



# POMIAR PRZEPŁYWU CIECZY Przepływomierze Webtec typ WPB



# WPB Series Hydraulic Flow Monitor

### Up to • 550 lpm, 150 US gpm • 420 bar, 6000 psi

The WPB series in-line flow meters are ideal for monitoring pump performance and media flows through hydraulic circuits and cooling systems.

The flow rate is easily read in either US GPM or LPM from the laser engraved scale.

A varied choice of materials and seals can make it suitable for a wide range of fluids.

Due to the sharp edge orifice technology the units have excellent viscosity stability which means it is suitable for a wide operating temperature range.

Installation is made easy with a choice of threaded ports, no need for straight lengths of pipe on inlet or outlet and no restriction to orientation. This combined with the unit being sealed means that it can nearly be installed anywhere.

WEBTEC

GPM

LPM

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WPB4A6HV20 .873 SG 3500 PS1/240 BAF





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#### **Features**

- FLOW: 0.5 550 lpm, 0.1 - 150 US gpm
- PRESSURE rating up to 420 bar (6000 psi)
- ACCURACY ±2% of full scale
- DIRECT reading,
- DUAL SCALE lpm & US gpm
- EXCELLENT viscosity stability to a min of 95 cSt
- **CHOICE** of BSPP, NPTF or SAE Port threads
- CHOICE of Aluminium, Brass or Stainless Steel Construction
- ADVANCED stainless steel sharp edge orifice

UNRESTRICTED mounting in any orientation



Symbol



Hydraulic measurement and control

Specifications	
Measuring accuracy Repeatability	± 2.0 % of full scale ± 1% of full scale
Max. operating pressure	Aluminium and Brass monitors 240 bar (3500 psi), stainless steel 420 bar (6000 psi).
Max. 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
Calibration	Oil monitors: DTE 25 @ 43°C (40 cSt), 0.873 sg Water monitors: Tap water @ 21°C (1 cSt), 1.0 sg Flow calibration certificates are available on request, this is a chargeable option. Note: Must be requested at time of order & cannot be retrospectively requested.

#### Pressure differential graphs categorised by size code



If a size (see Product Selector)
14.5 psi = 1 bar, 1 US gpm = 3.785 lpm

#### Construction

Wetted components:		Non-wetted components:			
High pressure casing, end ports and tapered	2014 Aluminium, CA360 Brass and 304 Stainless Steel	Window tube:	Polycarbonate (as standard), Pyrex		
shafts:		Window seals:	Buna-N (as standard),		
Seals:	Buna-N (as standard) Optional: EPR, Viton® or Kalrez®		Teflon®		
Transfer magnet:	Teflon <sup>®</sup> coated Alnico		is a registered trademark of DuPont) १ Kalrez® are registered trademarks of Dow DuPont		
Floating Orifice disc:	ting Orifice disc: Stainless Steel		istered trademarks of Dow Dupont		
All other internal parts:	Stainless Steel	•			

All other internal parts: Stainless Steel

#### Operation

The flow monitor consists of tapered center shaft, encircled by a sharp edged floating orifice disk, transfer magnet and return spring.

As flow moves through the monitor, a pressure differential occurs across the floating orifice disk, forcing the disk & transfer magnet against the return spring. As flow increases, the pressure differential increases, forcing the disk transfer magnet along the tapered shaft. As flow decreases, the biased spring forces the disk & transfer magnet down the tapered shaft, returning to the "no flow" position.

In metal casing monitors, where the disk & transfer magnet are sealed in the body casing, there is a magnetically coupled magnet follower which displays the reading on the outside scale.

The flow monitor has a linear relationship between flow rate, pressure differential and piston displacement which is displayed on the calibrated scale.

#### **Dimensions** -

Size code	3	4	5	5 (2" ports)	
Dim. A mm (inches)	48 (1.9)	60 (2.4)	90 (3.5)	90 (3.50	
Dim. B mm (inches)	167 (6.6)	182 (7.2)	258 (10.2)	322 (12.7)	





#### Product Selector -

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



Please note - SAE porting not available in brass \* Bi-directional option only available in the following flow ranges:

Size code 3 - flow range 5,10 and 15 gpm only Size code 4 - flow range 10,15, 20 and 30 gpm only Size code 5 - flow range 50, 75 and 100 gpm only

#### Other Series available

WPG Series Pneumatic Flow Monitor WPH Series High Temperature Flow Monitor WPP Series Phosphate Ester Flow Monitor WPR Series Flow Monitor with Flow Rate Transmitters WPM Series Flow Monitor with Flow Rate Alarm WPC Series Hydraulic Case Drain Monitor



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