

In presence of any lube oil or Hydro-carbon, N2 Nitrogen is mandatory Otherwise Air

**PROCESS LIQUID**  
"Pumpage"

Dupont "TEFLON" (Virgin) V-PTFE (Modified) M-TFE *FlexFlow* Ceramic Balls

**ELASTOMERS** (Synthetic Rubber) EPDM, Buna Nitrile, FluoroCarbon Elast. Butyl, SiliconElast. etc

**Metals** : Stainless, Duplex, Super Duplex, A20, HC276, Tit .2, Tantalum Zirconium Etc.

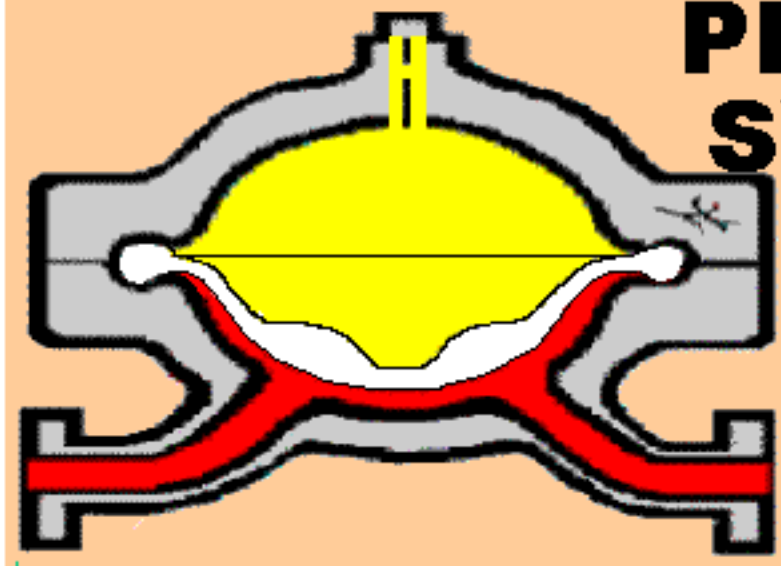
**PLASTICS** examples P.V.C. Poly Propylene

**Cooling / Heating Jacket fluid, or Transfer Fluid in Food & Drug units**



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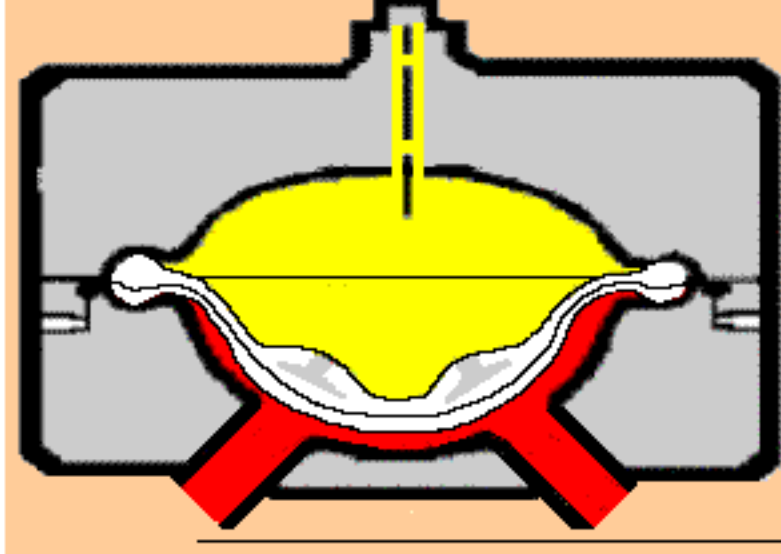
**MARQUE MARK NAME**



**PICTURE SYMBOL**

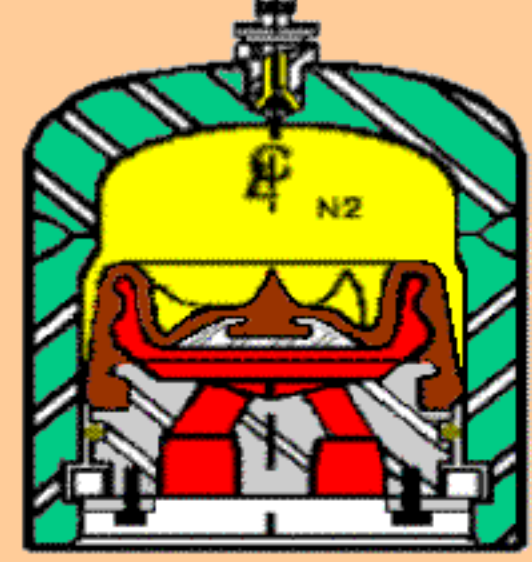
High impermeability M-TFE "**FLEXFLOW**" diaphragm or Virgin PTFE "Teflon", with Stainless Steel etc. housings

**FLEXORBER**  
SoG Low Pressure part numbers



With "**FLEXFLOW**" or "Teflon" diaphragms, Secondary containment sealing, hazard alert ports, 2 diaphragm layers, with track to alert ports from between them.

