

## Diaphragm Metering Pump PKH



## High-pressure diaphragm metering pump with air or gas drive

- 
- Metering of inhibitors and odourants up to 300 bar
- Leakage-free and diffusion-tight

**motralec**

4 rue Lavoisier . ZA Lavoisier . 95223 HERBLAY CEDEX  
Tel. : 01.39.97.65.10 / Fax. : 01.39.97.68.48  
Demande de prix / e-mail : [service-commercial@motralec.com](mailto:service-commercial@motralec.com)  
[www.motralec.com](http://www.motralec.com)

# Diaphragm Metering Pump PKH

## Applications

- High-pressure diaphragm metering pump with air or gas drive, e.g. for metering inhibitors or odourising gas and liquefied gas
- Flow rates up to 10 l/h, pressures up to 300 bar
- Driven by a pneumatically operated plunger, with automatic return controller for 1.5 to 14 bar supply pressure



## STANDARD FOR TIGHTNESS = DIAPHRAGM METERING PUMP

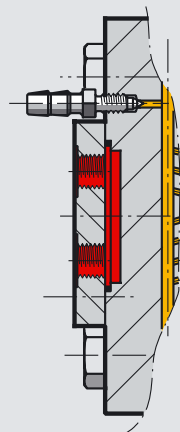
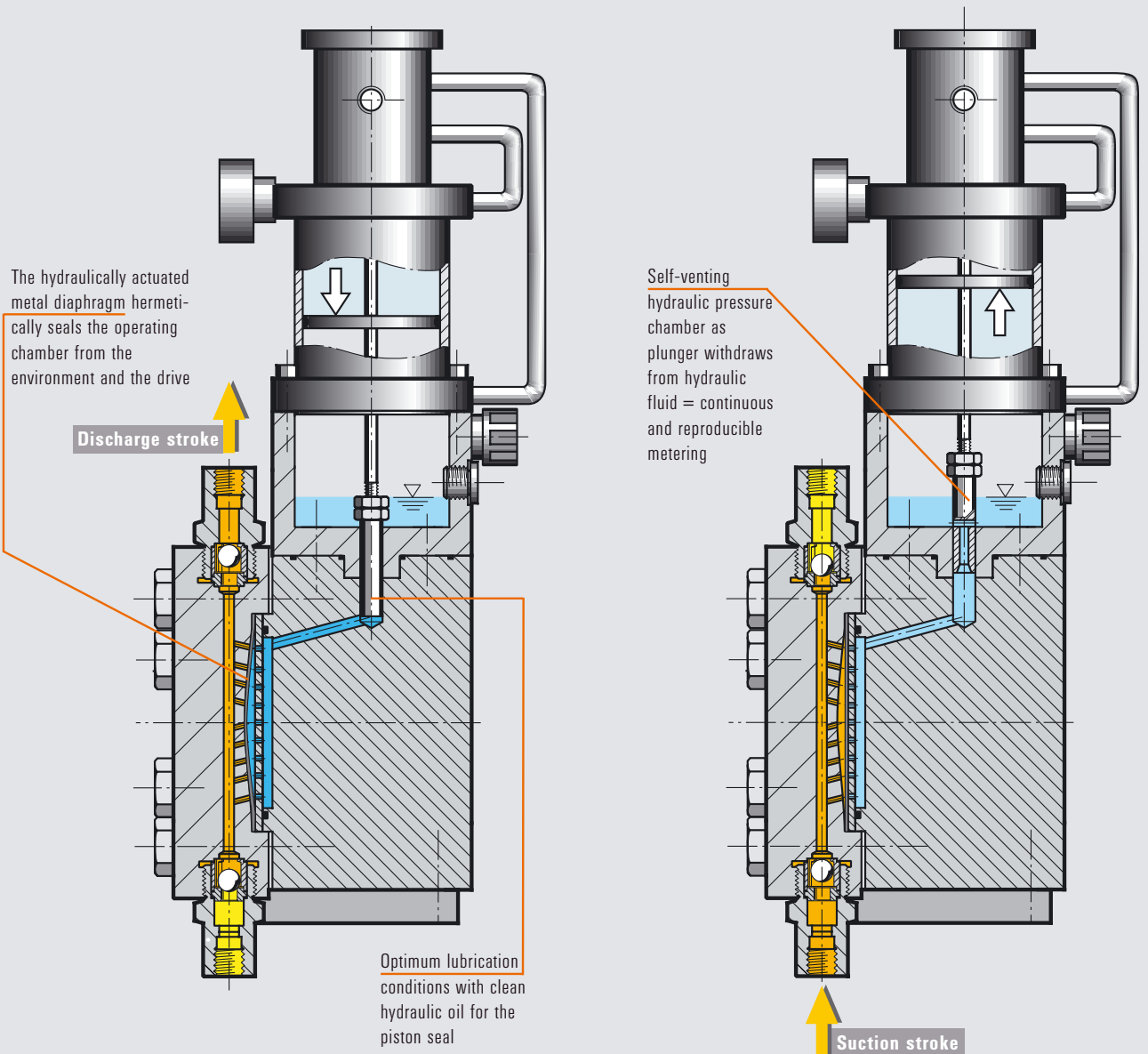
- Leakage-free operating chamber with diaphragm seal = safe operation, no emissions, no contact with the process fluid
- Diffusion-tight metal diaphragm, decisive for metering odourants = odourless pump operation
- Diaphragm support on both sides = resistant to overload and dry running

