

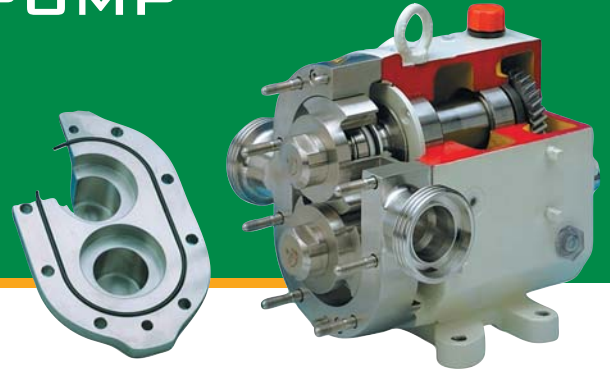
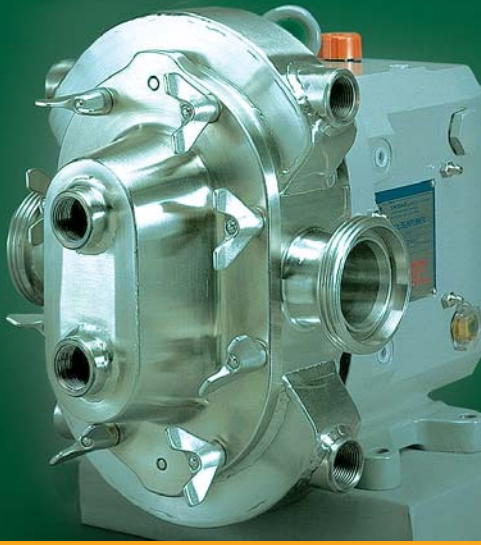
INDAG ROTARY PISTON PUMP

Gentle conveyance and dosing



WILD i INDAG
PROCESS TECHNOLOGY

INDAG ROTARY PISTON PUMP



The hygienic, self-priming rotary piston pumps designed by INDAG guarantee accurate dosing results combined with an especially gentle conveyance. They efficiently convey and dose low to high viscosity products, paste products, as well as chunky products.

Capsuled, quenchable mechanical shaft seals whose springs are located outside the product area impede contamination by product remainders and facilitate residueless cleaning. Thanks to extremely high manufacturing standards, as well as the modular design, no adjustments have to be made during the replacement of the mechanical shaft seal or the rotor. Therefore, the costs involved in a change are very low. Steam sterilization of the pumps leads to a maximum sanitary condition.

Advantages and Benefits of the INDAG Rotary Piston Pump

■ Special Alloy

The special alloy of the INDAG rotary piston pump makes it possible to steam sterilize the pumps at up to 150°C. This sterilization guarantees maximum microbiological safety.

■ Small Clearance

The fact that the pumps' clearances are very small safeguards a conveyance which is very gentle to the product: this means that the feeding pressure and the pre-pressure can be reduced.

Range of Application

Foodstuffs

- Milk products such as yogurt, fruit yogurt, cheese and curd cheese
- Foods such as oils, greases, soups, sauces
- Candies
- Fruit preparations

Brewery

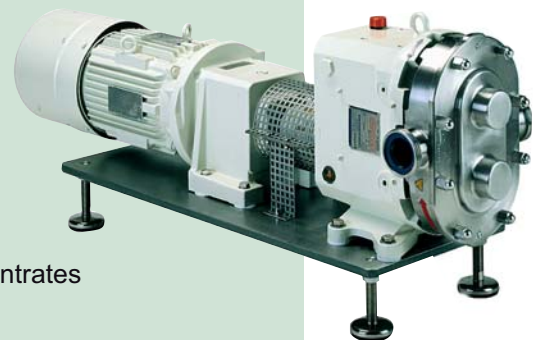
- Beer and yeast

Beverages

- Juices
- Syrup
- Wine
- Compounds/Concentrates

Pharmaceutics and Chemistry

- Ointments
- Cremes
- Plasma





■ Mechanical Shaft Seal Independent of Rotational Direction

The feeding is possible from either direction, therefore, the installation remains very simple and manageable even if conditions change.

■ Residueless Cleaning and Sterilization in the Inline-Mode

The springs of the mechanical shaft seals of the INDAG rotary piston pump are located outside the product area. This guarantees easy and residueless cleaning. With extremely high manufacturing standards, as well as the modular design, no adjustments have to be made during the replacement of the mechanical shaft seal or the rotor. Therefore, the costs involved in a change are very low.

Technical Information

INQ1	CC	55	VT	D50	Classification (Example)
INQ1					INDAG pump with quench
	CC				Mechanical shaft seal carbon/ceramics
		55			Pump size 55
			VT		Viton O-rings
				D50	Connections DN 50, DIN 11851

Sizes	2	4	10	16	25	40	55	125	160	200	300
max. rpm [min-1]	1,000	1,000	1,000	800	600	500	550	500	500	450	450
max. pressure [bar]	7	7	16	16	16	16	16	16	16	16	16
max. feeding capacity* [liter/minute]	10	25	50	80	132	150	330	460	790	920	1,472
liter/rotation	0.01	0.025	0.05	0.1	0.22	0.3	0.6	0.92	1.58	2.06	3.27
size connections [DN]	25	25	40	40	40	50	50	65	100	100	150
max. feeding capacity [liter/hour]	600	1,500	3,000	4,800	7,920	9,000	19,800	27,600	47,400	55,620	88,290

*based on water without counter pressure, i.e. approx. 1 mPas/0 bar

Technical Information

Performance

- Flow rate up to 90,000 l/h
- Screw-type mounting foot: for horizontal and vertical installation

Design

- Easy stock-keeping and spares inventory due to standardized sizes
- Operation pressure up to 16 bar
- Suction head up to 9 mWS

Temperature Resistance

- Up to 150°C
- Optional up to 200°C

Product Viscosity

- Up to 100,000 mPas

Colors

- RAL 1013 lacquer coating
- Further RAL-lacquer coatings on request

Connections (Suction and Pressure Sides)

- Male parts (DN), DIN 11851 (Standard)
- Aseptic flanges DIN 11864-2
- Aseptic Screwed Connection DIN 11864-1
- Tri-clamp, ISO 2852
- Further connection types on request

Materials

- Pump housing and cover: stainless steel (1.4571/AISI 316)
- Double blade rotors (displacement) of patented alloy

Mechanical Shaft Seal

- Carbon/ceramics
- Thungsten
- Siliciumcarbide
- Further materials on request

Sealing Material of O-Rings

- Viton
- EPDM
- Further materials on request



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