



# Rotary Vane Pumps **SVM & SVMP Series**



## SVM Alloy rotary vane pumps

**SVM** Series Rotary Vane Seal-less Mag-drive Pumps are ideally suited for low flow / high head applications. All **SVM** pumps are equipped with zero leakage magnetic couplings to meet the latest toxic emissions regulations.

The absence of mechanical seals or packing glands eliminates costly pump maintenance, lost production time and process contamination.

**SVM** pumps feature self-compensating sliding-vanes which maintain design head and flow capacities for extended operating life. **SVM** vane pumps are suitable for thin non-lubricating liquids and/or high differential pressures without rapid wear associated with gear mechanisms. **SVM** pumps are capable of self-priming from a dry start.

### Features

- Self-priming and can run dry without damage.
- No gears to wear or metal to metal contact, low internal slip.
- Capable of proportioning with variable speed drives.
- Heavy duty casing and rotors machined from wrought alloy bars.
- Heavy duty alloy containment shell for added safety.
- Replaceable carbon cartridge - low maintenance costs.
- Chemically resistant carbon or silicon carbide sleeve bearings.
- High torque magnets, suitable for direct starting motors.
- Pedestal mounted or close coupled design.

### Specifications

- Dry self-priming up to 10 feet (3 m)
- Temperature range from: -100°F (-70°C) up to 480°F (250°C)
- Specific gravities up to 2
- Viscosities up to 2000 cPs
- System pressure rating of 350 PSI (25 bar) with capability up to 6500 PSI (450 bar).

### Available materials

- 316-SS
- Incoloy-825 (Alloy 20)
- Titanium
- Monel 400
- Hastelloy C-276

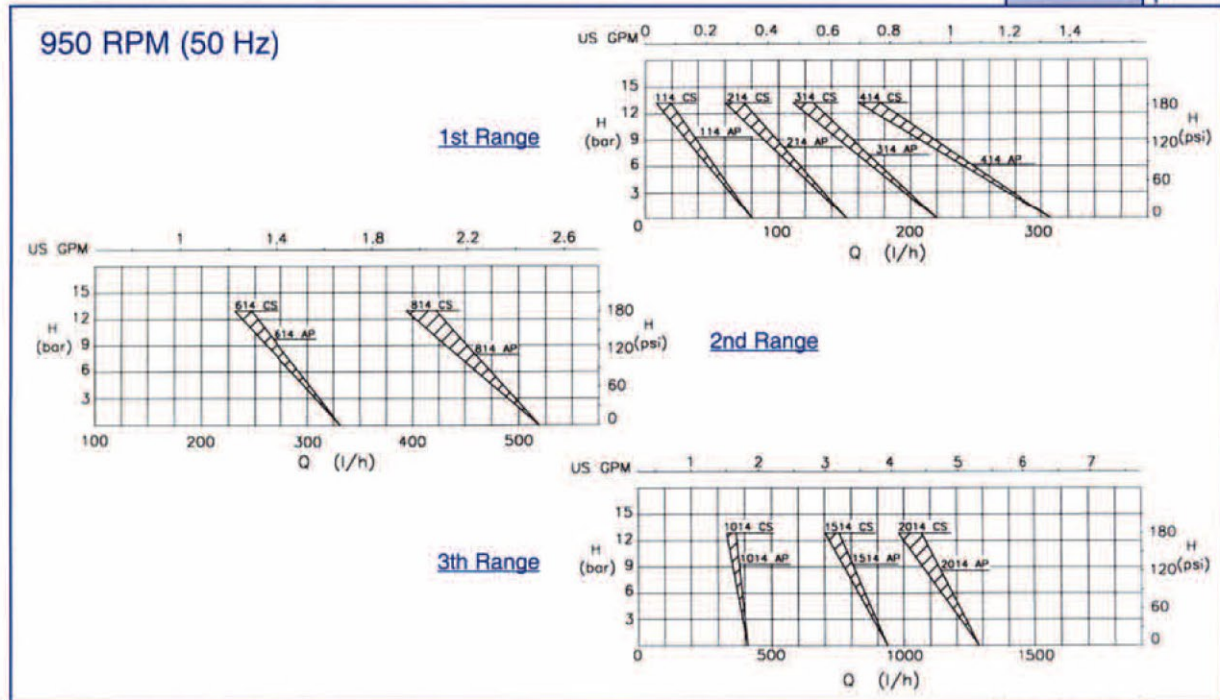
### Options

- Silicon carbide sleeve bearings
- High temperature design
- Flanged ports
- External relief valve.

