

PUMPAC Pump Company Introduces **Cycle Counting** for Air-Driven Double Diaphragm Pumps



Why Count Cycles? Counting the number of cycles provides a method of measuring how much fluid is being transferred through the pump. Every time a cycle is completed, an impulse is sent from the cycle count valve. This impulse can be interpreted by a data acquisition center for automated input to a PC, PLC, relay or switch. The control device can then regulate a valve on the air line or fluid discharge line based on a measured number of cycles.

Note: The pump must be calibrated prior to set up to determine the amount of product transferred for a pump cycle. Changes in air capacity and pressure, fluid line size, viscosity and other factors can affect the amount of fluid transferred in a cycle.

What Applications Benefit from Cycle Counting? Knowing the number of cycles elapsed is ideal for 1.) monitoring how much additive a system has received, 2.) adding a precise dose of fluid based on a set number of cycles or 3.) for cycle based maintenance rather than time interval maintenance. Due to fatigue, diaphragms have a cycle life. When pumping aggressive or hazardous fluids, a total cycle count is valuable information for a preventive maintenance program. With use of the cycle count valve, the number of cycles elapsed can be monitored from any work station which is networked with the cycle counter.

What size pumps offer Cycle Counting? The cycle count valve is compatible with 1/2", 1", 1-1/2", 2" and 3" pumps.

What components come with the cycle count valve? The cycle count valve is integral to the air valve. The sensor wire (24G 2 wire cable, 24" long) at the bottom of the air valve is provided (see photo). The configuration for data acquisition and control is not provided.

To Order...

To order a pump with the cycle count valve assembled on the pump, add Option Code –A42 to the pump model number. The List Price Adder is \$30.00.

To order the cycle count valve separately for use with a Pumpac pump you currently own, use the following part numbers for the appropriate pump size:

<u>Product Line:</u>	<u>Part Number:</u>	<u>List Price:</u>
1/2" & 1" Clamped Pumps (Polypropylene air valve body)	40010-60	\$108.00
1/2" & 1" Clamped Pumps (Nylon air valve body)	40010-43	\$126.10
1/2" & 1" Bolted Pumps	42010-60	\$111.55
1-1/2" & 2" Pumps	45110-60	\$119.50
3" Pumps	50010-60	\$170.25

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