



INSTALLATION OF ASM DIAPHRAGM PUMPS

GENERAL

Install the pump level and secure using holes in base plate.

ROTATION

Incorrect rotation will damage the pump and void warranty.

Correct motor rotation is clockwise viewed from the fan end.

PIPEWORK

Never restrict or dead head the pump discharge, damage will occur.

Correct pipe size is a critical factor affecting pump performance and service life.

Refer to ASM pipe selection chart below.

Fit a suction strainer with apertures no more than 25% of pump port size and a minimum clear area 4 times port size.

Pipe work should be airtight, adequately supported and be as short and direct as possible.

Use flexible connectors between pump and rigid pipe work.

Fit an ASM pulsation dampener when a pump is installed with rigid pipe work over 3m in length.

For flexible installations use reinforced suction hose on both suction and discharge sides. Do not use lay flat type hose.

ELECTRICAL

Wire electric motors to manufacturers instructions, usually on the motor nameplate or junction box.

Most 240v motors have built in overload protection, all other motors require overload protection wired into the circuit.

Ensure there is unobstructed airflow to the motor cooling fan.

Protect motors from weather and water.

GEAR REDUCER

Remove vent plug from oil filler cap.

Check oil is visible in sight glass before start up.

Recommended oil. Shell Omala 320 Castrol alpha SP320.

ENGINE DRIVES

Fill engine with correct grade oil before operation. (Refer to engine owners manual)

Do not operate engine without adequate ventilation.

Check oil level regularly.

Maximum pump speed should not exceed 40 strokes per minute.

START UP

ASM diaphragm pumps do not require priming and can run dry without damage.

Open all valves and run the pump.

With the pump delivering liquid check motor current draw is below the full load current on the motor nameplate

| IMPORTANT INFORMATION FOR INSTALLERS | | | | | |
|---|------------------------------|---------------|--------------------------------|---------------|----------------|
| INTERNAL PIPE SIZE FOR ASM DIAPHRAGM PUMPS | | | | | |
| FOR CLEAN LIQUIDS WITH SAME VISCOSITY AS WATER | | | | | |
| PUMP SIZE | SUCTION PIPE LENGTH M | | DISCHARGE PIPE LENGTH M | | |
| | 0 - 5 | 5 - 10 | 0 - 5 | 5 - 10 | 10 - 20 |
| D25 | 25 | 32 | 32 | 40 | 40 |
| D32 | 32 | 40 | 40 | 50 | 50 |
| D38 | 40 | 50 | 50 | 65 | 65 |
| D50 | 50 | 65 | 65 | 80 | 80 |
| D76 | 80 | 80 | 80 | 100 | 100 |
| | SUCTION PIPE ID IN MM | | DISCHARGE PIPE ID IN MM | | |
| NOTE: USE OF PIPES SMALLER THAN RECOMMENDED WILL VOID WARRANTY | | | | | |