

# MICRO C SERIES Mouvex Technology

## Eccentric disc pumps for continuous transfer and low-flow metering

### Innovative Sealles design

- Leak free pumping without the need for magnetic couplings or mechanical seals
- Consistent performance, minimally affected by fluctuations in pressure and viscosity
- Self-adjusting for mechanical wear
- Excellent self-priming and line-stripping capability
- Dry run capability

### Compliance with severe requirements



### Efficient and cost-saving solutions

- Outstanding price / performance ratio

### Small footprint and easy integration

- Excellent self priming
- Ability to run dry
- Strong suction lift (ability to clear the pipes)
- Not affected by viscosity variations and pressure

### Fast and easy maintenance

- Quick dismantling

### Specially Designed for Continuous Transfer and Metering applications :

- Low flow rate : from 1 to 800 l/hr
- Easily cleaned (no retention zone)
- Excellent precision and repeatability\*
- Constant volumetric output over time\*

### Ideal for Soap & detergents, Agri-Business, Cosmetics, Pharmaceuticals and Chemicals Processing Applications

- 100 % stainless steel construction
- Extremely gentle with shear-sensitive products
- Meets the most strinent sanitary requirements - 3A and EHEDG (European Hygienic Equipment Design Group)
- Suitable for CIP and SIP
- ATEX certification (Ex II 2 G IIB T4, T3 (in dry operation))
- Integrity of transferred media maintained

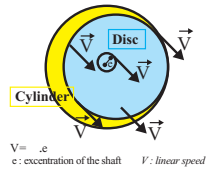


\* Mouvex Technology Eccentric disc pump.

## Advantage Unique Mouvex Technology Sealless Design

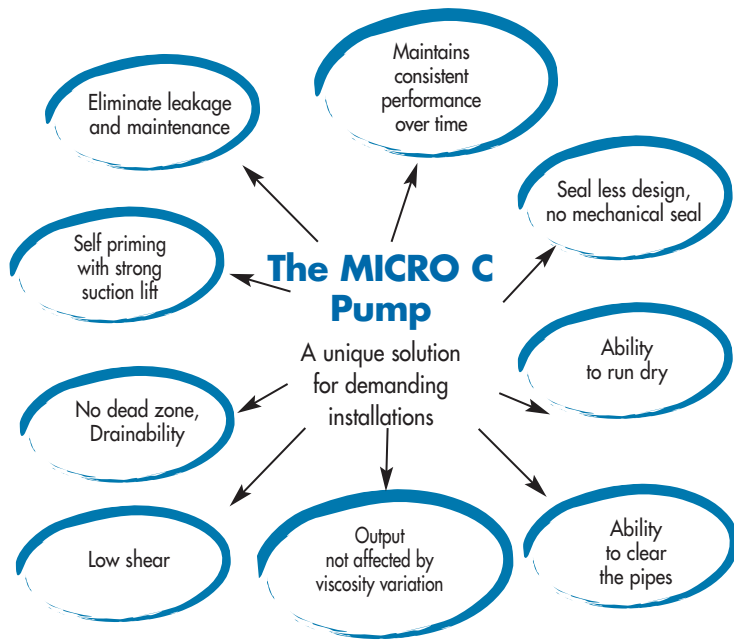


### Low Shear



Piston movement inside the cylinder

- The disc moves eccentrically, driven by an offcenter shaft
- Each point of the disc moves at the same speed
- A circular transfer of fluid is achieved
- The eccentric disc operating principle allow the pump to provide a smooth, steady flow even at low linear speeds.



