

clearcurrent® PRO HX vCell



High Performance Filtration

The Parker Hannifin clearcurrent filter business offers extremely high levels of turbine protection in a wide range of environments with its selection of inlet filters. Our 40 years of expertise in gas turbine air intake design has influenced the development of this water-resistant filter. Its high dust-holding capacity helps prolong filter life and significantly lowers operating costs. The filter is designed for low pressure loss to enable improved power output. Available in industry standard sizes, the PRO HX is suitable for all GT OEM filter houses.

Key Benefits

- Media provides hydrophobic performance for superior protection in wet environments
- Low pressure loss helps increase power output and/or improve fuel efficiency
- Easy to install and change out to reduce downtime
- Easily disposable by incineration

PRO – Predictable, Reliable Output

The clearcurrent PRO filter delivers predictable performance while maintaining steady pressure loss. Our vCell reduces both dry and wet contaminants from reaching the turbine blades. The clearcurrent vCell filter is designed to provide maximum protection to gas turbines against moisture, and is both mist and fog resistant, as well as particulate contaminants. The PRO HX vCell provides balanced maintenance costs all while improving your MW output. This unique high efficiency final filter is made with PRO technology. The clearcurrent PRO HX vCell delivers exceptional gas turbine performance across the filter's service life.

Performance Data

ASHRAE 52.2: 2012 Rating	MERV 15
EN779: 2012 Rating	F9
Rated Airflow	4250 m³/h, (2500 CFM)
ASHRAE dust-holding capacity (450 Pa) 3400 m³/h	930 g (2.1 lb)
ASHRAE dust-holding capacity (450 Pa) 4250 m³/h	635 g (1.4 lb)
Operating Temperature Range	-40°C to 70°C (-40°F to 158°F)

Filter Facts

Construction	Robust, impact resistance plastic, ABS (Acrylonitrile butadiene styrene)
Gasket	Single piece, polyurethane
Dimensions	595 mm H x 595 mm W x 435 mm D (23.4" H x 23.4" W x 17.1" D)
Clean Weight	13.7 kg (30 lb)
Application	Multi stage static or hybrid filtration, available also in reverse flow configuration

For more information, contact your **Parker Hannifin Gas Turbine Filtration** representative:

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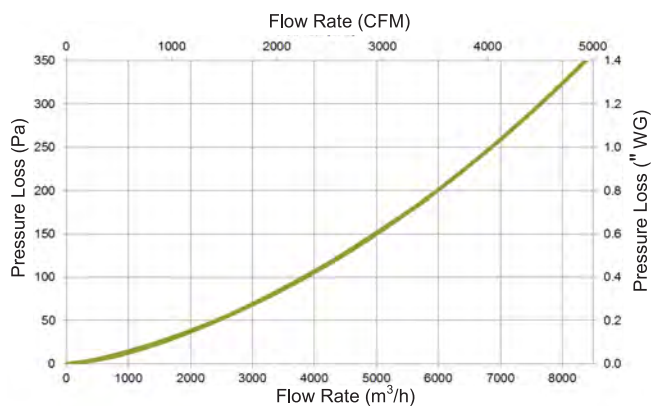
Email: altairclearcurrent@parker.com

