



ECONOMIC, DURABLE, SAFE &amp; EASY TO OPERATE

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## TECHNICAL DATA SHEET

|         |                                                  |
|---------|--------------------------------------------------|
| PRODUCT | <b>DIGITAL HYDROSTATIC TEST UNIT</b>             |
| MODEL   | <b>10D-685REX</b>                                |
| SERIES  | <b>SERIE 10D-REX</b>                             |
| API     | <b>CERTIFIED ACCORDING TO API SPECIFICATIONS</b> |



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.

10D-REX 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.
- Weatherproof touchscreen panel PC in 12 inch mount on stainless control panel.
- Real-time pressure & temperature monitoring and reporting.
- Air operated liquid pump (60-100 Psi driven) 24-56 SCFM
- All Stainless anticorrosive (Structure and all components)
- ESI technologies usb transducer & software
- Made in USA
- Unit weight: 125 pounds - Dimensions: 28"L X 20" W 26"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          | 0.13 GPM (0.50 LPM)                 |
| Max Output Pressure  | 68,000 psi (4689 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 HP (9/16-18 UNF Thread) |
| Bleed Port           | 1/4" female NPT                     |
| Pump Brand & Ration  | SC-Hydraulic Ratio 740:1            |
| 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 12" 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, Portugues, French.
- 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 10D Recorder

Test pressure 70,000 Psi

Test pressure 4826 Bar

Pressure Accuracy:  
70,000 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 Hold: 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.esitech.com - Made in USA

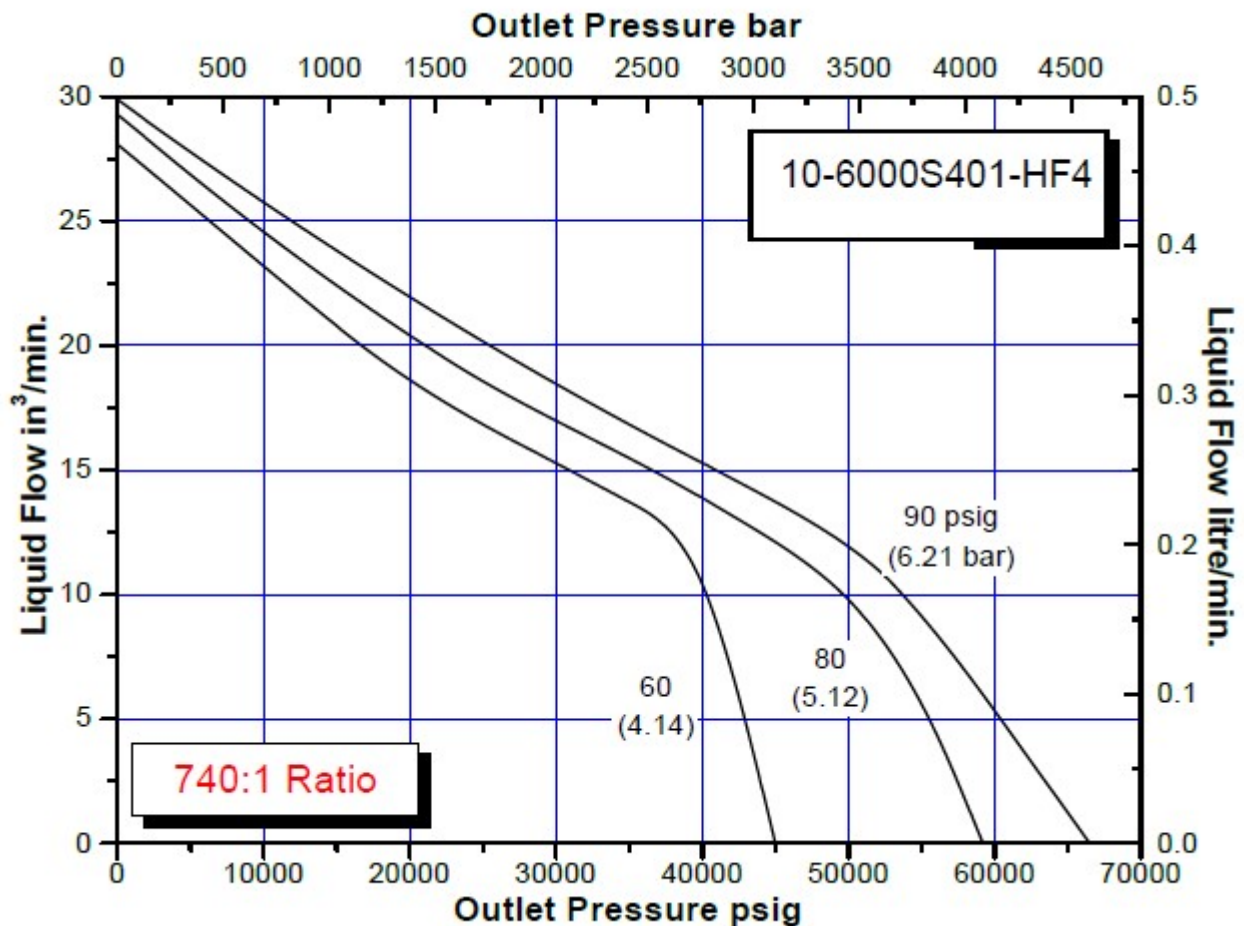
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### DIGITAL TEMPERATURE

|                                |                                                                                                                      |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Other Pressure Ranges:         | PSI, bar, mBar, MPa, Pa, mH2O, mmHg, atm, kg/cm2, kPa                                                                |
| Accuracy NLHR:                 | $\leq \pm 0.15\%$ 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:           | $\pm 1.5\%$ FS total error band for -14°F to +176°F. Typical thermal zero and span coefficients $\pm 0.015\%$ 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 gabinet style)
- With small test chamber
- With stand (standard operation height)
- Custom paint color.



#### 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 10D-REX Series "Dry Lube" pump does not require an air line lubricator.
- Contact Hydrex for pressure gauges calibration / certificate.
- Maintenance parts for future repairs, all components & accessories can be found on our website [www.hydrex.com](http://www.hydrex.com).

