

TECHNICAL DATA SHEET

PRODUCT	DIGITAL TEST UNIT
MODEL	DTU-1K
SERIES	SERIE DTU
API	CERTIFIED ACCORDING TO API SPECIFICATIONS



Digital hydrostatic pressure test unit is the most common standard testing equipment with digital pressure and temperature graph chart recorder with a 0.15% accuracy. Air operated liquid pressure pump with a variety of models on pressure that ranges from 500 PSI to 65,000 PSI, with several flow rates.

Designed for Hydrostatic, Burst, Booster, Hydro, Injection, Leak Detector, Pressure Calibration and More.

DTU Series are used in most industries including Oil & Gas for: Pressure & Certifications on Pipes, Valves, Hoses, Vessels, Spools, Instrumentation controls, etc.

FEATURES/BENEFITS

- Creates customized pressure test reports and certificates..
- Real-time pressure & temperature monitoring and reporting.
- Windows based touchscreen tablet.
- Compact control panel design
- USB data interface
- Air operated liquid pump (60-100 Psi driven) 24-56 SCFM
- All Stainless anti-corrosive (Structure and all components)
- ESI technologies USB transducer & software
- Unit weight: 60 pounds - Dimensions: 20"L X 16" W 20"H
- HS Code: 8413.50.0000
- Certificated according to API specifications
- For use with all liquids: Water, hydraulics, oils, glycol, etc.

PERFORMANCE DATA

Output Flow	5.8 GPM (22 LPM)
Max Output Pressure	1000 psi (70 bar)
Air Supply - Driven	60-100 Psi (24-56 SCFM)
Air Inlet Port	1/2" female NPT
Inlet Liquid Port	1/2" female NPT
Outlet Pressure Port	1/4" female NPT
Bleed Port	1/4" female NPT
Pump Brand & Ration	SC-Hydraulic Ratio 10:1
Temperature	Recommended: 200°F (Max. 400°F)



DIGITAL CHART RECORDER

- Records and graphs pressure & temperature.
- USB Plug for data download/upload & easy device connection
The ESI allows the user to measure up to 16 pressure and temperature inputs simultaneously and create customized test reports. ■ Up to 5Hz – 5 Readings per Second
- Easy setup, configuration and reporting. The software interface allows for real-time pressure and temperature recording using a 10" anti-glare touchscreen tablet.
- Easy Software Interface for Real-Time Pressure & Temperature Monitoring & Reporting
- Digital test report shareable via USB and wireless
- Multiples Languages:** English, Spanish, German, Chinese Italian, Portuguese, French.
- Chargeable with up to 6 hours of battery life
- 110 V Female Connection for standard Shop Power (220-240V to 110-120V voltage convert device available with over 150 country style plugs) EURO, Africa, UK & Asia



SPECIFICATIONS

Model DTU Recorder

Test pressure 1,000 Psi

Test pressure 70 Bar

Pressure Accuracy:
1,000 Psi 0.15%

ESI Technology Ltd
THE MANUFACTURER'S SPECIFICATION FOR CUSTOMISED
PRESSURE AND TEMPERATURE
TRANSDUCERS & TRANSMITTERS

Test Certificate

Test Object Identification

Customer: INSERT_CustomField_1 Time Held: INSERT_CustomField_4
Test Object: INSERT_CustomField_2 Test Pressure: INSERT_CustomField_5
Test Date: INSERT_CustomField_3 Part No.: INSERT_CustomField_6

Certification Information

Used Cal. Device: ESI-Digital Recorder Test Source: INSERT_CustomField_7
Serial No: INSERT_Sensor1_Serial Equip. Cal. Date: INSERT_CustomField_8

Temperature serves as indication only

Test Technician: INSERT_CustomField_9 Signature: _____
Test Witness: _____ Signature: _____

ESI Technology Ltd, Digital Pressure & Temperature Chart Recorders
www.hydrorex.com - Made in USA

