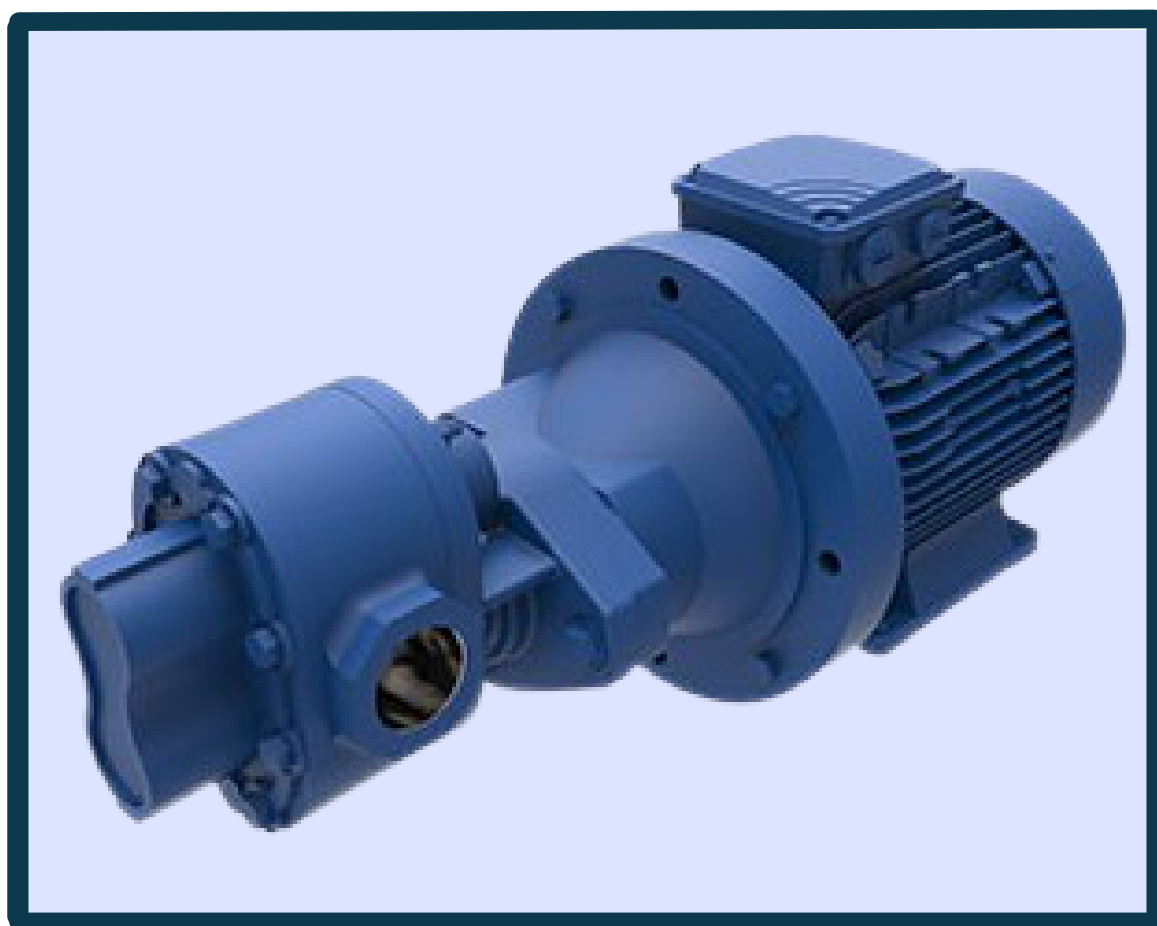




**MIDLAND PUMP
MANUFACTURING COMPANY LTD**

POSITIVELY GEARED TO
YOUR REQUIREMENTS

Midland Group 3 Positive Displacement Gear Pump



**GEAR PUMP GROUP 3
GEAR HEAD WITH DISPLACEMENT**

SEELEYS ROAD, GREET, BIRMINGHAM, B11 2LF
TELEPHONE: 0121 773 8862 EMAIL: sales@midlandpump.co.uk
WEBSITE: www.midlandpump.co.uk