## The Micro C has an excellent low-flow metering and continuous transfer capabilities

**Simple and sturdy**  
**Stainless-steel construction**

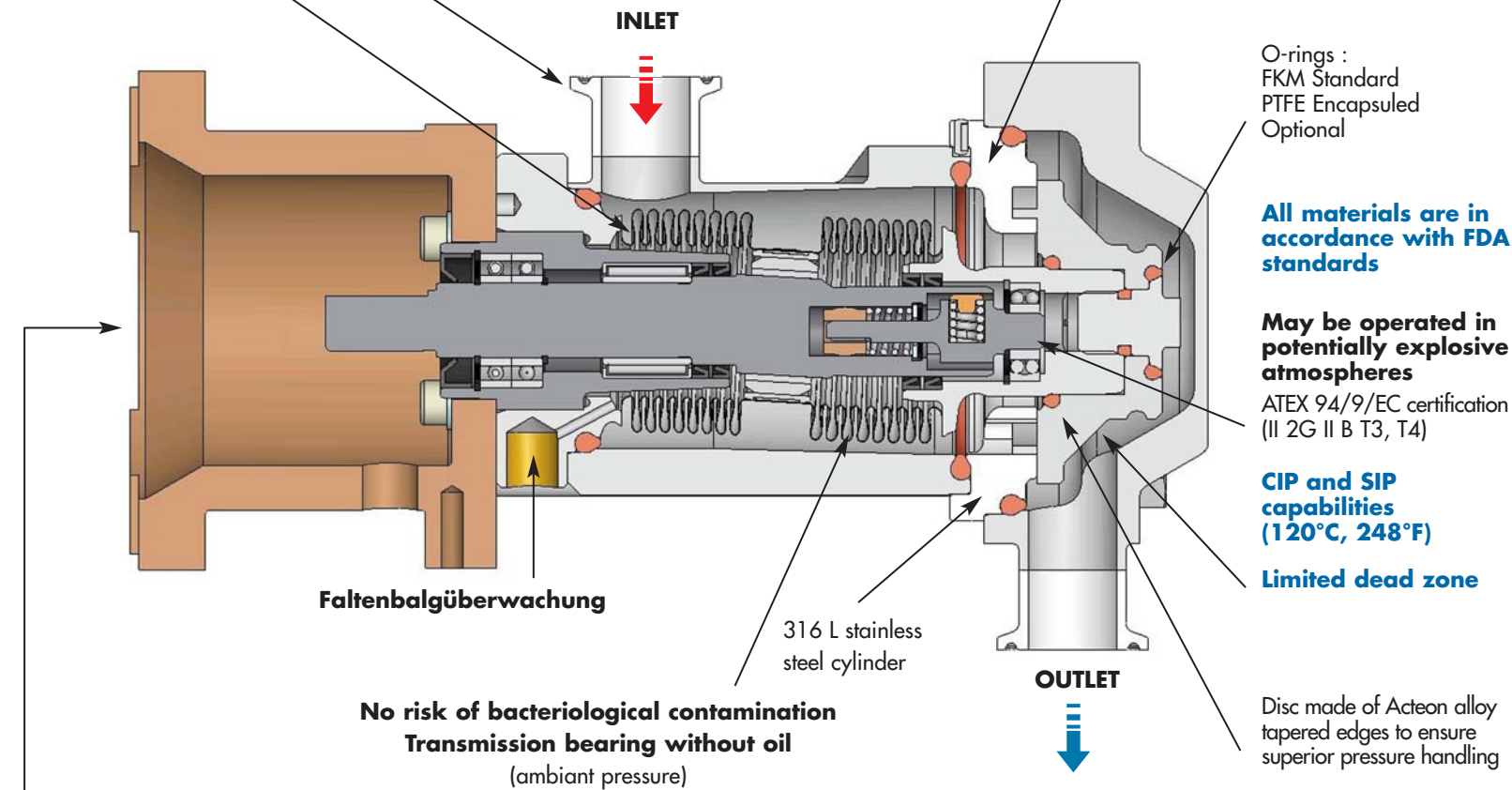
90° pump connection option  
DIN 11851 DN20  
1/2" BSP 1/2" NPT machine-tapping  
DN20 clamp  
Clamp + ribbed tip  
RJT connection

