

Ashcroft® Types 1327D and 1327CM are designed to be field-portable pressure generation and test systems. A single carrying case holds the pump used to generate pressure as well as the gauges selected as the test standard.

Both units include an Ashcroft two-stage hydraulic pressure pump. A built-in shuttle valve allows for rapid pressure increase at low pressures. The rate of increase per pump cycle can be reduced at higher pressures in order to minimize resistance. This is accomplished by simply repositioning the two-position shuttle valve. With the shuttle valve in the high-pressure position, increasing pressure even when near 10,000 psi can be accomplished quickly and easily. Final adjustment is accomplished through the use of an integral vernier-adjustment knob.

#### Type 1327CM

The Ashcroft Type 1327CM is a precision gauge comparator which is provided with 6-inch Ashcroft  $\pm 0.1\%$  F.S. accuracy Type A4A gauges. The gauges provided include temperature compensation which maintains the  $\pm 0.1\%$  F.S. accuracy over

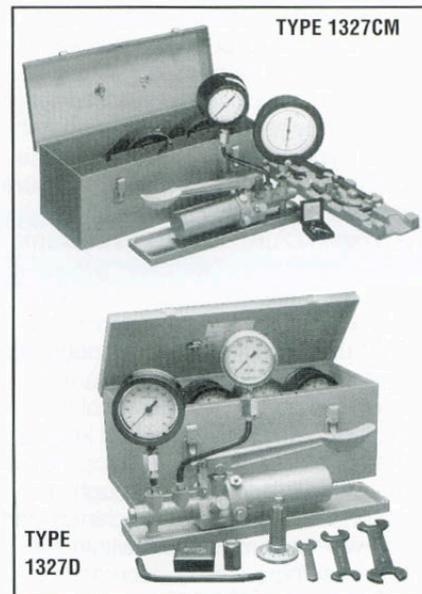
an operating range of  $-25^{\circ}\text{F}$  to  $+125^{\circ}\text{F}$ . Available ranges include 30, 100, 500, 1000, 5000 and 10,000 psi.

#### Type 1327D

The Ashcroft 1327D is available with between one and four Ashcroft gauges covering the operating range of 0 through 10,000 psi. Metric range models are also available.

The 1327DG is provided with  $4\frac{1}{2}$ " Ashcroft Type 1082 test gauges. These gauges provide an accuracy of  $\pm 0.25\%$  F.S. The Ashcroft test gauges include temperature compensation and have a maximum thermal error of 0.005% F.S. per degree F.

Ashcroft Types 1327CM and 1327D are ideally suited for use as in-field pressure standards. Both come with temperature-compensated gauges, further enhancing their field worthiness. A single carrying case holds everything needed to take full advantage of the capabilities of the test set. PSI and metric ranges are available for either system. Both systems are traceable to NIST with the 1327CM provided with calibration certificates for each gauge selected.



#### SPECIFICATIONS TYPE 1327

- **Operating Pressure:** 0-10,000 psi (maximum) (0-70,000 kPa)
- **Operating Media:**  
Standard: SAE 20 weight automotive or machine oil  
Optional: Phosphate-based or glycol fluids  
Distilled water for oxygen service
- **O-ring Material:**  
Standard: Buna N (D Series)  
Optional: Ethylene Propylene (DH Series)
- **Reservoir Volume:** Approximately 1.5 pints (0.7 liter)
- **Special "CD-4" Certification package available (see Price Sheet TE/PS-1)**

#### SPECIFICATIONS TYPE 1327CM

- **Accuracy:**  $\pm 0.1\%$  F.S.
- **Gauge Type:** Ashcroft 6-inch Type A4A with temperature compensation
- **Temperature Compensation:**  $-25^{\circ}\text{F}$  to  $+125^{\circ}\text{F}$  (will maintain  $\pm 0.1\%$  F.S. accuracy)

#### SPECIFICATIONS TYPE 1327DG

- **Accuracy:**  $\pm 0.25\%$  F.S.
- **Gauge Type:** Ashcroft  $4\frac{1}{2}$  inch Type 1082 gauges with temperature compensation

#### 1327D STANDARD PRESSURE RANGES

| Unit of Measure    | Type          | Gauge Range(s) Included* |        |         |         | Net Weight |    |
|--------------------|---------------|--------------------------|--------|---------|---------|------------|----|
|                    |               | lb                       | kg     |         |         | lb         | kg |
| psig               | 1327DG-2      | 0/150                    | —      | —       | —       | 36         | 16 |
|                    | 1327DG-6      | 0/150                    | 0/600  | —       | —       | 38         | 17 |
|                    | 1327DG-50     | 0/150                    | 0/600  | 0/5000  | —       | 40         | 18 |
|                    | 1327DG-100    | 0/150                    | 0/600  | 0/5000  | 0/10000 | 42         | 19 |
| kg/cm <sup>2</sup> | 1327DMG-10    | 0/10                     | —      | —       | —       | 36         | 16 |
|                    | 1327DMG-40    | 0/10                     | 0/40   | —       | —       | 38         | 17 |
|                    | 1327DMG-250   | 0/10                     | 0/40   | 0/250   | —       | 40         | 18 |
|                    | 1327DMG-600   | 0/10                     | 0/40   | 0/250   | 0/600   | 42         | 19 |
| bar                | 1327DBG-10    | 0/10                     | —      | —       | —       | 36         | 16 |
|                    | 1327DBG-40    | 0/10                     | 0/40   | —       | —       | 38         | 17 |
|                    | 1327DBG-250   | 0/10                     | 0/40   | 0/250   | —       | 40         | 18 |
|                    | 1327DBG-600   | 0/10                     | 0/40   | 0/250   | 0/600   | 42         | 19 |
| kPa                | 1327DAG-1000  | 0/1000                   | —      | —       | —       | 36         | 16 |
|                    | 1327DAG-4000  | 0/1000                   | 0/4000 | —       | —       | 38         | 17 |
|                    | 1327DAG-25000 | 0/1000                   | 0/4000 | 0/25000 | —       | 40         | 18 |
|                    | 1327DAG-60000 | 0/1000                   | 0/4000 | 0/25000 | 0/60000 | 42         | 19 |

For hydraulic fluid service (phosphate base and glycols) specify 1327DH, DMGH, DBGH or DAGH.  
For oxygen service (distilled water) specify 1327DGO, DMGO, DBGGO or DAGO.

\*Other gauge ranges available.