WPH Series High Temperature Flow Monitor

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

The WPH series high temperature in-line flow monitors are designed for continuous monitoring or intermittent use on high temperature fluid systems up to 204°C (not suitable for steam).

The tubular scale is easily read through the clear Pyrex window and ensures checks can be made to determine pump performance and setting of flow control valves. Wetted seals are Viton®. The flow monitors are available in a choice of three different materials, aluminium, brass or stainless steel to suit your application.

The WPH series flow monitors do not require straight inlet or outlet piping and can be installed in any orientation. 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

- Suitable for temperatures up to 204° C (400° F)
- Wide variety of flow ranges
- Pressure rating up to 420 bar (6000 psi)
- Port sizes from 3/8" to 2"
- Direct reading dual calibration, Ipm & US gpm
- Accurate within 2.5% over mid-scale, 4% FSD
- Advanced stainless steel sharp edge orifice
- Unrestricted mounting in any orientation



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

Specifications

Measuring accuracy

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

Repeatability

± 1% of full scale

Maximum operating pressure

Aluminium & brass monitors 240 bar (3000 psi), stainless steel 420 bar (6000 psi) (Note: See temperature / pressure de-rating chart)

Maximum operating temperature

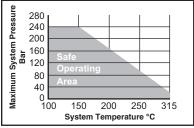
204° C (400° F) 315° C (600° F model available)

Pressure differential

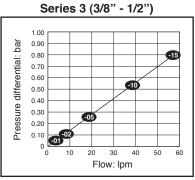
See graphs below

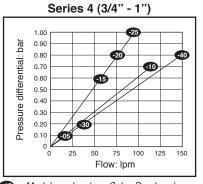
Standard calibration fluids DTE 25 @ 43°C, 0.873 sg.

Temperature De-rating for Aluminium & Brass Monitors



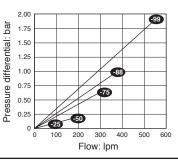
Pressure differential graphs categorised by size code





Identified and the set of the set o

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



Construction –

Wetted components: High pressure casing, end ports and tapered shafts	Aluminium, Brass & Stainless Steel	Window tube:	
Seals:	Viton®		
Transfer magnet	Teflon® coated Alnico		
Floating Orifice disc:	Stainless Steel	(Teflon® is a regist (Viton® & Kalrez® a	
All other internal parts	Stainless Steel	Elastomers)	

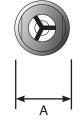
Non-wetted components:

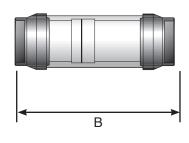
Window tube:	Pyrex
Window seals:	Teflon®

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

Dimensions

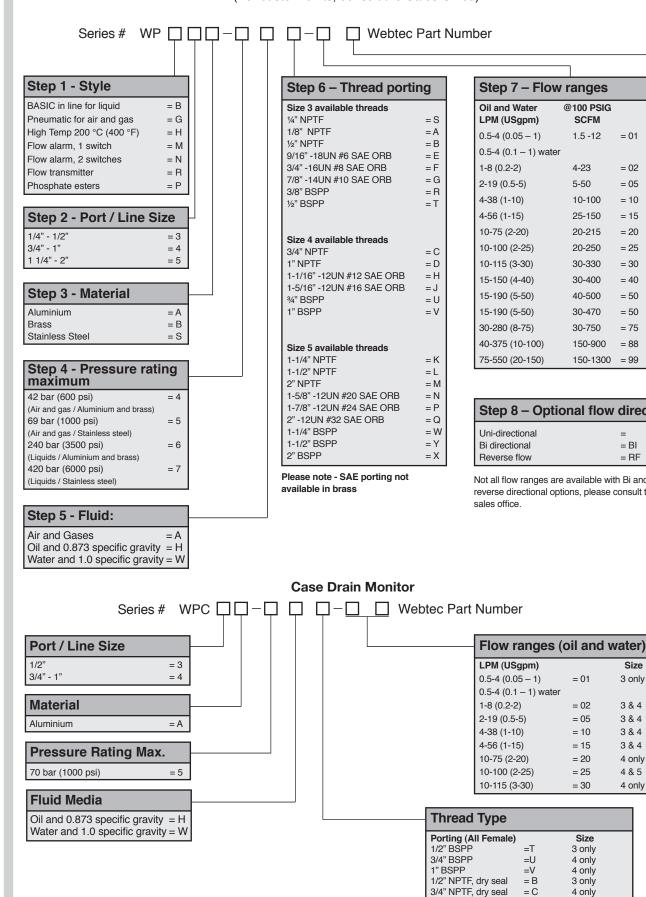
Size code	3	4	5	5 (2" ports)
Dim. A mm (inches)	48 (1.9)	60 (2.4)	90 (3.5)	90 (3.50
Dim. B mm (inches)	167 (6.6)	182 (7.2)	258 (10.2)	322 (12.7)





Product Selector

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



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