# **WPB Series Hydraulic Flow Monitor**

# Up to

- 550 lpm, 150 US gpm
- 420 bar, 6000 psi

The WPB series in-line flow monitors are designed for continuous monitoring or intermittent use for trouble-shooting or commissioning industrial or mobile hydraulic systems.

The tubular scale is easily read through the clear polycarbonate window and ensures checks can be made to determine pump performance and setting of flow control valves. The unit is fully sealed for weather tight or wash down applications. An optional Pyrex safety glass window is available.

Wetted seals are available in Buna (standard), Viton®, EPR or Kalrez®, so compatibility with hydraulic fluids in mobile, industrial or other applications such as lubrication or coolant systems is not a problem.

The WPB series flow monitors do not require straight inlet or outlet piping or require vertical installation. The advanced design of the sharp edged orifice ensures good reliability over a wide viscosity range and minimises the effect of contamination. Accuracy is 2.5% over the centre third of the scale and 4% over the entire flow range.





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#### **Features**

- Low cost solution
- Wide variety of flow ranges
- Accurate within 2.5% over mid-scale, 4% FSD
- Pressure rating up to 420 bar (6000 psi)
- Excellent viscosity stability to a min of 95 cSt
- Port sizes from 3/8" to 2"
- Direct reading, dual calibration, Ipm & US gpm
- Aluminium construction
- Advanced stainless steel sharp edge orifice
- Unrestricted mounting in any orientation



Certificate No.8242

## **Specifications**

#### Measuring accuracy

- ± 2.5% of full-scale in the centre third of the measuring range
- ± 4% of full-scale over the entire scale range

#### Repeatability

± 1% of full scale

#### Maximum operating pressure

Aluminium and Brass monitors 240 bar (3000 psi), stainless steel 420 bar (6000 psi).

### Maximum operating temperature

115° C (240° F)

Note: For operation to 315° C (600° F), a high temperature range is available

#### Pressure differential

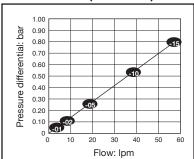
See graphs below

## Standard calibration fluids

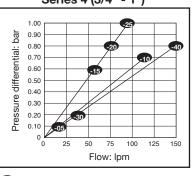
Oil monitors: DTE 25 @ 43°C (40 cSt), 0.873 sg Water monitors: Tap water @ 21°C (1 cSt), 1.0 sg

# Pressure differential graphs categorised by size code

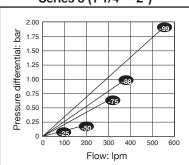
Series 3 (3/8" - 1/2")



Series 4 (3/4" - 1")



Series 5 (1 1/4" - 2")



Polycarbonate (STD), Pyrex

Buna-N (STD), Teflon®

= Model number (see Sales Brochure)

14.5 psi= 1 bar, 1 US gpm = 3.785 lpm

#### Construction

Wetted components: High pressure casing, end ports and tapered shafts:	Aluminium, Brass and Stainless Steel	
Seals:	Buna-N (STD), EPR, Viton® or Kalrez®	
Transfer magnet:	Teflon® coated Alnico	
Floating Orifice disc:	Stainless Steel	
All other internal parts:	Stainless Steel	

(Teflon® is a registered trademark of DuPont) (Viton® & Kalrez® are registered trademarks of Dow DuPont

Non-wetted components:

Elastomers)

Window tube:

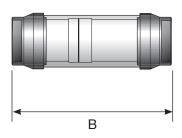
Window seals:

#### **Dimensions**

Size code	3	4
Dim. A mm (inches)	48 (1.9)	60 (2.4)
Dim. B mm (inches)	167 (6.5)	182 (7.2)







# **Product Selector**

Standard Flow Meter Part Number (For custom units, consult the Sales Office)

