

VARIABLE AREA FLOW MONITORS – PART NUMBER GUIDE

Step 1

Style:

- BASIC in-line for liquid = **B**
- PNEUMATIC for air and gas = **G**
- HI-TEMP 400°F in-line = **H**
- HI-TEMP 600°F in-line = **J**
- FLOW ALARM, 1 switch = **M**
- FLOW ALARM, 2 switches = **N**
- PHOSPHATE ESTER in-line = **P**
- FLOW TRANSMITTER = **R**
- HYDRAULIC SYSTEM ANALYZERS = **T** or **K**

Step 2

Port/Line Size Range:

- 1/4" - 1/2" = **3**
- 3/4" - 1" = **4**
- 1 1/4" - 2" = **5**

Step 3

Material:

- Aluminum = **A**
- Brass = **B**
- Stainless Steel = **S**

Step 4

Pressure Rating:

- 600 PSIG Max. (Air & Gas/Aluminum and Brass) = **4**
- 1000 PSIG Max. (Air & Gas/Stainless Steel) = **5**
- 3500 PSIG Max. (Liquids/Aluminum and Brass) = **6**
- 6000 PSIG Max. (Liquids/Stainless Steel) = **7**

Step 5

Fluid Media:*

- Air and Gases = **A**
- Oil and 0.873 specific gravity = **H**
- Water and 1.0 specific gravity = **W**

*For special scales consult the Lake factory

Step 6

Thread Type:

Porting: (All Female)

- | | |
|---|--------|
| S = 1/4" NPTF, dry seal | 3 only |
| A = 3/8" NPTF, dry seal | 3 only |
| B = 1/2" NPTF, dry seal | 3 only |
| C = 3/4" NPTF, dry seal | 4 only |
| D = 1" NPTF, dry seal | 4 only |
| E = #6 SAE, O-ring seal | 3 only |
| F = #8 SAE, O-ring seal | 3 only |
| G = #10 SAE, O-ring seal | 3 only |
| H = #12 SAE, O-ring seal | 4 only |
| J = #16 SAE, O-ring seal | 4 only |
| K = 1 1/4" NPTF, dry seal | 5 only |
| L = 1 1/2" NPTF, dry seal | 5 only |
| M = 2" NPTF, dry seal | 5 only |
| N = #20 SAE, O-ring seal | 5 only |
| P = #24 SAE, O-ring seal | 5 only |
| Q = #32 SAE, O-ring seal | 5 only |
| R = 3/8" BSP (British Std. Pipe) | 3 only |
| T = 1/2" BSP (British Std. Pipe) | 3 only |
| U = 3/4" BSP (British Std. Pipe) | 4 only |
| V = 1" BSP (British Std. Pipe) | 4 only |
| W = 1 1/4" BSP (British Std. Pipe) | 5 only |
| Y = 1 1/2" BSP (British Std. Pipe) | 5 only |
| X = 2" BSP (British Std. Pipe) | 5 only |
| Z = Cartridge | |

Size Code

Step 7

Flow Ranges:

Liquid	Air	Size Code	
		(Oil and Water)	(@ 100 PSIG)
01 = 0.05-1 GPM	1.5-12 SCFM	3 only	3 only
02 = 0.1-1 GPM water	4-23 SCFM	3 & 4	3 & 4
05 = 0.5-5 GPM	5-50 SCFM	3 & 4	3 & 4
10 = 1-10 GPM	10-100 SCFM	3 & 4	3 & 4
15 = 1-15 GPM	25-150 SCFM	3 & 4	3 & 4
20 = 2-20 GPM	20-215 SCFM	4 only	4 only
25 = 2-25 GPM	20-250 SCFM	4 & 5	4 & 5
30 = 3-30 GPM	30-330 SCFM	4 only	4 only
40 = 4-40 GPM	30-400 SCFM	4 only	4 only
50 = 5-50 GPM	40-500 SCFM	4 only	4 only
75 = 5-50 GPM	30-470 SCFM	5 only	5 only
75 = 8-75 GPM	30-750 SCFM	5 only	5 only
88 = 10-100 GPM	150-900 SCFM	5 only	5 only
99 = 20-150 GPM	150-1300 SCFM	5 only	5 only

Step 8

Optional Flow Directions:

- = Standard Flow, Uni-directional
- BI** = Bi-Directional Flow
- RF** = Reverse Flow

*Not all flow ranges are available with Bi-Directional and Reverse Flow options. Please consult factory for availability and delivery time.

Note: SAE porting not available in Brass

*Consult factory.



FREEFLOW™ P-Type Flow Transmitter

PART NUMBER GUIDE

FF — □ □ □ — □ □ □ — □ □

Body Material

- PVC = **P**

Flow Range

- 0.5 - 5 GPM = **05**
- 1-10 GPM = **10**
- 1-15 GPM = **15**

Media Calibration

- Water = **W**

Connection Type

- Female NPT threads (PVC) = **N**

Electrical Connector

- Standard DIN = **A**
- 10' Pigtail = **B**

Electrical Output

- Voltage 0-5 Vdc = **V**
- Voltage 0-10 Vdc = **W**
- Current 4-20 mA = **C**

Nominal Port Size

- 3/8" = **2**
- 1/2" = **3**
- 3/4" = **4**



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CV — —

Body Material

- Polycarbonate H₂O =
- Polysulphone + =

Flow Range

- 0.5 - 5 GPM =
- 1-10 GPM =
- 1-15 GPM =
- 3-30 GPM (¾" & 1" only) =

Media Calibration

- Hydraulic Oil =
- Water =

Nominal Port Size

- 1/2" =
- 3/4" =
- 1" =



Connection Type

- Female NPT threads (brass) =
- Female BSP threads (brass) =
- Female NPT threads (polysulphone) =
- Female BSP threads (polysulphone) =
- Male NPT threads (brass) =