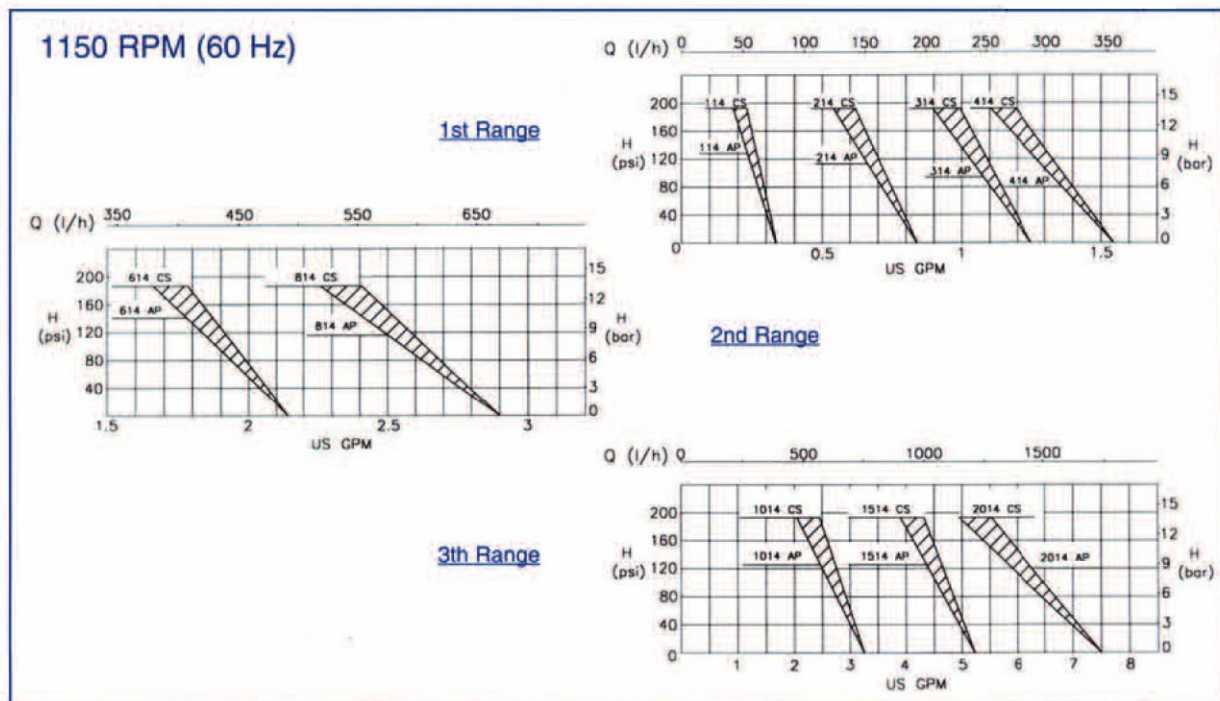
### Application

- Pumping dangerous and radioactive liquids
- Transfer of solvents, acids, alkalies, refrigerants
- Pilot plants, sampling, flushing of mechanical seals.