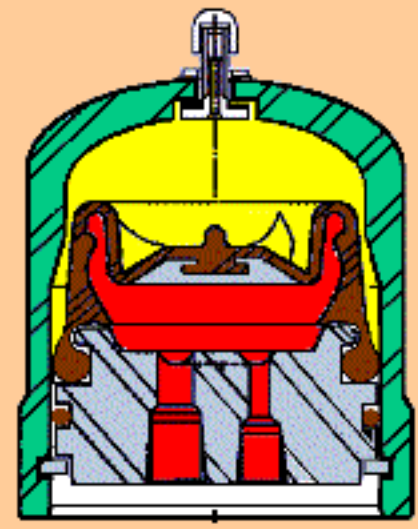
**FLEXORBER**  
FL"O" High Pressure part numbers



**LIQUID IN BLADDER**

Pressure pulse damping & flow fluctuation removal for the CPI. 8:1 Diameter Ratio pipe:shell ensure damping Large Diameter shells at low cost - liquid is in bladder minimizing use of high cost metals.

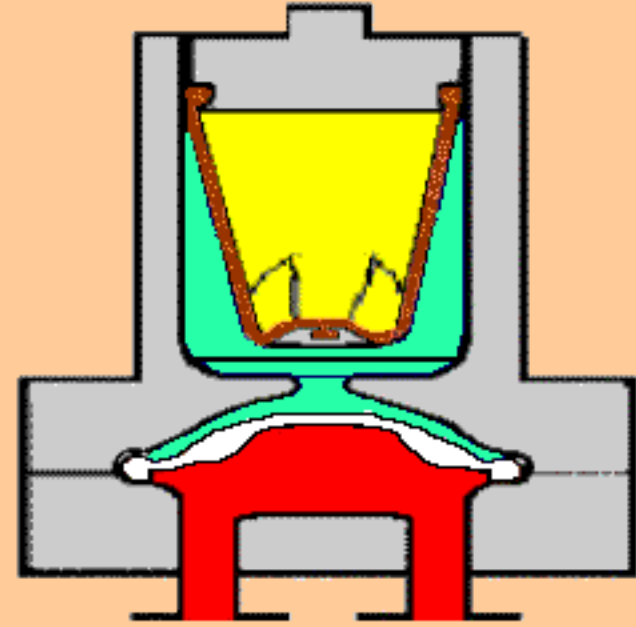
**PIPEHUGGER**  
for High Pressure  
PHr - part numbers



**LIQUID IN BLADDER**

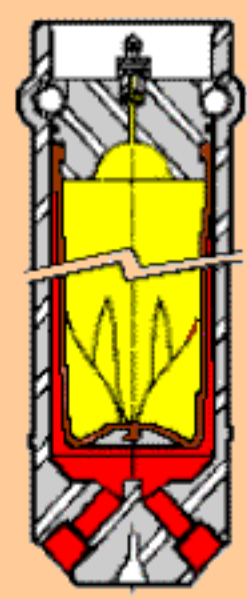
As above, but for low pressure and suction acceleration head loss. Light weight, requires no supports. Male connections at 1" - 3", 25mm - 75mm and above

**PIPEHUGGER**  
for Low Pressure  
PeG - part numbers



For Clean In Place systems flushed at below operating pressure. Examples : Foods, Drugs, Liquid Chromatography, Beverages. Inlet outlet connections widely spaced & volume from top half is less than can drive the process diaphragm fully down.

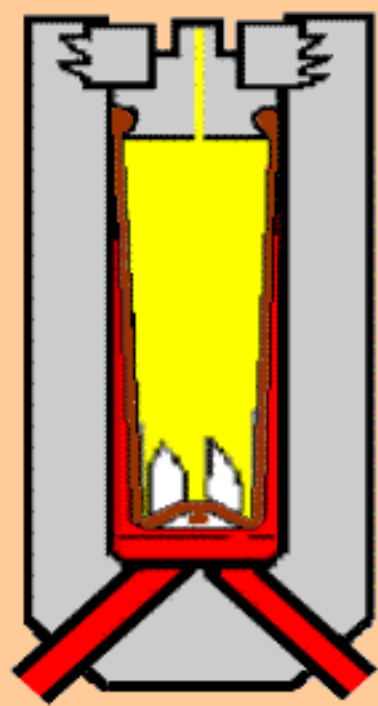
**TUBEGUARD**  
"piggy-back"  
TuG - part numbers



**GAS IN THE BAG & LIQUID IN SHELL**

Slim & long, enables reasonable cost for all stainless shell. Small diameter stiff gas bag suits flow fluctuation removal, Some pressure pulse damping capability from flow through configuration. Partially flushable.