www.parker.com/gtf

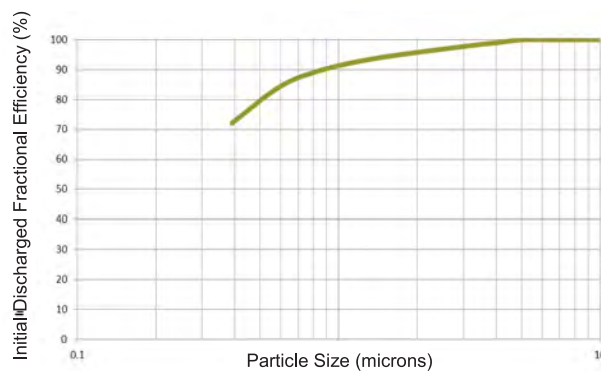


clearcurrent® PRO HX vCell

Pressure Loss



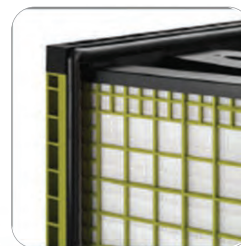
Initial Fractional Efficiency



Key Features



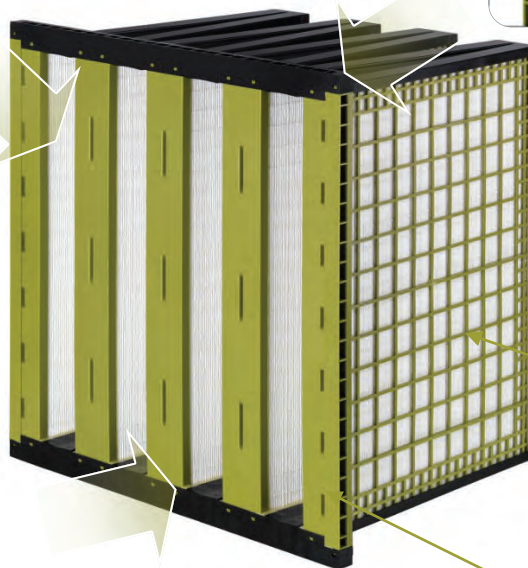
Best in class hydrophobic properties.



Continuous gasket with gasket stop



Fully potted and sealed media packs



Protective grids, ensures wet burst pressure of greater than 25\" WG

Robust ABS Frame

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High Performance Filtration

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Key Benefits

- Media provides hydrophobic performance for superior protection in wet environments
- Low pressure loss helps increase power output and/or improve fuel efficiency
- Easy to install and change out to minimize downtime
- Easily disposable by incineration

PRO – Predictable, Reliable Output

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Performance Data

ASHRAE 52.2: Rating	MERV 15
EN779: 2012 Rating	F9
Rated Airflow	4250 m³/h, (2500 CFM)
ASHRAE dust-holding capacity (450 Pa) 3400m³/h	514 g (1.13 lb)
ASHRAE dust-holding capacity (450 Pa) 4250 m³/h	295 g (0.65 lb)
Operating Temperature Range	-40°C to 70°C (-40°F to 158°F)

Filter Facts

Construction	Robust, impact resistance plastic, AB (Acrylonitrile butadiene styrene)
Gasket	Single piece, polyurethane
Dimensions	595 mm H x 595 mm W x 293 mm D (23.4" H x 23.4" W x 11.5" D)
Clean Weight	10.5 kg (23.1 lb)
Application	Multi stage static or hybrid filtration, available also in reverse flow configuration

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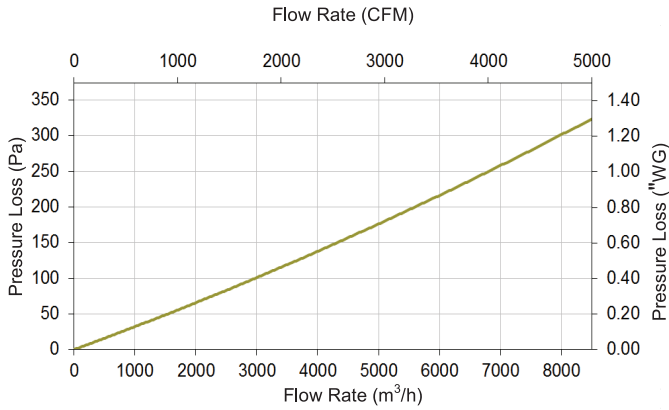
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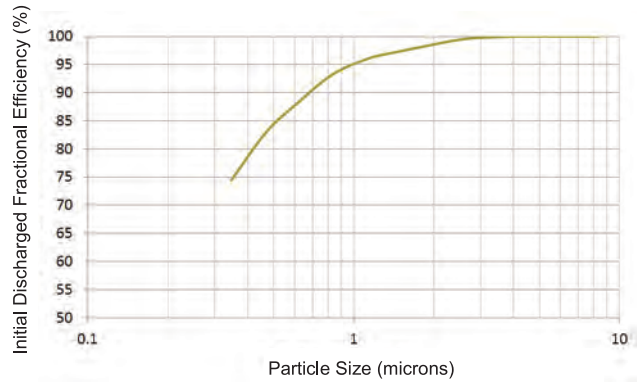


