

The simplest ideas are often the best

‘Minichem’ Range

PTFE ‘ONE-BLOCK’ pumps for
aggressive chemical transfer



Flotronic's ultra-safe 'Minichem' pump



The 'Minichem'

A PTFE pump designed specifically for the safe transfer of aggressive chemicals and other hazardous liquids, at flow rates up to 100 litres/minute through $\frac{1}{2}$ " and 1" connections.

The 'Minichem' is machined from one solid block of PTFE, a unique patented concept based on Flotronic's existing 'One-Nut' air-operated double diaphragm design. A key benefit of the 'One-Block' design is that it avoids the need for separate manifolds. This means no manifold seals and therefore no potential leak paths.

Flotronic's 'One-Block' approach enhances the ease of maintenance benefit which the 'One-Nut' design delivers. The pump is held together by one nut on the side opposite the external air valve - allowing in-line diaphragm replacement in less than 15 minutes and a complete strip-down and re-build possible in less than 20 minutes. 'One-Block' means that Minichem maintenance need focus only on 'One-Nut' disassembly ... and on the ball valves only when necessary.

Flanged as well as threaded BSP versions of the 'Minichem' are available, ensuring full compatibility with existing PTFE-lined pipework.

All non-wetted 'Minichem' parts are in Polypropylene and Stainless Steel and ATEX approved versions are also available in both FDA approved PTFE and anti-static PTFE.

With environmental protection in mind, Diaphragm Rupture Protection and fully pneumatic Alarm Systems are available.

Flotronic 'Minichem'

'Minichem' 'One-Block' technology delivers outstanding benefits:

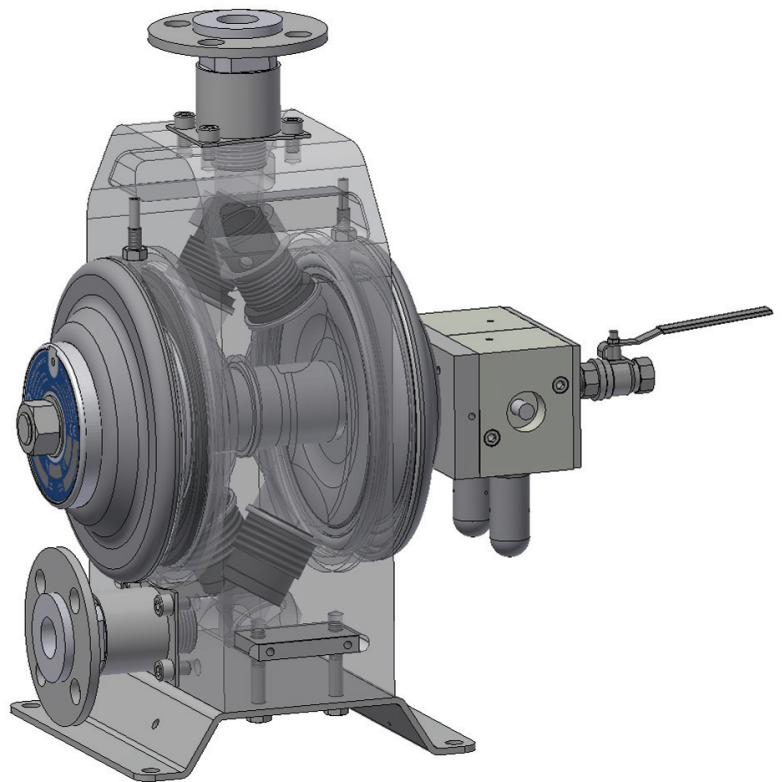
- 'One-Block' technology without separate manifolds ensuring greater pump integrity
- 'One-Nut' technology for ease of maintenance
- suitable for aggressive chemical duties at flow rates up to 100 ltr/minute and temperatures up to 80°C
- flanged as well as threaded connections available in 1/2" and 1" sizes - so compatible with existing PTFE-lined pipework
- all external parts in Polypropylene or Stainless Steel
- ATEX approved PTFE and anti-static PTFE versions where required (FDA approved anti-static) ATEX Directive compliant up to Gas Group IIC
- self-priming, suction lifts (2m/6.5ft dry and 8m/26ft wet)
- easy maintenance of air valve when pump in-line.

All of which help to:

- maintain levels of safety in hazardous environments and operations
- reduce down time and cleaning costs
- keep operations running and cost-efficient.

Applications:

- chemical, pharmaceutical and similar industries
- pilot plants (often in sampling lines)
- emergency pumps for hazardous chemical recovery.



Certificate No. 6597

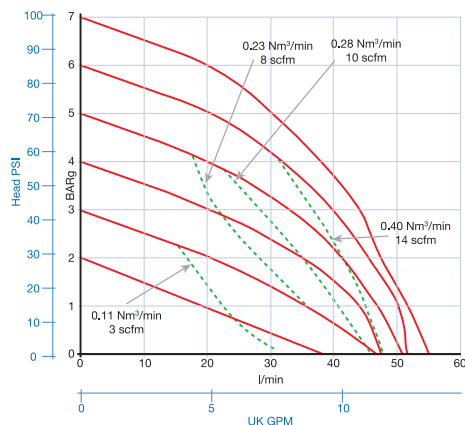
Flotronic's commitment to high quality management of the processes that create and control our products has been recognised in the achievement of the ISO 9001 accreditation, the internationally recognised standard for quality management of businesses.



Technical Data

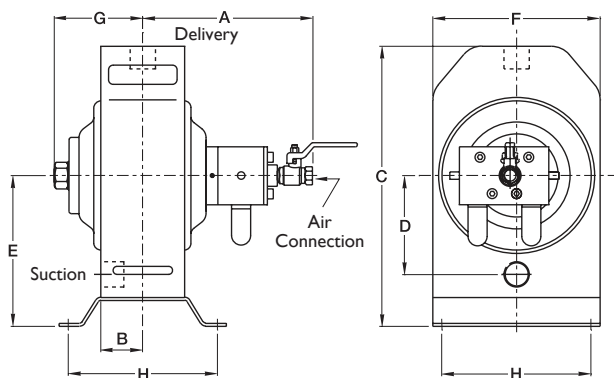
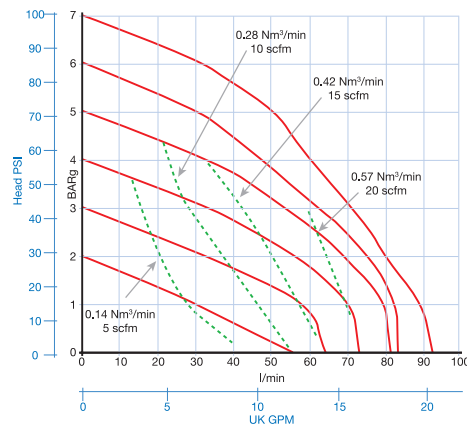
Flow Rate 7" diameter diaphragm

1/2"



Flow Rate 7" diameter diaphragm

1"



Maximum operating pressure 7.2 bar (105 PSIG)

'Minichem' Virgin & Anti Static PTFE

Size	A	B	C	D	E	F	G	H	Wt/kg	Diaphragm Diameter
1/2" - 1"	282	55	368	130	198	220	116	196	23	7"

Dimensions in mm

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ATEX APPROVED PUMPS



'Flotronic' is a UK registered trade mark.

Specifications subject to change without notice.



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