Page 1 of 2

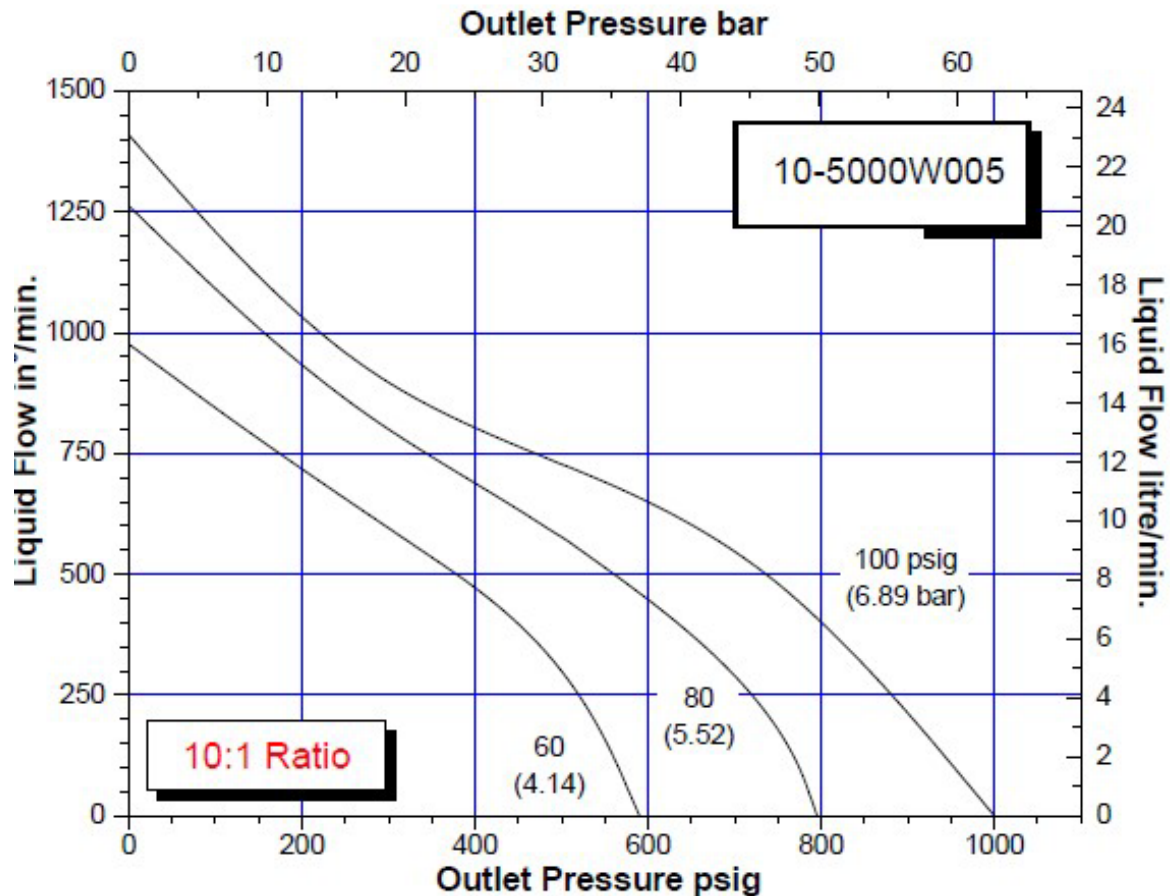
DIGITAL TEMPERATURE

Other Pressure Ranges:	PSI, bar, mBar, MPa, Pa, mH2O, mmHg, atm, kg/cm2, kPa
Accuracy NLHR:	≤ ± 0.15% of span BFSL
Temperature Ranges:	°F or °C
Operating Ambient Temperature:	32°F to +115°F
Storage Temperature:	-4°F to +140°F
Temperature Effects:	±1.5 %FS total error band for -14°F to +176°F. Typical thermal zero and span coefficients ±0.015 %FS/ °C