clearcurrent® PRO SX vCell

Pressure Loss



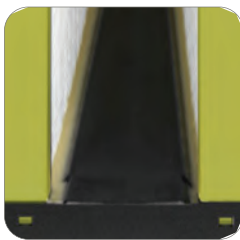
Initial Fractional Efficiency



Key Features



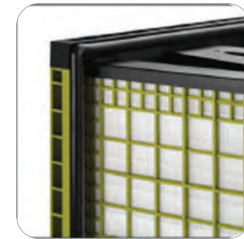
Best in class hydrophobic properties.



Fully potted and sealed



Continuous gasket with gasket stop



Protective grids, ensures wet burst pressure of greater than 25 " WG

Robust ABS Frame

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clearcurrent® PRO-HEPA HV+ vCell



Key Benefits

- EPA grade filtration efficiency media provides water-resistant performance for superior protection in wet environments
- Low pressure loss helps increase power output and/or improve fuel efficiency
- Easy to install and change out to reduce downtime
- Easily disposable by incineration

HEPA Grade Filtration Efficiency

Maintaining gas turbine inlet combustion air quality is essential to minimize gas turbine compressor blade fouling. The PRO-HEPA HV+ vCell filter delivers very high small particulate removal efficiency and is classified as a High Efficiency Particulate Arrestance (HEPA) filter, with >85% removal of all particulate at the Most Penetrating Particle Size (MPPS). This high efficiency promotes improved gas turbine performance and reduced operating and maintenance costs. HEPA-rated filtration increases capture of small particulates and contaminants in order to minimize fouling and gas turbine performance degradation.

PRO – Predictable, Reliable Output

The clearcurrent PRO-HEPA HV+ filter delivers predictable performance while maintaining steady dP. Our vCell reduces both dry and wet contaminants from reaching the turbine blades. Because the vCell isn't constructed with extremely thin membranes, we're able to eliminate the risk of unpredictable pressure drops often associated with membrane technology, all while providing balanced maintenance costs and improving your MW output. This unique high efficiency final filter made with PRO technology, the clearcurrent PRO-HEPA HV+ vCell delivers exceptional gas turbine performance across the filter's service life.

Performance Data

ASHRAE 52.2 rating (2500 cfm)	MERV16
EN1822 rating (4250 m ³ /hr)	E10
Rated air flow	4250 m ³ /hr (2500 CFM)
ASHRAE dust-holding capacity (450 Pa) @ 3400 m ³ /hr	919 g/2 lb
ASHRAE dust-holding capacity (450 Pa) @ 4250 m ³ /hr	459 g/1 lb
Operating temperature range	-32°C to 70°C (-25°F to 158°F)

Filter Facts

Construction	Robust, impact resistance plastic, ABS (Acrylonitrile butadiene styrene)
Gasket	Single piece, polyurethane
Dimensions	595 mm H x 595 mm W x 435 mm D (23.4"H x 23.4" W x 17.1" D)
Clean Weight	13 kg (29 lb)
Application	Multi stage static or hybrid filtration, available also in reverse flow configuration
Media	100% synthetic microglass

