

Transpumpserv Global Pvt. Ltd.

MagnoDrive (TdrivX) – Sealless Magnetic Drive Pumps

Description

MagnoDrive (TdrivX) is a high-performance sealless magnetic drive pump engineered for leak-free handling of hazardous, aggressive, and toxic liquids. By eliminating mechanical seals, it ensures zero emissions, enhanced safety, and reduced maintenance costs—making it ideal for hazardous chemical transfer, solvents, and corrosive applications.

The magnetic coupling transmits torque from the drive to the impeller through a containment shell, ensuring complete isolation of the pumped liquid from the environment.

Key Design Features

- Sealless magnetic drive construction – no mechanical seal required
- Zero leakage design for hazardous & toxic liquids
- ISO 2858 / DIN 24256 standardized dimensions
- API 685 compliant versions available for petrochemical service
- Heavy-duty containment shell in metallic or non-metallic material
- Back-Pull-Out design for simplified servicing
- Optional secondary containment for double safety

Magnetic Drive Technology

- Powerful rare-earth magnets for torque transmission
- Containment shell: Metallic (Hastelloy, SS) or Non-metallic (PEEK, Ceramic lined)
- Dry-run protection systems available
- Torque overload protection to prevent decoupling
- Optional leak detection system for maximum safety

Bearings and Certifications

- Hydrodynamic bearing design lubricated by pumped liquid
- Bearing materials: Silicon Carbide, Carbon, PTFE composites
- ATEX certified for explosive environments
- API 685 compliance available on request
- Extended service life even in corrosive and toxic media

Suitable Applications

- Hazardous Chemical Transfer – acids, alkalis, corrosive chemicals
- Solvents & Toxic Liquids – aromatics, ketones, hazardous organics
- Petrochemical & Refining – toxic hydrocarbons, benzene, toluene, xylene
- Pharma & Fine Chemicals – leak-proof transfer of high-value, toxic media
- Environmental & Wastewater – hazardous effluent and treatment chemicals

Technical Specifications

Casing Materials	Stainless Steel 316, Hastelloy, Alloy 20, PVDF lined options
Impeller	SS316, Hastelloy, or engineered thermoplastics
Magnetic Coupling	Rare earth magnets with metallic/non-metallic containment
Max. Capacity	Up to 600 m ³ /h
Max. Head	Up to 120 m
Max. Temperature	Up to 200°C (higher with special materials)
Max. Operating Pressure	Up to 16 bar
Max. Speed	Up to 3,600 rpm

Downloads & Resources

- Technical Data Sheet
- Installation & Operation Manual
- API 685 Magnetic Drive Pump Compliance Guide
- 3D Pump Drawings (on request)