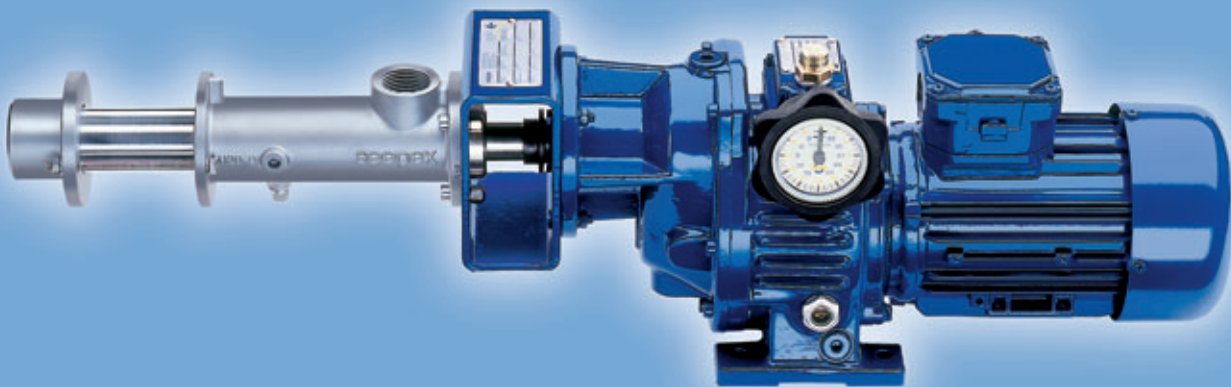


ROTATING RIGHT

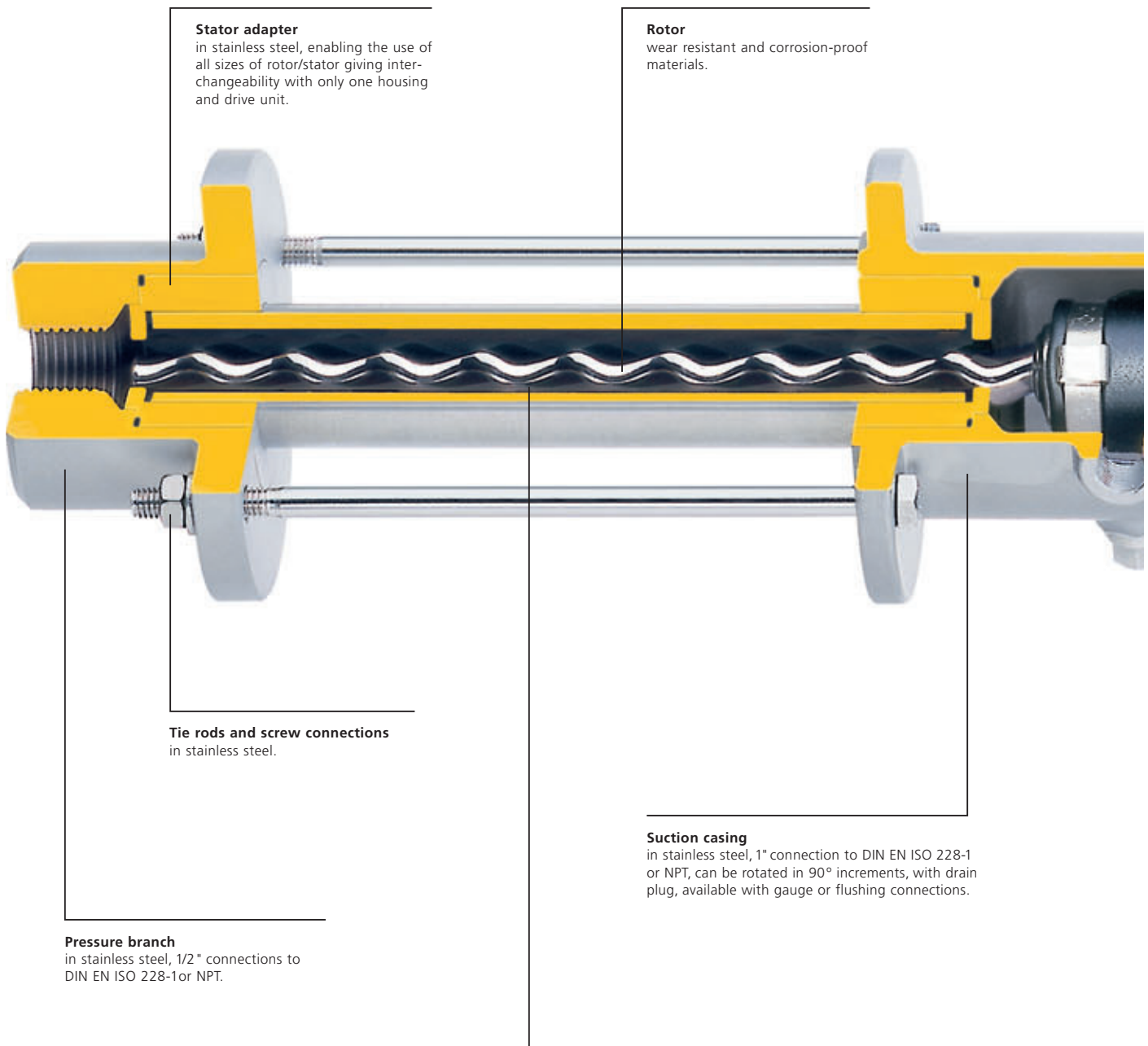
SEEPEX GROUP D PROGRESSIVE CAVITY PUMPS

Product group D.



D – Dosing pumps

The 6 ranges of dosing pumps can be used in virtually all industries for the metering and dosing of precise quantities. They are particularly good for low-pulsation conveying of low to high