# SVM PUMP SERIES



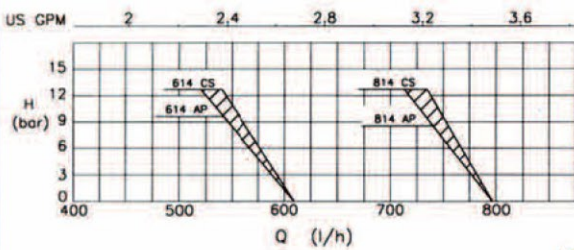
# SVM PUMP SERIES



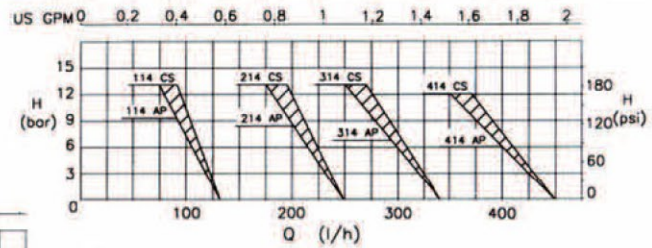
# SVM PUMP SERIES

## 1450 RPM (50 Hz)

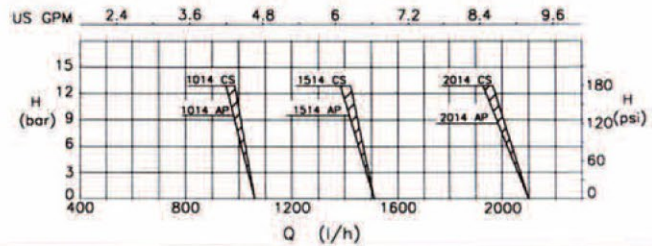
1st Range



2nd Range

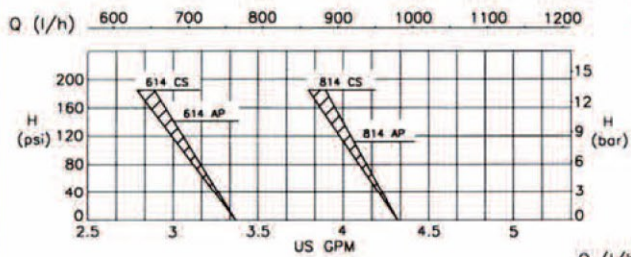


3th Range

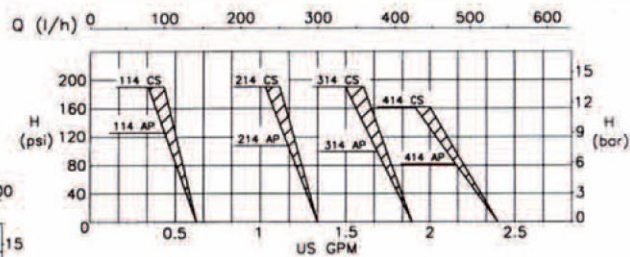


## 1750 RPM (60 Hz)

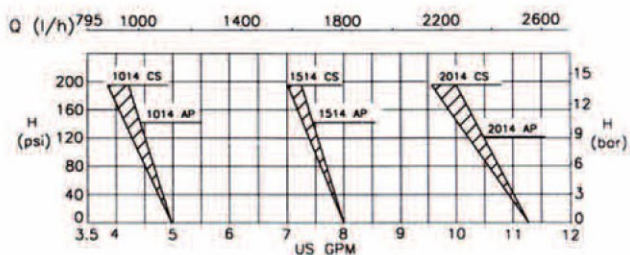
1st Range



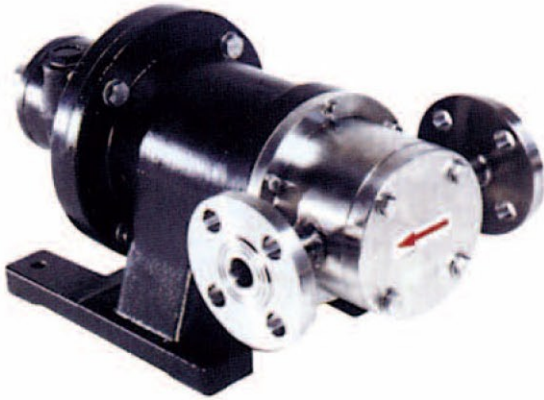
2nd Range



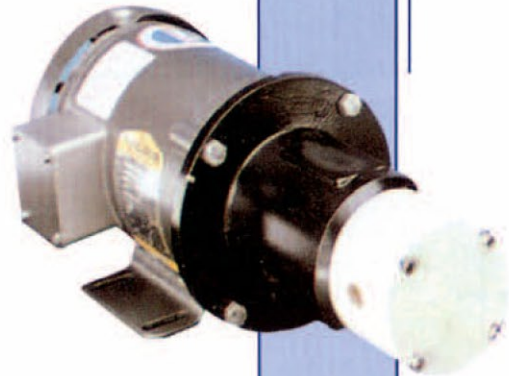
3th Range



## SVM PUMP SERIES

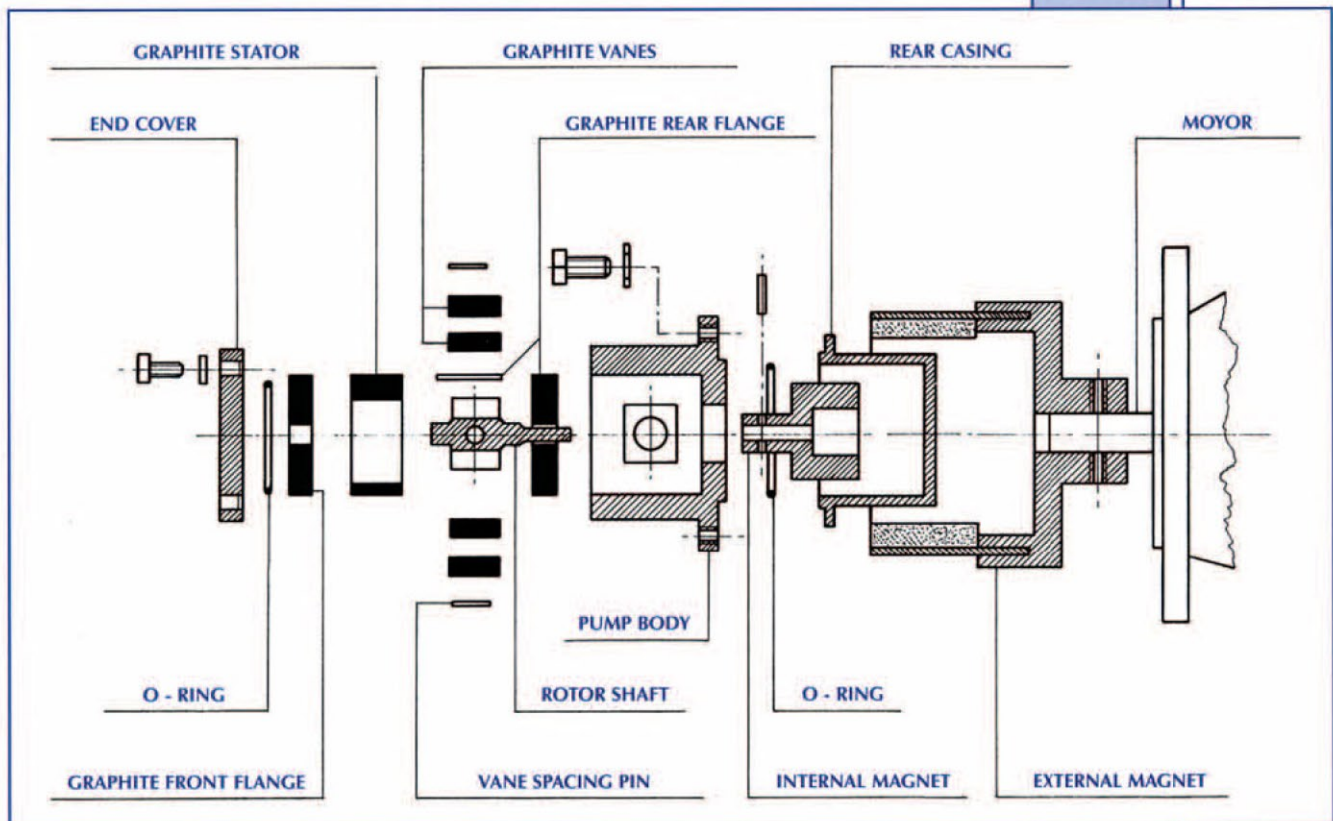


SVM Flanged Pedestal Design



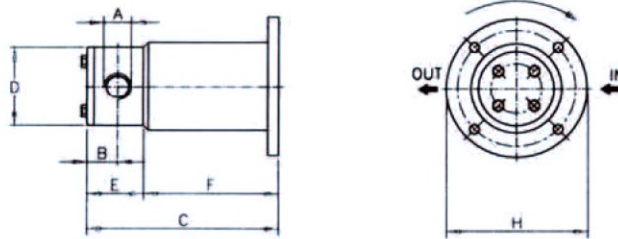
SVMP Thermoplastic Rotary Vane Pump

## EXPLODED VIEW



# SVM PUMP SERIES

## OVERALL DIMENSIONS

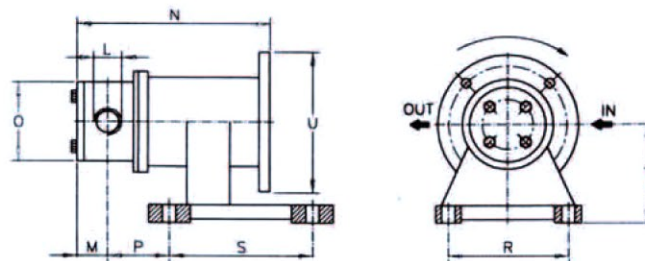


### 1" RANGE

| PUMPS SVM 114 - 214 - 314 - 414 AP-CS |    |     |        |        |        |        |        | mm<br>inches |
|---------------------------------------|----|-----|--------|--------|--------|--------|--------|--------------|
| A                                     | B  | C   | D      | E      | F      | G      |        | WEIGHT       |
| 3/8" FPT                              | 26 | 153 | 70     | 48     | 105    | 140    | 160    | 3.5Kg.       |
| 3/8" NPT                              | 1" | 6"  | 2 3/4" | 1 7/8" | 4 1/8" | 5 1/2" | 6 1/4" | lbs 7        |

