

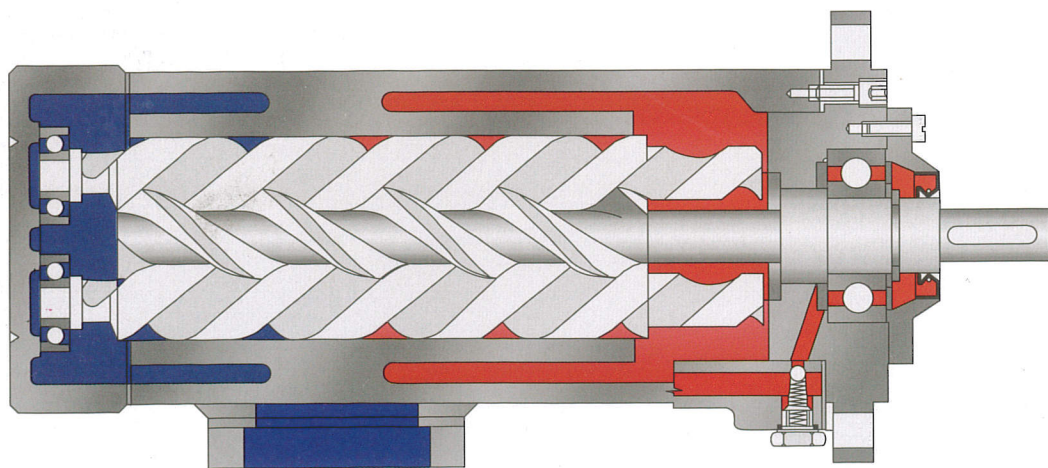


## Three-screw low-pressure pumps

The three-screw low-pressure pumps of the series EAB and EAD are intended for clean oils forced pumping in various lubricating, cooling and low-pressure oil hydraulic systems of machinery and further equipment. They may also deliver further self-lubricating non-corrosive liquids without solids. Those pumps are available for gearboxes, diesel engines, steam turbines, compressors, machine tools, and so on. According to a drive version and their application these pumps are available in two basic workmanships. Workmanship EAB is intended for direct drive from the respective machine with the aid of a gearing. That pump is of sealless type, so that oil leakage may flow back to the machine on which that pump has been fitted. The pump shaft drive end is of a tapered type. Workmanship EAD is direct driven by electric motor, coupled to pump with a flexible coupling. Shaft seal is formed by a radial lip seal ring „Gufero“ or a mechanical seal can be used. The pump and motor are flange mounted on a common foot mounted lantern bracket. The maximum delivery pressure is 10 bars, temperature up to 80°C. Kinematic viscosity of a pumped liquid ranging from 21.5 to 385 mm<sup>2</sup>.sec<sup>-1</sup>.

### EAD

Pumps EAB and EAD are of positive-displacement rotary threescrew type, with circular fixing flange. As the pump basic functional part there are three screws, the middle of which is the driving one, two idle screws are driven by mutual engagements. Axial force of driven screws is taken up by rolling-contact bearings. Lubrication of all friction areas is with a pumped liquid. Pumps work reliably in both vertical and horizontal positions. The pumps may rotate both clockwise and counterclockwise with unchanged arrangement of suction and discharge branches, considering direction of a pumped liquid flow. Sense of rotation shall be determined from the drive side. That pump may be used for the only one sense of rotation - for reverse sense of rotation it is necessary to use other screws with reverse lead of an helix.



Pump EAD longitudinal section

Pump casing, suction and discharge shields are of grey cast iron, screws are of heat-treated carbon steel. Flanges of suction and discharge branches are provided according to SAE Standards. The pumps are not provided with in-built safety valve. To prevent hazardous overloading due to pressure rise it is necessary to protect the pump with an external relief safety valve.

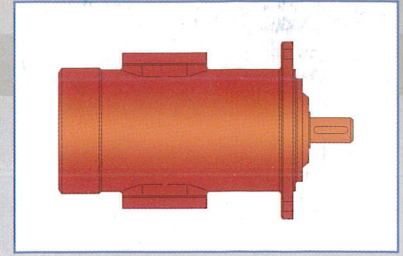
PUMP SERIES

PERFORMANCE DATA

FIGURE

EAD

Flow rate	max.1390 L/min
Delivery pressure	max. 10 bars
Temperature	max. 80 °C
Number of screws	3
Speeds	max. 2900 R.P.M.
Max. Output	52 kW
Weight	10 - 85 kgs



EAB

Flow rate	max. 1390 L/min
Delivery pressure	max. 10 bars
Temperature	max. 80 °C
Number of screws	3
Speeds	max. 2900 R.P.M.
Max. Output	52 kW
Weight	10 - 85 kgs

