## 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 with internal pressure relief
- 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 simultaneously temperature measurements 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 an internal pressure relief system.

#### **SPECIFICATIONS**

Performance

Flow Accuracy: ±1% of full scale

Repeatability:  $\pm 0.2\%$ **Turbine Response:** ≤200ms

Temperature:

Fluid -4 to +300 °F (-20 to +150 °C) Ambient -4 to +131 °F (-20 to +55 °C) Linearity and zero shift ±1 digit Flow Readout:

up to 6000 PSI (414 Bar, **Operating Pressure:** 

41.4 MPa, 420 kg/cm<sup>2</sup>) **Pressure Drop:** See  $\Delta P$  charts on page 14

Readout Accuracy: ±1 digit

Material

6013-T651 Aluminum; anodized Housing:

**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

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

Sleeve:

PFM6-200 only D.O.M. steel tube **Temperature Probe:** T303 Stainless steel

Magnetic Pick-up:

Body T303 Stainless Steel Nut T303 Stainless Steel Seals: Buna N standard: Viton® and EPR optional

**Carrying Handle: Electronic Case** 

& Cover: Cold rolled steel; zinc plate with

clear seal, epoxy black paint

Cast aluminum; anodized

**Battery:** 4 AA size alkaline.

~ 50 hours of service

Ports: SAE Straight thread O-ring

boss, female J1926/1;

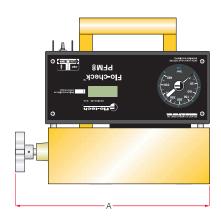
ISO1179 (BSPP)

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## **DIMENSIONS**





SERIES	A LENGTH IN (mm)	B DEPTH IN (mm)	C HEIGHT IN (mm)	WEIGHT LBS (KG)
PFM6-15	11.3 (287)	3.6 (92)	10.3 (262)	13.85 (6.3)
PFM6-30	11.3 (287)	3.6 (92)	10.3 (262)	13.85 (6.3)
PFM6-60	11.5 (292)	3.6 (92)	10.3 (262)	16.50 (7.5)
PFM6-85	11.5 (292)	3.6 (92)	10.3 (262)	16.50 (7.5)
PFM6-200	12.3 (311)	4.1 (105)	10.8 (275)	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 <sup>1</sup>	All PFM6s
F001110	10-Point Calibration Certificate¹	All PFM6s

<sup>&</sup>lt;sup>1</sup> Certificates are traceable to NIST, ISO 9001.

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