

FLOTRONIC® CHEMFLO RANGE

When it counts,
count on Unibloc®

- Maintain levels of safety in hazardous environments and operations
- Reduce downtime and cleaning costs
- Keep operations running and cost-efficient



ATEX APPROVED PUMPS



AODD PUMPS FOR THE SAFE TRANSFER OF HAZARDOUS MATERIALS

Chemflo pumps have been specifically designed to handle hazardous materials, including aggressive chemicals. Crucial to the design is an outer Stainless Steel housing that supports and protects the PTFE main pump body through a range of pressure and temperature variations. This ensures a perfect seal is retained under all conditions.

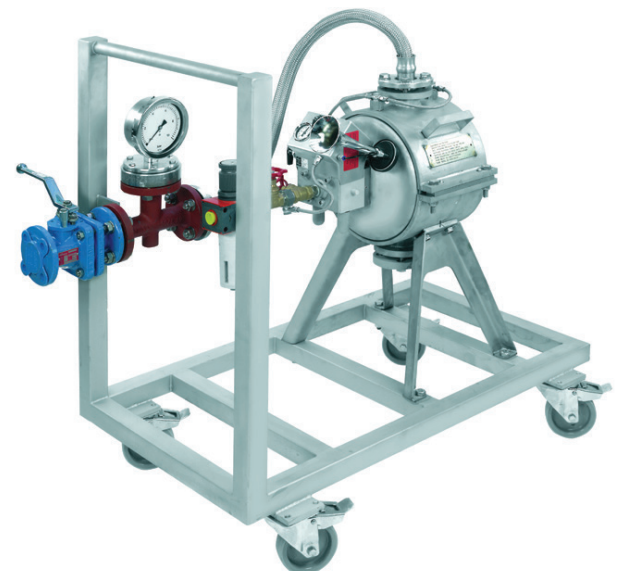
IDEAL FOR CHEMICAL, PHARMACEUTICAL AND SIMILAR INDUSTRIES

Flotronic's unique One-Nut concept is particularly useful given Chemflo's likely applications. The One-Nut design is a fast-maintenance concept that turns the conventional pump inside out. Fluid passes between the diaphragms directly through the center of the pump with air pressure operating on the outside. The pump is held together by one nut on the side opposite the external air valve. One-Nut allows in-line inspection/replacement of diaphragms in less than 15 minutes.

The outer metal housing is a further reason for Chemflo's extensive use in the chemical and pharmaceutical industries. Others include Chemflo's ability, as an air-operated pump, to self-prime, dead-head, 'dry-run' and handle solids.

Like all Flotronic pumps, the Chemflo can be customized to suit any application or location. With environmental protection in mind, Diaphragm Rupture Protection and fully pneumatic Alarm Systems can be fitted. A range of accessories is also available, including Pneumatic Pulsation Dampers and Batch Control Counters.

An optional 2 or 4 wheeled trolley with guide handle makes Chemflo easily transportable.





BENEFITS INCLUDE

- **Self-priming**, suction lifts (3.6m/12ft dry and 8m/26ft wet)
- **Can run dry**
- **Able to stop/re-start** against closed/open valve without pressure relief or damage
- **Ease of maintenance** through Flotronic Pumps' One-Nut technology
- **Easy air valve maintenance** when pump is in-line
- **Range** of ½" to 3" connections
- **ATEX Directive compliant** up to Gas Group IIC
- Optional diaphragm **rupture detection system** with instant pump shut-down alarm facility to keep product contamination-free
- Optional **high temperature diaphragm** allows for a 135°C (275°F) maximum operating temperature
- **Air valves** available in Polypropylene, PTFE, Stainless Steel and Aluminium
- A **range of connections** includes ANSI/DIN/BS flanges with PTFE raised face as standard. Other connections can be supplied on request
- **Latest designs** eliminate the costly internal air mechanisms normally associated with Double Diaphragm Pumps – and with no requirement for lubrication
- **Material certification** available on request (eg: 2.2 on wetted components)



Flotronic's commitment to high quality management of the processes that create and control our products is recognized in the achievement of ISO 9001 accreditation, the internationally recognized standard for quality management of business.

