Stainless Steel Air Filters

Market Application Publication

Background

Harsh environments can lead to problems with the reliability, integrity, and maintenance of process components. Facility equipment and components can be subjected to accelerated corrosion leading to short service life and frequent maintenance. This results in high maintenance costs, replacement costs, and unpredictable production downtime. To minimize these high costs, the equipment and components are typically constructed of stainless steel which will hold up against chemical and vapor attack.

Contact Information

Parker Hannifin Corporation
Industrial Gas Filtration and Generation Division
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Lancaster, NY 14086
phone **800 343 4048**

parker.com/igfg

Features and Benefits

- Removes all viable organisims
- Removes all moisture and particulate contamination
- Has full compliance with FDA requirements
- Able to meet the flows of a variety of applications
- In full compliance with USDA requirements
- Stainless steel housing

Parker Balston

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Application

Chemical plants, refineries, pulp and paper mills, food processing plants and other industries all have production areas located in aggressive ambient environments. These areas typically house pneumatically operated production equipment that require clean, dry compressed air. Until recently, most facilities have used compressed air filter assemblies constructed of anodized aluminum or other light metal to filter the compressed air.

These materials are very susceptible to corrosion resulting in difficult maintenance and premature failure. The **Parker Balston 6000 Series** are constructed of 304 stainless steel designed to hold up to the harshest environments for many years of trouble free service.

Principal Specifications

Description	6002	6004	6006	6008
Port Size	1/4" NPT	1/2" NPT	3/4"	1" NPT
Maximum Temperature (1)	120°F (49°C)			
Maximum Pressure (2, 3)	15 / 175 psig			
Shipping Weight	3.5 lbs	4.0lbs	ll lbs.	12 lbs
Dimensions	3"W X 7"L (7mm X 18mm)	3"W X 10"L (7mm X 25mm)	4"W X 10"L (10mm X 25mm)	4"W X 12"L (10mm X 30mm)
Materials				
Head	304 Stainless Steel			
Bowls	304 Stainless Steel			
Internals	Stainless Steel			

Notes

1. Max. temperature with auto drain.
   Max. temperature with manual drain is 275°F.
2. Max. pressure with auto drain.
   Max. pressure with manual drain is 250 psi.
3. Required for proper operation of auto drain.

Ordering Information

For assistance, call 1-800-343-4048

Model P/N	6002	6004	6006	6008
Replacement Filter Cartridges	1/4" NPT	1/2" NPT	3/4" NPT	1" NPT
Number Required	1	1	1	1
Box of 2	2/100-12-(?X)[SA]	2/100-18-(?X)[SA]	2/200-176-(?X)[SA]	2/200-185-(?X)[SA]
Box of 5	5/100-12-(?X)	5/100-18-(?X)	5/200-176-(?X)	5/200-185-(?X)
Box of 10	100-12-(?X)[SA]	100-18-(?X)[SA]	200-176-(?X)[SA]	200-185-(?X)[SA]
Cl Cartridges (box of 1)	CI100-12-000	CI100-18-000	CI200-176-000	CI200-185-000

Case Study

A large national food processor had been using anodized aluminum filter assemblies in compressed air lines supplying critical production equipment. This area required nightly wash downs with aggressive chemicals necessary to sterilize the production area. Under these conditions the anodized aluminum filter assemblies would last approximately one year before requiring replacement. Chemical attack and corrosion rendered them unsafe for use. Recently, this food processor replaced the aluminum filter assemblies with the **Parker Balston 6000 Series** stainless steel filters.

The 304 stainless construction is ideal for holding up against these aggressive wash down chemicals and as a result have shown no sign of corrosion or chemical attack. This food processor uses all the Parker Balston grades of filtration throughout its facility, from standard pneumatic quality air for processing equipment, to sterile air for food packaging. They continue to add more Parker Balston filters for all their new production areas.