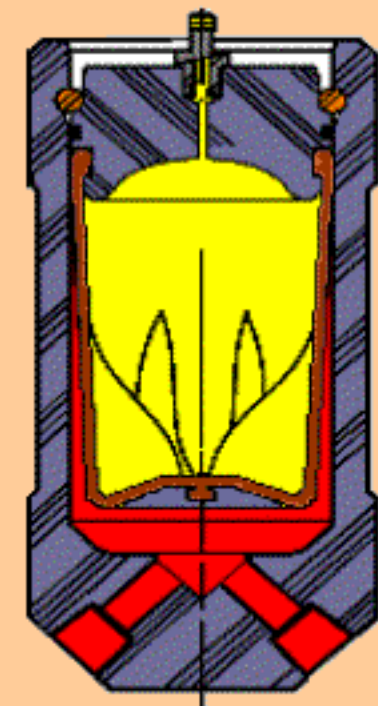
**PIPEGUARD**  
for Low Pressure  
PiG-LP pt numbers



**GAS IN THE BAG & LIQUID IN SHELL**

Available from solid billet, for medium, high, and ultra high pressures. Pipe thread, Hubs, and super pressure fittings all standard. 23 different gas bag materials in inventory. More than 33 years of marine and industrial expertise

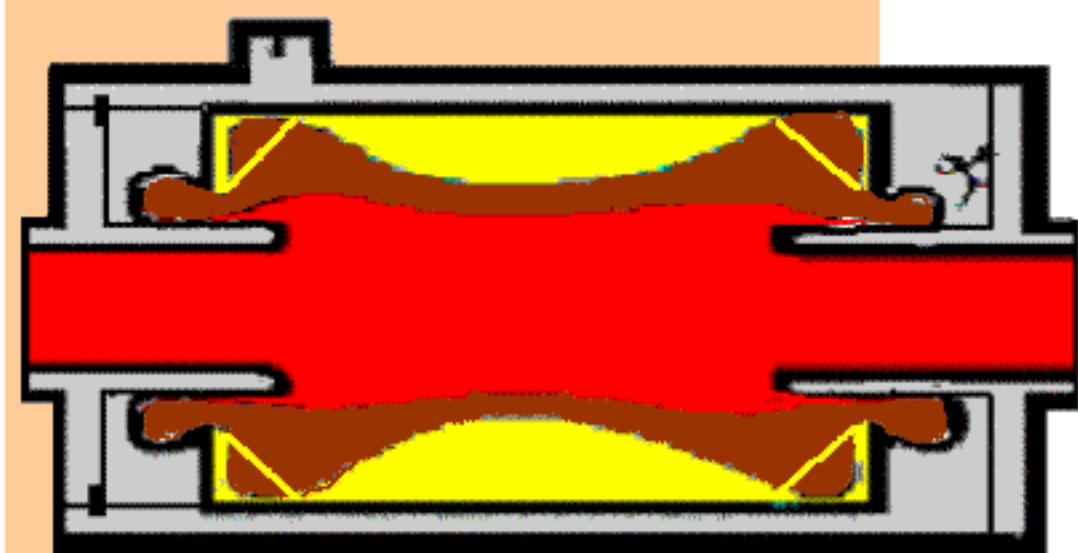
**PIPEGUARD**  
for High Pressure  
PiG-HP pt numbers



