Our multistage pump models (S)TC25 to (S)TC460 have been especially developed to supply internally cooled tools with coolant fluid.

Closed impellers provide optimal hydraulic efficiencies while minimizing power consumption.

A frequency converter can be supplied for special applications or for matching the pump characteristic to a specific duty point. See page "Control/Regulation" in the Technical Information section of this catalog for further information.



(S)TC63

SAE Flange for TC Pumps

Upon request all TC pumps are available with an SAE flange. The flange allows for either vertical or horizontal pipe connection and offers a NPT 1/4 (G 1/4) pressure gauge connection port. A surcharge applies for pumps ordered with SAE flange.

Number of Stages

(S)TC pump curves are determined by the number of impeller used within the pump.

Within the range the immersion depth can be extend up to the maximum mentioned length.

Extended immersion depth

Original immersion depth

60 Hz

Example: STC63S350-750

Pump suction with threaded inlet

The TC25 to TC160 series pumps are also available with threaded suction ports upon request. This feature increases the standard immersion depth by 1.57 inch (40 mm).



Type Designation

S

270 - 750

(S)TC63

Series (S)TH and FH use closed impellers in order to minimize power consumption and to optimize hydraulic pump efficiencies. In addition, the (S)TH series offers high pressures at short immersion depths. Inline pumps of the series FH can be used as boosting pumps if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 375 PSI (26 bar).

A **frequency converter** can be supplied for **special applications** or for matching the pump characteristic to a specific duty point. See page "Control/Regulation" in the Technical Information section of this catalog for further information.





(S)TH

FH

SAE Flange for TH Pumps

Upon request all TH pumps are available with an SAE flange (STH). The flange allows for either vertical or horizontal pipe connection and offers a NPT ¼ (G ¼) pressure gauge connection port. A surcharge applies for pumps ordered with SAE flange.

Number of Stages

(S)TH/FH pump curves are determined by the number of impeller used within the pump.

Within the range the immersion depth can be extend up to the maximum mentioned length.

Example: STH203S690 (3 impeller, 27.17 inch / 690 mm immersion depth)

Type Designation



Leakage chamber / Leakage connections



Small leaks flow back through the leakage chamber into the tank without reaching the outside.

By connecting a leakage line it is possible to direct minor leaks back into the tank.

Operation of (S)TH/FH pumps in grinding applications

Grinding versions (S)TH/FH pumps (-E). (S)TH/FH series pumps can be supplied upon request as a special grinding version for applications with heavy loads of abrasive particles (>50HRC). Ordering description: e.g. TH224A590-E In this version pumps are supplied without internal diffusor gaskets in order to prevent increased wear caused by the abrasive particles in the fluid. As a result, however, the internal losses of the pump increase and the pump curves are reduced.

These curves are available upon request.

Examples for pressure boosting: TH632A890 + FH632A89 in tandem-arrangement



Examples for pressure boosting: FH616A49 + 4 bar of positive head from central coolant supply



FH616A49



Subject to alteration



Operation of (S)TH / FH Pumps outside of the recommended flow rate ranges

Operation of (S)TH and FH pumps **outside of the recommended flow rate ranges** and within the perforated zones of the pump curves can lead to premature damage and failure of pump components. Therefore, we recommend the use of the reinforced versions of these pump models when operation in the perforated zones of the curves is present, i.e. during temporary pump operation through a bypass with very low flow rates.

Ordering description: e.g. TH224A590-Q

Example: (S)TH2



(S)TH2