viscosity fluids, as well as media containing solids and those that are chemically aggressive.



Stator

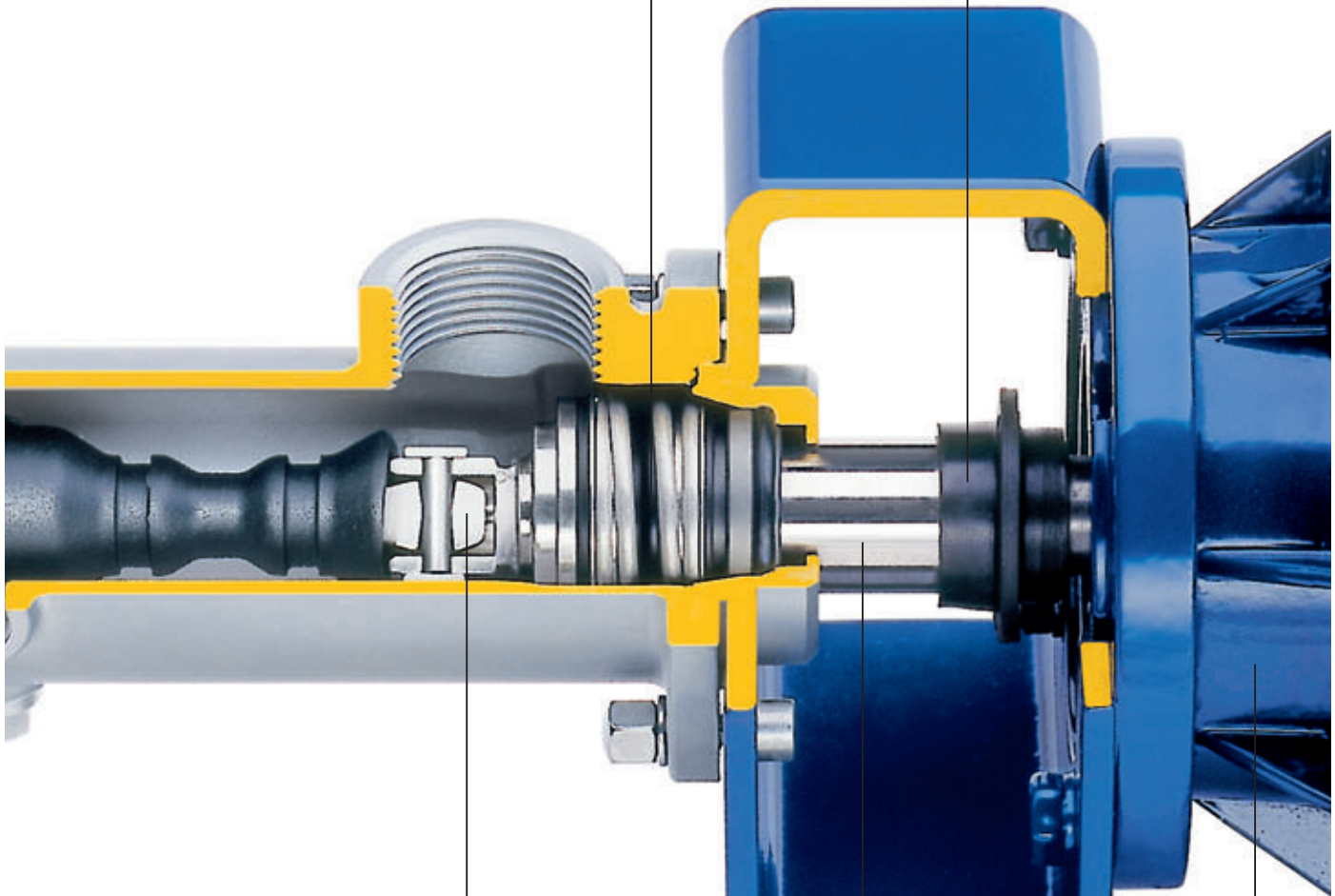
the seal on both ends is moulded as an integral part of the elastomeric stator; corrosion of the stator tube is never a problem because the pumped liquid never comes into contact with the metal tube or the bonding adhesive.