OPTIONAL

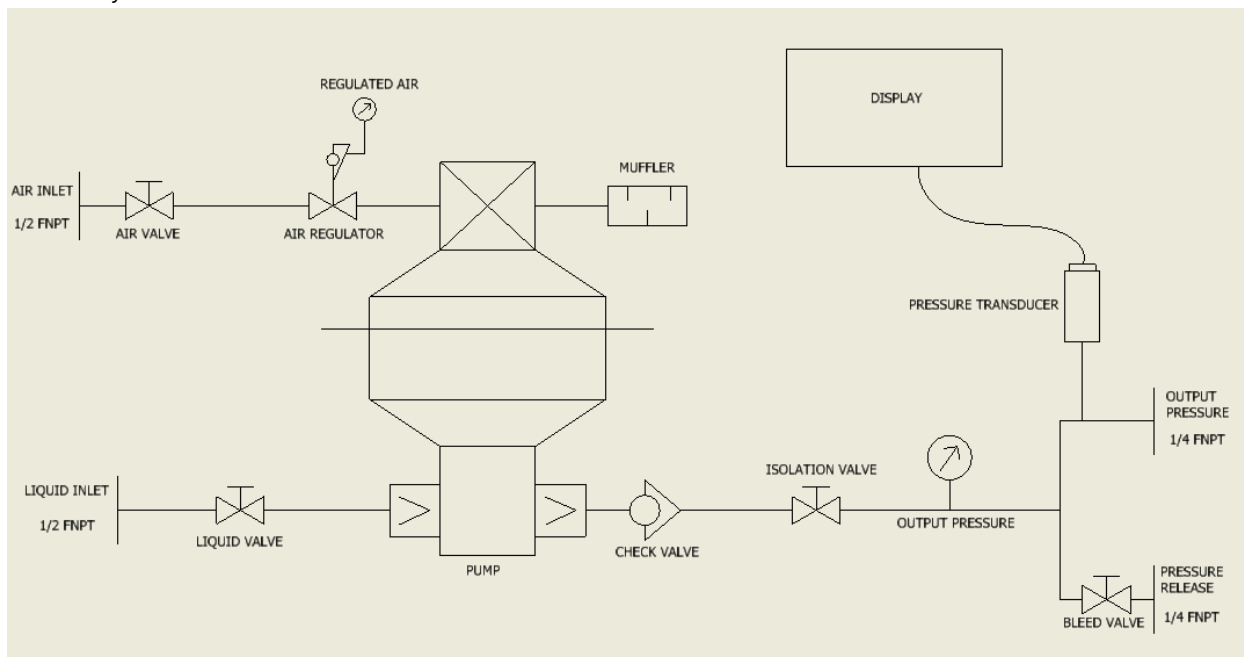
- Multiple pressure inlets/sensors for best accuracy pressure
- Multiples test stations
- Pump for liquid or gases
- With liquid tank
- Dual pumps for high and low
- Double acting pumps
- All covers (test cabinet style)
- With small test chamber
- With stand (standard operation height)
- Custom paint color.

