

## K Style

## F Series Chemflo virgin and anti-static PTFE pumps

A solid block of virgin or anti-static PTFE housed completely inside an outer metal 'Pressure Vessel' of carbon or stainless steel gives inherent safety whilst retaining 'one nut' maintenance.

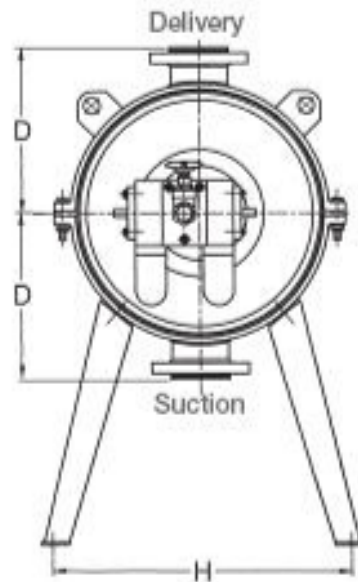
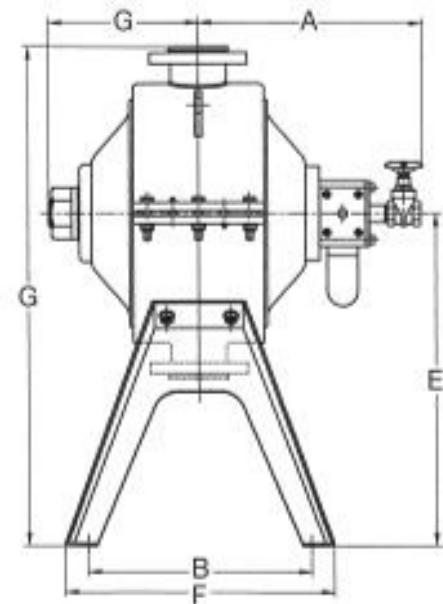
Used for extremely hazardous acids and chemicals where only PTFE can be used and often in pilot plants or as emergency pumps where chemicals are unknown.

The ultimate solid PTFE Double Diaphragm Pump.

A 90° PTFE-lined elbow will fit between the pump legs as shown.

(This part can be supplied by Flotronic if required).

Max operating temp 121°C (250°F) with high temp diaphragm (specify H as 6th digit in pump code)



Maximum operating pressure 7.2 bar (105 PSIG)

Chemflo Virgin & Anti-Static PTFE										Diaphragm Diameter
Size	A	B	C	D	E	F	G	H	Wt/kg	
1"	200	235	550	180	370	300	140	325	42	10"
1½"	230	235	550	180	370	300	140	325	45	10"
2"	230	250	570	180	390	315	140	345	48	10"
2"-3"	350	350	580	260	520	420	235	470	95	14"

Dimensions in mm

# F-SERIES Chemflo PTFE Pump



Fast Maintenance Double Diaphragm Pumps



# F-SERIES Chemflo PTFE Pump

## The ultimate solid PTFE/Teflon Double Diaphragm Pump



- A solid block of PTFE/Teflon housed completely inside an outer metal housing for strength and safety.
- Two piece metal housing supports the PTFE/Teflon body whilst allowing the body to expand freely with varying temperatures.
- Used for extremely hazardous acids and chemicals where only PTFE/Teflon can be used.
- Often used in pilot plants or as emergency pumps where chemicals are unknown.
- **Retains “ONE-NUT” maintenance to access the diaphragms.**
- Sizes from 1” to 3”, with 10” or 14” diaphragms
- Max operating temperature 121°C

Fast Maintenance Double Diaphragm Pumps



# F-SERIES Chemflo PTFE Pump

1" / 1 1/2" / 2" / 3" All PTFE, PVDF or Polypropylene\*  
Air Driven Double Diaphragm Pumps

## "IN LINE" MAINTENANCE

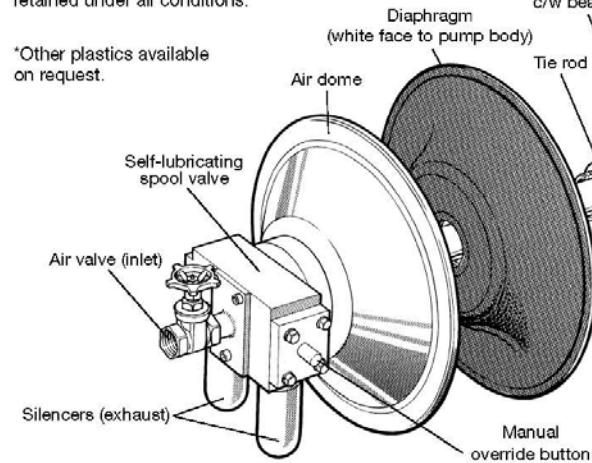
Only one nut to access Diaphragms with pump 'In Line'  
Only four screws to maintain Air Valve with pump 'In Line'

- Self Priming (suction lifts 12ft/3.6m dry and 25ft/7.6m wet)
- Will Run Dry
- Can stop/restart against closed/open valve without pressure relief or damage.

