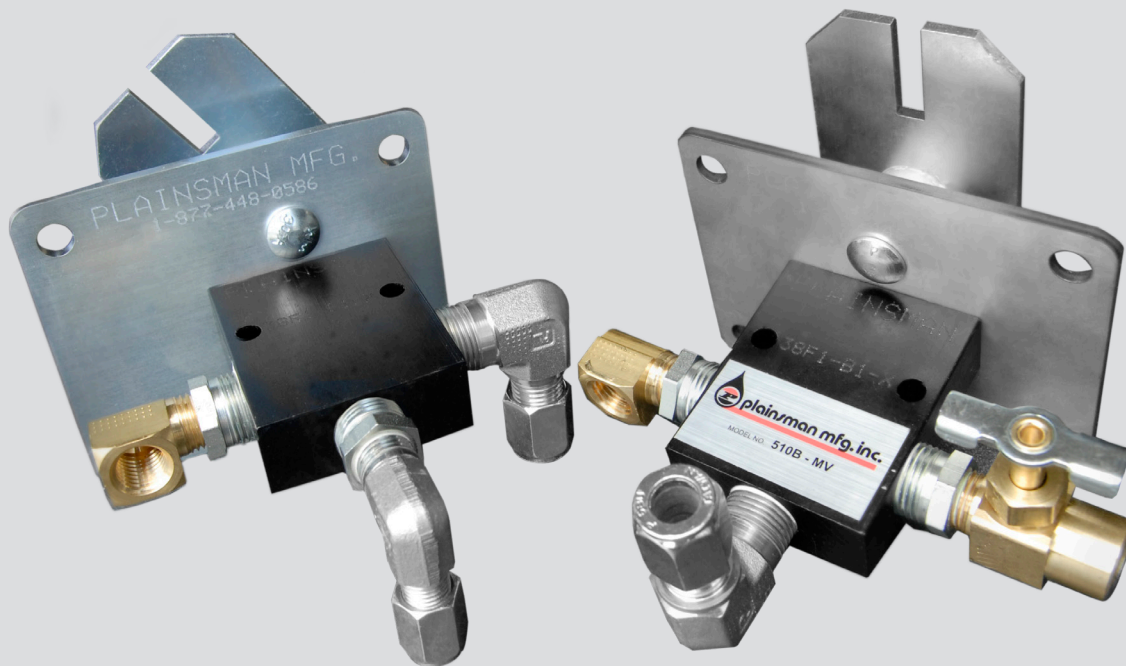


Plainsman Chemical Pump Micro Valve Assembly

The Plainsman Micro Valve Assembly includes a patented trigger mechanism and modified micro switch that improves pump performance and extends life. It increases the micro switch life three fold and allows stroke rates below three strokes per minute. The Micro Valve Assembly can also retrofit existing 5100 or 5000 style diaphragm pumps.

FEATURE	BENEFIT
A. Stroke rates below 3 strokes/min	Cost savings due to decreased chemical consumption Pump consumes less fuel gas
B. Trigger plate extends the life of the micro switch	Cost savings due to longer lived micro switch
C. Compatible with Texsteam series 5100, CVS series 51 and Flomore series 5200.	Can retrofit existing pump styles with Plainsman Micro Valve Assembly
D. Also available for 5000 series diaphragm pumps	Can improve different model pumps with same proven technology



Plainsman Model 510B-MV Reverse
Acting Trigger Plate Mechanism
U.S. Patent No. 6,263,777
Canadian Patent 2,294,410

Example 'A'

- An operator is using a Plainsman pump with a 3/8" plunger operating at 1.5 strokes/min to produce a required 5 liters/day
- Most switches stall at less than 3 strokes/min, which requires an end user to pump more than the required 5 liters/day
- Net savings in chemical is 2 liters/day. Using methanol at a cost of \$1.20 per gallon, savings are \$.60/day
- Net savings in vented fuel gas (148 cubes per day per gallon) \$.50/day

Example 'B'

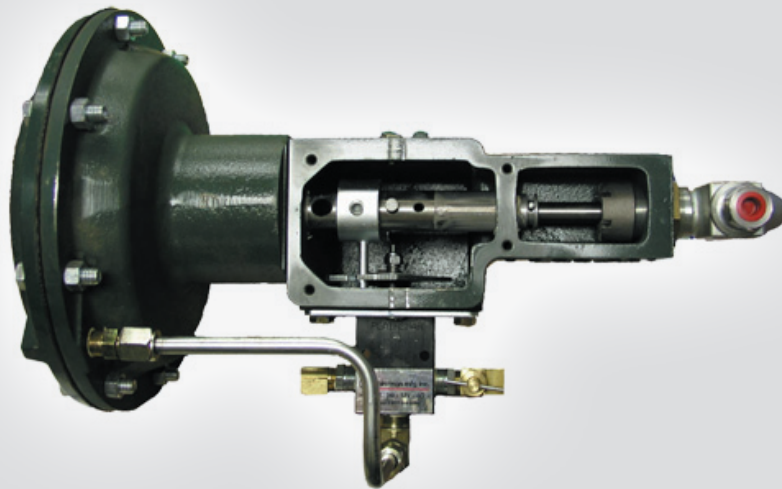
- The Plainsman trigger plate triples the life of a standard micro switch
- Net savings is 2 switches per life cycle plus labor estimated at \$250.00

Technical Specifications

- Tested to over 16 million cycles
- Maximum Inlet Pressure: Up to 35 psi is the normal operating range (higher supply pressures are accommodated with a regulator)
- Stroke Rate: 0-30 strokes/min. at 35 psi inlet pressure is the normal operating range

Ordering Information

- Specify the model 510B-MV or 500B-MV assembly kit if you are converting an existing pump
- Special conversion kits are available to convert pumps in the field without removing the rod and diaphragm, please ask our salespeople for more information
- Specify the model 510B or 500B-MV with your choice of head material and plunger size, and the prefix "MICRO" if you are ordering a new pump



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