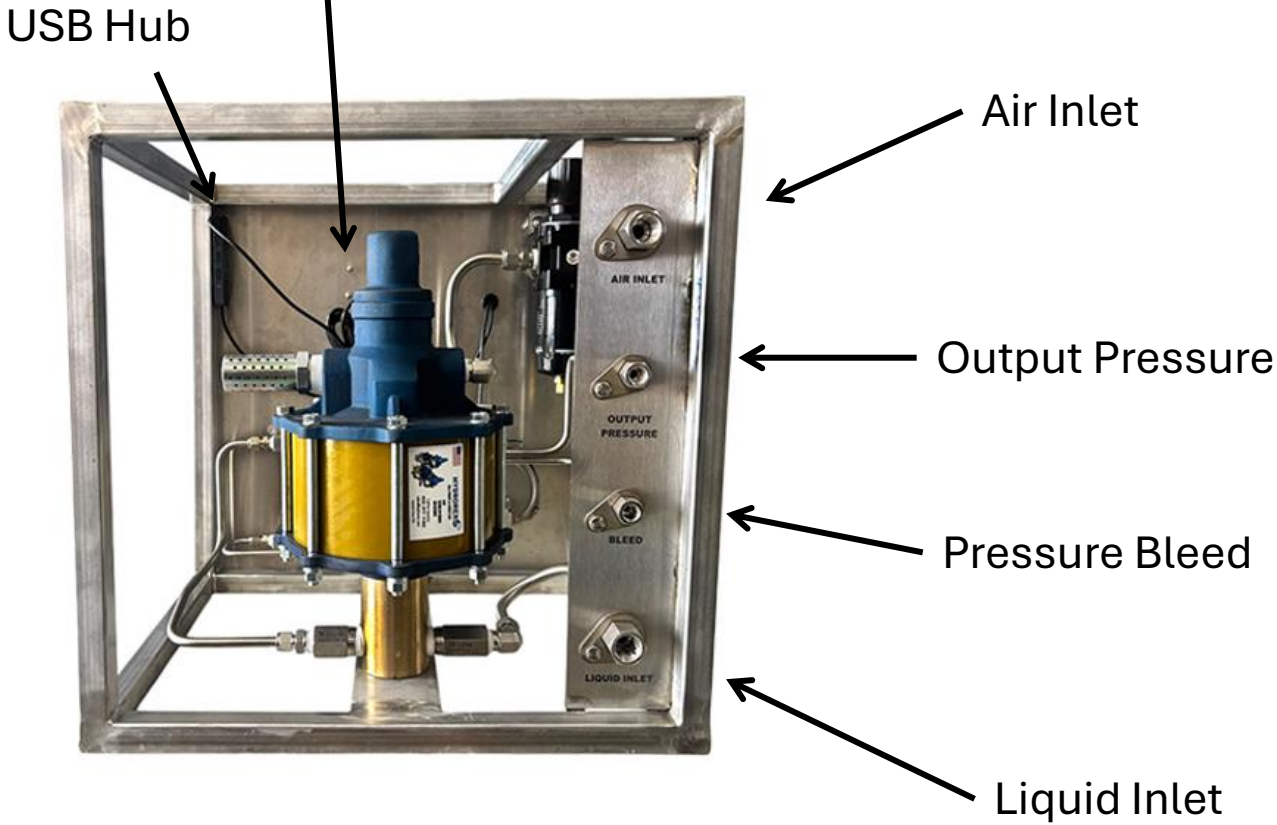
