



Seal-Less

Eccentric Disc Pumps

for Full Chemical Containment

Mouvex®, a product brand of PSG®, a Dover company, is a leading manufacturer of positive displacement pumps for use in liquid handling operations worldwide. Mouvex offers a complete portfolio of seal-less Eccentric Disc pump models that offer:

- Leak-free operation
- Dry run
- Self-priming
- Low shear
- Accurate dosing
- No slip
- Self-compensating for wear

These benefits make Mouvex Eccentric Disc pumps a valuable solution when transferring dangerous or high-value fluids.

Micro C

- No magnetic couplings or mechanical seals
- All stainless-steel construction
- Small footprint for easy integration
- Ability to pump low- and high-viscosity products

SLC Series

- All stainless-steel construction
- Shaft sealed with unique double stainless-steel bellows
- Very high suction and discharge pressures
- Few moving parts for reduced maintenance and downtime

C Series

- No mechanical seal, packing or magnets
- Ductile-iron construction
- Very high suction and discharge pressures
- Ability to pump low- and high-viscosity products



CHEMICAL Seal-Less Solutions

Product Recovery

Additionally, all Mouvex seal-less pump models feature the unique eccentric disc operating principle that allows them to pump air, thereby enabling them to achieve product-recovery rates of up to 90% or more on the suction side and 60% to 80% on the discharge side of transfer lines. This ability can result in thousands of dollars in cost savings annually from the recovery of still useable raw materials and saleable end products.



Where Innovation Flows



Product Recovery Equals Big Savings

Now is the time to install Mouvex Eccentric Disc Pumps to minimize product waste and dramatically improve production yield.

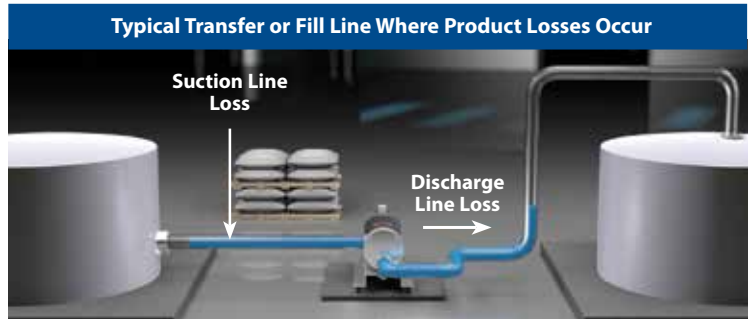


Table 1

Size		Volume	
OD inch	OD mm	Gallon/Foot	Liters/Meter
1.0	25	0.03	0.38
1.5	38	0.08	0.95
2.0	51	0.14	1.77
2.5	63	0.23	2.85
3.0	76	0.34	4.17

Calculate the Value of Your Fluid

Estimated Product Cost* per gallon or liter = _____

* Ideally to include sale value and disposal cost

Inlet / Suction Line		Discharge Line	
Length of Inlet Tube		Length of Outlet Tube	
Volume (Multiply from Table 1)		Volume (Multiply from Table 1)	
% Nominal Recovery* 95%		% Nominal Recovery* 80%	
Cost (Volume x % x Cost/Unit)		Cost (Volume x % x Cost/Unit)	

*Typical recovery on suction is 90-98%+

*Typical recovery on discharge 50%-90%+

_____ / time x _____ **times** / year = \$ _____ / year

Additional Savings

Seal Replacement Costs:

Mouvex seal-less design will assist with difficult to seal applications.

_____ times per year x _____ /seal set = _____
(typical \$1,000-\$2000+ per set)

Seal Water Flush Costs:

Mouvex seal-less design does not require/use water or other flush.

_____ volume/hour x \$ _____ /volume x _____ hours/year = _____
(volume is liters or gallons) (typical US\$10K-20K/year in USA per pump)

Pump Rebuild Cost:

For Mouvex, the cover/casing are not wear items. Disc/cylinder are auto-adjusting for wear.

_____ times per year x _____ cost = _____
Mouvex replaces some pumps that have to be rebuilt as much as twice per year at 70% the cost of new.

Power Consumed:

Because of essentially no slip, Mouvex power is not wasted.

_____ extra kW x \$ _____ kW/hr _____ hours/year = _____
(For typical low viscosity applications, Mouvex uses 0.2kW to 1.5kW+ less power for applications that produce slip with lobe or ECP pumps) (1 hp = 0.75 kW)

Compliance and Clean Up Costs:

Seal-less pumps prevent leaks. What is the cost to clean a spill or pay a fine to a government agency for dangerous spill events?

_____ times per year x _____ labor costs = _____

Subtotal Reduction in Cost of Ownership = _____

Caution: Average values are noted from field applications; these values are not contractual and must be determined for specific situation. The assurance is that the savings will provide faster than normal payback.



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