

Portable Hydraulic Testers

PFM6

Flo-check® Digital Hydraulic Test Unit

- Accuracy of $\pm 1\%$, full range
- Turbine flow sensor gives fast response
- Large 3-1/2 digit LCD for both flow and temperature
- Simple operation: one toggle switch controls power, flow and temperature; load valve offers fingertip control of pressure to 6000 PSI (41.4 MPa)
- Platinum resistance thermometer, swept wet well; fast and accurate

Compact, lightweight, self-contained portable tester with laboratory accuracy. Designed for fast diagnostic troubleshooting of all types of mobile or stationary hydraulic systems and components. Makes all flow, pressure and temperature measurements simultaneously from one point.

Helical type pressure gauge provides pulsation dampening and high over-pressure capacity. Pressure relief disc protection. Low battery/over-range indicators. Metric units available.



PFM6BD

Flo-check® Bi-Directional Hydraulic Test Unit

- Provides in-line testing of bi-directional motors, servo systems and valves
- Has the lowest pressure drop of any bi-directional tester
- Same basic features and ease of operation as PFM6 model

Compact, lightweight, self-contained portable tester with laboratory accuracy in either direction. Designed for fast bi-directional diagnostic troubleshooting of all types of mobile or stationary hydraulic systems and components. Makes all flow, pressure and temperature measurements simultaneously from one point. Helical type pressure gauge provides pulsation dampening and high over-pressure capacity. Pressure relief disc protection. Low battery/over-range indicators. Metric units available.



PFM8

Flo-check® Digital Hydraulic Test Unit & Dynamometer

- Front panel selectable U.S. or metric readings
- Digital pressure to 6000 PSI (41.4 MPa)
- Portable dynamometer reads power (HP & kW) directly
- Large easy-to-use membrane switch selects flow, temperature, pressure or power
- Low noise input circuitry provides steadier readings when flow is pulsating or cavitating
- Auto/OFF automatically turns power off after 5 minutes with no flow signal

All-digital, compact, lightweight, self-contained portable hydraulic tester and dynamometer. Designed for fast diagnostic troubleshooting of all types of hydraulic systems and components, including engine-pump combinations. Makes all flow, pressure, temperature and power measurements simultaneously from one point, in either U.S. or metric units (switchable). Silicon strain gauge pressure sensor. Offers other standard features of PFM6 model.



Portable Hydraulic Testers

SPECIFICATIONS:

MATERIAL:

Housing: 2024-T351 Anodized aluminum

Turbine Rotor: T416 Stainless steel

Rotor Supports: 6061-T6 Aluminum;

Rotor Shaft: T303 Stainless steel

Seals: Buna N standard; Viton and EPR optional

Ball Bearings: 440 C Stainless steel

Hub Cones: 6061-T6 Aluminum alloy

Temperature Probe: 12L14 Steel (Zinc plate, dichromate finish)

PFM6/8 SERIES TESTERS

Valve Body for 15/30's: cold rolled steel; 60/85/200 Body: 12L14

Steel Stem – 303 Stainless steel

Poppet: 12L14 Steel, Hardened

Straightening section: for 15/30 is CA360 Brass;

for 60/85/200 is 6061-T6 Aluminum

Cones: 2024-T4 Aluminum

200 GPM: Sleeve – D.O.M. steel tube

PFM6BD SERIES TESTERS

Valve: Body - 12L14 Steel

Spool/Sleeve: 4340 Alloy Steel, Hardened

By-Pass Plate: 2024-T351 Aluminum

Straightening section: 6061-T6 Aluminum

Cones: 2024-T4 Aluminum

PORTS: SAE Straight Thread O-Ring Boss, Female, J1926/1;

BSPP ISO1179

MAGNETIC PICK-UP: Body – 12L14 steel, black oxide finish;
Nut – 12L14 steel, zinc plate, dichromate finish

PERFORMANCE:

Electrical Output Signal: Self-generating alternating pulse,
100 mV RMS (100 Hz) min.

Flow accuracy: $\pm 1\%$ of full scale

Repeatability: $\pm 0.2\%$

Pressure rating: 6000 psi (414 bar) maximum

Turbine response: ≤ 200 ms

Fluid temperature range: -4° to 300° F (-20° to 150° C)

Ambient temperature range: -4° to 131° F (-20° to 55° C)

Flow readout: linearity and zero shift = ± 1 digit

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

Fluid temperature: to 300 F (150 C)

Readout accuracy: ± 1 digit

Battery type: AA size alkaline; Life 50 hours

-CE Certified models are available in PFM6 & PFM6BD series units.