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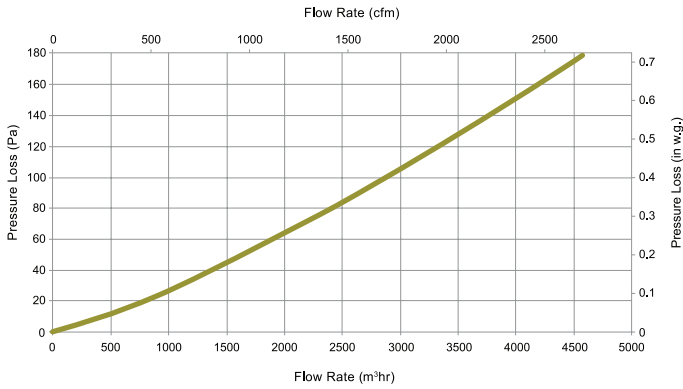
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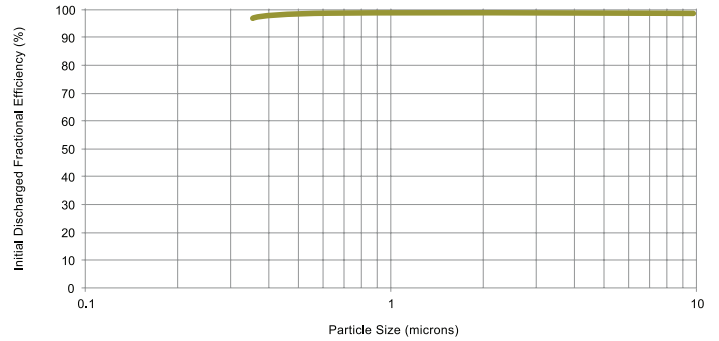


clearcurrent® PRO-HEPA HV+ vCell

Pressure Drop

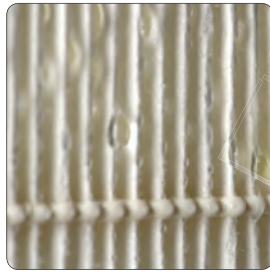


Initial Fractional Efficiency

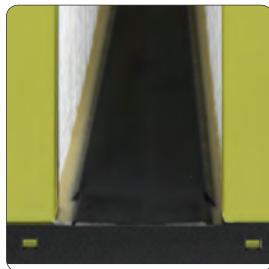
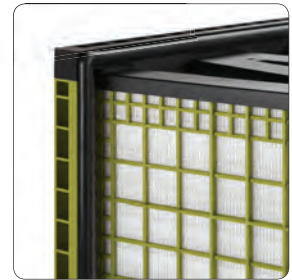


Key Features

Media with PRO technology



Continuous gasket with gasket stop



Fully potted and sealed media packs



Robust ABS frame

Protective grids, ensures wet burst pressure of greater than 25" WG

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clearcurrent[®] SX vCell Filter



High Performance Filtration

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Key Benefits

- Low pressure loss helps increase power output and/or improve fuel efficiency
- High dust-holding capacity helps extend filter life and reduce costs
- Easy to install and change out to reduce downtime
- Easily disposable by incineration

Construction

The clearcurrent SX vCell filter is made using fully potted pleated panels to provide a complete seal and is mounted within an ABS plastic frame. Protective grids incorporated on the downstream surface deliver robust performance, even in high under-pressure conditions, which can be experienced in gas turbine applications. A specially designed gasket seals the rear contact surface of the filter frame against the holding frame of the filter house. This helps eliminate the possibility of air or water bypassing the filters when in service.

Performance Data

ASHRAE 52.2: Rating	MERV 15
EN 779: 2012 Rating	F9
Rated Airflow	4250m ³ /h (2500CFM)
ASHRAE Dust holding capacity (450 Pa) @ 3,400m ³ /h	514 g (1.13 lb)
ASHRAE Dust holding capacity (450 Pa) @ 4,250m ³ /h	295 g (0.65 lb)
Operating Temperature Range	-40°C to +70°C (-40°F to 158°F)

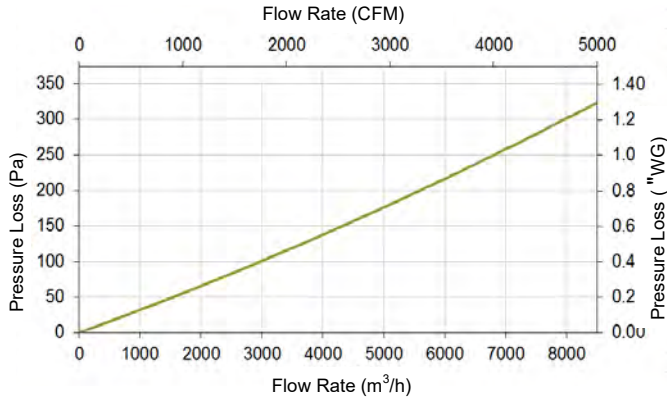
Filter Facts

Construction	Robust, impact resistant plastic, ABS (Acrylonitrile Butadiene Styrene)
Gasket	Foam in place polyurethane, continuous, single piece
Dimensions	595mm H x 595mm W x 293mm D (23.4in H x 23.4in W x 11.5in D)
Clean Weight	10.5Kg (23.1 lbs)
Application	Multistage static or hybrid filtration, available also in reverse flow configuration

