PFM6 Digital Portable Hydraulic Tester

Simultaneously Measures Flow, Pressure and Temperature



- Five flow ranges
- Large 3-1/2 digit LCD for flow and temperature
- · Helical tube pressure gauge
- One toggle switch to control power and select flow and temperature
- Loading valve with fingertip control of pressure
- · Platinum resistance temperature sensor
- · Pressure surge protection
- Turbine flow sensor provides fast response
- Available with SAE or BSPP ports
- Pressures up to 6000 PSI (414 Bar)
- Temperatures up to 300 °F (150 °C)
- Flow accuracy ±1% of full scale
- Repeatability ±0.2%

The PFM6 Series is a compact, lightweight portable tester designed for fast diagnostic troubleshooting of all types of mobile or stationary hydraulic systems and components. These self-contained testers feature laboratory accuracy and provide flow, pressure and temperature measurements simultaneously from one point.

Simple operation includes a toggle switch to display either flow or temperature readings and a loading valve that operates with fingertip control. The dual scale helical tube pressure gauge offers pulsation dampening and high overpressure capacity. For safe operation, all testers include pressure surge protection.

SPECIFICATIONS

Performance

Flow Accuracy: ±1% of full scale

Repeatability: ±0.2%
Turbine Response: ≤200ms

Temperature:

Fluid -4 to +300 °F (-20 to +150 °C)
Ambient -4 to +131 °F (-20 to +55 °C)

Flow Readout: Linearity and zero shift ±1 digit

Operating Pressure: up to 6000 PSI (414 Bar, 41.4 MPa, 420 kg/cm²)

Pressure Drop: See $\triangle P$ charts on page 14

Readout Accuracy: ±1 digit

Material

Housing: 6013-T651 Aluminum; anodized

Turbine Rotor: T416 Stainless steel
Ball Bearings: 440C Stainless steel
Rotor Shaft: T303 Stainless steel

Rotor Supports:

PFM6-15/30 CA360 Brass

PFM6-60/85/200 6061-T6 Aluminum alloy **Hub Cones:** 6061-T6 Aluminum alloy

Valve Body:

PFM6-15/30 Cold rolled steel; zinc plate,

dichromate finish

PFM6-60/85/200 12L14 Steel; zinc plate,

dichromate finish
T303 Stainless steel

Valve Stem: T303 Stainless steel Poppet: 12L14 Steel; hardened

Sleeve:

PFM6-200 only D.O.M. steel tube

Temperature Probe: T303 Stainless steelMagnetic

Pick-up:

Body 12L14 Steel; electroless nickel

plate

Nut 12L14 Steel; electroless nickel

plate

Seals: Buna N standard:

Viton® and EPR optional Cast aluminum; anodized

Carrying Handle: Electronic Case

& Cover: Cold rolled steel; zinc plate with

clear seal, epoxy black paint

Battery: 4 AA size alkaline,

~ 50 hours of service

Ports: SAE Straight thread O-ring

boss, female J1926/1; ISO1179 (BSPP)

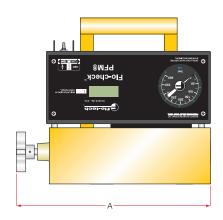
Viton is a registered trademark of DuPont Dow Elastomers.



PFM6 Digital Portable Hydraulic Tester

Simultaneously Measures Flow, Pressure and Temperature

DIMENSIONS





| SERIES | A LENGTH IN (mm) | B DEPTH IN (mm) | C HEIGHT IN (mm) | WEIGHT LBS (KG) |
|----------|------------------------|-----------------------|------------------------|--------------------|
| PFM6-15 | 11.3 (287) | 3.5 (89) | 9.8 (249) | 13.85 (6.3) |
| PFM6-30 | 11.3 (287) | 3.5 (89) | 9.8 (249) | 13.85 (6.3) |
| PFM6-60 | 11.5 (292) | 3.5 (89) | 9.8 (249) | 16.50 (7.5) |
| PFM6-85 | 11.5 (292) | 3.5 (89) | 9.8 (249) | 16.50 (7.5) |
| PFM6-200 | 12.3 (311) | 4.0 (101) | 10.3 (262) | 20.00 (9.1) |

ORDERING INFORMATION

| SERIES | NOMINAL PORT SIZE | FLOW RANGE | MODEL NUMBER | STD or CE MODEL | PRESSURE GAUGE UNITS OF MEASURE |
|----------|----------------------|-----------------|-----------------|--|------------------------------------|
| PFM6-15 | SAE 12 | 1 - 15 GPM | F5080 * - XXX | Leave blank for standard model or CE for CE option | PSI BAR MPA KG/CM2 |
| PFM6-30 | SAE 12 | 2 - 30 GPM | F5079 * - XXX | | |
| PFM6-60 | SAE 16 | 3 - 60 GPM | F5078 * - XXX | | |
| PFM6-85 | SAE 16 | 4 - 85 GPM | F5077 * - XXX | | |
| PFM6-200 | SAE 24 | 7 - 199.9 GPM | F5076 * - XXX | | |
| PFM6-15 | G 3/4 | 4 - 56 LPM | F5110 * - XXX | | |
| PFM6-30 | G 3/4 | 7.5 - 113.6 LPM | F5111 * - XXX | | |
| PFM6-60 | G 1 | 12 - 227 LPM | F5112 * - XXX | | |
| PFM6-85 | G 1 | 15 - 321 LPM | F5113 * - XXX | | |
| PFM6-200 | G 1-1/2 | 26 - 757 LPM | F5114 * - XXX | | |

Examples:

F5076-PSI = PFM6-200

SAE 24 ports

7 - 199.9 GPM flow range

Standard model PSI pressure units

F5111CE-BAR

PFM6-30 G 3/4 ports

7.5 - 113.6 LPM flow range

CE certified
Bar pressure units

ACCESSORIES

| MODEL NUMBER | DESCRIPTION | SERIES |
|-----------------|---|-------------------|
| F4934-1530 | Carrying Case | PFM6-15 & PFM6-30 |
| F4934-6085 | Carrying Case | PFM6-60 & PFM6-85 |
| F4934-200 | Carrying Case | PFM6-200 |
| F1614-7500 | Pressure Relief Disc, 7500 PSI (1 per Tester) | All PFM6s |
| F001109 | 5-Point Calibration Certificate ¹ | All PFM6s |
| F001110 | 10-Point Calibration Certificate ¹ | All PFM6s |

¹ Certificates are traceable to NIST, ISO 9001.

