

# INDUMART Canada DEADWEIGHT TESTER

Dual

Pistor

# SERIES: DWT2700

> ACCURACY: UP TO 0.008%

RANGE: 10...30,000 psi (1...2000 bar)

**EXCELLENT ACCURACY AND STABILITY** 

AUTOMATIC CHANG-OVER FROM LOW TO HIGH PRESSURE (except models above 15,000 psi)



#### INTRODUCTION

Indumart DWT2700 Series of Deadweight Testers provide high quality and cost effective means of calibrating pressure instruments. The instrument comprises baseplate / manifold with two piston assemblies, two test stations, a fluid reservoir and a ram screw pressure generating mechanism.

The design uses the piston gauge principle, in which, an applied pressure within the system balances a known mass applied to a piston of known effective area. Moreover, the DWT2700 Series deadweight testers (below 15,000 psi models) are equipped with separate low and high pressure systems built into the same unit. It consists of two plungers with different areas, that move along the same axis in their respective cylinders, developing pressures in the low and high cylinders respectively.

The standard package includes a unit of *DWT2700* Series Deadweight Tester, a set of precision weights in a metal carrying case, a set of tools, a set of NPT and BSP adaptors, an angle for back connection gauges, a set of spare seals, a dust cover, a bottle of operating fluid, pointer puller and pointer punch, calibration certificate and operating manual.

An added port (2<sup>nd</sup> port) to provide the possibility of converting the unit to a pressure comparator is an optional feature of DWT2700 series.

## PRECISION PRESSURE GAUGES

The DWT2700 can be combined with one or two pressure gauges to form a complete pressure calibration system.

- 1) Indumart DG50 digital Test Gauge,
- 2) Indumart P52 Series Test Pressure Gauge.

They must be ordered separately.

### **SPECIFICATIONS**

Accuracy Tester's Case Material Cylinder / Piston Mat. Adaptor Set Operating Fluid **Material of Masses** Tester Size & Weight **Weight Box** 

Gravity\* Temperature Air Density

0.015% (std.), 0.008% (optional)

Stainless steel

Tungsten carbide/HCHC

1/8", 1/4", 3/8" & 1/2" NPT & BSP

Special Hydraulic Oil

Non-magnetic stainless steel 361 x 382 x 245 mm (~12 kg) 12" x 12" x 12" (28 to 40 kg)

9.80665 m/s<sup>2</sup> 23°C 1.2 kg/m3

<sup>\*</sup> Adjustment for the local gravity is available on request.

Model	Range	
В	0.2 ~ 160 bar	2016,000 kPa
	102,000 psi	0.2 ~ 160 kg/cm <sup>2</sup>
D	1700 bar	10070,000 kPa
	1010,000 psi	1700 kg/cm <sup>2</sup>
F	11,000 bar	100100,000 kPa
	1015,000 psi	11,000 kg/cm <sup>2</sup>
G	11,400 bar	100140,000 kPa
	1020,000 psi	11,400 kg/cm <sup>2</sup>
Н	12,000 bar	100200,000 kPa
	1030,000 psi	12,000 kg/cm <sup>2</sup>