-XXX-when ordering, please specify P-PSI, B-Bar, M-MPa, K-kg/cm².

Ordering example: FPFM6-200-B-C ordering PFM6-200 w/ SAE24 ports, pressure scaled in bar, and CE certified unit

Five or Ten Point Calibration Certificates are available and traceable to NIST, ISO 9001 / ANSI Z540-1 & MIL-STD 45662A

DIMENSIONS

SERIES	DIMENSIONS (L x D x H)		WEIGHT LBS (KG)
	INCHES	LBS (KG)	
PFM6-15	11.3 X 11.0 X 3.5	287 X 279 X 89	13.85 (6.3)
PFM6-30	11.3 X 11.0 X 3.5	287 X 279 X 89	13.85 (6.3)
PFM6-60	11.5 X 11.0 X 3.5	292 X 279 X 89	16.50 (7.5)
PFM6-85	11.5 X 11.0 X 3.5	292 X 279 X 89	16.50 (7.5)
PFM6-200	12.3 X 11.8 X 4.0	311 X 298 X 101	20.00 (9.1)
PFM6BD-60	11.3 X 11.0 X 4.0	287 X 279 X 101	16.50 (7.5)
PFM6BD-85	11.3 X 11.0 X 4.0	287 X 279 X 101	16.50 (7.5)
PFM6BD-200	11.8 X 11.5 X 4.5	300 X 292 X 114	19.50 (9.0)
PFM8-15	11.3 X 11.0 X 3.5	287 X 279 X 89	13.85 (6.3)
PFM8-30	11.3 X 11.0 X 3.5	287 X 279 X 89	13.85 (6.3)
PFM8-60	11.5 X 11.0 X 3.5	292 X 279 X 89	16.50 (7.5)
PFM8-85	11.5 X 11.0 X 3.5	292 X 279 X 89	16.50 (7.5)
PFM8-200	12.3 X 11.8 X 4.0	311 X 298 X 101	20.00 (9.1)

ORDERING INFORMATION

SERIES	MODEL NUMBER	NOMINAL PORT SIZE	FLOW RATE	POWER HP (kW)
PFM6-15	F5080 (CE)-XXX	SAE 12	1-15 GPM	
PFM6-30	F5079 (CE)-XXX	SAE 12	2-30 GPM	
PFM6-60	F5078 (CE)-XXX	SAE 16	3-60 GPM	
PFM6-85	F5077 (CE)-XXX	SAE 16	4-85 GPM	
PFM6-200	F5076 (CE)-XXX	SAE 24	7-199.9 GPM	
PFM6-15	F5110 (CE)-XXX	G 3/4	4-56 LPM	
PFM6-30	F5111 (CE)-XXX	G 3/4	7.5-113.6 LPM	
PFM6-60	F5112 (CE)-XXX	G 1	12-227 LPM	
PFM6-85	F5113 (CE)-XXX	G 1	15-321 LPM	
PFM6-200	F5114 (CE)-XXX	G 1-1/2	26-757 LPM	
PFM6BD-60	F5082 (CE)-XXX	SAE 16	3-60 GPM / 12-227 LPM	
PFM6BD-85	F5083 (CE)-XXX	SAE 16	4-85 GPM / 15-321 LPM	
PFM6BD-200	F5084 (CE)-XXX	SAE 24	7-199.9 GPM / 26-757 LPM	
PFM8-15	F5061	SAE 12	1-15 GPM / 4-56 LPM	52.5 (39)
PFM8-30	F5058	SAE 12	2-30 GPM / 7.5-113.6 LPM	105 (78)
PFM8-60	F5052	SAE 16	3-60 GPM / 12-227 LPM	210 (157)
PFM8-85	F5053	SAE 16	4-85 GPM / 15-321 LPM	298 (222)
PFM8-200	F5054	SAE 24	7-199.9 GPM / 26-757 LPM	700 (522)

ACCESSORIES

MODEL NUMBER	NOMINAL PORT SIZE	FLOW RATE
F4934-1530 F4934-6085 F4934-200	Carrying Cases	15 & 30 GPM / 60 & 113.6 LPM 60 & 85 GPM / 200 & 321 LPM 200 GPM / 757 LPM
F1614-6000 F1614-7500	Safety Disc	0-6000 PSI 0-7500 PSI
F001109 F001110	Calibration Certificates	Five Point Ten Point

For pressure drop information, refer to page 22.