Applications



Chemical/Pharmaceutical

low-res need image approval



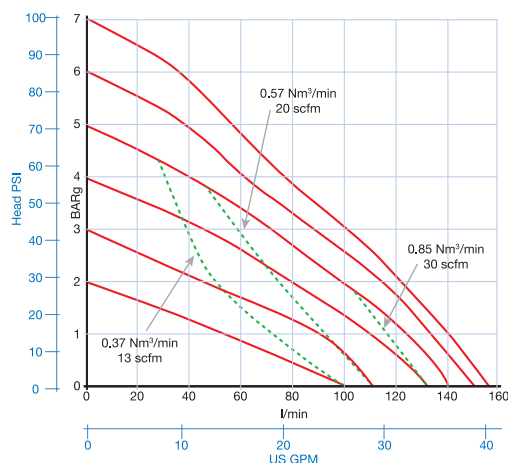
Pilot plants (often in sampling lines)

low-res need image approval



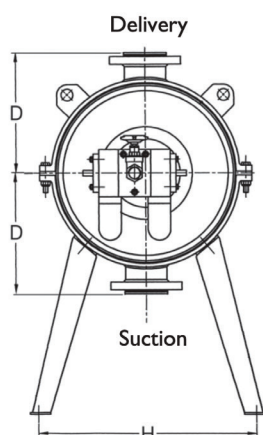
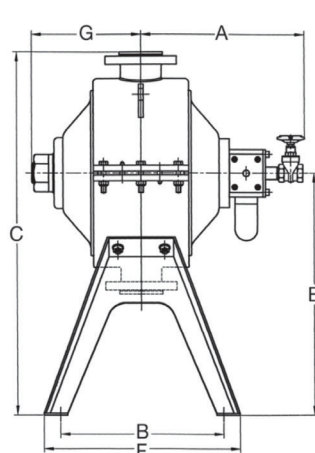
As emergency pumps for **hazardous chemical recovery**

10" DIAPHRAGM



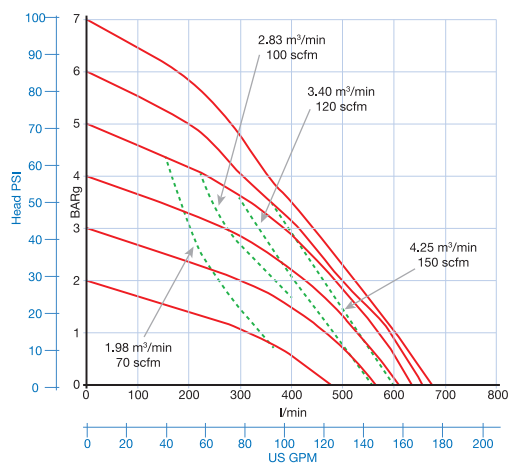
FLOW
RATE

1"



Maximum operating pressure 7.2 bar (105 PSIG)

14" DIAPHRAGM



FLOW
RATE

3"

Optional Construction Materials

Wetted Parts

Body	PTFE or anti-static PTFE
Thrust Tube	PTFE or anti-static PTFE
Diaphragms	PTFE or anti-static PTFE faced with Nitrile and EPDM backing as required
Divider Seals	PTFE
Balls	PTFE or EPDM
Seats	PTFE or anti-static PTFE

Non-wetted Parts

Housing	Stainless Steel
Air Valves	PTFE, Stainless Steel, Polypropylene and Aluminium

Chemflo Virgin & Anti-Static PTFE

SIZE	A	B	C	D	E	F	G	H	Wt. (lb)	Diaphragm Diameter
1.0"	9.5"	9.25"	21.5"	7"	14.5"	11.75"	5.5"	12.75"	84	10"
1.5"	9.5"	9.25"	21.5"	7"	14.5"	11.75"	5.5"	12.75"	88	10"
2.0"	9.5"	9.75"	22.5"	7"	15.5"	12.5"	5.5"	13.5"	92	10"
2.0"-3.0"	13.75"	13.75"	30.75"	10.25"	20.5"	16.5"	9.25"	18.5"	220	14"

When it counts, count on Unibloc®.

Unibloc Hygienic Technologies provides a broad portfolio of powerful solutions for companies around the world.



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