

BEDA^{.flow}

BEDA Flow Systems Pvt. Ltd. is a Joint Venture with VSE Volumentech GmbH, a company of the German Echterhage Holding Fluid Technology Group. **BEDA offers innovative and technically advanced customer specific system solutions for fluid control for the process industries.**

The product line offered by BEDA includes

- ▶ High precision gear flow meters from VSE, Germany
- ▶ Permanent magnetic couplings and agitator drives from DST, Germany
- ▶ External and internal gear pumps for dosing and metering from Beinlich, Germany
- ▶ Variable output radial and axial piston pumps from Rotary Power, Great Britain

VSE^{.flow} measurement

VSE offers a selection of high precision positive displacement gear flow meters.

- ▶ Flow range 0.002...700 l/min.
- ▶ Measuring accuracy up to 0.3 % of measuring value
- ▶ High resolution up to 50,000 pulses/l
- ▶ Viscosity ranges 1...1,000,000 cSt.
- ▶ Max. pressure 450 bar / 6500 psi
- ▶ Temperature ranges -40°C...210°C
- ▶ EX-protection available

VS Series



- ▶ Flow measurement
- ▶ Precision dosing
- ▶ Hydraulic systems
- ▶ Systems monitoring
- ▶ Open / Closed loop control
- ▶ Process control
- ▶ Automotive industry – Test beds
- ▶ Plastics technology

VTR Series



- ▶ Water similar fluids
- ▶ Water
- ▶ Oils
- ▶ Petrochemicals

VHM Series



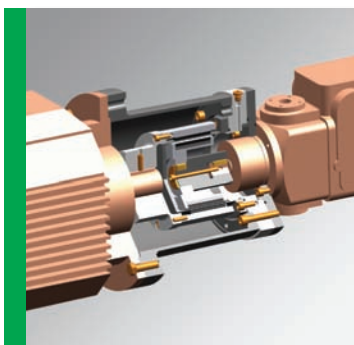
- ▶ Paints, dyes
- ▶ Inks
- ▶ Chemicals
- ▶ Pharmaceuticals
- ▶ 2K machines
- ▶ Petrochemicals

EF Series



- ▶ Lubrication oils
- ▶ Grease
- ▶ Printing inks

DST^{.magnetic} couplings



DST permanent magnetic couplings provide leakage-free transmission for the process industries and are environmentally friendly. Hermetically sealed drives for pumps and agitators prevent any leakage of highly toxic or aggressive media. High torques can be transmitted wear-free through the vessel walls and are prevented from damage. A significant performance advantage of the DST magnetic coupling is the freedom from wear in contrast to dynamic seals. The standard construction range of permanent magnetic couplings is available with torque ratings from 1 Nm to 450 Nm. Customer specific applications on request.

Applications include

- ▶ Chemical industry
- ▶ Pharmaceutical industry
- ▶ Isocyanate and polyol pumps in polyurethane moulding
- ▶ Food industry
- ▶ Biotechnology
- ▶ Industrial ovens
- ▶ Metering and batching machines
- ▶ Hydraulics

DST is at the forefront worldwide in developing permanent magnetic system technologies.



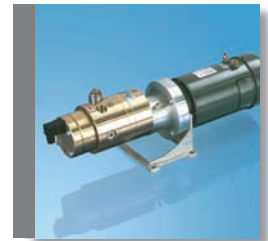
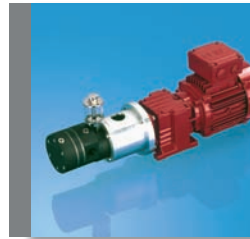
Beinlich manufactures external and internal gear pumps and high pressure radial piston pumps for customer specific applications. The viscosity range covers from 0.6 to 1,000,000 cPs. and, depending on the application, pressures between 3 and 320 bar. Customer specific applications on request.

Delivery ranges

- ▶ External gear pumps
0.1 – 2,900 cc/rev
- ▶ Internal gear pumps
0.1 – 207 cc/rev
- ▶ Radial piston pumps
0.7 – 42.9 cc/rev

Beinlich is an OEM supplier of pumps to machine manufacturers across the globe for applications including.

- ▶ 2 component machines
- ▶ Plastics technology
- ▶ Chemicals
- ▶ Petrochemicals
- ▶ Inks and paints
- ▶ Pharmaceuticals
- ▶ Foods
- ▶ Shipping
- ▶ Aircraft



Rotary Power axial piston pumps and C Range high pressure metering pumps are designed specifically for the polyurethane foam industry.



- ▶ Variable and fixed displacement
- ▶ Delivery range 0.2 cc/rev to 125 cc/rev
- ▶ Continuous pressure between 0 and 250 bar
- ▶ 7 frame sizes
- ▶ Pressure relief valve
- ▶ Various shaft seal options
- ▶ Magnetic drive option

The new C01 model has an output range of 0.2 – 2 cc/rev for applications which require very low dosing rates.

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BEDA provides distribution, application expertise, service and technical support. We work closely with our customers from initial inquiry through development, construction, installation and commissioning.

The close cooperation of VSE, DST, Beinlich and Rotary Power creates synergies which enable us to provide high quality efficient and flexible system solutions for complex technical requirements within shortest delivery times.