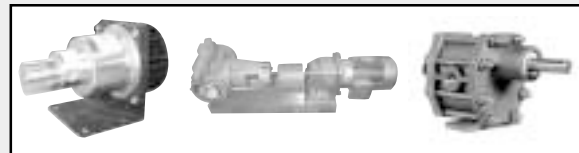


**Gear Pumps** have a positive displacement self-priming design and are known for their smooth, repeatable, metering pump-like dependability in pumping clean, non-abrasive liquids of low to high viscosity. Standard sealed or magnetic drive versions are available.



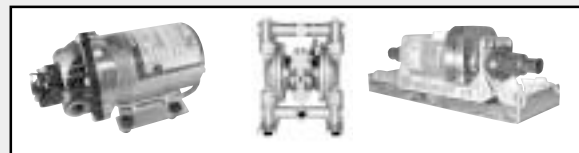
..... [5-20](#), [102](#), [104](#), [118](#), [119](#), [134](#)

**Flexible Impeller Pumps** are a positive displacement self-priming pump design that are capable of solids handling and have a gentle, low shear pumping action for thin to viscous materials. A hygienic/sanitary version is available (see Hygienic/Sanitary section).



..... [21-30](#), [98](#), [99](#), [106](#), [120](#)

**Diaphragm/Oscillating Pumps** are self-priming and dry running. The diaphragm design will lift thin to viscous liquids with low to high solids content with ease. The extremely compact and lightweight design of the oscillating pump will dispense, circulate or spray.



..... [31-42](#), [84-89](#), [103](#), [105](#), [114](#), [117](#), [132](#), [135](#)

**Progressive Cavity/Peristaltic Pumps** are positive displacement, self-priming, solids handling, and capable of pumping thin to viscous liquids. The progressive cavity pump delivers a pulse-free and repeatable flow for normal to shear sensitive liquids. Peristaltic pumps totally isolate the fluid within the hose they utilize.



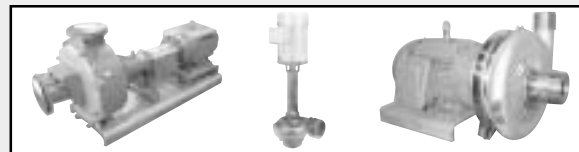
..... [43-47](#), [102](#), [111](#), [118](#), [120](#), [131](#)

**Vane/Roller Pumps** are positive displacement and self-priming. Vane pumps will handle low pressure applications of clean liquids that are thin to medium in viscosity, while the roller design will handle low to high pressure applications of thin liquids that are clean to mildly abrasive.



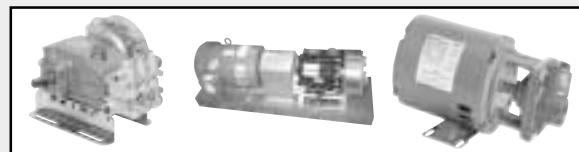
..... [48-51](#), [104](#), [114](#), [115](#), [134](#)

**Centrifugal Pumps** come in self-priming and flooded suction versions that are typically used in low head, high volume applications where recirculation or transfer is required of low viscosity liquids. Miniature to full size units are available in sealed or magnetic drive (also see Hygienic/Sanitary section).



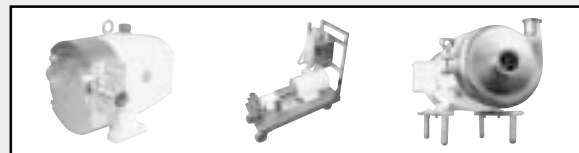
..... [52-83](#), [100](#), [101](#), [124](#), [125](#), [127](#), [130](#), [132](#), [135-137](#)

**High Pressure Pumps** utilize the diaphragm, plunger/piston or the turbine principle. Diaphragm pumps can handle thin to viscous liquids that are clean or abrasive (slurry version available). Plunger/piston and turbine pumps can handle thin clean liquids at medium to high pressures.



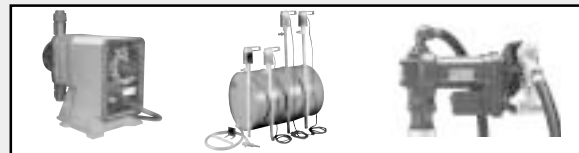
..... [80](#), [84-93](#), [132](#), [137](#)

**Hygienic/Sanitary Pumps** utilize the lobe, flexible impeller, centrifugal, gear, progressive cavity, diaphragm and drum pump designs to handle *any* fluid required in food, beverage, pharmaceutical or bioprocess applications that require 3A, USDA or FDA specifications.



..... [94-106](#), [120](#)

**Drum/Metering Pumps** dispense, dose or meter liquid as you require. Drum pumps dispense liquids from their containers. Metering pumps are available to variably dose or meter *any* type of liquid by manual or electronic control in pulsating or non-pulsating designs.



..... [107-120](#)

**Submersible/Condensate Pumps** are typically centrifugals. Submersible pumps are available in manual or automatic operation and are capable of handling some solids. Condensate pumps automatically evacuate accumulated liquid from the collection reservoir of various types of equipment.



..... [82](#), [83](#), [121-128](#), [133](#), [134](#)

**Specialty Pumps** encompass all pumps that are applied in narrow markets to perform very specific tasks. This section includes a few of these categories including carpet cleaning, machine tool coolant, well test, heliarc welder coolant, and film developing. (Call us on others!)



..... [129-137](#)

**Some pump images in this catalog have been altered or reversed for aesthetic purposes.**