

The SYT Range for Thermal Oil and Hot Water Applications



Etanorm SYT

Applications:

- Heat transfer systems (DIN 4754, VDI 3033)
- Hot water circulation

More information:

www.ksb.com/products



Etanorm SYT



Etaline SYT



Etabloc SYT



Etanorm RSY

The SYT Range for Thermal Oil and Hot Water Applications

Reliability and safety

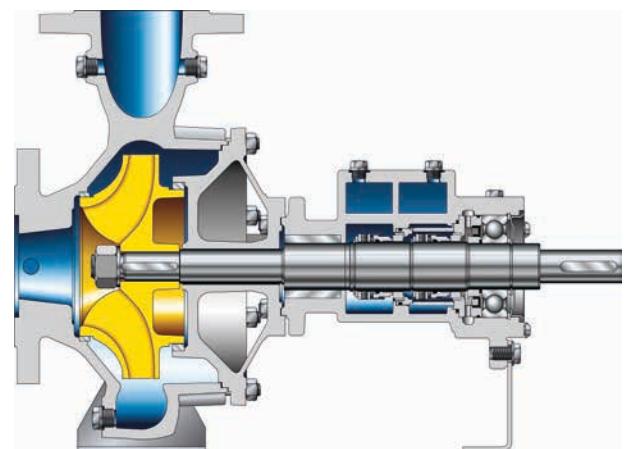
- Designed to deliver reliable operation with mineral and synthetic thermal oils up to 350 °C
- Reliable venting during pump operation thanks to patented KSB VenJet® technology
- KSB single mechanical seals and double mechanical seals in tandem arrangement with quench system deliver maximum operating reliability.
- More safety and reliability enhancing features: additional shaft seal ring; special contour ensuring reliable removal of fluid leakage at the mechanical seal; resistant bearings packed with special grease; confined sealing elements and effective heat barrier

Ease of monitoring and servicing

- Continuous leakage monitoring by KSB Leakage Sensor using mechanical measurement principle. This allows maintenance to be planned and avoids unscheduled downtimes – Predictive maintenance
- Best possible maintenance and low pump repair costs due to casing wear rings and forcing screws
- Service-friendly back pull-out design allows casing to remain in the system during maintenance.
- Standard connections for vibration and temperature measurement. Sensor kit can be ordered together with the pump.

Customisable and efficient

- Meeting individual requirements with maximum efficiency: impeller trimming as standard; variable speed operation / intelligent control by KSB frequency inverters and a wide range of KSB motors up to IE5; high level of hydraulic efficiency verified experimentally and by CFD.
- The „cracked-joint“ design of the coupling hubs enables straightforward assembly and dismantling of the coupling. The double Cardan coupling provides even better compensation for shaft offset (optional).
- The fan impeller ensures efficient cooling (optional for Etanorm SYT).
- Wide range of applications possible: EN PN 16 & ASME; ATEX-compliant version available; plain bearings available in carbon/SiC and SiC/SiC (for demanding fluids); certified for marine applications to DNV GL



The information provided mainly refers to Etanorm SYT, different data may apply to other type series.

Materials

Volute casing	EN-GJS-400-15 / 536 GR 60-40-18
Discharge cover	EN-GJS-400-15 / 536 GR 60-40-18
Shaft	1.4021 + QTHRC55
Impeller*	EN-GJL-250 / A 48 CL 35B
Casing wear rings GG	
Bearing bracket	EN-GJS-400-15 / 536 GR 60-40-18

* Impellers secured by Nord-Lock washers

Technical data**

Flow rate up to		Etabloc SYT	Etaline SYT	Etanorm SYT/RSY
Head up to		280/337	316/228	1,900/2,280 m ³ /h
Fluid temperature	Thermal oil	-30 to +350	-30 to +350	-30 to +350 °C
	Hot water	-30 to +180	-30 to +180	-30 to +180
Operating pressure up to		16	16	16 bar

** Data for 50 Hz/60 Hz

Optional automation with PumpDrive



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