

HYDRA-SLEUTH

SCHROEDER
DIAGNOSTIC PRODUCTS



*The low cost way to
diagnose trouble, correct
inefficient operation, and
predict failure in fluid
power systems*

Every fluid power system is in one of three states:

1. Inoperable because of failure of one or more components.
2. Operable, but inefficient because of the faulty performance of one or more components.
3. Operable and efficient, but headed into state 1 or 2, within a certain period of time, or number of operations.

Hydra-Sleuth is a portable tester that can pinpoint the trouble when a system is in state 1 or 2. It is one of a complete line of Schroeder Diagnostic Products that help the operators, or designers and manufacturers of fluid power systems, keep those systems operating at desired levels of performance.

When a system is not operating properly, the trouble is usually in any of several spots: The pump may be slipping because of worn parts. Pressure may be reduced because of a worn or improperly set part. Fluid may be leaking around the control valves. Fluid may be leaking past cylinder packing or parts of the motor, which greatly reduces system efficiency and performance.

Without dismantling the system and checking each component, Hydra-Sleuth can be employed to measure the flow, pressure and temperature of the fluid at given points in the system to pinpoint the malfunction.

Rugged and low cost

Hydra-Sleuth has been designed with all basic mechanical operation instead of more sophisticated electronic circuitry that is available in other Schroeder Diagnostic Products. It is a rugged instrument that can be used even when the fluid is contaminated. The orifice method of measuring flow minimizes the number of parts and vulnerability to dirt particles and friction.

Accurate, easy-to-read

Measures flows up to 60 GPM, pressures to 6000 PSI, and temperature to 250° Fahrenheit. Fixed, sharp-edge orifice method of measuring flow assures accurate GPM measurements even with the wide range of oil temperature and viscosity changes common to fluid power systems. Multiple scales are provided to give accurate readings at both high and low ranges. Snubbers assure long gauge life and protect against shocks and pulsations.

Prevents faulty connection

Built-in safety reliefs and snubbers guard instrumentation against reverse flows, overflows and back pressures due to misconnection or accidental pressure buildup.

Easy to use

Complete operating instructions for circuit connection and use are furnished with each Hydra-Sleuth tester. Service instructions are also included for field service and for checking calibration.

Fitting adaptor kits are available to facilitate connecting the Hydra-Sleuth to a wide variety of fluid power systems.

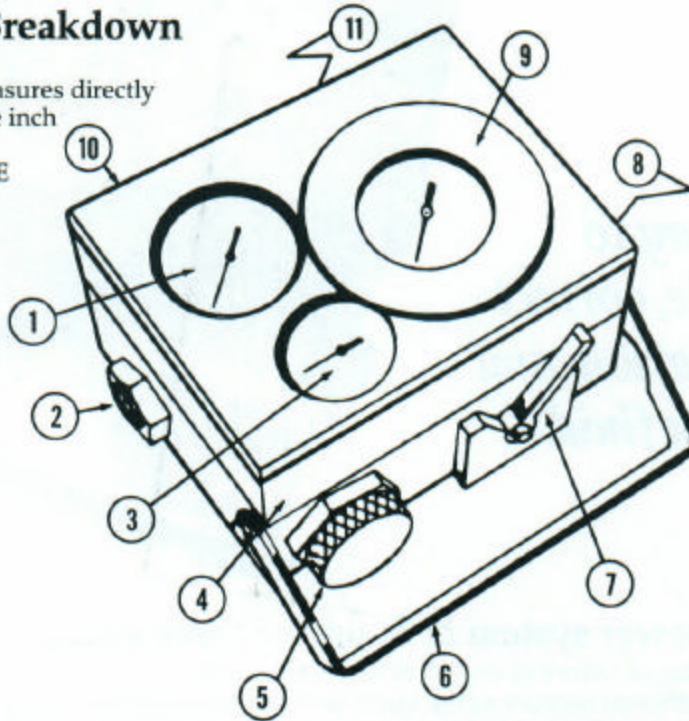
Ordering Information

Model Number	Description
PHS-60-3	60 GPM/3000 PSI Maximum Pressure
PHS-60-6	60 GPM/6000 PSI Maximum Pressure
PHS-60-3M	230 LPM/210 KG/cm ² Maximum Pressure
PHS-60-6M	230 LPM/420 KG/cm ² Maximum Pressure

Note: Metric unit temperature gauge is 0-150°C. Special gauge ranges available upon request.

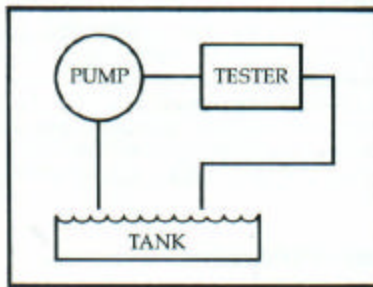
Specification Breakdown

1. Pressure gauge—Measures directly in pounds per square inch
2. Inlet port, 1¹/₁₆"-12 SAE
3. Temperature gauge—Measures directly in degrees Fahrenheit and indicates temperature of fluid
4. Operating instructions
5. Load valve—Flow restrictor or shut-off valve
6. Carrying handle



7. Flow range selector
8. Outlet port, 1¹/₁₆"-12 SAE
9. Three scale flow gauge—Measures gallons per minute on selected scale; 7, 20 or 60 GPM
10. Upstream safety blowout plug—Vents to atmosphere when pressure exceeds the maximum pressure range
11. Downstream blowout plug—Vents to atmosphere when unit is misconnected or when back pressure is over 1200 PSI

Simple connection to hydraulic circuit in a matter of minutes



Pump Test

In this particular example of Hydra-Sleuth's many testing capabilities, it is connected directly to the pressure port of the pump. Working pressure is applied through the load valve. Flow, pressure and temperature readings show performance of the pump under operating conditions.

Notice: Schroeder accepts no responsibility for malfunction of assemblies using parts not approved by Schroeder. Wear may occur under normal use and products should be inspected periodically for damage to connections or seals. Unitest products are not designed for use on aircraft. Dimensions and specifications may be changed without notice.

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