## INHERENT SAFETY

All PTFE, PVDF or Polypropylene components are retained inside a steel casing which allows the plastic to "breathe-cold flow" under pressure and temperature changes. A perfect seal is retained under all conditions.

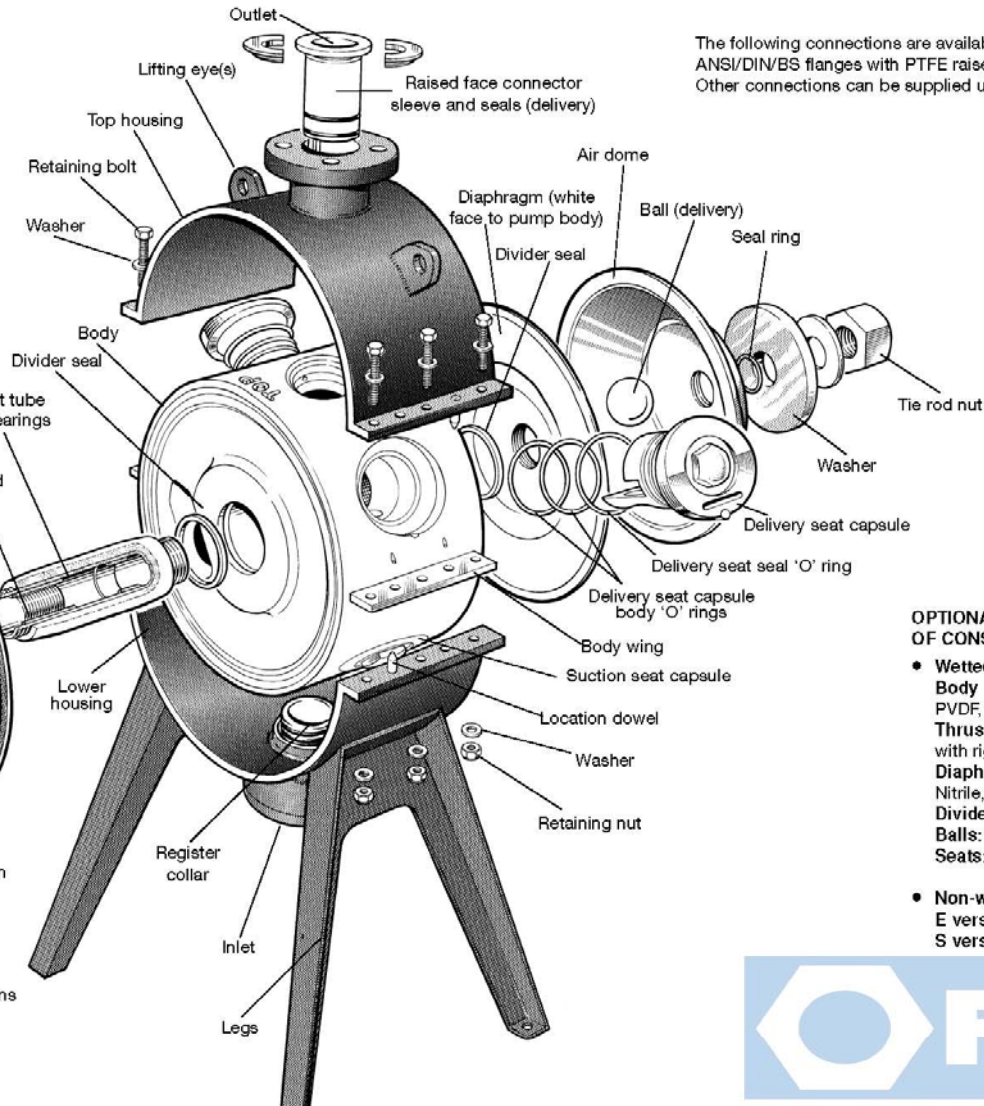
\*Other plastics available on request.



## AIR SYSTEM

A unique design incorporating Thrust tube bearings and a bolt on Aluminium\* Spool valve, including manual override buttons. Latest designs eliminate costly internal air mechanisms and mid position stall normally associated with Double Diaphragm Pumps. No lubrication required.

\*Non-Aluminium pump specification is available with Spool valve in Polypropylene or PTFE.



The following connections are available as standard  
ANSI/DIN/BS flanges with PTFE raised face.  
Other connections can be supplied upon request.

## OPTIONAL MATERIALS OF CONSTRUCTION

- **Wetted parts**  
**Body and Manifolds:** PTFE, PVDF, Polypropylene.  
**Thrust tube:** PTFE with rigid metal core.  
**Diaphragms:** PTFE faced rubber, Nitrile, Viton®, EPDM.  
**Divider seals:** PTFE.  
**Balls:** PTFE, Nitrile, Viton®, EPDM.  
**Seats:** PTFE.
- **Non-wetted parts**  
**E version =** Painted Carbon Steel.  
**S version =** Stainless Steel.



Fast Maintenance Double Diaphragm Pumps