

# 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: Features and benefits:

**Parker Hannifin Corporation**  
**Filtration and Separation Division**  
242 Neck Road  
Haverhill, MA 01835

phone 800 343 4048 or 978 858 0505  
fax 978 556 7501

[www.balstonfilters.com](http://www.balstonfilters.com)

- Removes all viable organisms
- 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



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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.

## 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.

## Principal Specifications

Model	6002	6004	6006	6008
Port Size	1/4" NPT	1/2" NPT	3/4" NPT	1" NPT
Materials of Construction				
Head	304 Stainless Steel	→	→	→
Bowl	304 Stainless Steel	→	→	→
Internals	Nylon	Nylon	Stainless Steel	Stainless Steel
Seals	Buna-N Food Grade	→	→	→
Maximum Temperature (1)	120°F (49°C)	→	→	→
Min/Max Pressure (2, 3)	15 psig /175 psig	→	→	→
Shipping Weight	3.5 lbs.	4.0 lbs.	11 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)

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, 8AM to 5PM EST

Replacement Filter Cartridge Ordering Information				
Model P/N	6002	6004	6006	6008
Replacement Filter Cartridges				
Number required	1	1	1	1
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)	100-18-(?X)	200-176-(?X)	200-185-(?X)
Box of 10	100-12-SA	100-18-SA	200-176-SA	200-185-SA
CI Cartridges (box of 1)	CI100-12-000	CI100-18-000	CI200-176-000	CI200-185-000

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