APLICATION

- pure (see working conditions), active and neutral chemical liquids, combustibles – dangerous for staff and environment
- pumped liquid must be ferromagnetic particles-free!
- chemical, petrochemical, pharmaceutical and processing industry

WORKING CONDITIONS

- medium temperature from -40 °C to +80 °C (150 °C)
- working pressure of 16 bars (PN 16)
- medium density from 600 kg.m\(^{-3}\) to 1600 kg.m\(^{-3}\)
- kinematic viscosity from 0.3 to 75 mm\(^2\).s\(^{-1}\)
- pH 0-14
- content of solid particles up to 2% of weight
- particle size up to 0.1 mm, max. hardness of 700 HV

TYPE IDENTIFICATION

65-40-NCBV-250-10-YC-000-09

CONSTRUCTION

- hydraulic parameters acc. to ČSN EN 22858
- 30 sizes of normalized, hydrodynamic, medium-pressure pumps, other sizes consult with the manufacturer
- developed from META series - vertical, centrifugal, single-stage, volute-type pumps with an axial intake and radial outlet
- pressure chamber consisting of a volute, cover and magnetic coupling cover - hermetically separates medium from drive shaft and bearings
- volute is firmly connected to the base plate by split spacer tube, in which is located drive shaft
- closed impeller with one or two sealing rings design placed briefly on a protruding end of inner shaft
- outer split shaft seated in spacer tube in single row roller bearings lubricated with grease, no contact with medium
- inner shaft in sliding sleeve lubricated and cooled with pumped medium, in special cases in ceramic roller bearings
- torque transmission with permanent magnets of magnetic coupling from outer to inner shaft and impeller
- flanges PN 16 acc. to ČSN EN 1092-1 and 2/ISO 70005-1 and 2
- other options consult with the manufacturer (cooling, heating, nozzle flanges)

MATERIAL SPECIFICATION

The above table states the basic material specifications, if applicable, other material combinations optional depending on pumped medium.
**MAGNETIC COUPLING DESIGN**

- magnetic coupling with roller assembly
- magnetic coupling with slide assembly
- heated magnetic coupling with slide assembly

**MOTORS**

- flange-type el. motor drive
- driving force is transmitted using flexible coupling
  - flexible coupling with a spacer
  - flexible coupling without spacer
- base plate
  - circular
  - rectangular
  - square
  - acc. to the customer

**BASIC DIMENSIONS**

- magnetic coupling with roller assembly
- magnetic coupling with slide assembly
- heated magnetic coupling with slide assembly

More accurate and detailed data will be provided for each specific offer or after previous technical clarification. Other sizes after assessment of the manufacturer.