

# NPI45B10 1157CC OVAL 13.7MPa 1157cc Valve Position Indicator Datasheet



**SKU:** [691274221178](#)

**Category:** Process Sensors

**Price:** **\$2,228.57**

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## Product Description

OVAL NPI45B10 1157CC is a positive displacement valve position indicator featuring a 1157 cc chamber capacity, 13.7 MPa maximum pressure rating, and dual SPDT microswitches. The unit utilizes high-precision oval gear rotors to measure hydraulic fluid displacement, translating volumetric flow into a direct-reading visual pointer with  $\pm 0.3$  % accuracy. Constructed with an FC 250 cast iron body and a slip friction clutch mechanism, it automatically synchronizes the pointer at 97 % to 100 % of the actuator stroke. The internal assembly includes a reduction gear train and a magnetic coupling to isolate the register from the high-pressure hydraulic circuit.

### NPI45B10 1157CC Specifications

Model: NPI45B10 1157CC

Brand: OVAL Corporation

Product Category: Valve Position Indicator

Measurement Principle: Positive Displacement (Oval Gear)

Chamber Capacity: 1157 cc

Maximum Operating Pressure: 13.7 MPa

Indicating Accuracy: 0 to +3 %

Flow Accuracy:  $\pm 0.3$  %

Switch Type: Micro Switch (SPDT) x 2

Switch Rating: 250 V AC / 1 A

Body Material: FC 250 Cast Iron

Rotor Material: Stainless Steel / Special Alloy

Shaft Material: Stainless Steel

Operating Temperature: -10 to +80 °C

Connection Size: Rc 3/8

Cable Entry: G 1/2

Weight: 2.2 kg

Feature: Slip Friction Clutch for Auto-Correction

Indicator: 0-100 % Scale with Direct-Reading Pointer

#### NPI45B10 1157CC Applications

Primary applications include integration into hydraulic actuator lines for remote position feedback in marine ballast water management and oil tanker cargo systems. Deployed within centralized supervisory systems for monitoring the open/shut status of high-pressure hydraulic valves in offshore platforms and shipboard engine rooms.

## Supplemental Images

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