Plug-in shaft connection

for easy dismantling of the pump and drive enabling quick replacement of the rotating parts and shaft seals. The plug-in shaft pin secures the shaft connection to the drive and the splash ring protects the bearing from contamination/ gland leakage.

Shaft seal

single acting mechanical seal. Alternatively, a double acting mechanical seal or gland packing are available.



Coupling rod

with two pin joints with hardened and wear resistant components, easily assembled, grease lubricated and positively sealed with elastomer sleeves and two holding bands.

Lantern

for connection of pump and drive.

Drive

geared motors, variable speed drives or hydraulic motors of all major manufacturers, directly flanged to the pump without additional couplings or guards.

Plug-in shaft

connects the drive shaft to the joint; with gland packing the plug-in shaft is used as a shaft protection sleeve.

Why dosing pumps?

Because they are used in applications such as agriculture, automotive industry, ceramics industry, construction, brewing industry and distilleries, chemical and biochemical industry, coating kitchen, confectionery industry, dough processing and bakeries, drinking water treatment, dyeing and varnishing industry, fruit and vegetable processing, metering of chemical additives, milk and dairy industry, paper machine, pharmaceutical and cosmetics industry, poultry and meat processing, oil, gas and petrochemical industry, shipbuilding, sludge dewatering, stock preparation, supply industry, textile industry, waste water and sludge treatment, wine industry and wood processing.

Features

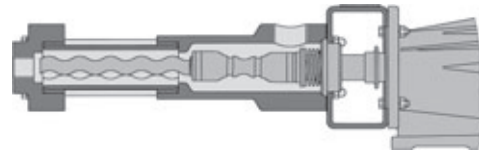
- Simple interchangeability due to their modular construction
 - Low pulsation, no pulsation dampeners required
 - High metering accuracy (deviation $\pm 1\%$)
 - Constant flow, independent of pressure
 - Eliminates control valves
 - No ball valves to clog
- > Conveying capacity: up to 1000 l/h (380 GPH),
Pressure: up to 24 bar (360 psi)

Overview of ranges

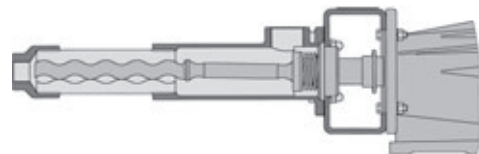
Apart from a stainless steel housing, pumps of the MD range are also available with housing parts made of plastic. In combination with components made of Hastelloy C (2.4610) or Titan (3.7035) that come into contact with fluids, these pumps are especially well suited for pumping and dosing chemically aggressive media.

