

## Sump Pumps

### **Type MG-VS** **General Service Sump Pumps**

Weinman General Service Sump Pumps are designed to handle drainage water or any liquid waste containing small, non-fibrous solids. Advanced design provides trouble-free service and low-cost operation. The sump pumps provide protection against flooding.

### **Accessories**

**Float Switch** Weinman Sewage Ejectors are furnished with Square D Type GG-2 float switches. It is mounted on an elevated stand and equipped with movable rod and copper float measuring 6 inches in diameter by 9 inches long. Float switch can be furnished with Water Tight Type DW or explosion Resisting Type DR enclosures at additional cost.

**Rubber Bearings** Cutless water lubricated bearings can be used where bearings are submerged or water or liquids can be piped for lubrication and loads and temperatures are not injurious to rubber.

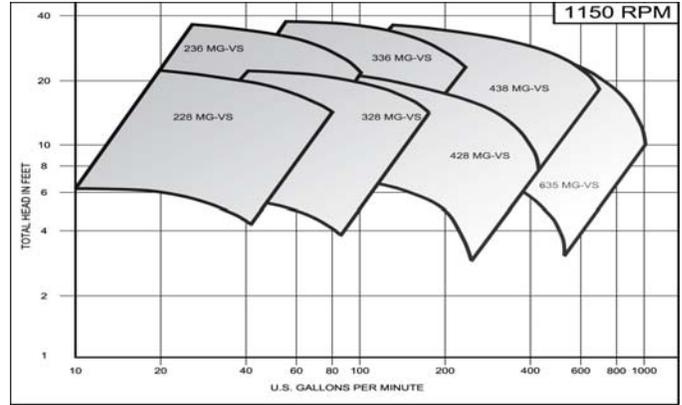
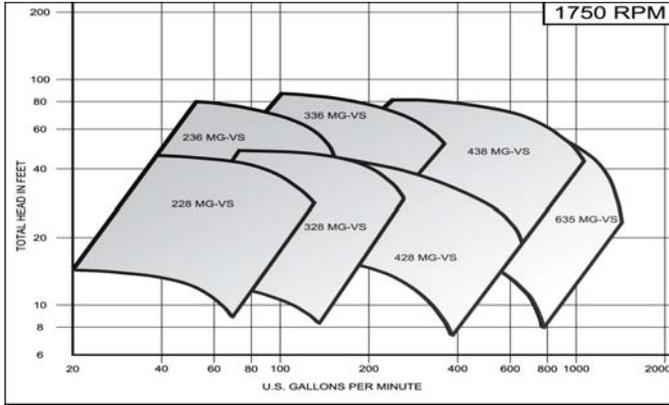
**Mechanical Alternator** Weinman Duplex Pumps are generally furnished with Square D 9038 Type AG mechanical alternator in place of the two float switches. Alternator can be furnished with Water Tight Type AW or Explosion Resisting Type AR enclosures at additional cost.

**High Water Alarm** Apex Markco high water alarm model LLC-1H with switch only, switch and horn, or switch, horn and reset button and panel. Senses static head pressure between media with bellows mounted in NEMA 1 enclosure. Trips microswitch on 2-3" fluid rise with no moving parts in the fluid.

Heads to 90'  
Flows to 1400GPM



### Performance Curves



#### Flexible Coupling

- The rugged Woods or Lovejoy coupling is open for easy inspection. The only wearing part, the rubber sleeve or spider, can be replaced by lifting the motor. No lubrication or adjustment.

#### Thrust Bearing

- The heavy duty angular contact ball thrust bearing is mounted on a thrust collar. The pump shaft is keyed to the thrust collar and is supported on it by the self-locking adjustment of the impeller without removing the motor. The bearing is lubricated by a compression grease cup.

- Individual Grease Lines** to bottom and intermediate bearings.

#### Column Pipe

- The column pipe is made up of standard pipe with steel flanges welded on each end. Each end then has a machined counterbore which registers in the mating part when they are bolted together. This counterbore provides the accurate alignment necessary for long, trouble-free life of the pump bearings.

#### Shaft Sleeve

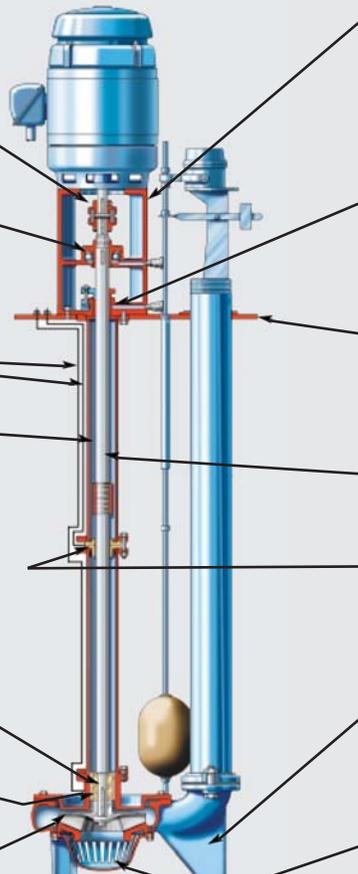
- A renewable type stainless shaft sleeve is standard equipment and provides an economical way of maintaining proper bearing clearances without replacing the whole shaft.

#### Bronze Bottom Bearing

- Optional cutless rubber available.

#### Impeller

- Conventional, semi-open type, designed to handle limited size solids. Impeller is pressed on shaft and held by key and stainless steel screw and washer.



#### Driver Pedestal

- The sturdy cast iron driver pedestal supports the motor at a safe elevation above the floor to prevent flooding. Standard NEMA "C" or "P" flange motors can be mounted without the need of special adapters. The driver pedestal also houses the thrust bearing in a dirt and moisture proof enclosure.

#### Stuffing Box

- The stuffing box is an integral part of the driver pedestal.

#### Cover Plate

- The driver pedestal is bolted to a round or "pear" shaped steel cover plate. Simplex units with manhole and Duplex units are individually mounted on a pear shaped cover to permit removal of the pumps without disturbing the other pump or main cover plate.

#### Drive Shaft

- Ground and polished steel (optional stainless steel) of sufficient size to prevent whipping.

#### Intermediate Bearing

- The intermediate bearing is made of bronze. Spacing of bearings is such as to eliminate shaft whip and vibration. An optional graphitar bearing is available.

#### Casing

- Heavy volute type casing with open back to permit removal of impeller. The casing has an integral cast elbow-type discharge which connects directly to the discharge pipe flange.

- Extra Heavy Duty Casing** of close-grained cast iron for long, corrosive-resistant underwater service.

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#### Crane Pumps & Systems

420 Third Street  
Piqua, Ohio 45356  
(937) 778-8947  
Fax (937) 773-7157

www.cranepumps.com

#### Crane Pumps & Systems Canada

83 West Drive  
Brampton, Ont. Canada L6T 2J6  
(905) 457-6223  
Fax (905) 457-2650

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