 3/8" - 12"
T [°F] 15 to 840

**TRIODIS 150 - 600****Triple-offset butterfly valve made of cast steel**

This high-performance shut-off valve fulfills the highest standards, providing absolute tightness, safety, reliability, and ease of service.

p [psi] 360
DN [in.] 2" - 24"
T [°F] 15 to 840

**BOA-R****Flanged end non-return valve made of nodular cast iron**

Non-return valve of time-tested design for demanding applications in heat transfer fluid transport.

p [psi] 230
DN [in.] 1/2" - 12"
T [°F] 15 to 660

**NORI 40 ZYLB / ZYSB****Flanged or weld-end bellows-type globe valve made of cast steel**

The NORI 40 bellows-type globe valve provides enhanced safety and optimized flow in high-temperature applications. Its features include double-walled stainless steel bellows, back-up gland packing of pure graphite, a fully confined bonnet gasket, and a hard-faced valve seat.

p [psi] 360/580
DN [in.] 1/2" - 12"
T [°F] 15 to 840

**NORI 40 FSL / FSS****Flanged or weld-end cast steel strainer (standard or fine mesh)**

The NORI 40 strainer is designed to work seamlessly with KSB's shut-off valves. Available in types FSS (weld ends) and FSL (flanged ends), it shares the same safety and quality features as the proven shut-off valves, meeting high safety standards and offering long service life. As an option, the strainer can be fitted with magnetic inserts to filter out metal particles.

p [psi] 360/580
DN [in.] 1/2" - 12"
T [°F] 15 to 840

**SERIE 2000 Class 150 - 300****Dual-disc valve, single-piece body made of cast steel**

This high-performance non-return valve meets the toughest requirements. Its single-piece, maintenance-free cast steel body provides a high degree of mechanical strength and corrosion resistance, while the spring-loaded gasket ensures long service life and tightness. Low weight and compact design make the valve easy to install and maintain.

p [psi] 290/725
DN [in.] 2" - 24"
T [°F] -320 to 800



PumpDrive VFD

Helping you achieve optimal efficiency

KSB offers specialized variable frequency drives (VFD) under the PumpDrive line, designed for demand-driven, energy-efficient control of asynchronous and synchronous reluctance motors in pumping systems.

These self-cooling inverters offer continuous speed control, reducing energy consumption and enabling precise pressure or flow management in industrial applications.



KSB Leakage Sensor

Increased operating reliability

The KSB Leakage Sensor is an intelligent monitoring system for measuring and displaying mechanical seal leakage on site. It comprises a leakage measuring instrument and a display unit.

Using an integrated analog interface, the sensor transmits recorded data to existing process control systems, enabling centralized monitoring and management.

KSB Guard

Smart monitoring for your pumps

KSB Guard provides continuous monitoring of vibration and temperature, early indicators of developing pump or system issues. Data is reviewed by experts at the KSB Monitoring Center, enabling rapid detection of abnormalities and early identification of root causes.

Whether the concern involves bearings, alignment, or other hydraulic components, KSB specialists deliver timely recommendations and a clear action plan. By catching problems early, KSB Guard helps prevent costly failures and keeps your system running reliably.





KSB – Your Partner for Hot Oil & Thermal Fluids Applications



PUFFER Rotating Equipment

Pumps & Parts ▪ Pump Skids ▪ Repairs & Services

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