



A UNIBLOC® BRAND

*The simplest ideas are often the best*

## 'H' Series

3-A Sanitary Standards Inc. authorised pumps for sanitary product transfer



## Flotronic 'H' Series

### Flotronic Pumps 'H' Series pump - ideal for processes where hygiene is a priority

Flotronic Pumps 'H' Series pump range has been designed to meet the exacting hygiene standards of 3-A Sanitary Standards, Inc (3-A SSI) and to be used in processes where hygiene is paramount. The 'H' Series therefore offers tremendous benefits for the food, beverage and pharmaceutical industries and any other environment where sanitary integrity is necessary.



The 'H' Series range includes 7", 10" and 12" versions all with 3-A SSI accreditation. The light and portable 7" offers a pump solution ideal for customers with low flow rate applications up to 100 litres per minute. At the other end of the scale, customers seeking flow rates as high as 450 litres per minute will find the 12" pump ideal.

### 3-A Sanitary Standards, Inc

3-A Sanitary Standards, Inc require that all materials are acceptable for product and non-product contact. 3-A SSI accreditation also confirms that performance criteria critical to accepted methods of cleaning are met.

### 'H' Series - high quality materials throughout

'H' Series pump parts and raw materials are of the highest quality with their provenance duly certified. Product contact areas are either PTFE or 316L Stainless Steel, with stainless product contact areas polished to 0.8µm Ra maximum. Cleanability is further enhanced by an electro-polished overall finish.

# Cleaning couldn't be easier

## Cleaning couldn't be easier

The 'H' Series pump has been designed to meet the high 'cleanability' standards demanded by 3-A SSI. These include ease of cleaning for all product-contact and non-product contact parts.

All 'H' Series pumps can be thoroughly Cleaned in Place (CIP). The 7" and 10" 'H' Series pumps have a support stand allowing rotation of the pump for easy and effective media draining. Gravity separates the ball valves from their seats in this inverted position and cleaning and other fluids easily drain away from the inverted delivery nozzle.

The 12" 'H' Series pump has a different CIP solution which lets the pump drain fully while upright - allowing hard piping if required. This larger pump has check ball valve seats engineered to allow drainage without inversion.

All three pumps can be cleaned by flushing with a suitable CIP fluid dependent upon the application and compatibility with the pump wetted component materials. They also have internal radii surface finishes and plastic parts provenance that meet 3-A SSI standards. The innovative, easy-maintenance, 'ONE-NUT' design for which Flotronic is renowned is integral to each 'H' Series pump - allowing pump maintenance in a matter of minutes.

## Reinforced Diaphragm option

Unique to Flotronic, the 'H' Series pump can be fitted with diaphragms which are reinforced. Reinforcing plates add support to the diaphragms and ensure that the pumps can withstand CIP/SIP pressures of up to 6 bar in the suction line. This means the pumps can be Cleaned in Place using fully automated CIP units incorporating external CIP pumps, without the need to bypass the pump.

## Rupture detection system

Operator peace of mind is naturally critical in environments where product contamination is to be avoided at all costs. That's why all 'H' Series pumps have an integral diaphragm rupture detection system. This shuts down the pump should a diaphragm fail, so product is not compromised.

## Connections

All 'H' Series pumps are available with the option of BS, DIN or ISO hygienic connections.

