



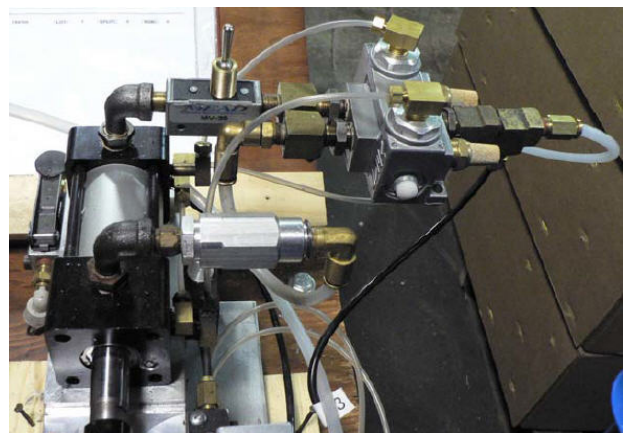
Reciprocating Test Circuit Eliminates Wiring Problems

Challenge:

A manufacturer of plastic component assemblies needed to set up a fatigue/life testing fixture for a series of their product. The customer didn't want any electrical wiring or externally mounted position sensing switches in the vicinity of the test area.

Solution:

Bimba|Mead developed a simple, single-connection, all pneumatic unit to meet all of the customer's requirements. The test unit is started and stopped by an MV-35 toggle valve that is located on the top of the unit. When the cylinder reaches the end of stroke, an Inter-Pilot® signals and shifts the NOVA valve, causing the cylinder to retract, resulting in a reciprocating motion. The rate of reciprocation is controlled using the Dyla-Trol® flow control, which is mounted at the front head port. It can be adjusted from a stall condition, or 0 cycles per second, up to 2+ cycles per second (maximum rate depends on flow supplied to the system).



Benefits:

- Fully pneumatic sequencing.
- Adjustable reciprocation rate.
- All standard Bimba|Mead Catalog items = 2-3 day lead time for entire system.

Other Applications:

- Driving Liquid Pumps
- Mixing/Agitating
- Driving Pneumatic Pressure Boosters