MOUVEX BLACKMER
A DOVER COMPANY

Specification sheet 1005-001 E
SECTION : **1001**
Effective : **December 2008**
Remplace : **June 2006**

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

CE 3A EHEDG TA.Luft Ex

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 poducts
- Meets the most strinent sanitary requirements - 3A and EHEDG (European Hygienic Equipment Design Group)
- Suitable for CIP and SIP
- Atex certification Ex II 2G IIB T4, T3 (in dry operation)
- Integrity of trasferred media maintained







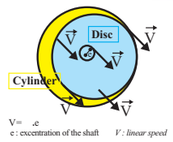
* Mouvex Technology Eccentric disc pump.

MOUVEX MEMBER OF PSG PUMP SOLUTIONS GROUP A DOVER COMPANY

Advantage Unique Mouvex Technology Sealless Design

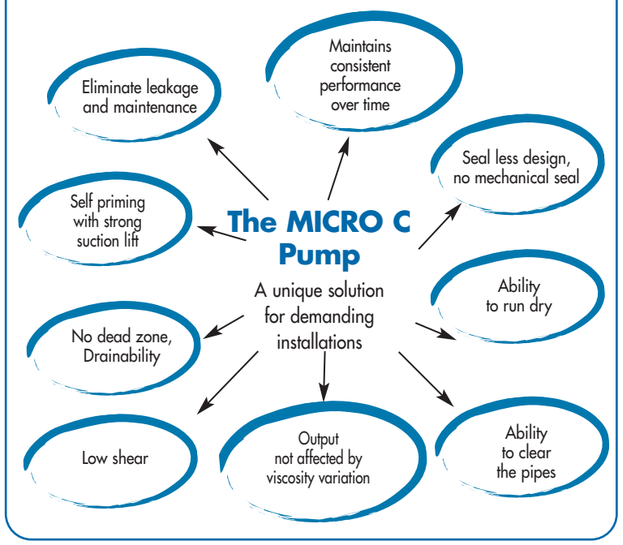


Low Shear



Piston movement inside the cylinder

- The disc moves eccentrically, diven 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 et low linear speeds.



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

Simple and sturdy Stainless-steel construction

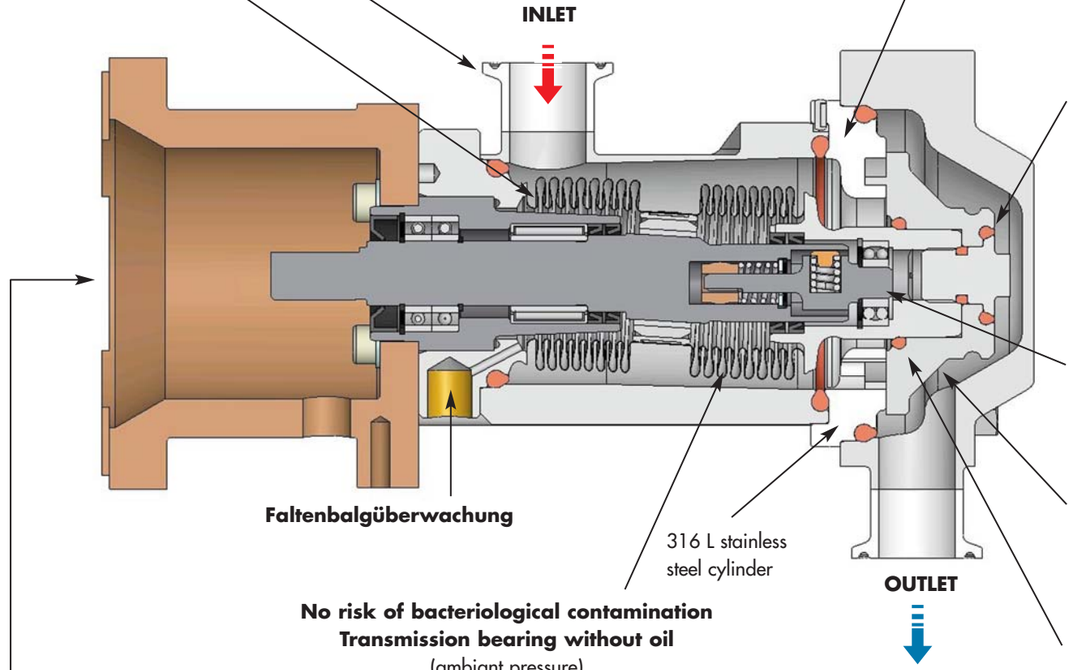
90° pump connection option
DIN 11851 DN20
1/2" BSP 1/2" NPT machine-tapping
DN20 clamp
Clamp + ribbed tip
RJT connection

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

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

Stainless steel bellows allow for sealless operation

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



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

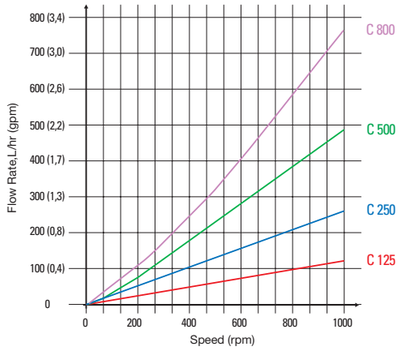
No risk of bacteriological contamination
Transmission bearing without oil
(ambiant pressure)

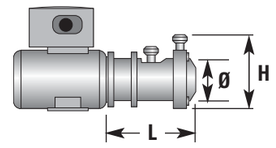
Low shear ensures
Gentle handling of the pumped product
Constant flow rate with low pulsation
Excellent volumetric performance
Strog compressor effect
(empties the pipes)

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

max. 125 l/h



C 125

max. 250 l/h



C 250

max. 500 l/h



C 500

max. 760 l/h



C 800

Micro C Pump (without motor)



Option :
Fixation bracket



4 unit set-ups

1 - Micro C Pump Direct driveb



2 - Micro C Pump Direct drive with VFD



3 - Micro C Pump Gearmotor drive



4 - Micro C Pump Gearmotor drive with VFD



Industrial use

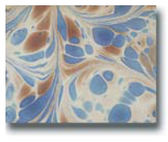
for continual transfer, dosing, injection, filling, mixing

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, liqud 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, medecin, flavorings, edible fat, vegetable oils, meat emulsion • Coating granules
Cereals	• Dosing additives, colorings, flavorings
Cosmetics	• Dosing cream, pomade, syrups, lotions, gels, oils, milks, liquid soaps, aromatic extracts, liquid pharmaceutical products, additives, active ingredients
Pharmaceutical	• Coating pils • 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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3, Poruchik Nedelcho Bonchev Str., fl. 5,1528 Sofia, Bulgaria
tel: +359 2 973 27 67
e-mail: office@daisglobal.eu