

Williams[®] Machine & Tool

MANUFACTURERS OF HYDRAULIC COMPONENTS AND SYSTEMS

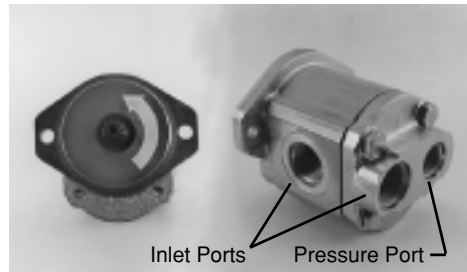


CAUTION

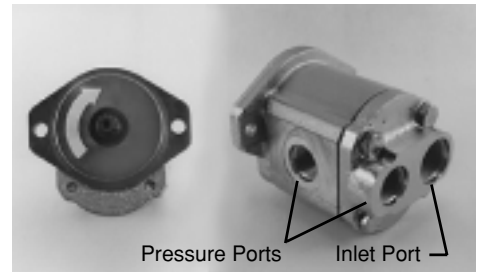
The gear pump you have purchased is a uni-rotational (single direction of rotation) pump. The installation of this pump into a system with an incorrect direction of rotation for the pump may result in personal injury and/or damage to the pump and/or system!

The direction of rotation for your pump can be verified by using the chart, photographs, and descriptions shown. (NOTE: CW = clockwise viewing drive shaft end; CCW = counter-clockwise viewing drive shaft end).

WILLIAMS p/n	Rotation
2536	CCW
2284	CCW
2282	CCW
2276	CCW
2272	CCW
2280	CCW
2296	CCW
2294	CCW
2288	CCW



Counter-Clockwise Rotation Shown



Clockwise Rotation Shown

Pump shaft rotation is determined by viewing pump from the shaft end. For pumps driven clockwise, the larger inlet port must be on the left hand side when looking at the pump from the shaft end and for counter-clockwise rotation, the larger inlet port must be on the right hand side.

Any combination of inlet and outlet ports may be used: i.e., large rear inlet port with small rear outlet port, OR large side inlet port with small side outlet port, OR large rear inlet port with small side outlet port. The remaining (unused) ports should be plugged according to the table below.

The following chart specifies torque requirements for the SAE port plugs installed in the side or rear ports of your Gear Pump.

PORT SIZE (SAE)	TORQUE (ft-lb)	TORQUE (N-m)
3/4 - 16	15 - 20	20 - 27
7/8 - 14	20 - 25	27 - 34
1-1/16 - 12	30 - 35	40 - 47
1-5/16 - 12	45 - 50	61 - 68
1-5/8 - 12	65 - 70	88 - 95

204 PLASTIC LANE MONTICELLO, IA 52310 USA

Phone: 319-465-3537 Fax: 319-465-5279

E-mail: Info@energymfg.com Web site: www.williamsmachineandtool.com

