Technical Information



Hydraulic Features

BRINKMANN's program of coolant pumps offers appropriate design approaches for different applications.

Based upon the centrifugal pump system, we offer immersed pumps with open, semi-open and closed impellers for different coolants.

Patented quick suctioning pumps series TL, SAL, SFL, SGL and SZG are provided for handling of air entrained coolants.

Vortex pumps series SFT and lifting pumps series SFL are suitable for coolants with heavy chip loads.

Suction immersion pumps Series TAS/STS make it possible to connect to vacuum filters because of their single connection on the suction side (for instance, with a wedge wire).

Lifting pumps series TAA pump are for foam-sensitive cooling lubricants.

Immersion pumps series (S)TC, (S)TH for medium pressure get optimal hydraulic efficiency due to their closed impellers; simple pre-filtration is recommended.

High pressure in coolant systems is provided by screw pumps using longwearing silicon carbide housings. Please contact us to provide additional information about working conditions in your devices.

Please note that with all immersion pumps, the highest fill level of coolant should stay a few inches below the mounting flange.

The pump characteristics, shown in this brochure, apply to water at 20 °C (1 mm²/s). Higher viscosities need larger motors. Coolants with specific weight of less than 1 need less power and more than 1 need more power.

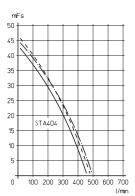
Centrifugal pump pressure is stated as delivery head in metres (m).

The diagrams of immersion pump types STA404; with semi-open impellers, and STC63/560, with closed impellers, show the rates for coolants of different viscosities and different specific weights in m and bar respectively.

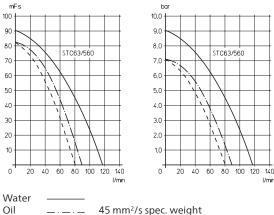
Noise levels refer to 50 Hz operation.

The viscogram shows examples of common oils. Upon request, oil curves for specific pumps can be provided.

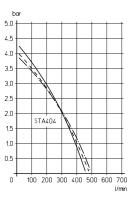




STC63 with closed impellers







STC63/560