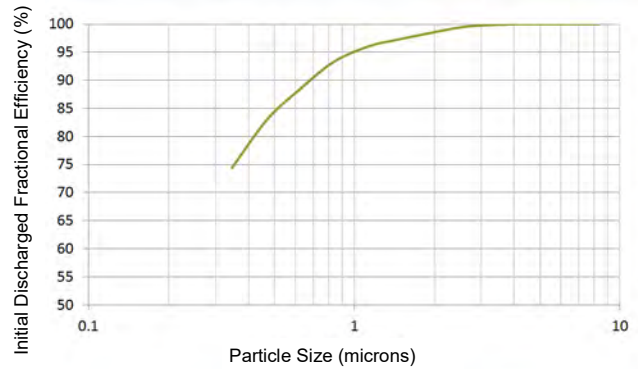


clearcurrent[®] SX vCell Filter

Pressure Loss



Initial Fractional Efficiency



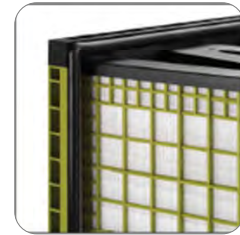
Key Features



Hot Melt system guarantees equal spacing between each filter pleat and maintains geometry throughout filter service life



Continuous gasket with gasket stop



Protective grids, ensures wet burst pressure of greater than 25 \" WG

Robust ABS Frame

clearcurrent® PHV vCell



Key Benefits

- EPA grade filtration efficiency media provides water-resistant performance for superior protection in wet environments
- Low pressure loss helps increase power output and/or improve fuel efficiency
- Easy to install and change out to reduce downtime
- Easily disposable by incineration

HEPA Grade Filtration Efficiency

Maintaining gas turbine inlet combustion air quality is essential to minimizing gas turbine compressor blade fouling. The PHV vCell filter delivers very high small particulate removal efficiency and is classified as a High Efficiency Particulate Arrestance (HEPA) filter, with >85% removal of all particulate at the Most Penetrating Particle Size (MPPS). This high efficiency promotes improved gas turbine performance and reduced operating and maintenance costs. HEPA-rated filtration increases capture of small particulates and contaminants in order to minimize fouling and gas turbine performance degradation.

PRO – Predictable, Reliable Output

The clearcurrent PHV filter delivers predictable performance while maintaining steady dP. Our vCell reduces both dry and wet contaminants from reaching the turbine blades. Because the vCell isn't constructed with extremely thin membranes, we're able to eliminate the risk of unpredictable pressure drops often associated with membrane technology, all while providing balanced maintenance costs and improving your MW output. This unique high efficiency final filter made with PRO technology, the clearcurrent PHV vCell delivers exceptional gas turbine performance across the filter's service life.

Performance Data

ASHRAE 52.2: 2012 Rating	MERV 16
EN1822: 2009 Rating	E10
Rated Airflow	4250 m³/h (2500 CFM)
ASHRAE dust-holding capacity (450 Pa) @ 3400 m³/h	276 g (0.61 lb)
ASHRAE dust-holding capacity (450 Pa) @ 4250 m³/h	104 g (0.23 lb)
Operating temperature range	-40°C to 70°C (-40°F to 158°F)

Filter Facts

Construction	Robust, impact resistance plastic, ABS (Acrylonitrile butadiene styrene)
Gasket	Foam in place polyurethane, continuous, single piece
Dimensions	595 mm H x 595 mm W x 293 mm D (23.4"H x 23.4" W x 11.5" D)
Clean Weight	10.5 kg (23.1 lb)
Application	Multi stage static or hybrid filtration, available also in reverse flow configuration
Media	100% synthetic microglass

