# WPC Series Hydraulic Case Drain Monitor

## Up to

- 115 lpm, 30 US gpm
- 70 bar, 1000 psi

The WPC series in-line case drain monitors are designed as a low cost alternative to using a high pressure flow meter for case drain applications.

The tubular scale is easily read through the clear polycarbonate window and ensures checks can be made to determine pump performance with ease. The unit is fully sealed for weather tight or wash down applications.

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

The WP series flow monitors do not require straight inlet or outlet piping or 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 5% over the entire flow range.





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#### Features

- Low cost solution
- Wide variety of flow ranges, 0.5 - 115 lpm (0.05 - 30 US gpm)
- Accurate within 5% FSD
- Pressure rating up to 70 bar (1000 psi)
- Excellent viscosity stability to a min of 95 cSt
- Port sizes from 1/2" to 1"
- Direct reading, dual calibration, Ipm & US gpm
- Aluminium construction
- Advanced stainless steel sharp edge orifice
- Unrestricted mounting in any orientation



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Manufacturers of hydraulic components and test equipment for the Mobile, Industrial and Agricultural industries

### Specifications

Measuring accuracy

 $\pm$  5% of full-scale over the entire scale range

#### Repeatability

± 1% of full scale

Maximum operating pressure

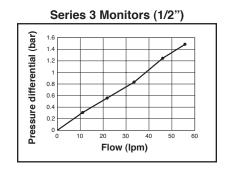
70 bar (1,000 psi)

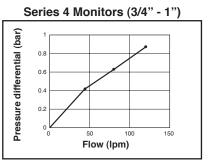
# Maximum operating temperature 116° C (240 $^\circ\text{F})$

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





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

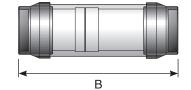
#### **Construction** -

Wetted components: High pressure casing, end ports and tapered shafts:	Aluminium	Non-wetted components: Window tube:	Polycarbonate (STD)	
Seals:	Buna-N	Window seals:	Buna-N (STD),	
Transfer magnet:	Teflon® coated Alnico		(Teflon® is a registered trademark of DuPont)	
Floating Orifice disc:	Stainless Steel	(Teflon® is a registered trademark o		
All other internal parts:	Stainless Steel			

#### Dimensions ·

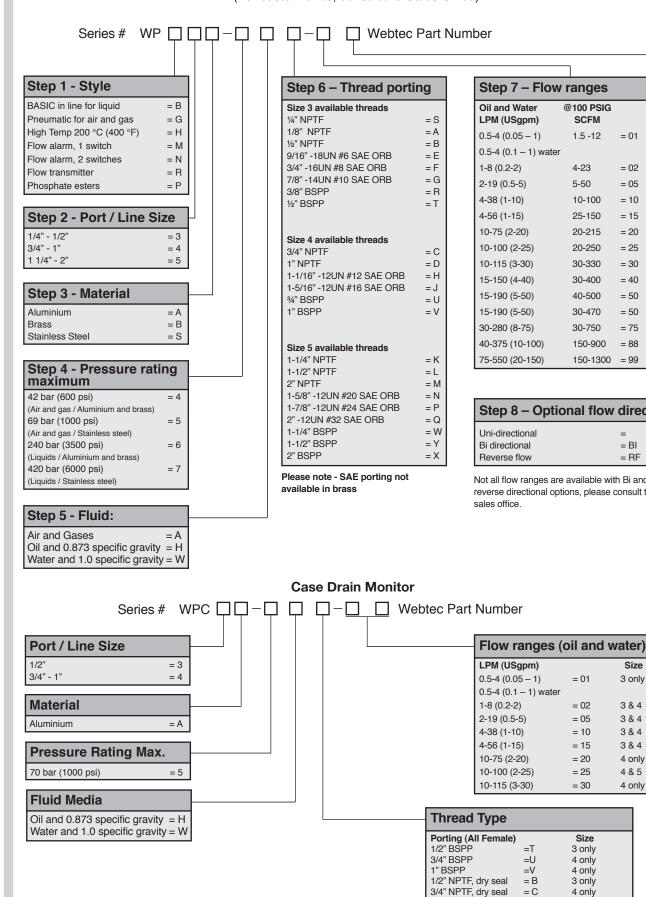
Size code	3	4
Dim. A mm (inches)	48 (1.9)	60 (2.4)
Dim. B mm (inches)	167 (6.5)	182 (7.2)





# **Product Selector**

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



Step 7 – Flow ranges @100 PSIG Oil and Water LPM (USgpm) SCEM Size 0.5-4 (0.05 - 1) 1.5 -12 = 01 3 only 0.5-4 (0.1 - 1) water 1-8 (0.2-2) 4-23 = 02 3 & 4 2-19 (0.5-5) 5-50 = 05 3&4 4-38 (1-10) 10-100 = 10 3&4 4-56 (1-15) 25-150 = 15 3&4 20-215 10-75 (2-20) = 20 4 only 10-100 (2-25) 20-250 = 25 4 & 5 10-115 (3-30) 30-330 = 30 4 only 15-150 (4-40) 30-400 = 404 only 40-500 15-190 (5-50) = 50 4 only 15-190 (5-50) 30-470 = 50 5 only 30-280 (8-75) 30-750 = 75 5 only 150-900 40-375 (10-100) = 88 5 only 75-550 (20-150) 150-1300 = 99 5 only

Step 8 – Optiona	I flow directions
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Uni-directional	=
Bi directional	= BI
Reverse flow	= RF

= 01

= 02

= 05

= 10

= 15

= 20

= 25

= 30

Size 3 only

4 only

4 only

3 only

4 only

4 only

-T

=U

=V

= B

= D

1" NPTF, dry seal

Size

3 only

3 & 4

3&4

3&4

3&4

4 only

4 & 5

4 only

Not all flow ranges are available with Bi and reverse directional options, please consult the