### 2" RANGE

| PUMPS SVM 614 - 814 AP-CS |        |     |        |        |        |        |  | mm<br>inches |
|---------------------------|--------|-----|--------|--------|--------|--------|--|--------------|
| A                         | B      | C   | D      | E      | F      | G      |  | WEIGHT       |
| 1/2" FPT                  | 36     | 204 | 95     | 66     | 138    | 200    |  | 6 Kg.        |
| 1/2" NPT                  | 1 3/8" | 8"  | 3 3/4" | 2 5/8" | 5 1/2" | 7 7/8" |  | lbs 12       |



### 3" RANGE

| PUMPS SVM 1014 - 1514 - 2014 AP-CS |        |     |        |        |        |        |        |        | mm<br>inches |
|------------------------------------|--------|-----|--------|--------|--------|--------|--------|--------|--------------|
| L                                  | M      | N   | O      | P      | U      | R      | S      | T      | WEIGHT       |
| 3/4" FPT                           | 47     | 256 | 123    | 90     | 200    | 155    | 192    | 134    | 14Kg.        |
| 3/4" NPT                           | 1 7/8" | 10" | 4 7/8" | 3 1/2" | 7 7/8" | 6 1/8" | 7 1/2" | 5 1/4" | lbs 28       |

# SVMP PLASTIC ROTARY VANE PUMPS

SVMP sliding vane magnetic drive pumps work on the principle of the attraction between two concentric magnets. The lack of a seal and the complete separation between the motor and the pump guarantee the total absence of leaks or contamination of the pumped liquid by external elements, also making pump maintenance easier.

SVMP vane pumps have the body, shaft and rotor fabricated in tough, chemical-resistant polymers; all other parts in contact with the pumped liquid are sintered graphite, while the O-rings are EPDM, VITON or FEP.

All the pumps are fitted with STANDARD motors.

The motors are painted with a protective epoxy coating, and are rated for continuous duty. Explosion proof motors can be fitted.

## Features

- Self-priming and can run dry without damage.
- No gears to wear or metal to metal contact, low internal slip.
- Capable of proportioning with variable speed drives.
- Heavy duty casing and rotors machined from wrought plastic bars.
- Heavy duty containment shell for added safety.
- Replaceable carbon cartridge - low maintenance costs.
- Silicon carbide sleeve bearings standard.
- High torque magnets, suitable for direct starting motors.
- Pedestal mounted or close coupled design.

## Specifications

- Dry self-priming up to 10 feet (3 m)
- Temperature range from: -100°F (-40°C) up to 202°F (100°C)
- Specific gravities up to 2
- Viscosities up to 2000 cPs
- System pressure rating of 200 PSI (15 bar).

