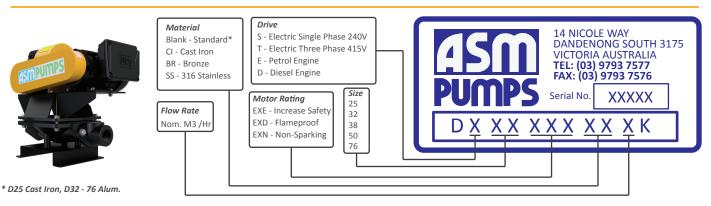
# SERIES INSTALLATION & MAINTENANCE MANUAL



READ THIS MANUAL BEFORE INSTALLING, OPERATING OR SERVICING DIAPHRAGM PUMP FAILURE TO FOLLOW INSTRUCTIONS MAY RESULT IN PUMP FAILURE & VOID WARRANTY



# General

Install the pump in a level position and secure using mounting holes in base plate. Remove vent plug from gear reducer oil filler cap

Check oil is visible in the sight glass. Use high quality 460 grade gear oil. ASM Diaphragm pumps do not require priming and can run dry without damage. For start up ensure all valves are fully open before running the pump. With the pump delivering liquid check the motor current draw is below the full load current on the motor nameplate.

# Electrical

Have the electrical connection installed by a qualified electrician. Connect motor as per the motor manufacturers instructions and fit a motor overload protection device. Ensure there is unobstructed airflow to the motor cooling fan and the motor is protected from the weather and water. The correct motor rotation is clockwise viewed from the fan end.



### Warning Incorrect rotation will damage the pump

## Pipework

Correct pipe size is a critical factor affecting pump performance and service life. Refer to pipe selection chart below. Pipework should be airtight, adequately supported and as short and direct as possible.

Use flexible connectors between pump and rigid pipe work. Fit an ASM Pulsation Dampener if rigid pipework exceeds 3m in length.

For flexible installations use reinforced suction hose for suction and discharge.



Warning Never restrict or dead head the pump damage will occur. Use of incorrect pipe sizes will void warranty

### **Engine Drives**

Refer to manufacturers instructions for commisioning



Warning Maximum pump speed must not exceed 40 strokes per min.

IMPORTANT INFORMATION FOR INSTALLERS					
INTERNAL PIPE SIZE FOR ASM DIAPHRAGM PUMPS					
FOR CLEAN LIQUIDS WITH SAME VISCOSITY AS WATER					
	SUCTION PIPE LENGTH M		DISCHARGE PIPE LENGTH M		
PUMP SIZE	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	80	65	80	80
D76	80	80	80	100	100
	SUCTION PIPE ID IN MM		DISCHARGE PIPE ID IN MM		



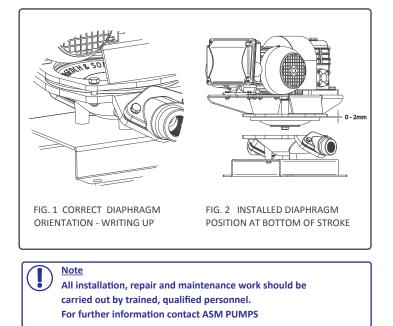
MADE IN AUSTRALIA ASM PUMPS FOR OVER 50 YEARS 14 Nicole Way, Dandenong South, Victoria, 3175 Ph: 03 9793 7577 Email: sales@asmpumps.com. Ph: 03 9793 7577 Email: sales@asmpumps.com.au www.asmpumps.com.au

### Maintenance

After 10 Hours operation check the oil level in the gear reducer and re-tension fasteners if required. After 100 Hours drain reducer, flush thouroughly with a light oil and replace with 460 grade gear oil. Replace gear reducer oil every 2500 Hours there after. The operator should not need to carry out further maintenance, rather inspect the pump on a regular basis and be aware of changes to the pumps normal operation. Diaphragm and valve assemblies are consumable items and will require replacement.

## **Diaphragm Fitting**

Jog pump to take the diaprhagm, Item 3 to the bottom of the stroke. Disconnect power supply. Remove the four clamping bolts holding the drive support housing, Item 12 to the bowl casing, Item 1 and lift the drive support and diaphragm assembly clear. Remove stainless bolt Item 9 for D25 and D32 or nut for D38, D50 and D76. Remove the washer set set Item 10 and diaphragm plate Item 2. Clean and inspect both diaphragm plates and replace washer set. Replace diaphragm. The correct orrientation is with the writing up. See Fig.1 The top outer lip of the diaphragm should be 0 - 2mm from the drive support housing clamp face. See Fig.2 below. The diaphragm position will generally not require adjustment. If required, loosen and adjust the connecting rod nut/s. Mount the drive support and diaphragm assembly onto the bowl casing ensuring the diaphragm is central and located in the groove of the bowl and fit the four clamp bolts



D SERIES DIAPHRAGM PUMPS

