

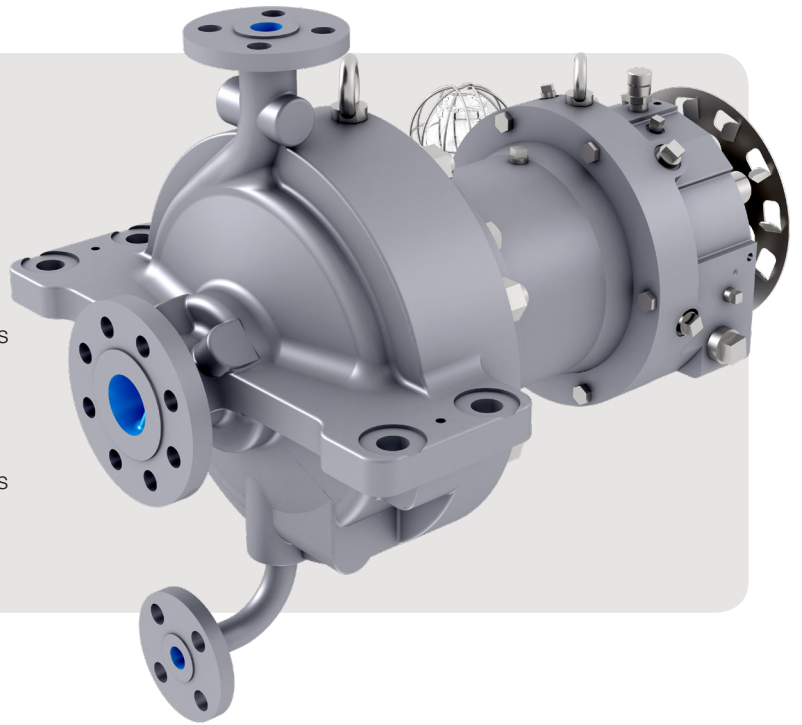


# HPX-Mag Magnetic Drive Process Pump

## Balancing sustainability, reliability and efficiency

The HPX-Mag sealless pump from Flowserve sets a new industry benchmark for magnetic drive pump performance, efficiency and value. It fully complies with API 685 standards and provides a zero-emissions solution for environmentally critical applications.

The HPX-Mag pump represents the most comprehensive range of hydraulic coverage available to the industry, so users can select the correct pump to meet their efficiency desires and application needs.



### Typical applications

- Petroleum refining, production and distribution
- Petrochemical and chemical processing
- Difficult-to-seal liquids
- Toxic, aggressive or flammable liquids
- High-temperature applications
- Gas industry services
- Biofuels
- Boiler circulation
- Power plants
- General industrial

### Operating parameters

- Rated flows to 1000 m<sup>3</sup>/h (4400 gpm)
- Heads to 300 m (985 ft)
- Standard pressures to 42 bar (600 psi)\*
- Temperatures from -29°C to 300°C (-20°F to 570°F)\*

\* Higher pressures or temperatures on request



## Features and benefits

**Leakage-free containment shell** made from alloy C4 material delivers high-efficiency performance and high corrosion resistance. The robust construction meets or exceeds API 685 requirements, ensuring zero emissions in difficult-to-seal, toxic, aggressive and flammable liquids.

**Hermetically sealed internal flushing system** cools the magnet area and lubricates the sleeve bearings, eliminating the need for mechanical seals and external flushing systems.

**Dynamic thrust balancing system** eliminates the need for mechanical thrust bearings and increases pump reliability, longevity and efficiency while reducing operating costs.

**Back pullout design** simplifies maintenance activities, as neither the motor nor the piping is disturbed.

**High-torque magnets** made of rare earth samarium-cobalt eliminate slippage and enable high-temperature resistance.

**Centerline-supported pump casing** withstands nozzle loads beyond API 685 design requirements. The suction nozzle guide vane reduces inlet vortexing and ensures uniform flow into the impeller to achieve a reliable NPSH margin.

**Precision cast impeller** is dynamically balanced to limit vibration and assure smooth operation over a wide flow range. The impeller is secured by a set screw and a locknut, which are not exposed to the fluid.

**Renewable casing and impeller wear rings**, which are secured by set screws or tack welds, reduce replacement parts costs.

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