## Available materials

- PP-PVDF

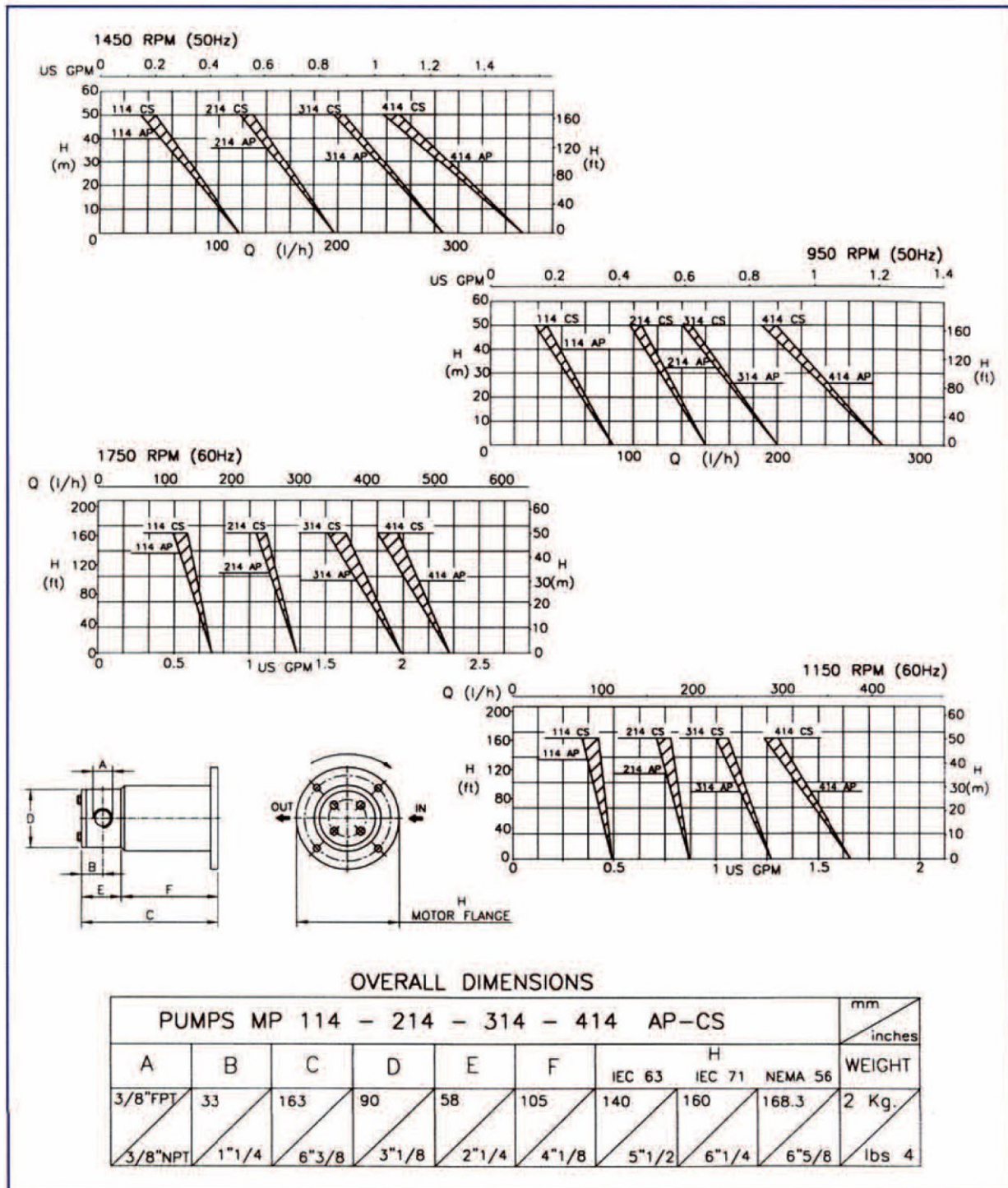
## Options

- Flanged ports
- External relief valve.

## Application

- Pumping dangerous and radioactive liquids
- Transfer of solvents, acids, alkalies, refrigerants
- Pilot plants, sampling, flushing of mechanical seals.

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