

# 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 stringent 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

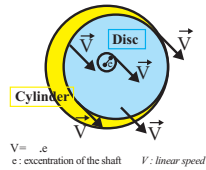


\* Mouvex Technology Eccentric disc pump.

## Advantage Unique Mouvex Technology Sealless Design

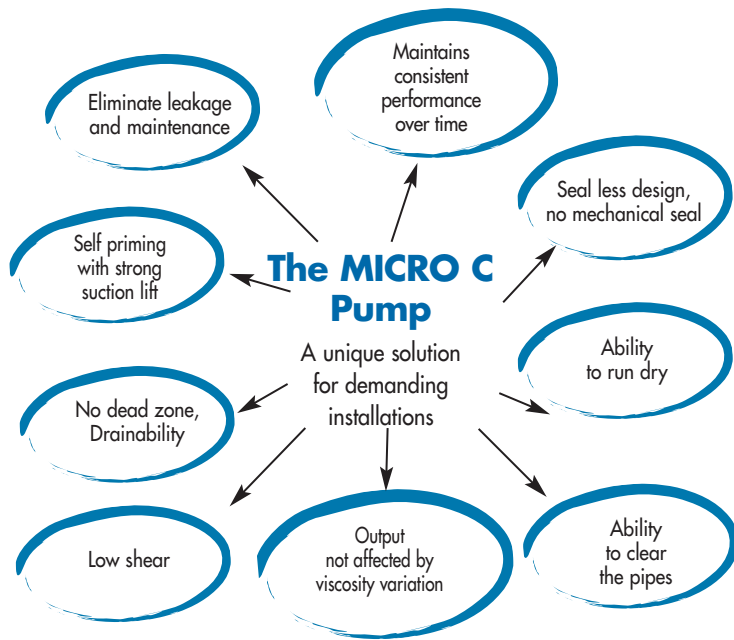


### Low Shear



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

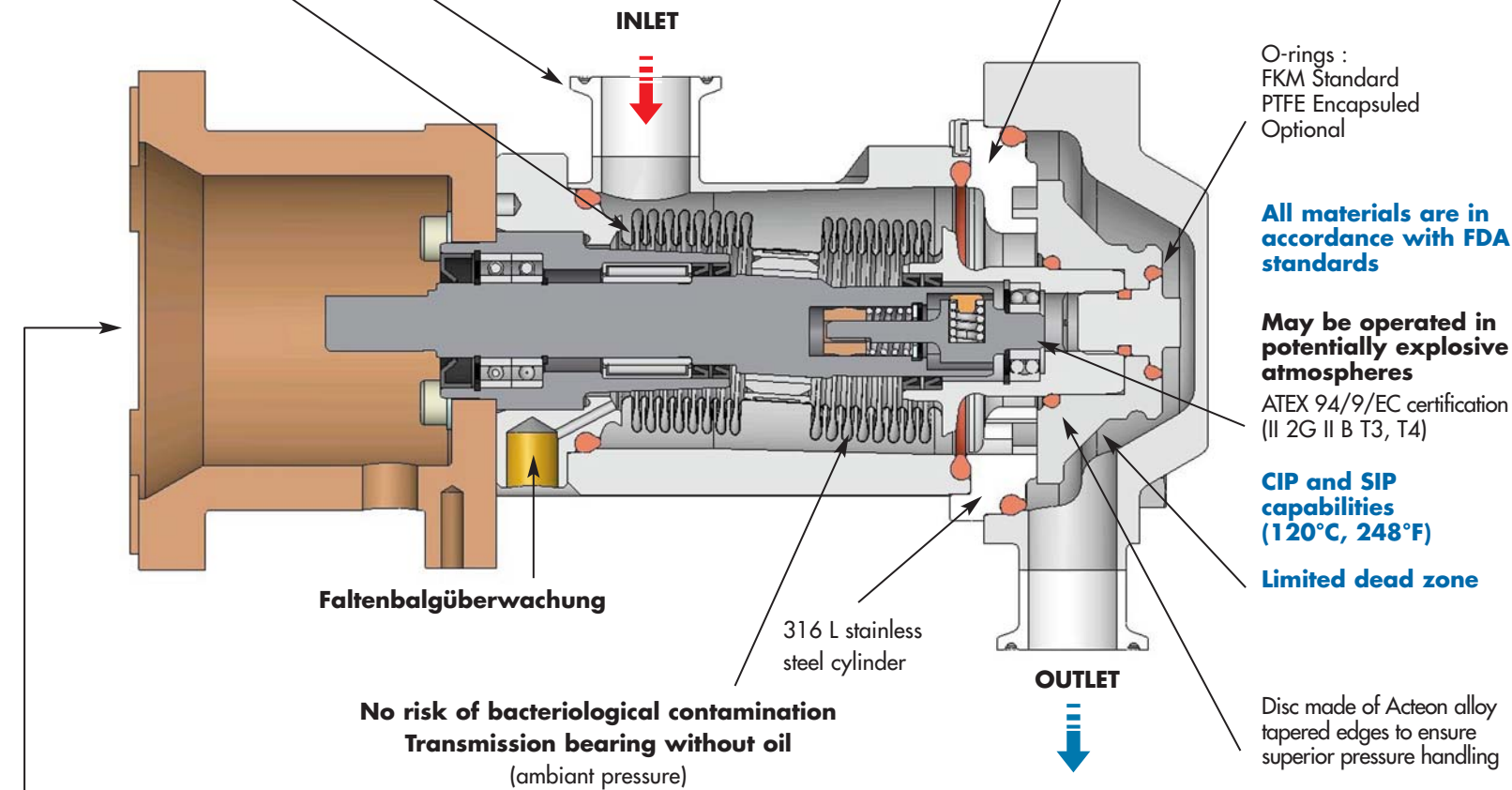
90° pump connection option  
DIN 11851 DN20  
1/2" BSP 1/2" NPT machine-tapping  
DN20 clamp  
Clamp + ribbed tip  
RJT connection

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



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

O-rings :  
FKM Standard  
PTFE Encapsuled  
Optional

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)

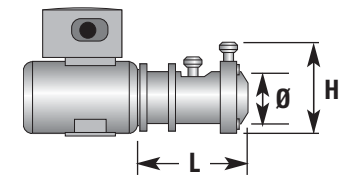