The pumps of the MDP range are available with stainless steel or plastic housing. A special feature is the patented, one-piece, wear resistant plastic rotating unit without joint. In connection with PTFE stators, these pumps can be used for pumping and dosing media containing hydrocarbon such as paints, varnishes, solvents, diluents and the like for the first time.

Range MD



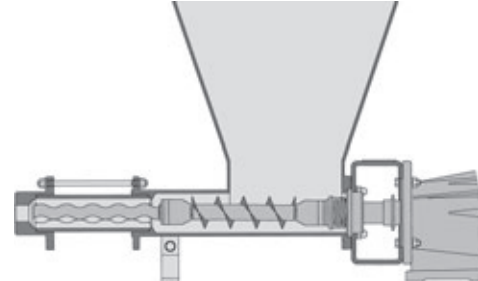
Range MDP



Overview of ranges

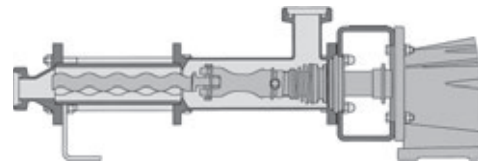
The pumps of the MDT range feature a feed hopper with a cylindrical compression zone. Conveying media with a low degree of intrinsic flowability or with none at all are fed to the conveying elements rotor and stator through the auger feed screw on the coupling rod. Optimum filling of the conveying chamber is achieved through the priming pressure generated in the compression zone.

Range MDT



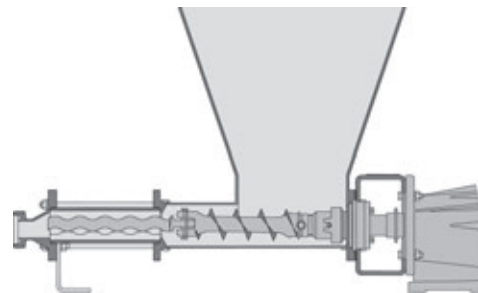
The pumps of the MDC range are equipped with open hygienic fork joints that can be cleaned almost without leaving residues through CIP continuous cleaning. They meet highest demands on hygienic cleanliness and on corrosion and wear resistance. This is achieved through the special shape of the rotor/plug-in shaft coupling rod head. Since the open joint is made up of only a few components, service work can be performed easily and rapidly without the need for special tools. They are certified acc. to the 3-A Sanitary Standard of the US and designed in compliance with the EHEDG directives.

Range MDC



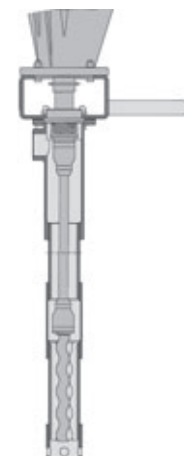
The MDTC range features a feed hopper with a cylindrical/conical compression zone. Conveying media with a low degree of intrinsic flowability or with none at all are fed to the conveying elements rotor and stator through the auger feed screw on the coupling rod. Optimum filling of the conveying chamber is achieved through the priming pressure generated in the compression zone. The pumps of the MDTC range are equipped with open joints of the MDC range. They are certified acc. to the 3-A Sanitary Standard of the US and designed in compliance with the EHEDG directives.

Range MDTC



Pumps of the MDF range are used as barrel pumps for draining barrels open or closed on top with 2" faucet holes. The supply pressure on the suction side also facilitates trouble-free draining of barrels with low-viscous to highly viscous media. The pump is easy to transport through a handle attached to the lantern.

