

# PCI3 SERIES FLOWMETERS

A range of flowmeters providing an accurate and economical measurement of liquid flow up to 9,000 litres per minute, the **PCI3 Series** are robustly constructed in 316 stainless steel, corrosion-resistant and able to withstand high temperature and pressure.

## Specifications

|                             |   |
|-----------------------------|---|
| <b>Linearity:</b>           | +/- 0.5% of reading throughout the linear range         |
| <b>Repeatability</b>        | +/-0.1% of reading                                      |
| <b>Maximum overrange:</b>   | Up to 120% of the maximum flow rate for short durations |
| <b>Maximum pressure</b>     | 35 bar (special connections up to 350 bar)              |
| <b>Body connections RN3</b> | BSP parallel thread with 60° cone                       |



Used with water, light oils, solvents and low viscosity chemicals, in addition to simple flow-rate monitoring, the **PCI3 Series** can also be utilised in batching, controlling, blending and filling.

## Construction

|                        |  |
|------------------------|--|
| <b>Body</b>            | 316 stainless steel                            |
| <b>Sleeve bearings</b> | Carbon graphite filled PTFE (max temp. 180 °C) |
| <b>Thrust balls</b>    | Tungsten carbide                               |
| <b>Rotor</b>           | 431 s/s or ferralium                           |
| <b>Rotor shaft</b>     | Tungsten carbide                               |
| <b>Hangers</b>         | 316 stainless steel                            |
| <b>Circlips</b>        | 316 stainless steel                            |

Using a simple rotary turbine to generate a pulse output, the signal from the PCI3 Series can be viewed via a local or remote display, or converted for transmission to an independent control system.

## Options

|                           |                                       |
|---------------------------|---------------------------------------|
| <b>Sleeve bearings</b>    | Tungsten carbide ( max. temp. 300 °C) |
| <b>Intrinsically Safe</b> | IS pick-off coil to EEx ia IIC T5     |

Although installed directly into the pipeline, the PCI3 series manifests low pressure drop and has bi-directional flow capability. Low maintenance and down-time reduce both waste and costs whilst improving product quality.

| Model No.  | Thread Size (BSP) | Flow Range (lit/min) | Pulses / lit* | L (mm) | Dia (mm) | Weight (kg) |
|------------|-------------------|----------------------|---------------|--------|----------|-------------|
| PCI3/15    | ½"                | 2-20                 | 3800          | 82.6   | 50       | 0.5         |
| PCI3/20/5  | ¾"                | 5-50                 | 1080          | 82.6   | 50       | 0.5         |
| PCI3/20/8  | ¾"                | 8-80                 | 1080          | 82.6   | 50       | 0.5         |
| PCI3/25/15 | 1"                | 15-150               | 620           | 90.5   | 63.5     | 1           |
| PCI3/25    | 1"                | 25-250               | 362           | 90.5   | 63.5     | 0.8         |
| PCI3/32    | 1¼"               | 45-450               | 111           | 110    | 75       | 1.6         |
| PCI3/40    | 1½"               | 67-670               | 82            | 116.7  | 76.2     | 1.7         |
| PCI3/50    | 2"                | 110-1100             | 59            | 154    | 89       | 3.1         |
| PCI3/65    | 2½"               | 225-2250             | 19            | 170    | 95       | 3.5         |

\* Known as the K factor, this nominal value is based on water at 20°C. Each flowmeter is individually calibrated and possesses a unique K factor.