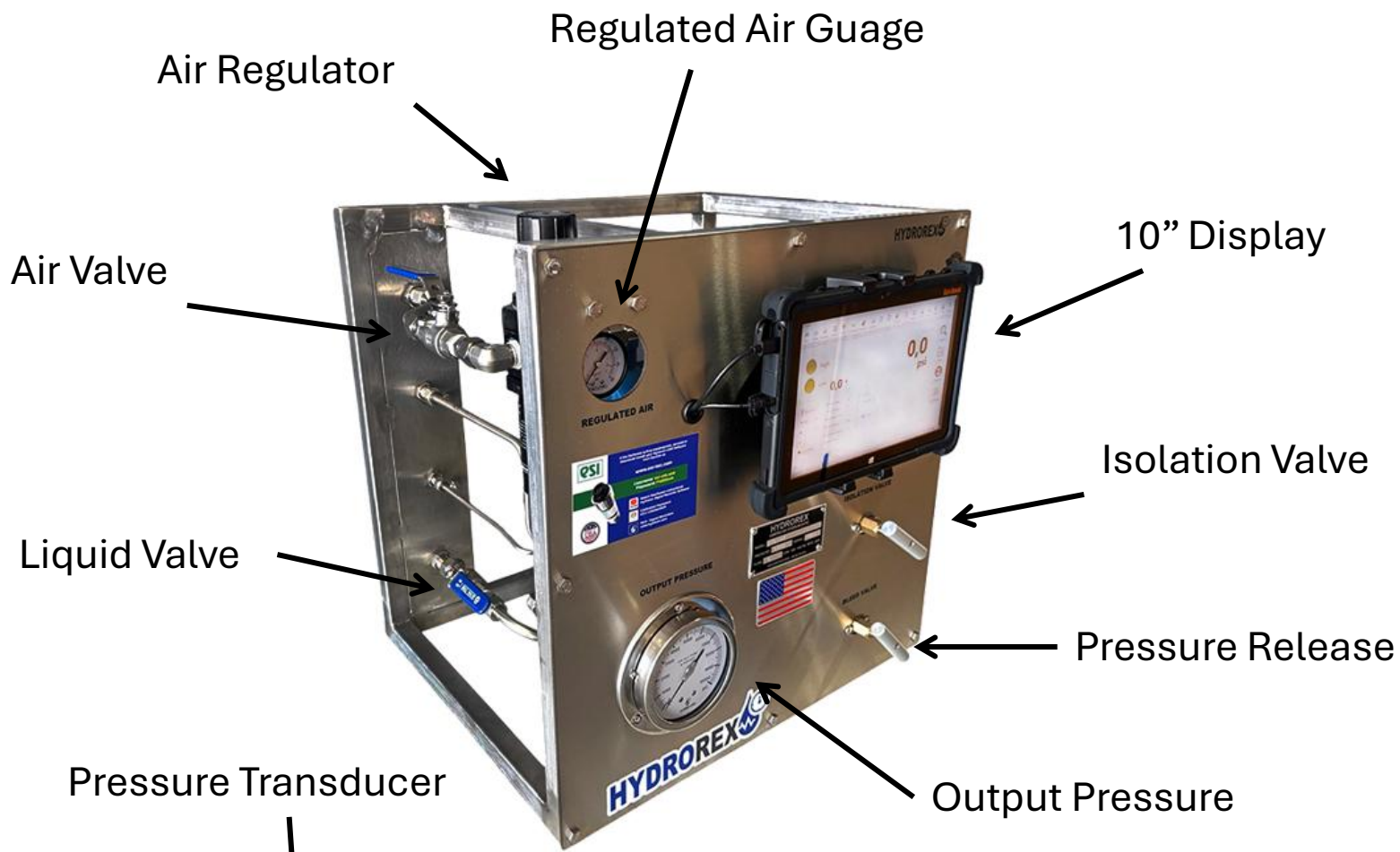
FLOW CURVE RATIO 10:1