# Benefits of Flotronic 'H' Series pumps

## The benefits of Flotronic Pumps' 'H' Series include:

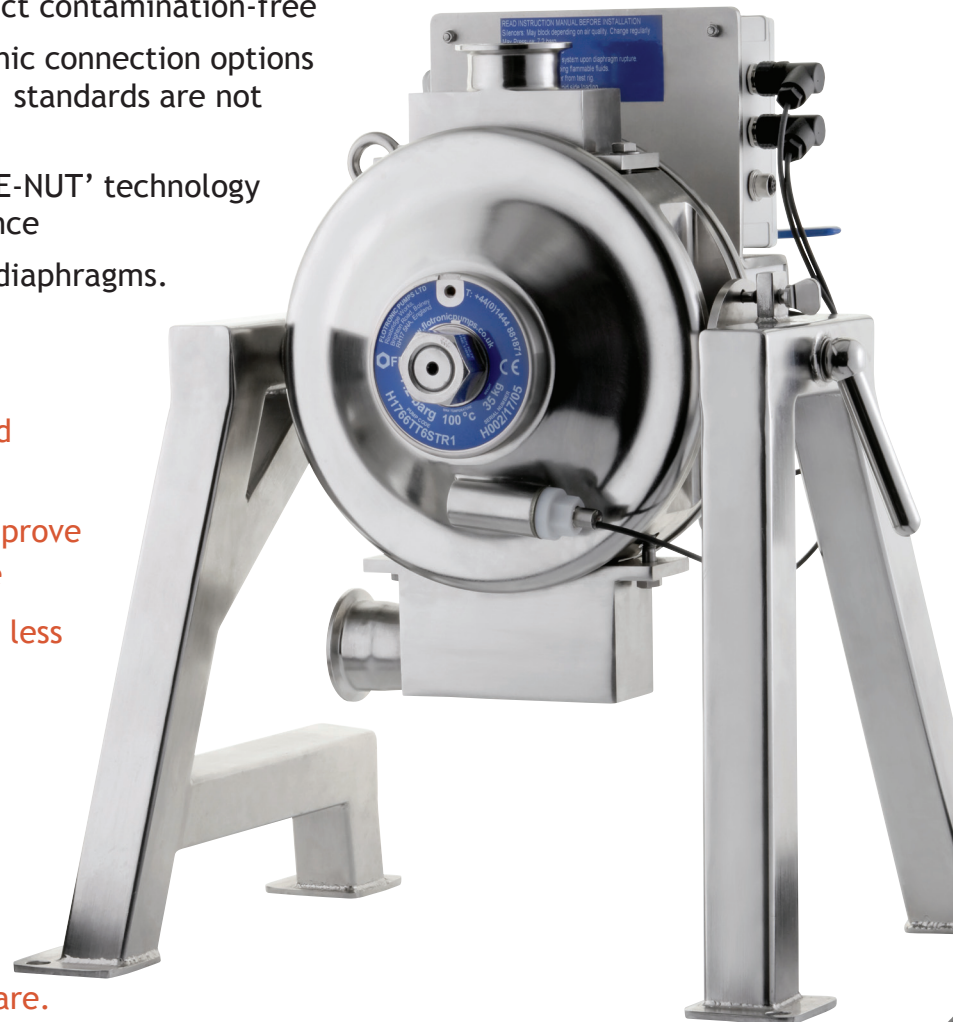
- meeting 3-A Sanitary Standards which ensure:
  - that all product contact surfaces can be mechanically cleaned in place or dismantled easily for cleaning and inspection
  - that only materials which are acceptable for product contact and non-product contact are used in pump construction
- 0.8µm Ra maximum on wetted surfaces with an electro-polished overall finish to aid pump cleaning
- 7", 10" and 12" versions all with 3-A SSI accreditation
- a diaphragm rupture detection system with instant pump shut-down alarm facility to keep product contamination-free
- BS, DIN and ISO hygienic connection options ensuring that hygiene standards are not compromised
- Flotronic Pumps' 'ONE-NUT' technology for ease of maintenance
- Option of reinforced diaphragms.

## All of which help you:

- reduce down time and cleaning costs
- maintain and even improve sanitary levels on site
- prevent wastage with less 'hold up' of product.

## Applications:

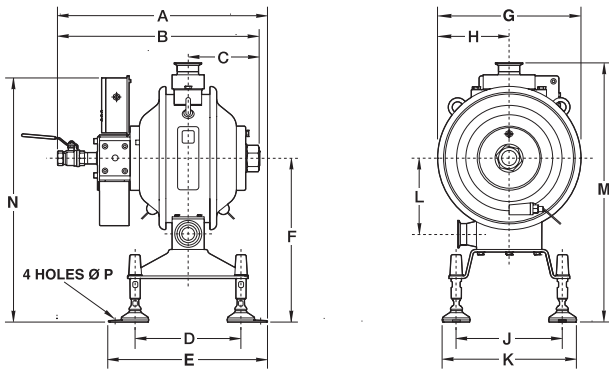
- Dairy
- Food and Beverage
- Pharmaceutical
- Cosmetics/Personal care.