Weld Shield Gas Flow Switch

PART NUMBER GUIDE

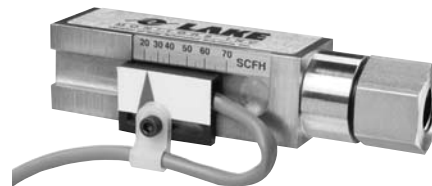
WG — —

Media

- Nitrogen =
- Argon =
- CO₂ =
- C25 =

Flow Range

- 10-35 SCFH Nitrogen =
- 7-32 SCFH Argon
- 5-30 SCFH CO₂
- 10-35 SCFH C25
- 20-70 SCFH Nitrogen =
- 15-65 SCFH Argon
- 10-60 SCFH CO₂
- 20-70 SCFH C25



Switch Type

- Form A =

Electrical Interface

- 3' Pigtail =
- 2-pin mil type cable-to-cable connector =



Electronic Flow Rate Analyzer Units — for use with Lake "R" series transmitters

Model Number	Description
R100	rate only
R/T100	rate and total



Output*

- Current = C
- Pulse = P
- Relay = R
- Voltage = V

* Switch option and temperature output available on a custom basis.

Rotor Cover

- 316 Stainless Steel* = S
- Clear Polycarbonate = C

* Not available in Economy Series.

Port Size

- 1/2" NPT = B
- 3/4" NPT* = C
- 1" NPT* = D

* Not available in Economy Series.

Max. Flow Rate: GPM

1/2" NPT:

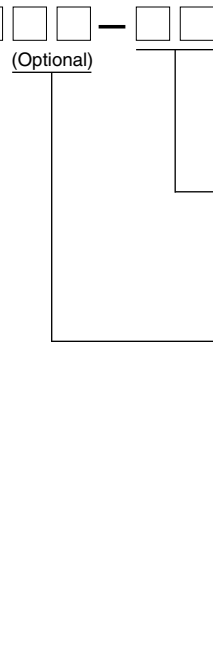
- 5 GPM up to 15 GPM maximum flow rates available =

3/4" & 1" NPT*:

- 15 GPM up to 50 GPM maximum flow rates available =

* Not available in Economy Series.

Important: Choose a maximum flow rate. For 1/2" NPT: 5-15 maximum GPM. For 3/4" and 1" NPT: 15-50 maximum GPM. Minimum flow rate will be 10% of maximum flow rate. Example: If your maximum flow rate is 8 GPM, the minimum flow rate would be .8 (8 x .1 = .8) Thus, the correct flow range would be .8-8.0 GPM.



Economy Series

(Polypropylene)

Economy Series is only available in 1/2" with clear polycarbonate cover.

Options (If no options desired, leave boxes blank.)

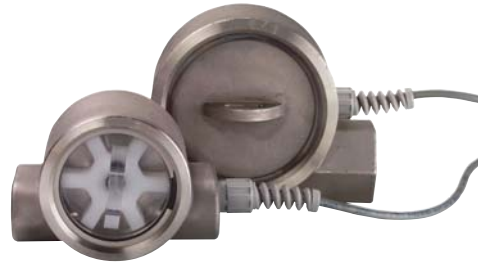
- Control Cover* = C
- Electronic Disconnect = D
- Low Flow Adapter** = L F

* Not available in Economy Series.

** The low flow adapter will accommodate full-scale flow rates from 2.5 - 4.5 GPM while maintaining the standard $\pm 2\%$ of range accuracy and 10:1 turndown. For full-scale flow rates below 2.5 GPM, consult the Lake factory.

Cover Seal

- Buna-N (Standard) = B
- EPR (Optional) = E
- Viton (Optional) = V



Port/Line Size Range

- 1/2" NPTF = 3
- 3/4" - 1" NPTF = 4

Material

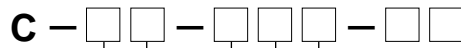
- Aluminum = A

Pressure Rating

- 1000 PSIG Maximum = 5

Fluid Media

- Oil = H
- Water and 1.0 specific gravity = W



Flow Ranges (oil & water)

Porting (All Female)	Size Code
0.05 - 1 GPM	= <input type="checkbox"/> 0 <input type="checkbox"/> 1 3 only
0.1 - 1 GPM (water)	= <input type="checkbox"/> 0 <input type="checkbox"/> 1 3 only
0.2 - 2 GPM	= <input type="checkbox"/> 0 <input type="checkbox"/> 2 3 & 4
0.5 - 5 GPM	= <input type="checkbox"/> 0 <input type="checkbox"/> 5 3 & 4
1.0 - 10 GPM	= <input type="checkbox"/> 1 <input type="checkbox"/> 0 3 & 4
1.0 - 15 GPM	= <input type="checkbox"/> 1 <input type="checkbox"/> 5 3 & 4
2.0 - 20 GPM	= <input type="checkbox"/> 2 <input type="checkbox"/> 0 4 only
2.0 - 25 GPM	= <input type="checkbox"/> 2 <input type="checkbox"/> 5 4 only
3.0 - 30 GPM	= <input type="checkbox"/> 3 <input type="checkbox"/> 0 4 only

Thread Type

Porting (All Female)	Size Code
1/2" NPTF, dry seal	= <input type="checkbox"/> B 3 only
3/4" NPTF, dry seal	= <input type="checkbox"/> C 4 only
1" NPTF, dry seal	= <input type="checkbox"/> D 4 only