Particle Contamination and Filter Manufacturers

NOTICE

Dust particle contamination may be present in some applications. Appropriate measures should be taken to minimize the effect of particulate contamination.

The sensor design directs dust particles in the air stream flow past the sense element parallel to its surface. In addition, the microstructure IC produces a thermophoretic effect, which repels micrometer-sized dust particles away from the microbridge structure.

Dust adherence to chip edges and channel surfaces can be prevented using a simple filter. A disposable five-micron filter used in series on the upstream side of the airflow devide will provide adequate filtering in most applications.

CAUTION

PRODUCT DAMAGE

AWM Microbridge Mass Airflow Sensors are **NOT** designed to sense liquid flow and will be damaged by liquid flow through the sensor.

U.S. Suppliers

Pall Corporation
2200 Northern Blvd.
East Hills, NY 11548-1289
Tel: (516) 484-5400
1-800-645-6532 (USA Only)
Fax: (516) 484-6164
Internet: www.pall.com

Pall - DFFH200

These filters exhibit little lot-to-lot variation. Pressure drop at 1000 sccm mass flow is less than 0.010″ H_2O. They are relatively expensive and larger in size.

Pall Gelman Sciences
600 South Wagner Road
Ann Arbor, MI 48103-9019
Tel: (734) 665-0651
1-800-521-1520 (USA Only)
Fax: (734) 913-66114
Internet: www.pal.com/gelman

Gelman Acrodisc - 4199

These filters exhibit roughly 25% lot-to-lot variation. Differential pressure drop is approximately 0.130″ to 0.160″ H_2O at 100 sccm and 0.600″ to 0.900″ H_2O at 500 sccm mass flow. These filters are considered medically sterile and are relatively small in size.

Gelman Acro - 50 4258

These filters are highly efficient and exhibit little lot-to-lot variation. Typical pressure drop across the filter is 0.030″ H_2O at 100 sccm mass flow. They are larger in size, medium priced and considered medically sterile.

Parker Hannifin Corp. - Filtration Group
Finite Filter Company
500 Glaspie Street
Oxford, MI 48371
Tel: (810) 628-6400
Fax: (810) 628-1850
Internet: www.parker.com

Finite Filter - IDN-14G

Finite filters exhibit minor lot-to-lot variation. Differential pressure drop is less than 0.020″ H_2O at 100 sccm mass flow and less than 0.060″ H_2O at 500 sccm mass flow. These filters are smaller in size and made of transparent plastic for ease of inspection.

International Suppliers

AUSTRALIA
Pall Gelman Sciences
P.O. Box 4100
Lane Cove DC, Sydney
NSW 2066
Tel: (61-29) 428-2333
Fax: (61-29) 428-5610

FRANCE
Pall Gelman Sciences
Cite Descartes - 10 allee
Lorentz
77420 Champs sur Marne
Tel: (33-1) 6461-5252
Fax: (33-1) 6461-5262

GERMANY
Pall Gelman Sciences
Arheilger Weg 6
D-64380 Roβdorf
Tel: (49-6) 154-60220
Fax: (49-6) 154-602260

JAPAN
Pall Gelman Sciences
1-9-12 Kita-Ueno
Taito-ku, Tokyo 110
Tel: (81-3) 3844-5411
Fax: (81-3) 3844-5433

UNITED KINGDOM
Gelman Sciences, Ltd.
Brackmills Business Park
Caswell Road
Northampton NN4 7EZ
Tel: (441-604) 70-4704
Fax: (441-604) 70-4724

BRAZIL
Parker Hannifin Industria
e Comercio Ltda.
Irlemp Filter Division
Via Anhanguera, KM, 25,5 - Trevo Perus
05276-000 Sao Paulo, SP, Brazil
Tel: (55) (11) 847-1222
Fax: (55) (11) 847-1610

FINLAND
Parker Hannifin Corporation
Finn Filter Division
Fin-31700
Urjala AS., Finland
Tel: (358) 37-54100
Fax: (358) 37-5410 100

UNITED KINGDOM
Parker Hannifin Corporation
Filter Division Morley
Peel Street
Morley, Leeds
LS27 8EL England
Tel: (44) 113 253-7921
Fax: (44) 113 252-7815