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



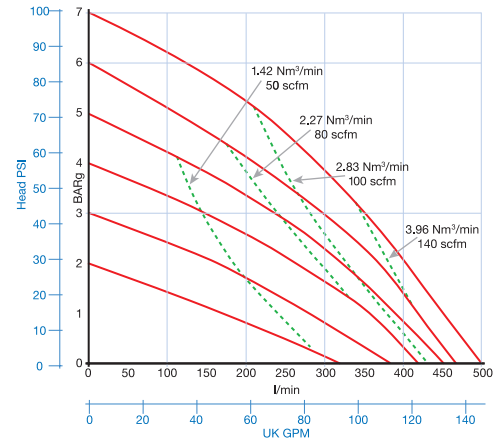
# Technical Data



Maximum operating pressure 7.2 bar (105 PSIG)

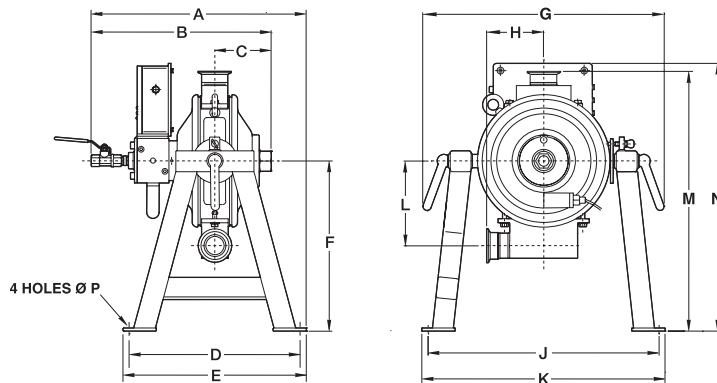
## Flow Rate 12" diameter diaphragm

3"



'H' Series 3-A Pump															Diaphragm Diameter	
Size	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Wt/kg	Diaphragm Diameter
1½"/2"/3"	495	479	170	343	372	389	340	123	250	313	180	616	585	15	75	12"

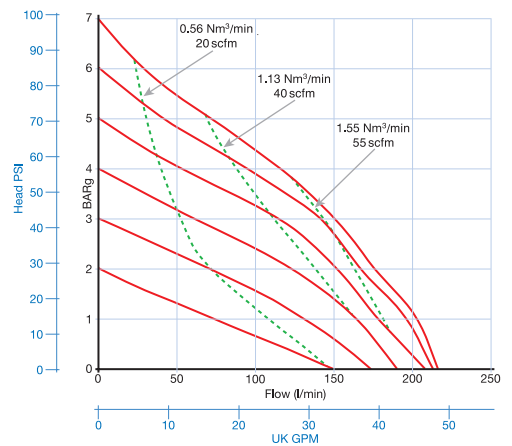
Dimensions in mm



Maximum operating pressure 7.2 bar (105 PSIG)

## Flow Rate 10" diameter diaphragm

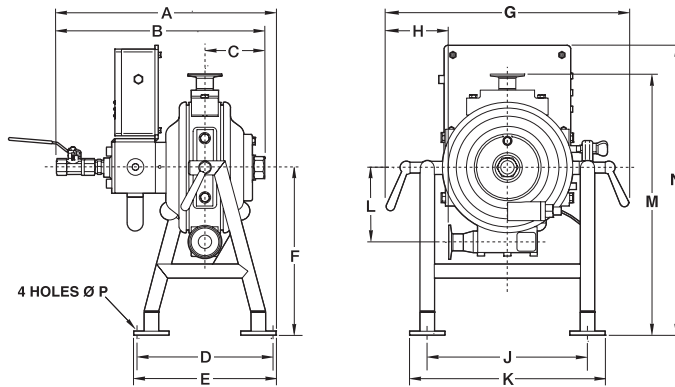
2"



'H' Series 3-A Pump															Diaphragm Diameter	
Size	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Wt/kg	Diaphragm Diameter
1½"/2"	413	345	108	327	351	326	463	109	442	466	162	498	513	13	36	10"

Dimensions in mm

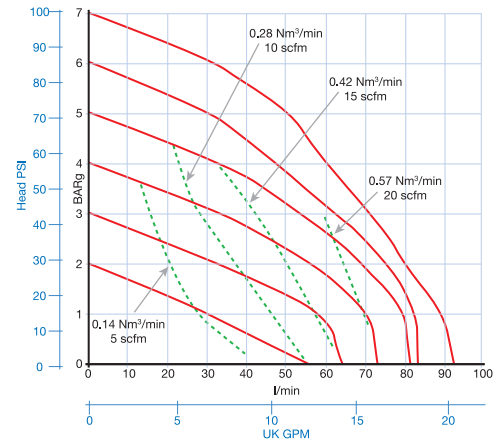
# Technical Data



Maximum operating pressure 7.2 bar (105 PSIG)

## Flow Rate 7" diameter diaphragm

1"



'H' Series 3-A Pump															Wt/kg	Diaphragm Diameter
Size	A	B	C	D	E	F	G	H	J	K	L	M	N	P		
1"	329	312	89	198	213	250	364	88	240	293	111	391	434	7	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.

