HYDRAULIC SYSTEM TEST ANALYZER

Used to diagnose faults in hydraulic circuits, determine horsepower and test for component wear and cylinder leakage.



TECHNICAL SPECIFICATIONS

Measuring Accuracy Flow: ±2% of full scale Pressure: ±2.5% of full scale Temperature: ±2.5% of full scale

Repeatability ±1% of full scale - all measurements

Flow Measuring Range Flow: 0.1-150 GPM (0.4-560 LPM) Temperature: 0-250°F (-20-120°C)

Maximum Operating Temperature 240°F (116°C)

DTE 25 is a registered trademark of Exxon Mobil.

MATERIALS OF CONSTRUCTION

Wetted Components		Non-Wetted Components		
Component	Materials	Component	Materials	
Needle Valve	Carbon Steel	Window Tube	Polycarbonate	
Casing and End ports	Anodized Aluminum (3000 PSIG) Stainless Steel (5000 PSIG)	Window Tube Seals	Buna-N®	
Seals	Buna-N [®] (STD), FKM, EPR, Neoprene optional	Gauge	Brass and Stainless Steel	
Transfer Magnet	PTFE coated Alnico	Gauge Window	Acrylic	
All other internal parts	Stainless Steel			

Buna-N is a registered trademark of Chemische Werke Huls.

BENEFITS

A Complete Troubleshooting System

The analyzer consists of a flow meter, glycerinfilled pressure gauge (Style "K"), bi-metal temperature gauge/dry pressure gauge (Style "T") and a precision needle-type load valve.

Planned Component Repairs

This system analyzer can be part of a predictive maintenance program, allowing strategized pump, valve, motor and cylinder rebuilding.

Compact and Rugged

The complete hydraulic system test analyzer is small enough to fit in a tool box and built to withstand rigorous industrial use.

Non-Electrical

Without batteries to fail or other electrical power connections to make, this system will provide a lifetime of simple and reliable operation.

Metric and US/Standard Measuring Ranges

These multi-measurement analyzers simultaneously measure flow in GPM and LPM, pressure in PSIG and Bar, and temperature in degrees F and C.

Unrestricted Mounting

Accurate measurements can be taken in any mounting orientation, without the straight pipe required with other analyzer systems.

System Problems Pin-Pointed

Maximum Operating Pressure

Standard Calibration Fluid Oil meters: DTE 25® @ 110°F (43°C),

Filtration Requirements 74 micron filter or 200 mesh screen

Aluminum meters:

0.873 sg

minimum

3000 PSIG (200 Bar)

Stainless steel meters: 5000 PSIG (340 Bar)

The hydraulic system analyzer and comprehensive troubleshooting manual will save time and money by testing discrete components within the system, eliminating trial and error approaches.

Reverse Flow Option Available

Optional built-in reverse bypass mechanism prevents potential damage from misinstallation or backflow.



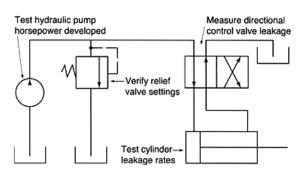


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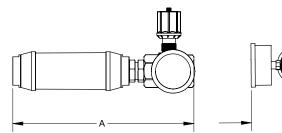
HYDRAULIC SYSTEM TEST ANALYZER

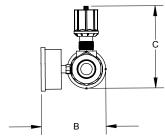
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HYDRAULICS DIAGNOSTICS TOOL KIT APPLICATIONS

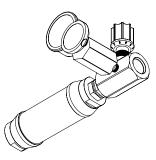


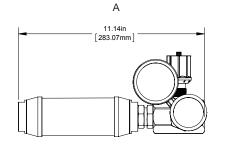
K-STYLE

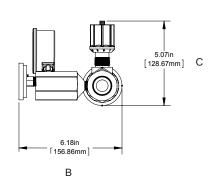




T-STYLE







GENERAL DIMENSIONS

(Measurements may vary from meter to meter)

DIM	Series 3	Series 3	Series 3	Series 4	Series 4	Series 5	Series 5
Port Sizes	3/8" + #6 SAE	1/2" + #8 SAE	#10 SAE	3/4" + #12 SAE	1" + #16 SAE	1-1/4" + #20 SAE	1-1/2" + 24 SAE
А	9.75" (248mm)	10.15" (258mm)	10.93" (278mm)	11.14" (283mm)	12.7" (323mm)	15.85" (403mm)	15.85" (403mm)
B (K-Style)	3.44" (87mm)	3.54" (90mm)	3.47" (88.14mm)	3.98" (101mm)	4.08" (104mm)	4.84" (123mm)	5.04" (128mm)
B (T-Style)	5.64" (143mm)	5.74" (146mm)	5.67" (144mm)	6.18" (157mm)	6.28" (160mm)	7.04" (179mm)	7.24" (184mm)
С	4.11" (104mm)	4.53" (115mm)	4.81" (122mm)	5.07" (129mm)	5.88" (149mm)	6.64" (169mm)	6.84" (174mm)

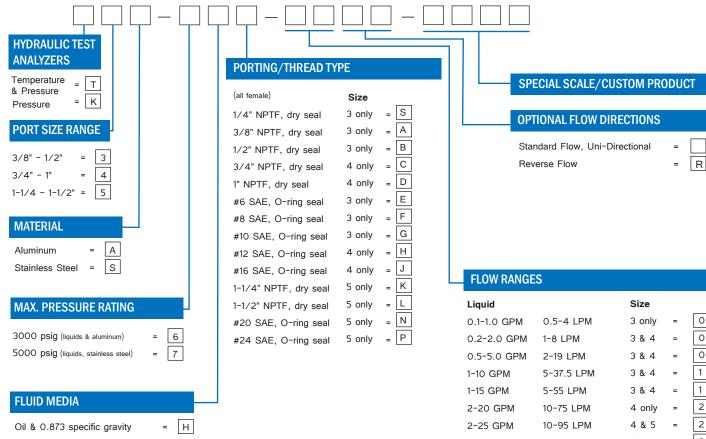




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PART NUMBER GUIDE



Note: For special scales consult the Lake factory.

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FLOW RANG	ES			
Liquid		Size		
0.1-1.0 GPM	0.5-4 LPM	3 only	=	0 1
0.2-2.0 GPM	1-8 LPM	3 & 4	=	0 2
0.5-5.0 GPM	2-19 LPM	3 & 4	=	0 5
1-10 GPM	5-37.5 LPM	3 & 4	=	1 0
1-15 GPM	5-55 LPM	3 & 4	=	1 5
2-20 GPM	10-75 LPM	4 only	=	2 0
2-25 GPM	10-95 LPM	4 & 5	=	2 5
4-30 GPM	15-115 LPM	4 only	=	3 0
4-40 GPM	20-150 LPM	4 only	=	4 0
6-50 GPM	20-190 LPM	4 & 5	=	5 0
6-75 GPM	30-280 LPM	5 only	=	7 5
10-100 GPM	50-375 LPM	5 only	=	8 8
25-150 GPM	100-550 LPM	5 only	=	99