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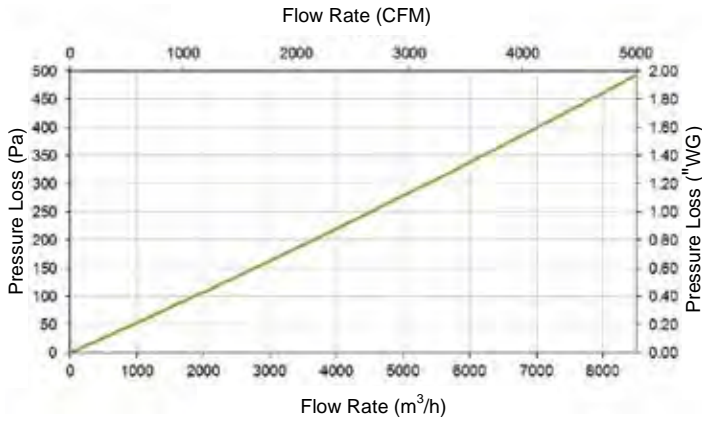
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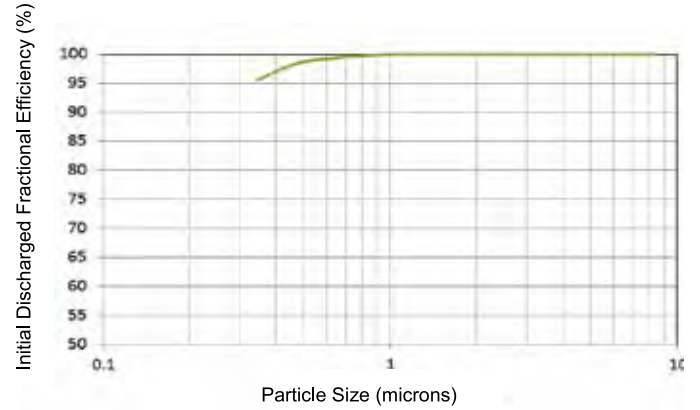


clearcurrent® PRO-HEPA SV+ vCell

Pressure Drop



Initial Fractional Efficiency



Key Features

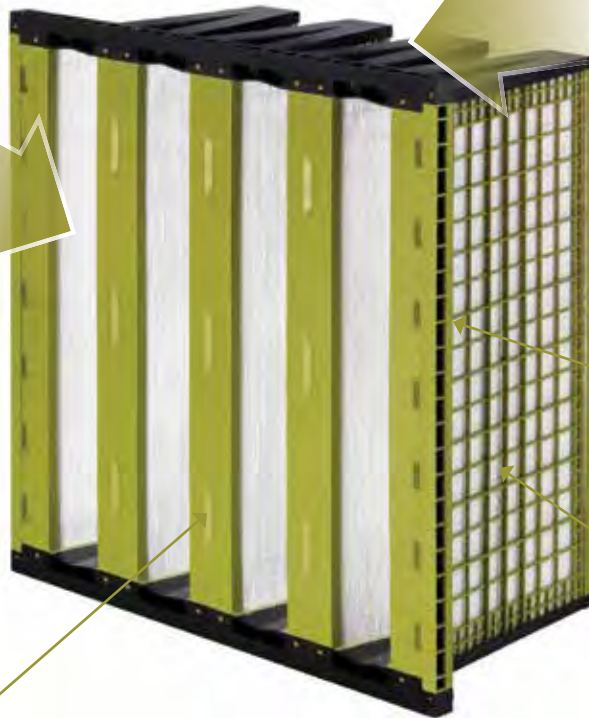
Media with PRO technology



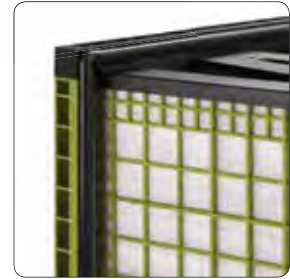
Best in class hydrophobic properties



Fully potted and sealed media packs



A continuous, seamless gasket helps eliminate the possibility of air or water bypassing the filters.



Robust ABS frame

Protective grids, ensures wet burst pressure of greater than 25\"WG

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