

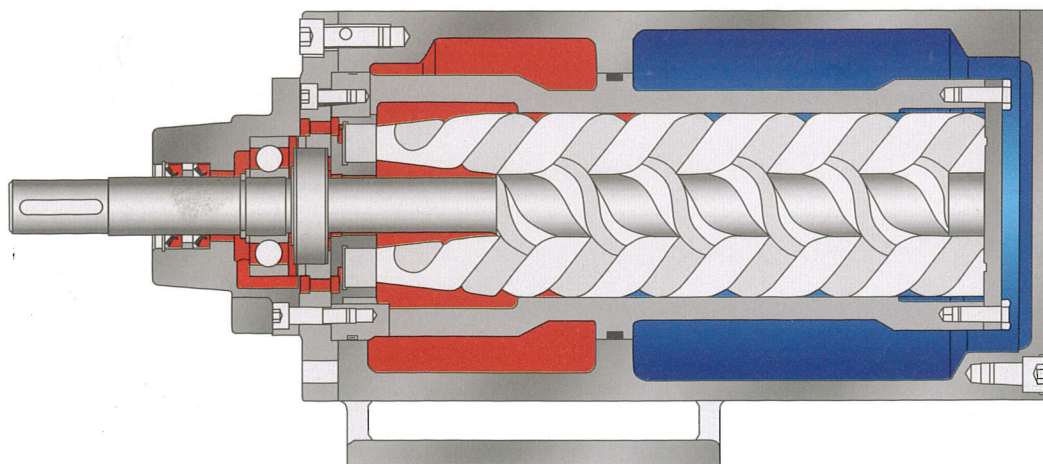


Three-screw high-pressure pumps

The three-screw pumps of FAC, FAD, FAT series are intended for clean viscous self-lubricating liquids forced pumping. Their main application may be found in high-pressure hydraulic oil systems of all kinds, e.g. with presses, machine-tools and forming and/or shearing machines, lifts and further lifting equipment, boiler house auxiliary systems, turbine governors, turbo-compressors, paper and/or printing machines, etc. These pumps are also available for hydraulic drives, provided that there only unidirectional rotary motion is required. They are intended for delivering standard sorts of lubricating and/or engine oils and even viscous stuffs having lubricating capacity but without solids and corrosive effects, neither congealing nor crystalizing. The serie of pumps FAT is provided with a heating shield and a plate for delivering heavy and /or light oils and mazoutes. The pumps are designed for maximum temperature of pumped liquid up to 180 °C. The pumps can be supplied either as clockwise or counterclockwise. Kinematic viscosity of a pumped liquid ranging from 2.5 to 1 500 mm².sec⁻¹. The design of the FAC and FAD pumps makes possible to replace inner pump parts with complete subassembly delivered under the code FAG or FAH as the spare part. The pumps can be also supplied in the workmanship with integral safety valve.

FAC

The pumps design and functioning are very simple and reliable. They may be noted for their performance stability, continuous supply of a liquid and noiseless running. As the pump basic functional part the three screws mounted into an exchangeable cartridge being pressed in the pump casing may be considered. For lubrication of all friction areas and the pump bearing there a pumped liquid is used. In accordance with operational conditions those pumps may be provided with radial lip seal ring „Gufero“ for temperatures of a pumped liquid up to 90 °C or soft cord-type packing or mechanical seal for temperatures up to 180 °C.



Pump FAC longitudinal section

The pump casing is made of cast carbon steel, the screws are of heat-treated carbon steel, the cartridge is of aluminium-base alloy and bearing housing, bearing flange and suction shield are of grey cast iron. The pumps FAC are delivered together with an electric motor on a common base plate, work in horizontal position. Those pumps rotate clockwise, as viewed from the drive side. Counterclockwise version of those pumps may be supplied on the customer request.

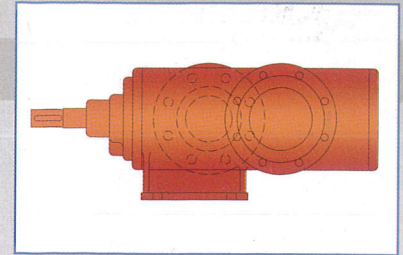
PUMP SERIES

PERFORMANCE DATA

FIGURE

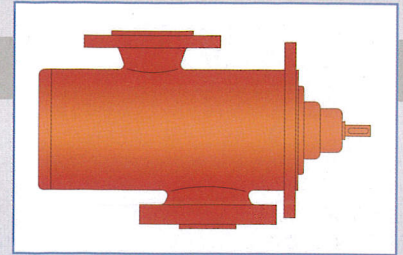
FAC

Flow rate	max. 966 L/min
Delivery pressure	max. 63 bars
Temperature	max. 180 °C
Number of screws	3
Speeds	max. 2900 R.P.M.
Max. Output	114 kW
Weight	75 - 190 kgs



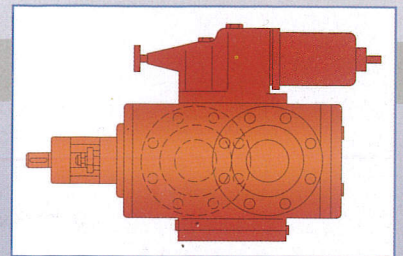
FAD

Flow rate	max. 966 L/min
Delivery pressure	max. 63 bars
Temperature	max. 180 °C
Number of screws	3
Speeds	max. 2900 R.P.M.
Max. Output	114 kW
Weight	21 - 186 kgs



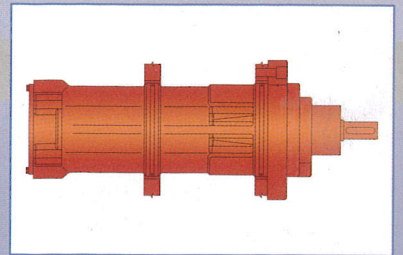
FAT

Flow rate	max. 460 L/min
Delivery pressure	max. 40 bars
Temperature	max. 180 °C
Number of screws	3
Speeds	max. 2900 R.P.M.
Max. Output	54 kW
Weight	40 - 132 kgs



FAG

Flow rate	max. 966 L/min
Delivery pressure	max. 63 bars
Temperature	max. 180 °C
Number of screws	3
Speeds	max. 2900 R.P.M.
Max. Output	114 kW
Weight	44 - 100 kgs



FAH

Flow rate	max. 966 L/min
Delivery pressure	max. 63 bars
Temperature	max. 180 °C
Number of screws	3
Speeds	max. 2900 R.P.M.
Max. Output	114 kW
Weight	5.5 - 104 kgs

