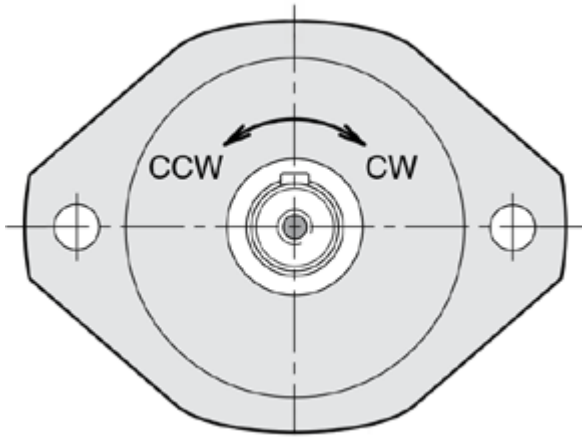
LIFCO HYDRAULICS INC

TECHNICAL ARTICLE
TA-LIF-007

DIRECTION OF ROTATION ON MOTORS RUNNING AS A PUMP

Parker F11/F12



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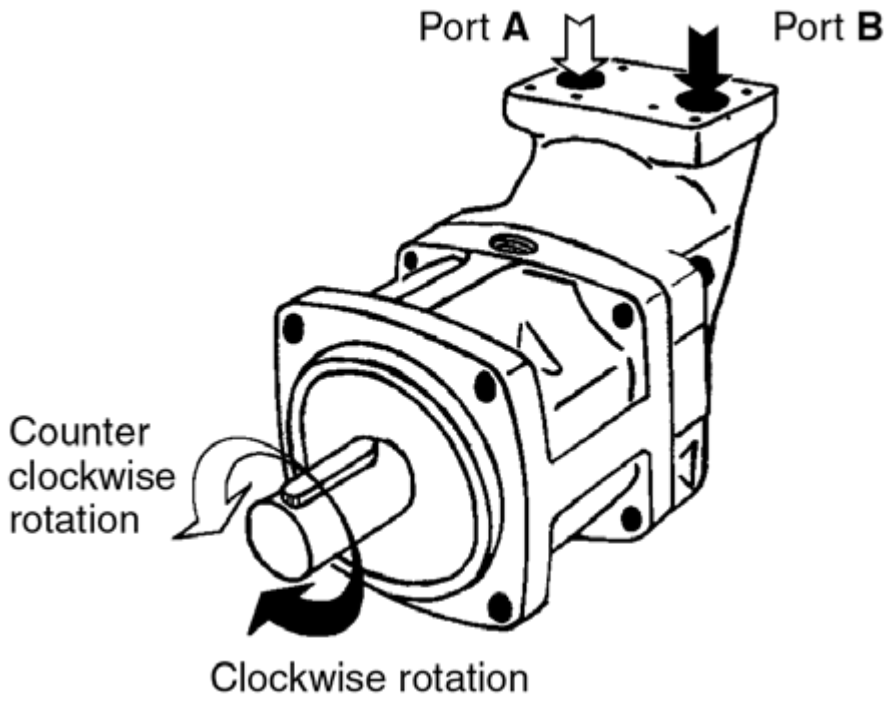
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Product: Parker F11/F12 Motor
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The Parker F11/F12 is a bent-axis, fixed-displacement hydraulic motor/pump unit. Depending on the application, it can operate as either a hydraulic motor or a hydraulic pump.

When running as a pump, the direction of shaft rotation determines which port serves as the inlet (suction) and which serves as the outlet (pressure). The correct port connections depend on the direction of rotation when viewed from the shaft end.

Clockwise (CW) rotation: Port B is the inlet (suction), and Port A is the outlet (pressure).

Counterclockwise (CCW) rotation: Port A is the inlet (suction), and Port B is the outlet (pressure).



Both ports may be the same size, so port size alone cannot be used to identify the suction and pressure connections. Always check the port markings and confirm the direction of rotation before connecting the unit.

A simple visual tip: Think of the unit like a banana. Hold the shaft end and look over the body toward the ports. This helps you orient the unit consistently when identifying the left and right sides. However, left and right depend on how the unit is positioned.

Use the A and B port markings and the rotation diagram in Parker's documentation as the final reference.

Note that the case drain must always be connected to the tank. Before making the connection, verify that the selected port is designated as a case drain port.

