



POMIAR PRZEPŁYWU CIECZY Przepływomierze Webtec typ WPC



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.

It is ideal for monitoring pump performance and identifying required maintenance.

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.







Hydraulic measurement and control



Milwaukee, WI 53235, USA Tel: +1 (414) 769-6400 sales-us@webtec.com

St. Ives, Cambs. PE27 3LZ, UK Tel: +44 (0) 1480 397 400 sales-uk@webtec.com

www.webtec.com

Features

- FLOW: 0.5 150 lpm, 0.1 - 150 US gpm
- PRESSURE rating up to 70 bar (1000 psi)
- ACCURACY ±5% 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
- Construction
- ADVANCED stainless steel sharp edge orifice
- **UNRESTRICTED** mounting in any orientation



Specifications

Measuring accuracy	± 5.0 % of full scale
Repeatability	± 1% of full scale
Max. operating pressure	70 bar (1,000 psi)
Max. operating temperature	116° C (240 °F)
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



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

Construction

Construction				
Wetted components: High pressure casing, end ports and tapered shafts:	2014 Aluminium	Non-wetted components: Window tube:	Polycarbonate (STD)	
Seals:	Buna-N	Window seals:	Buna-N (STD),	
Transfer magnet:	Teflon® coated Alnico		Teflon®	
Floating Orifice disc:	Stainless Steel	(Teflon® is a registered trademark	of DuPont)	
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)

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.

Product Selector

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



Other Series available

WPB Series Hydraulic Flow Monitor 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



CENTRALA ELBLĄG

ul. Rawska 19B 82-300 Elblag

tel. /+48/ 55 625 51 00 fax /+48/ 55 625 51 01

Dział Handlowy

tel. /+48/ 55 625 51 51 elblag@hydropress.pl

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www.hydropress.pl

ODDZIAŁ GDAŃSK

tel. /+48/ 55 625 51 21 fax /+48/ 55 625 51 22

ODDZIAŁ RUMIA tel. /+48/ 58 679 34 15 fax /+48/ 55 625 51 25

ODDZIAŁ TYCHY tel. /+48/ 32 787 52 88 fax /+48/ 55 625 51 38

ODDZIAŁ OLSZTYN tel. /+48/ 89 532 01 05 fax /+48/ 89 715 21 42

ODDZIAŁ WARSZAWA tel. /+48/ 22 468 86 97 fax /+48/ 55 625 51 32

BIURO WE WROCŁAWIU tel. /+48/ 782 838 000 fax /+48/ 55 625 51 35

> **BIURO W KIELCACH** tel. /+48/ 885 995 501 fax /+48/ 55 625 51 01

BIURO W KRAKOWIE tel./+48/885995019 fax /+48/ 55 625 51 01

BIURO W OPOLU tel. /+48/ 885 995 011 fax /+48/ 55 625 51 01

BIURO W BYDGOSZCZY tel. /+48/ 790 222 771 fax /+48/ 55 625 51 01

BIURO W BIAŁYMSTOKU tel. /+48/ 89 532 01 05 fax /+48/ 89 715 21 42

> **BIURO W ŁODZI** tel. /+48/ 609 221 421 fax /+48/ 89 715 21 42