# Main Characteristics

## Installation Data
- **Installation**: Indoor or outdoor
- **Environment**: Industrial, marine
- **Ambient temp. Min./max.**: -25°C (storage only) / 0 to 60°C (operating)

## Operating Data
- **Handled fluid**: Hydraulic and Lube oils
- **Suggested inlet strainer filtration**: 400 µ for sizes up to 072, 800 µ for 083 and bigger sizes
- **Viscosity range**: 10 to 1500 cSt
- **Pump speed**: 750 to 3600 rpm
- **Rotation (viewed from coupling end)**: Clock Wise (Standard version); Counter Clock Wise on demand

## Technical Characteristics
- **Design code**: API 676 latest edition
- **Delivery flow**: 10 to 5400 lpm
- **Suction Pressure /max MIN**: as per NPSH chart @ pag. 21 / MAX: 10 barg
- **Delivery pressure**: UP to 30 bar ≤ size 072 / UP to 20 bar ≥ size 083
- **Operating temperature range**: 0 to 70°C; 120°C max
- **Casing design / hydrotest press.**: Standard 16 bar / 24 barg
- **Seal**: Mechanical seal – API code USPFN
- **Bearing type**: Radial ball on main shaft
- **Bearing lubrication**: By pumped fluid
- **Driver type**: VAC electric motor or Steam turbine for main and auxiliary service, VDC electric motor for emergency service
- **Driver shape**: PCX > horizontal on foot IM1001 (B3) or direct coupled to secondary shaft
- **Inlet & Outlet Connection**: Standard ANSI 150 B16.5
- **Pressure relief valve**: BUILT-ON pressure relief valve available on demand (internal or external recirculation)

## Materials
- **Casing/Flanges**: Carbon Steel or Stainless Steel
- **Screws**: Nitrided Steel
- **Liner**: Cast Iron GG25 or Carbon Steel
- **O-rings**: Viton ®
- **Surface protection**: Sand Blasting SA 2.5 + Inorganic Primer 75µ; Painting cycles on demand

## Approval ATEX for Use in Explosive Atmospheres