## EASY TO USE AND RELIABLE

- Hydraulically actuated metal diaphragm with fatigue-proof diaphragm design = maintenance free diaphragm, no dynamic seals which can easily wear
- Self-venting hydraulic pressure chamber as plunger withdraws from hydraulic fluid = continuous and reproducible metering
- Gas motor in stainless steel with corrosion-resistant seals, no diaphragms or springs = proven drive for gas, compressed air or corrosive sour gas
- No overload on pump due the faulty operation, insensitive to faults on the suction or discharge side

## ECONOMICAL

- Precise metering even with pressure fluctuations due to a pressure-resistant characteristic curve = optimum metering with constant flow, reduced consumption of inhibitors and odourants
- The only parts subject to wear in the process: durable valves = minimum spare parts requirements
- Pneumatic drive requires no lubrication, supply pressure of 1.5 bar to 14 bar = no pressure control required within this range



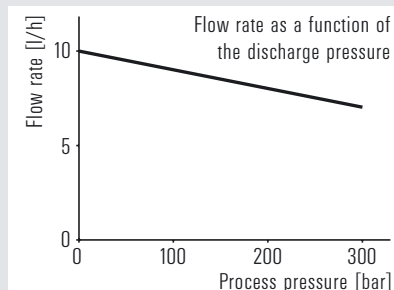
**Optional features**

- Heated pump head
- Pump head with venting
- Function monitoring of sandwich diaphragm = the pump remains tight even after diaphragm rupture, the monitoring function immediately signals a fault. Diaphragm monitoring by pressure gauge, contact pressure gauge or pressure switch.

# Performance Data

## Flow rate

0 to 10 l/h effective



## Pressure

150 bar (at 7 bar supply pressure), 300 bar (at 14 bar supply pressure)

## Fluid temperature

-10...100 °C (dependent on hydraulic fluid)

## Ambient temperature

-10...50 °C (dependent on hydraulic fluid)

## Effective stroke length

21 mm

## Stroke frequency

1...120 strokes/min

## Stroke adjustment

none

## Displacement plunger dia.

10 mm

## Volume of stroke

1,64 cm<sup>3</sup> for 21 mm stroke length

## Materials of wetted parts

1.4571 (316 Ti)

## Connections

1/2"-14 FNPT delivery suction and discharge sides, others on request

## Weight

approx. 27 kg dry

## Others

drive element meets NACE requirements  
(National Association of Corrosion Engineers)

## Dimensions

