

WPG Series Pneumatic Flow Monitor

● Flow rates from 1.5 to 1300 SCFM

The WPG series in-line flow monitors are designed for continuous monitoring or intermittent use and ideal for checking air compressor output or testing pneumatic machinery and tools for correct air consumption. All monitors are calibrated at 21°C and 6.9 bar (100 psi) as standard, so eliminating the need for look-up tables for most applications. The tubular scale is easily read through the clear polycarbonate window and ensures checks can be made to determine compressor 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 all pneumatic systems in mobile, industrial or other applications is not a problem.

The WPG series flow monitors do not require straight inlet or outlet plumbing and can be fitted 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.



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



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Features

- Low cost solution
- Ideal for measuring compressor output
- Wide variety of flow ranges, 1.5 - 1300 SCFM
- Pressure rating up to 70 bar (1000 psi)
- Port sizes from 3/8" to 2"
- Direct reading
- Calibrated in SCFM at 21°C and 6.9 bar (100 psi)
- Accurate within 2.5% over mid-scale, 4% FSD
- Advanced stainless steel sharp edge orifice
- Unrestricted mounting in any orientation



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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

Flow measuring range

1.5 - 1300 SCFM (Standard cubic feet per minute)

Maximum operating pressure

Aluminium & brass monitors 40 bar (580 psi),
 stainless steel 70 bar (1,000 psi)

Maximum operating temperature

115° C (240° F)

Pressure differential

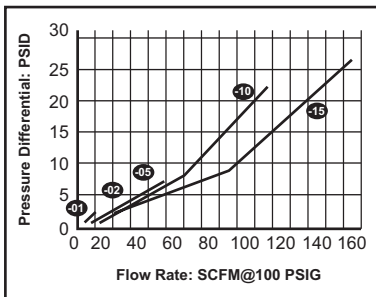
See graphs below

Standard calibration fluids

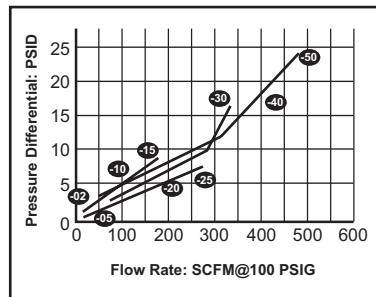
Air @ 21°C, 1.0 sg and 6.9 bar (100 psi)

Pressure differential graphs categorised by size code

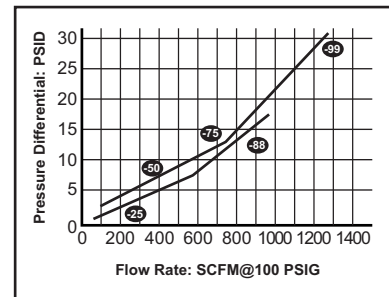
Series 3 (3/8" - 1/2")



Series 4 (3/4" - 1")



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



15 = Model number (see Sales Brochure)

Construction

Wetted components:

High-pressure casing, end ports and tapered shafts:	Aluminium, Brass & 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

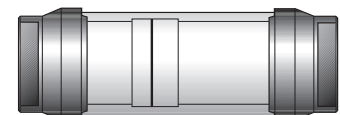
Non-wetted components:

Window tube:	Polycarbonate (STD), Pyrex
Window seals:	Buna-N (STD), 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)

Series # WP - - Webtec Part Number

Step 1 - Style	
BASIC in line for liquid	= B
Pneumatic for air and gas	= G
High Temp 200 °C (400 °F)	= H
Flow alarm, 1 switch	= M
Flow alarm, 2 switches	= N
Flow transmitter	= R
Phosphate esters	= P

Step 2 - Port / Line Size	
1/4" - 1/2"	= 3
3/4" - 1"	= 4
1 1/4" - 2"	= 5

Step 3 - Material	
Aluminium	= A
Brass	= B
Stainless Steel	= S

Step 4 - Pressure rating maximum	
42 bar (600 psi) (Air and gas / Aluminium and brass)	= 4
69 bar (1000 psi) (Air and gas / Stainless steel)	= 5
240 bar (3500 psi) (Liquids / Aluminium and brass)	= 6
420 bar (6000 psi) (Liquids / Stainless steel)	= 7

Step 5 - Fluid:	
Air and Gases	= A
Oil and 0.873 specific gravity	= H
Water and 1.0 specific gravity	= W

Step 6 - Thread porting	
Size 3 available threads	
1/4" NPTF	= S
1/8" NPTF	= A
1/2" NPTF	= B
9/16" -18UN #6 SAE ORB	= E
3/4" -16UN #8 SAE ORB	= F
7/8" -14UN #10 SAE ORB	= G
3/8" BSPP	= R
1/2" BSPP	= T
Size 4 available threads	
3/4" NPTF	= C
1" NPTF	= D
1-1/16" -12UN #12 SAE ORB	= H
1-5/16" -12UN #16 SAE ORB	= J
3/4" BSPP	= U
1" BSPP	= V
Size 5 available threads	
1-1/4" NPTF	= K
1-1/2" NPTF	= L
2" NPTF	= M
1-5/8" -12UN #20 SAE ORB	= N
1-7/8" -12UN #24 SAE ORB	= P
2" -12UN #32 SAE ORB	= Q
1-1/4" BSPP	= W
1-1/2" BSPP	= Y
2" BSPP	= X

Please note - SAE porting not available in brass

Step 7 - Flow ranges			
Oil and Water	@100 PSIG		
LPM (USgpm)	SCFM		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
10-75 (2-20)	20-215	= 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	= 40	4 only
15-190 (5-50)	40-500	= 50	4 only
15-190 (5-50)	30-470	= 50	5 only
30-280 (8-75)	30-750	= 75	5 only
40-375 (10-100)	150-900	= 88	5 only
75-550 (20-150)	150-1300	= 99	5 only

Step 8 - Optional flow directions	
Uni-directional	=
Bi directional	= BI
Reverse flow	= RF

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

Case Drain Monitor

Series # WPC - - Webtec Part Number

Port / Line Size	
1/2"	= 3
3/4" - 1"	= 4

Material	
Aluminium	= A

Pressure Rating Max.	
70 bar (1000 psi)	= 5

Fluid Media	
Oil and 0.873 specific gravity	= H
Water and 1.0 specific gravity	= W

Flow ranges (oil and water)			
LPM (USgpm)			Size
0.5-4 (0.05 - 1)	= 01		3 only
0.5-4 (0.1 - 1) water			
1-8 (0.2-2)	= 02		3 & 4
2-19 (0.5-5)	= 05		3 & 4
4-38 (1-10)	= 10		3 & 4
4-56 (1-15)	= 15		3 & 4
10-75 (2-20)	= 20		4 only
10-100 (2-25)	= 25		4 & 5
10-115 (3-30)	= 30		4 only

Thread Type		
Porting (All Female)		
1/2" BSPP	= T	3 only
3/4" BSPP	= U	4 only
1" BSPP	= V	4 only
1/2" NPTF, dry seal	= B	3 only
3/4" NPTF, dry seal	= C	4 only
1" NPTF, dry seal	= D	4 only