Additel 946A
Hydraulic High Pressure Calibration Pump

Additel
Metrology Made Simple

- **Pressurize large-volume workload**
- Generate pressure to 15,000 psi (1,000 bar)
- Increase and decrease pressure smoothly
- Three pressure ports
- Hand-tight quick connectors



OVERVIEW

The new Additel 946A Hydraulic Pressure Test Pump is a benchtop pressure pump designed to generate pressure to 15,000 psi (1,000 bar). This pump incorporates a dual-piston system which is ideal for filling large volume workload with the hand pump and providing smooth increase and decrease of pressure with the high pressure, fine adjust screw press. The 946A test pump incorporates an isolation valve which isolates the calibration volume from the check valve associated with the hand pump. Because the check valve can often be a source of leaks and maintenance, the isolation valve provides more stable measurements and reduces potential maintenance of the pump. Three hand-tight quick connectors installed on the pump allow easy connecting and disconnecting to the test pump without the need for PTFE tape or wrenches. The Additel 946A is an ideal comparison test pump for calibrating pressure measuring instruments such as test gauges, indicators or transducers.

FEATURES

- **Hand pump to fill large volume systems**
- **Durable and Minimal Maintenance**
  Isolation valve provides stable pressures while reducing maintenance on the hand pump check valve.
- **Easy-to-use**
  15,000 psi (1,000 bar) can be generated easily with the dual-piston system.
- **Three hand-tight quick connectors**
  Allows easy connection and disconnection to the test pump without the need for PTFE tape or wrenches.

ORDERING INFORMATION

- **Model Number**

ADT946A — N • • SET

Model:
ADT946A
ADT946AW

Pressure port type:
N - 1/4NPT female
N2 - 1/2NPT female
B - 1/4BSP female
B2 - 1/2BSP female
M - M20X1.5 female

SET: Pump and carrying case included

- **Accessories included**
  Mineral oil,1 bottle (250 ml)*
  * When water media is not requested
  O-ring: 20 pcs
  Carrying case (946-X-SET models only)

SPECIFICATIONS

- **Media:** Mineral oil or deionized water. (Oil is default media liquid. Pump with water as media to be ordered as ADT946AW. Pump stability is best when used with oil. Performance may decrease when used with water as the media.)
- **Reservoir capacity:** 25.6 in^3 (420 ml)
- **Generated Pressure Range**
  0 to 15,000 psi (1,000bar) gauge pressure
- **Material:** Ram/adapters: SS
  Body: SS, aluminum, Copper
  Seals: Buna-N
- **Connection**
  Hand-tight connectors for both test gauge and reference gauge(s)
  1/4NPT female, 1/2NPT female, 1/4BSP female, 1/2BSP female, or M20X1.5 female
- **Dimensions:** Height: 7.8" (200 mm)
  Base: 18.1" (460 mm) x 14.3" (365 mm)
- **Weight:** 26.5 lb (12 kg).
- **Piston volume:** Fine adjust piston: 0.152 in^3 (2.5 ml)
- **Volume Per Stroke:** 0.23 in^3 (3.72 ml)
- **Warranty:** 1 year

- **Optional Accessories**

Model number	*Description*
9201	Oil, Diethylhexyl Sebacate, 1 liter (1 quart)
9202	Oil, Mineral oil, 1 liter (1 quart)
ADT102	Adapters and fittings, 1/4HP male to various male and female connectors (25 pcs).
ADT103	Adapters and fittings, 1/4NPT (1/4BSP, or M20X1.5) male to various female hand-tight quick connectors (10 pcs).
ADT-HTK-15K-X[1]	Hose test kit, 5 feet flexible hose, 15,000 psi, 1/4NPT male to 1/4NPT (1/8NPT, 1/2NPT, 1/4BSP, or M20X1.5) female hand-tight quick connector.
ADT946A-MK	Maintenance kit for Additel 946 pump
ADT100-946-HK	Hose Kit, External Reservoir Expansion Hose Kit for ADT946A
9910	Carrying case for Additel 946A, Additel 959A or Additel 960

[1] Call Additel for complete model numbers

1.888.610.7664 www.calcert.com sales@calcert.com