M43 SDG FLUIDS CONTROL
ASSEMBLY AND TEST
RELIABLY EXCEEDING OUR CUSTOMERS’
EXPECTATIONS IN QUALITY, DELIVERY
AND COST
Moog’s fluids control assembly and test department is the industry leader in the manufacturing of precision fluid control components for the world’s space and defense markets. Leveraging Moog’s values, world class equipment, and our talents’ skills, while operating with a lean-quality first mentality, we produce products that work flawlessly, the first time, every time. What we do is important, and our excellent quality is a competitive differentiator.

**DEVELOPMENT LAB**
**FOCUSED PERSONNEL, ASSEMBLING AND TESTING THE FUTURE’S HARDWARE**

- Senior level technicians work with engineers on new hardware
- Non-clean room environment maximizes flexibility
- Hardware is developed with a long term goal of transitioning to production

**SPECIALIZED TESTING**
**ALTERNATIVE TEST AREA**

- High pressure test rooms
- Cryogenic testing
- Located in North Basement

**WELD**
**DEDICATED ROOM FOR COMPONENT WELDING**

- Weld technicians support all three shifts
- EB weld machines
- TIG welding
- Orbital welding (performed in clean room)

**CLEANING CELL**
**ENSURES THE CLEANLINESS OF EQUIPMENT AND HARDWARE**

- Hot water flush and vacuum oven drying
- NVR and bubble point
- Filter certification

**SOLDER**
**DESIGNATED SPACE TO PERFORM SOLDERING ON ALL HARDWARE**

- NASA and J-Standard solder work on propulsion components
- Conformal coating
- Encapsulation

**LEAN MANAGEMENT SYSTEM**
**IMPLEMENTED TO ACHIEVE CONSISTENT AND RELIABLE PROCESSES**

- Single-piece flow in injector-valves to achieve expected on-time delivery
- Standard and leader stand work established
  - Gemba walks
  - Reflection meetings
  - Visual management
- Multiple tier-one cells established
  - Injector-Valves
  - Weld
  - Torque Motor / Solenoid / Sub Systems

**CAPABILITIES AND SERVICES**

**PERSONNEL**
- Over 60 employees
- Assembly and Test technicians
- Staffing on all three shifts

**HARDWARE AND EQUIPMENT**
- Three ISO 7 (per ISO 14644) clean rooms (10,000 sq. ft.)
- Over 1,600 valves shipped each year
- Laminar flow benches
- Microscopes
- ZEISS CMM (Coordinate Measuring Machine)
- Xenon testing
- Thermal vacuum ovens
- Black light inspection
- FOD controlled work areas
- Automated gas testing
- Mass spectrometers
- Burst testing

**SKILL SETS**
- Orbital, TIG, and EB welding
- NASA/J-Standard soldering and harnessing
- Valve assembly and test
- Support customer source inspections
- Water flow
- Inspection
- Laser engraving
- Filter certification
- Hot water flushing
- Certified trainers
- Patch reading

**CELLS**
- Injector-Valves
- Solenoid
- Torque Motor
- Sub Systems
- Specials
- Inspection

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