**Meets the most stringent sanitary requirements**  
**CE, FDA, 3A, EHEDG, TA Luft, ATEX**

**Stainless steel bellows allow for sealless operation**

**Dry running capability**  
**Self-priming capability**  
**High suction allows for line stripping**

**Long life and Consistent performance over time**  
due to its self-adjusting  
Design for mechanical wear



**All materials are in accordance with FDA standards**

**May be operated in potentially explosive atmospheres**  
ATEX 94/9/EC certification (II 2G II B T3, T4)

**CIP and SIP capabilities (120°C, 248°F)**

**Limited dead zone**

**No risk of bacteriological contamination**  
**Transmission bearing without oil**  
(ambient pressure)

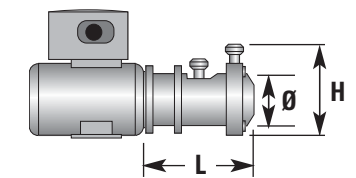
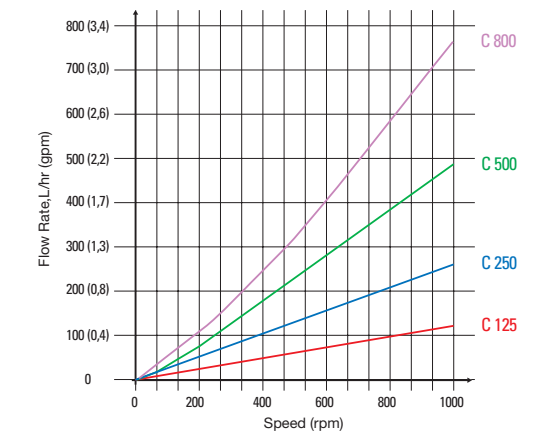
**Low shear ensures Gentle handling of the pumped product**  
**Constant flow rate with low pulsation**  
**Excellent volumetric performance**  
**Strog compressor effect**  
(empties the pipes)

**4 configured for IEC and NEMA drives**  
Flow rate from 4 to 800 l/h (0.02 to 3.4 gmp)  
Motor 0,55 kW  
Option :

- Stainless steel baseplate
- Stainless steel shroud
- Fixation bracket

## Specifications :

Body : 316 L stainless-steel  
Bellows : 316 Ti stainless steel  
Piston : Acteon nickel alloy  
Cylinder : 316 L stainless-steel  
Pressure : C125 - 15 bar (217 psi)  
C250 - 10 bar (145 psi)  
C500 - 5 bar (72 psi)  
C800 - 3 bar (43 psi)  
Max. Temperature : 100°C (212°F)



Configuration	C 125	C 250	C 500	C 800
Maxi output l/h (gpm)	125	250	500	760
Capacity (l/h)	0,0024	0,0045	0,0090	0,0134
Maxi speed (r.p.m.)	1000	1000	1000	1000
Maxi pressure bar (PSI)	15	10	5	3
L = Length (mm)	242	242	242	242
Ø, mm (in.)	116	116	116	116
H = height, mm (in.)	138	138	138	138
Weight, kg (lbs)	8	8	8	8
Passageway Ø for non-solid particule flow mm (inch)	0,8	0,8	0,8	0,8

## Choice in the C Series range



### Micro C Pump (without motor)



Option :  
Fixation bracket



### 4 unit set-ups

**1 - Micro C Pump Direct drive**



**3 - Micro C Pump Gearmotor drive**



**2 - Micro C Pump Direct drive with VFD**



**4 - Micro C Pump Gearmotor drive with VFD**



# Industrial use

for continual transfer, dosing, injection, filling, mixing

## Food and Beverages



### Dairy products

- Injection fermenting agents, flavorings, additives, liquid sugar

### Beverage, wines, beers

- Injection alcohol, flavorings, colorings, fermenting agent, liquid sugar, glucose, syrups

### Cakes and baked goods

- Injection additives, spices, ingredients, brine, yeast, liquid eggs
- Coating potatoes chips
- Chocolate filled cakes

### Confectionary

- Injection colorings, alcohol, liquid chocolate, liquor, liquid sugar
- Chocolate coating
- Candies coating
- Chocolate filled cakes

### Convenience food & canned food

- Dosing sauces, spices, mustard, cream, ketchup, mayonnaise, flavorings agents, baby foods, dressings, jelly

### Animals food & pets foods

- Dosing enzymes, medicins, flavorings, edible fat, vegetable oils, meat emulsion
- Coating granules

### Cereals

### Cosmetics

- Dosing additives, colorings, flavorings
- Dosing cream, pomade, syrups, lotions, gels, oils, milks, liquid soaps, aromatic extracts, liquid pharmaceutical products, additives, active ingredients

### Pharmaceutical

- Coating pills
- Transfert and dosing liquid sugar flavorings, colorings

### Plastics

- Transfert and dosing isocyanates MDI, TDI, amines
- Injection polyurethane, polyols
- Dosing additives

### Paints and inks

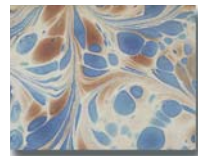
- Transfert and dosing water based paints, pigments, catalyst, colorings, inks, hardener

### Papers

- Injection glue, additives, resins

### Other applications

- Injection additives for motor laboratory, Biofuel production units



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ZI la Plaine des Isles  
rue des Caillottes  
89000 AUXERRE - FRANCE  
T + 33.3.86.49.86.30  
F + 33.3.86.46.42.10  
contact@mouvex.com



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