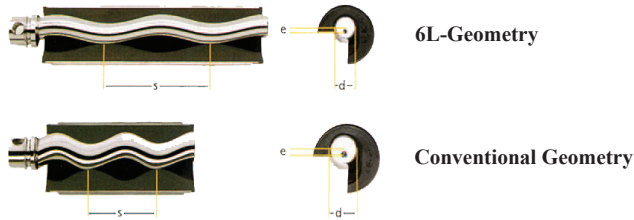
Range MDF



User Advantages

Rotor - Stator-Geometries

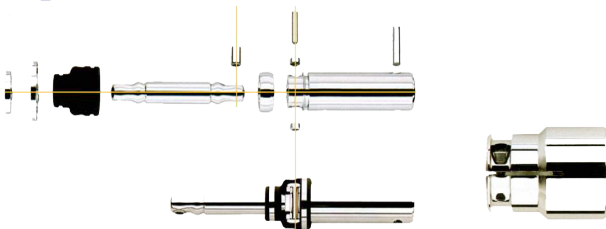
seepex 6L - conventional geometry comparison



smaller rotor diameter
 + reduced eccentricity
 + increased pitch length
 = 6L-Geometry with 20 % lower sliding velocity

- Improved service life (+35-50%) due to lower sliding velocity and longer sealing line
- Better pressure stability due to wider sealing line
- Reduced thrust loads on universal joints and bearings due to smaller rotor diameter and lower eccentricity
- Thrust loads of the conventional design exceed the thrust loads of the 6L-Geometry by approx. 50 %
- Smooth and almost pulsation-free operation
- The "stretched cavities" have a positive influence on vibrations, turbulences, pulsation and shear rates

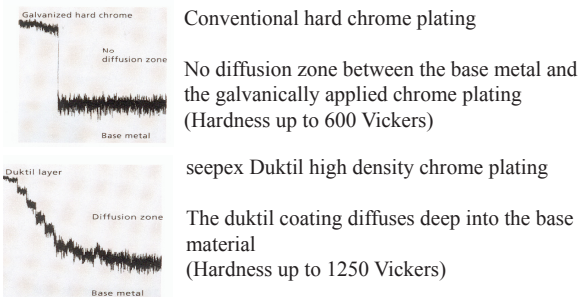
seepex Universal Joint Design



Benefits

- Only 4 hardened and wear resistant universal joint components (1 coupling rod bush, 2 guide bushes, 1 coupling rod pin)
- Positively sealed, gas and liquid tight elastomer universal joint sleeve
- Optional stainless steel universal joint sleeve protector with unconditioned - 10.000 h/24 months guarantee on the protected universal joint
- Simple and cost-effective to maintain
- Streamlined design, thus improved NPSH conditions
- Simple and cost-effective to maintain

seepex has The Optimum Rotor Surface



Conventional hard chrome plating

No diffusion zone between the base metal and the galvanically applied chrome plating (Hardness up to 600 Vickers)

seepex Duktal high density chrome plating

The duktil coating diffuses deep into the base material (Hardness up to 1250 Vickers)

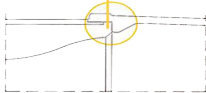
Benefits of the high quality seepex rotor surface

- Reduced starting and operating torque
- Improved efficiencies
- Smoother operations
- Increased service life
- The hardness of the coating is 1250 Vickers versus 180 of the base material
- The adhesion to the base material is excellent with no surface fissures

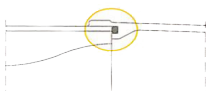
seepex Molded to size stators



seepex molded to size stators are shrink compensated and have cast-on sealing surfaces.



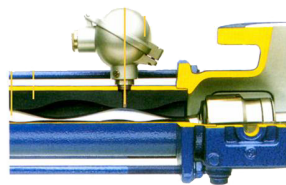
High manufacturing standards guarantee low torque requirements and high efficiencies.



A wide variety of elastomers is available.

Cut-to-size stators with separate gaskets or joints - unthinkable for seepex

seepex Optional TSE Dry Run Protection



Benefits

- Universal solution for all applications protects pump and stator against damages caused by frictional heat due to lack of liquid pumped
- Highly efficient low cost dry running protection system



TSE controller for panel mounting



Complete IP55 (NEMA 4) pump control panel with incorporated TSE controller



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