KEY FEATURES

- 32 for gears having 9 teeth, followed by the width of the chamber in millimetres. This range with specific discharge from 0.07 to 0.3 ml/rev, in 6 increments, gives 72 to 285 litre/minute when driven at the recommended maximum speed of 1000 rev/min.
- All sealing options are available with this group of pumps i.e. Lip seals, screw glands and mechanical seals.
- Substantial bearings enable these pumps to be used in demanding situations. The range of bearings includes P T F E wrapped Bush, Needle rollers, Cast iron plain or replaceable bushes and Aluminium bronze bushes.
- Mounting arrangements either, Flange mounting to S.A.E 2B standard, foot mounted top drive or bottom drive close-coupled and long-coupled units electrically driven are covered in datasheets Cat. 6 & 7.

*Scan here to access
our operating
and maintenance
manual*



*Scan here to
quickly access
our flow rates
chart*

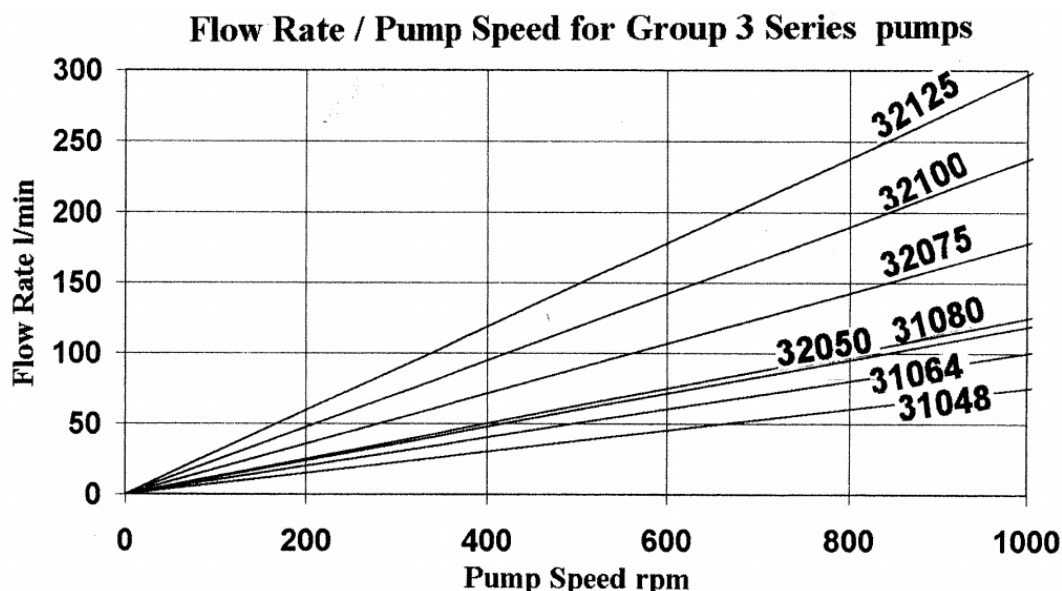


FLOW RATES

Midland pumps are positive displacement, and for most applications output flow is directly proportional to the speed of shaft rotation.

The following graphs, discharge against rotational speed are based on "ideal" conditions - oil with a viscosity of 95 centistokes with the pump running "Free Flow", flooded suction and without any restriction imposed upon the output.

Specific Discharge mL/rev	
Pump	mL/rev
31048	75.2
31064	100
32050	119
31080	125
32075	178
32100	237
32125	297



With thinner materials, the volumetric output is reduced due to "slippage".

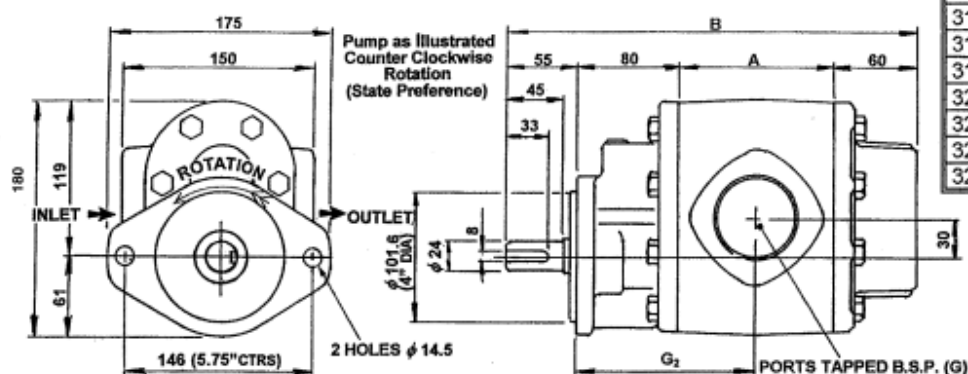
Slippage may be considered an escape of fluid from the output side to the inlet side of the pump through the fixed working clearances within the pump.