GENERAL PRODUCT INFORMATION

- When operating from 0 to rated hydraulic pressure, air consumption will be approximately **24-56 scfm** of free air at 100 psi output. At lower air pressures and higher hydraulic pressures air consumption will be reduced proportionately to flow rates indicated.
- The DTU Series "Dry Lube" pump does not require an air line lubricator.
- Contact Hydrorex for pressure gauges calibration / certificate.
- Maintenance parts for future repairs, all components & accessories can be found on our website www.hydrorex.com.



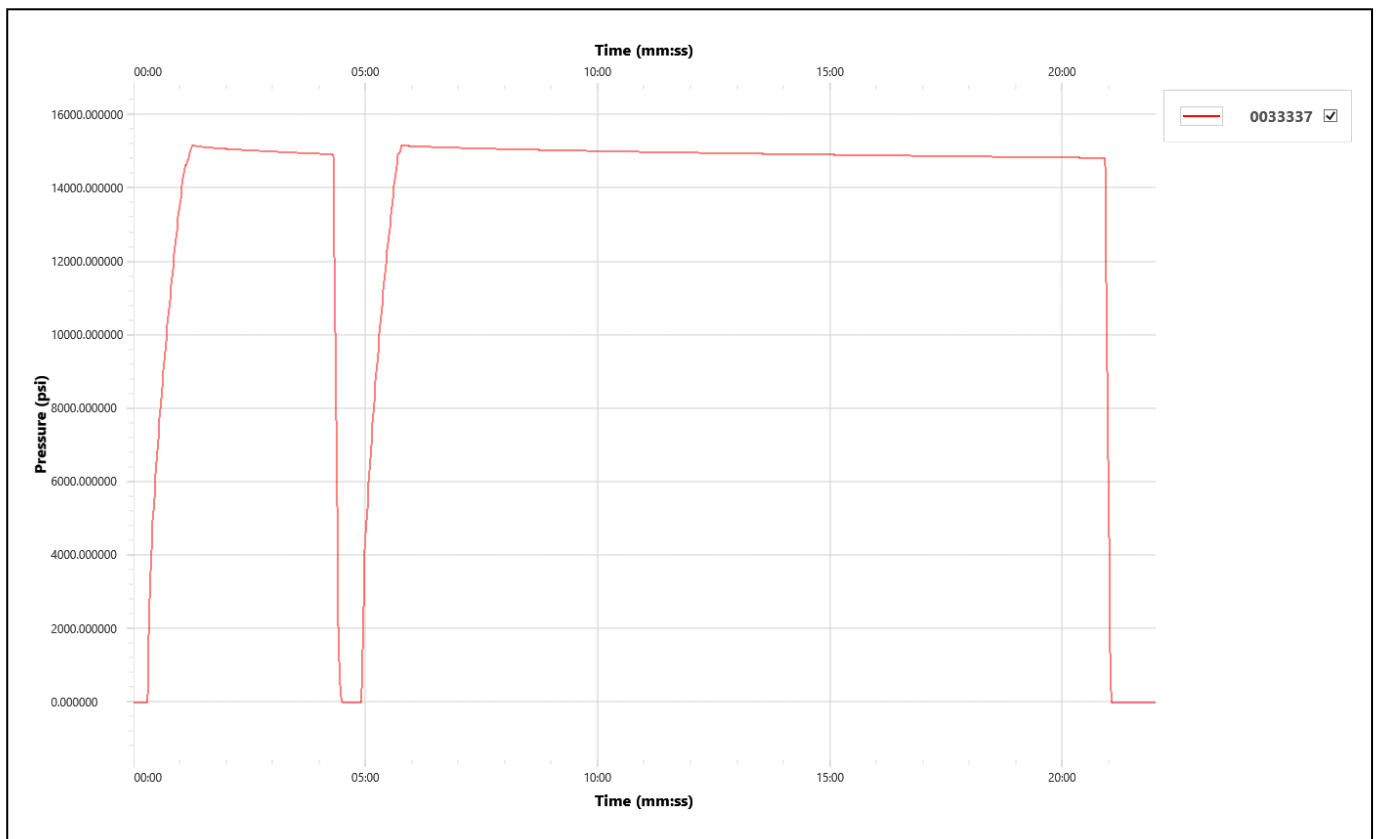


Test Object Identification

Customer:	National Oil Varco	Time Hold:	15 Minutes
Test Object:	Hydraulic Spool	Test Pressure:	12550 PSI
Part No:	Spool-5365	Serial No.:	SP5364

Certification Information

Used Cal. Device:	ESI-USB	Cal of ESI-USB:	01/12/2025
Serial No:	143S657	Test Date:	08/07/2025
Manufacturer:	ESI Technology Ltd	Test Engineer:	Scott Mueller



Temperature serves as indication only

Tester: Elia GutierexSignature: Elia Gutierrez

Project Engineer: _____

Signature: _____