**GAS IN THE BAG & LIQUID IN SHELL**

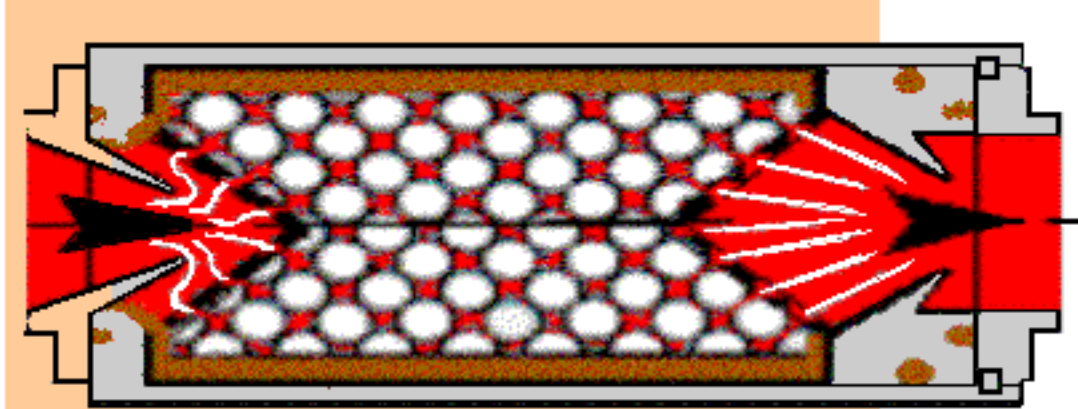
With a maximum design pressure of 225 psi, 15 Bar at 60 F 15 C, 1/8" 3mm through 6" DN 150mm Flanged. 1 in3 15 ml. through 10 gallon 40 Litre, PVC or PP.

**PIPEGUARD**  
for Plastic Pipe Systems  
PiG-Plas pt. Nbrs.



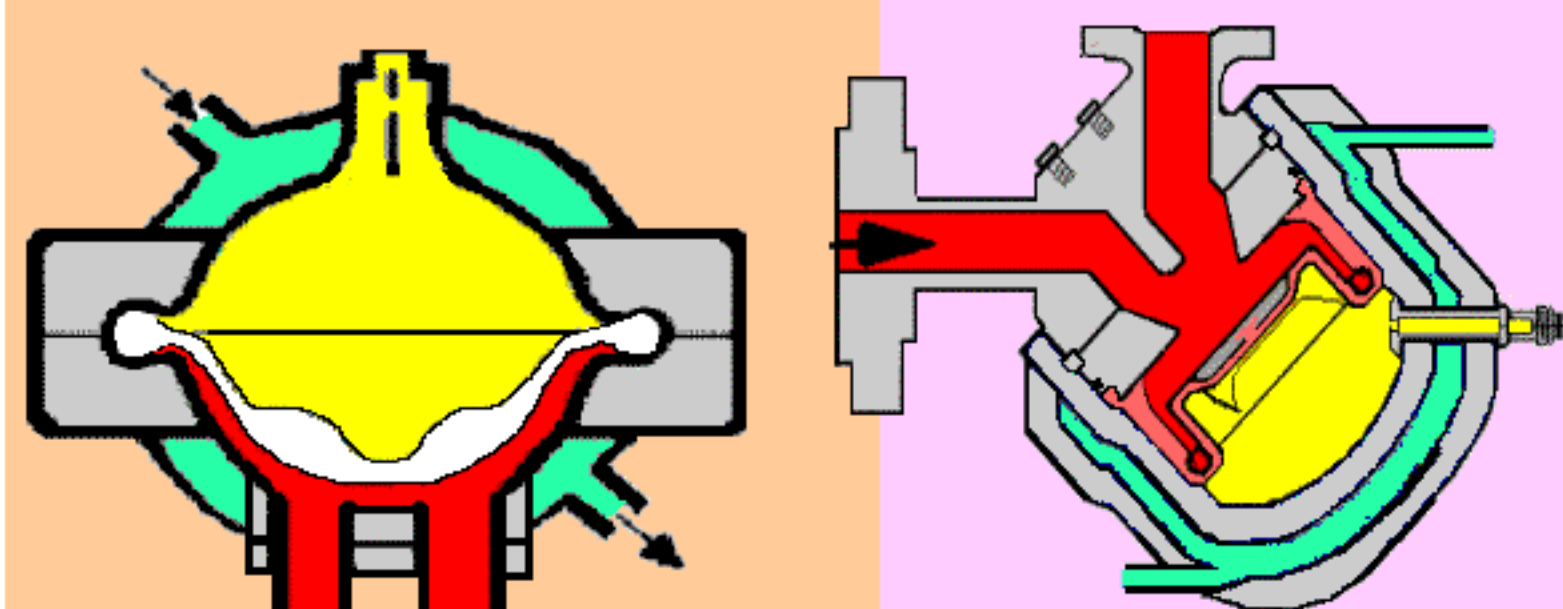
With uninterrupted "**CLEARFLOW**" end to end, designed for suction, sludge, slurry, easily flushable and even rodable. Available with food industry trim and with flow tube from FDA approved elastomer ingredients.

