

# Piston Type Differential Pressure Gauges

# SERIES: P74

Dial: 31/4", 4", 41/2", 6"

Accuracy: 2%

## Reed Alarm Contacts (option)



#### DESCRIPTION

Indumart P74 Series Differential Pressure Gauges with Piston element are designed to display the pressure differential of two separate pressure inputs on a dial indicator. These gauges are suitable for fluids, where small migration between high and low inputs is permitted. The difference between high and low pressure inputs results in the movement of the piston element, and this movement is magnetically transferred to the indicating assembly.

The P74 Series Pressure Gauges cover an extended range from 0-25 kPa to 0-1000 kPa of differential pressure. The maximum allowable high pressure input is 20 MPa (2900 psi).

For switching action, these gauges can be equipped with Reed switches to initiate alarms or to control the process. Up to two SPDT or SPST relays may be installed for high and low limits.

If these pressure gauges are used at measuring points with high dynamic alternating loads and strong vibrations and pulses, they may be filled with glycerin to ensure smooth pointer movement and to provide lubrication of the moving parts: protecting the measuring system against wear.

Indumart P74 Series are mostly used for monitoring filters, pumps and valves in the water, air, natural gas and gasoline systems. They may be mounted directly to the pressure ports, mounted to a pipe or on the panel surface.

### SPECIFICATIONS

Accuracy **Dial Size** 

**Body Material** Wetted Parts

**Dial Case** Connection Thread Seal Window **Operating Principle** 

Mounting

**Switch** 

Range

31/4" (80 mm), 4" (100 mm), 4½" (115 mm), 6" (160 mm) St. Steel, aluminum, brass Body material, 304SS spring, PTFE, ceramic magnet St. steel case and flange In-line, bottom or back 1/4" NPT or BSP female; Buna-N (std), Viton, EPDM Glass (std), acrylic, hard glass

±2% of full scale dial

Magnetic coupling using piston and spring Direct, 2" pipe,

front panel flange One or two SPST or SPDT; Field adjustable from 20% to

90% of the range

**SPST** 10 VA maximum (AC or DC) 50 VAC or 100 VDC max.

0.5 Amp. AC or DC max. 3 VA maximum (AC or DC)

SPDT 28 VAC or 28 VDC max. 0.25 Amp. AC or DC max.

80°C / 175°F maximum IP65 for the gauge & switch

Very little

0...25 kPa to 0...1000 kPa; 0...3.6 psi to 0...150 psi; 0...0.25 bar to 0...10 bar Special ranges up to 7 MPa, 1000 psi and 70 bar (consult factory)

Pressure Display Unit kPa, psi, mbar, bar

3000 psi (standard aluminum

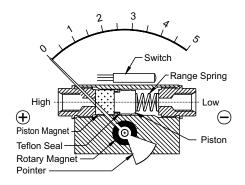
or brass body); 6000 psi (304SS body)

Max. Pressure Input

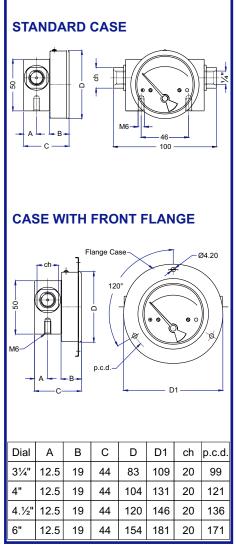
Media Temperature

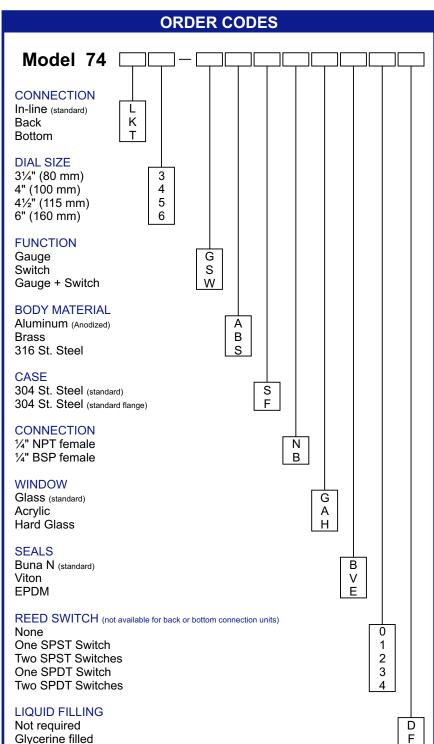
**Environ. Protection** 

Migration of Media



**DIMENSIONS (mm)** 





Specifications may change without prior notice.

STANDARD RANGES	
kPa	0-25, 0-50, 0-75, 0-100, 0-160, 0-200, 0-250, 0-300, 0-350, 0-400, 0-500, 0-600, 0-700, 0-900, 0-1000
psi	0-5, 0-8, 0-15, 0-20, 0-25, 0-30, 0-40, 0-50, 0-60, 0-80, 0-100, 0-150
bar	0-0.25, 0-0.5, 0-0.75, 0-1, 0-1.6, 0-2, 0-2.5, 0-3, 0-3.5, 0-4, 0-5, 0-6, 0-7, 0-9, 0-10
mbar	0-250, 0-500, 0-750, 0-1000
kg/cm <sup>2</sup>	0-0.25, 0-0.5, 0-0.75, 0-1, 0-1.6, 0-2, 0-2.5, 0-3, 0-3.5, 0-4, 0-5, 0-6, 0-7, 0-9, 0-10
Other ranges up to 7 MPa, 1000psi and 70 bar are available, on request.	