

# CASE STUDY

Flow Products

MAY 2021

**PRODUCT CATEGORY:**

*Hydraulic Power Unit (HPU)*

**INDUSTRY:**

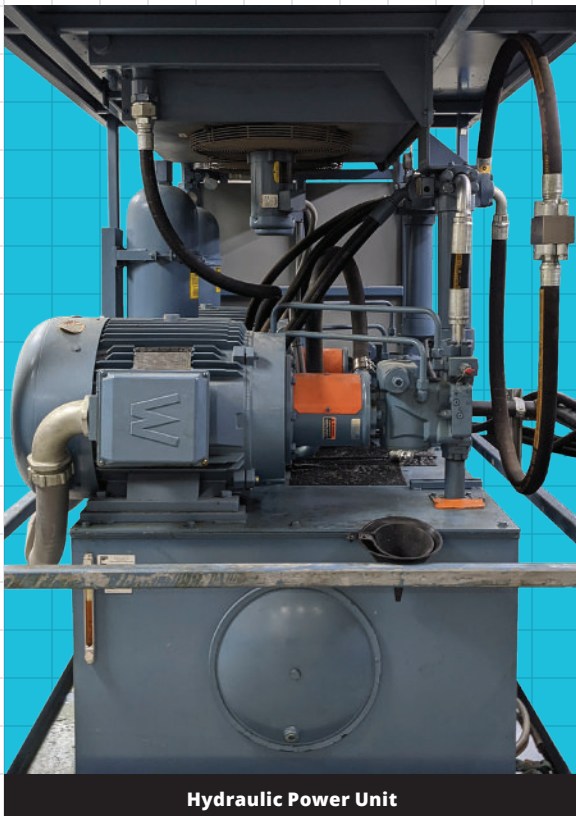
*Construction*

**APPLICATION:**

Universal tester for quality testing of concrete sample.

**PROBLEM STATEMENT (PAIN):**

The universal testing machine applies a tensile or compressive force on the concrete form and installed fasteners to confirm the quality of the concrete mix and holding force of the fasteners. Customer was experiencing variation in applied forces due to hydraulic line contamination, air ingress and erratic valve response. This yielded test results that were unreliable, extended the testing cycles and required frequent equipment adjustments.



Hydraulic Power Unit

**FLOW PRODUCTS SOLUTION:**

The Flow Products sales and engineering team met with the customer's engineering group, reviewed the system requirements, performed a complete system inspection and provided the following on-site service:

- Hydraulic oil drained, replaced with new filtered oil to required operating levels.
- Pressure filters and return lines filters changed.
- Bladder replaced on the accumulator and pre charged with nitrogen.
- Flanged ball valves installed in the pressure and return line to isolate the system.
- Servo valves repaired.
- Replacement of worn and damaged hydraulic hoses.

*Continued...*

## RESULTS:

1. Elimination of air ingress with new hose installations.
2. Consistent and reliable system pressure resulting in repeatable test results.
3. Elimination of frequent equipment adjustments.
4. Scheduled preventative maintenance inspection service by Flow Products to assure reliable equipment performance.

## CUSTOMER SERVICE & TECHNICAL SUPPORT

Our dedication to market leading service levels is always evolving. We work to meet all your requirements and strive to provide additional services that enhance the purchasing experience. We offer the following:

- Same day quote turnaround on standard products
- Customer dedicated inventory
- Vendor managed inventory
- Electronic Data Interchange (EDI)
- Custom labeling and packaging
- IFPS Certified fluid power specialists
- Complete fluid system design, assembly, and test capabilities
- System start-up and commissioning
- System troubleshooting and diagnostics
- Component and systems repair service
- Customized technical training programs

## OUR HISTORY

For over sixty years, Flow Products has been a leading distributor and integrator of pneumatic, hydraulic and electro-mechanical products in the Chicago and mid-west region. Our product offerings range from fittings, valves, motors, pumps, actuators, sensors to a full array of custom manifolds and engineered systems – all designed to improve our customer's productivity.

Please visit us at [FlowProd.com](http://FlowProd.com) to review all the market leading services we provide, standard products available and custom designs.

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ONE OF OUR SALES PROFESSIONALS!**

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