Slippage is a function of the internal clearances, the viscosity of the fluid, the differential pressure across the pump and in part upon the speed of shaft rotation.

Midland has available and will furnish on request slippage characteristic graphs for all sizes. These form part of our advanced data package, which includes information relating to pump driver power, speed reduction criteria and power corrections for very viscous materials. Our skilled engineers will willingly advise and assist in the selection of the pump for your requirement.

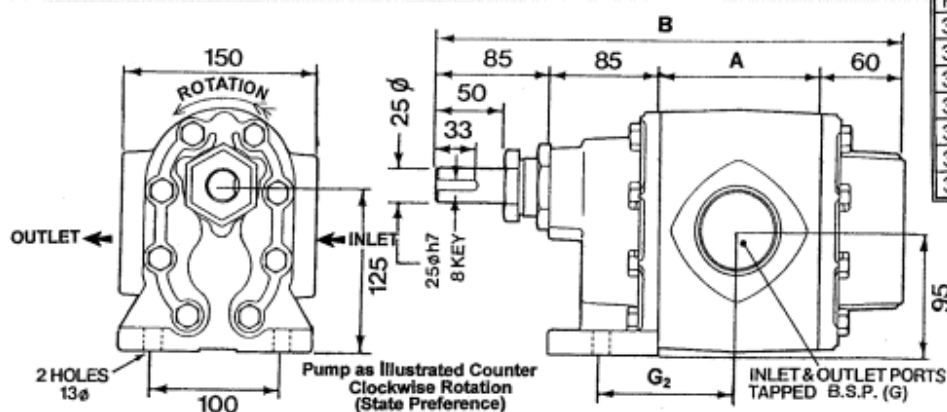


TECHNICAL DRAWINGS



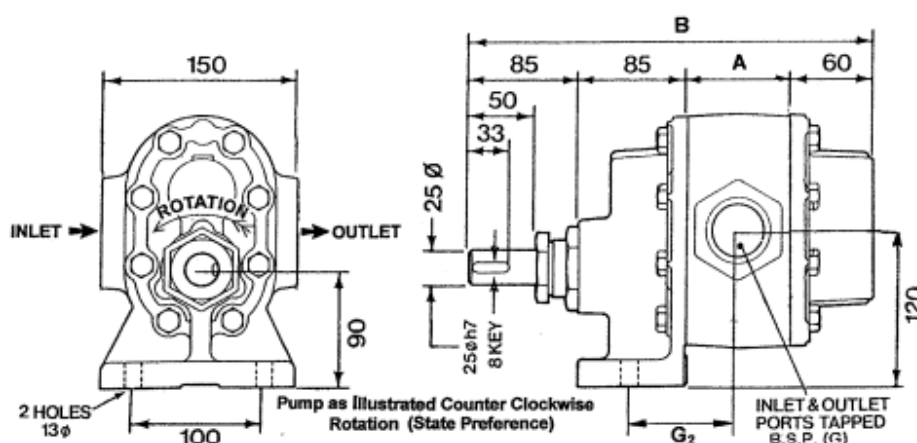
Group 3 Flange Mounted

Pump	A	B	G2
31048	48	243	104
31064	64	259	112
31080	80	275	120
32050	50	245	105
32075	75	270	117.5
32100	100	295	130
32125	125	320	142.5



Group 3 Top Drive Shaft

Pump	A	B	G2
31048	48	273	69
31064	64	289	77
31080	80	305	85
32050	50	275	70
32075	75	300	82.5
32100	100	325	95
32125	125	350	107.5



Group 3 Bottom Drive

Pump	A	B	G2
31048	48	273	69
31064	64	289	77
31080	80	305	85
32050	50	275	70
32075	75	300	82.5
32100	100	325	95
32125	125	350	107.5