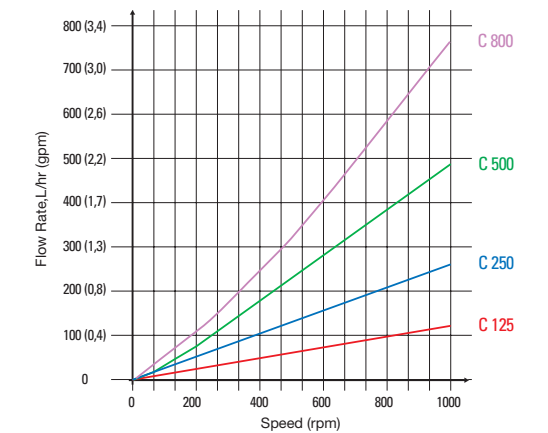
Limited dead zone

Disc made of Acteon alloy tapered edges to ensure superior pressure handling

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

## 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

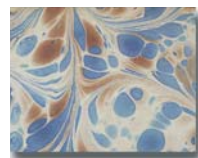
- Transfert and dosing water based paints, pigments, catalyst, colorings, inks, hardener

### Papers

- Injection glue, additives, resins

### Other applications

- Injection additives for motor laboratory, Biofuel production units



Mouvex reserves the right to modify information and presentations contained within without prior notice. Non contractuel document. 01/09  
Printed in FRANCE by Filigrane  
© 2009 Mouvex

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



Distributed by :