**PUMP GUARD**  
PuG - part numbers



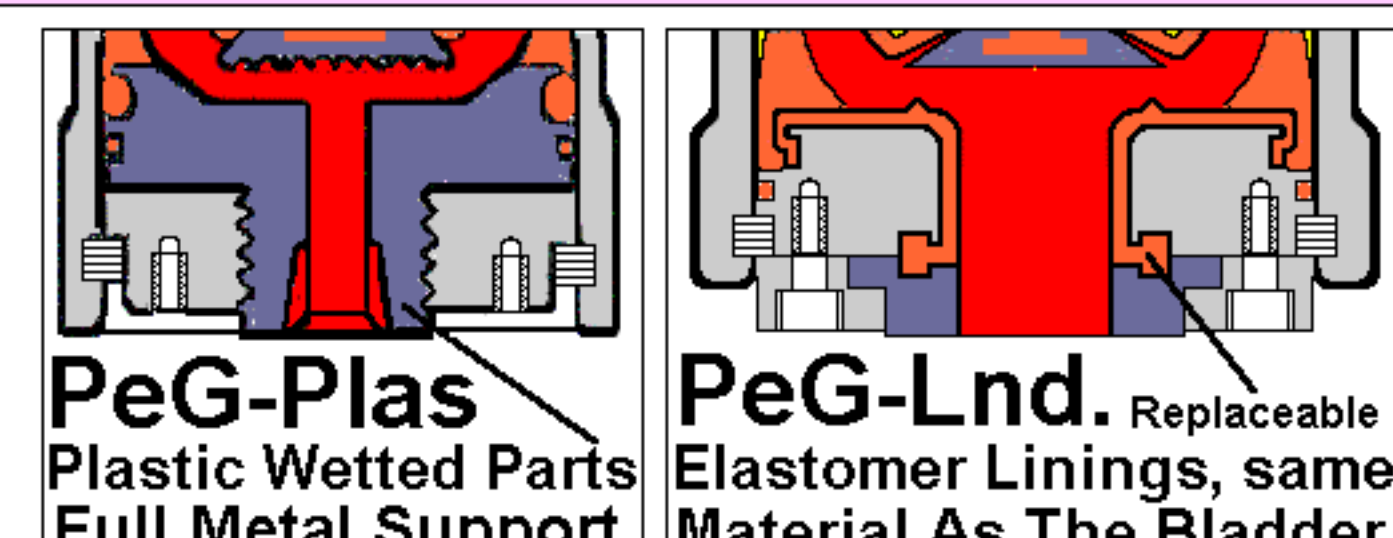
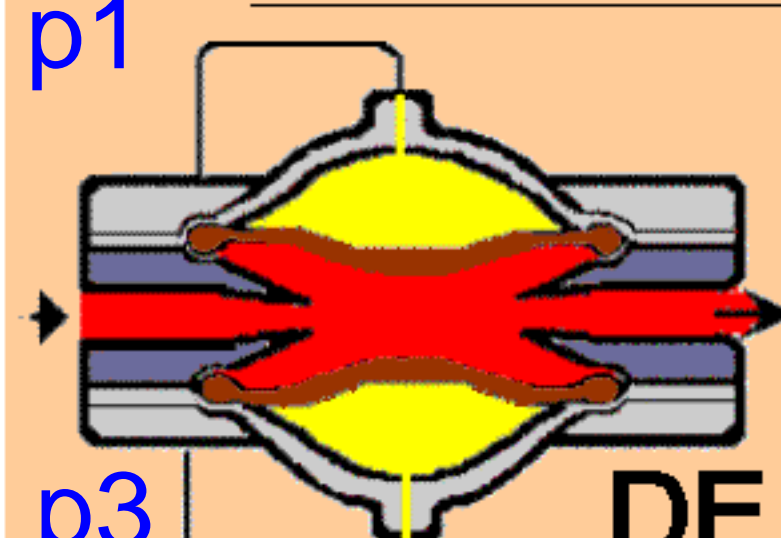
Cyl. Sph. NO MOVING PARTS, no bladder to gas up, no foam to degrade. Multi-path dispersal & the Helmholtz principle  
WaG/ Cer WaG/ H.O.

**WAVEGUARD**  
WaG - part numbers



Cooling or Heating Jackets are readily available using the shell of the next size of unit larger than the damper size that you need, as the jacket

**JACKETED**  
prefix to Part Nmbr. **JKT-**  
Available all types above 60 in3 1.0 Litre



Ferric Chloride, Sodium Hypochlorite Water treatment systems. Strength & Safety of metal housings with resistance of elastomer & plastic parts. 3 types.

**DOUBLEGUARD**  
DE Double Ender  
plsgd-p2.bmp