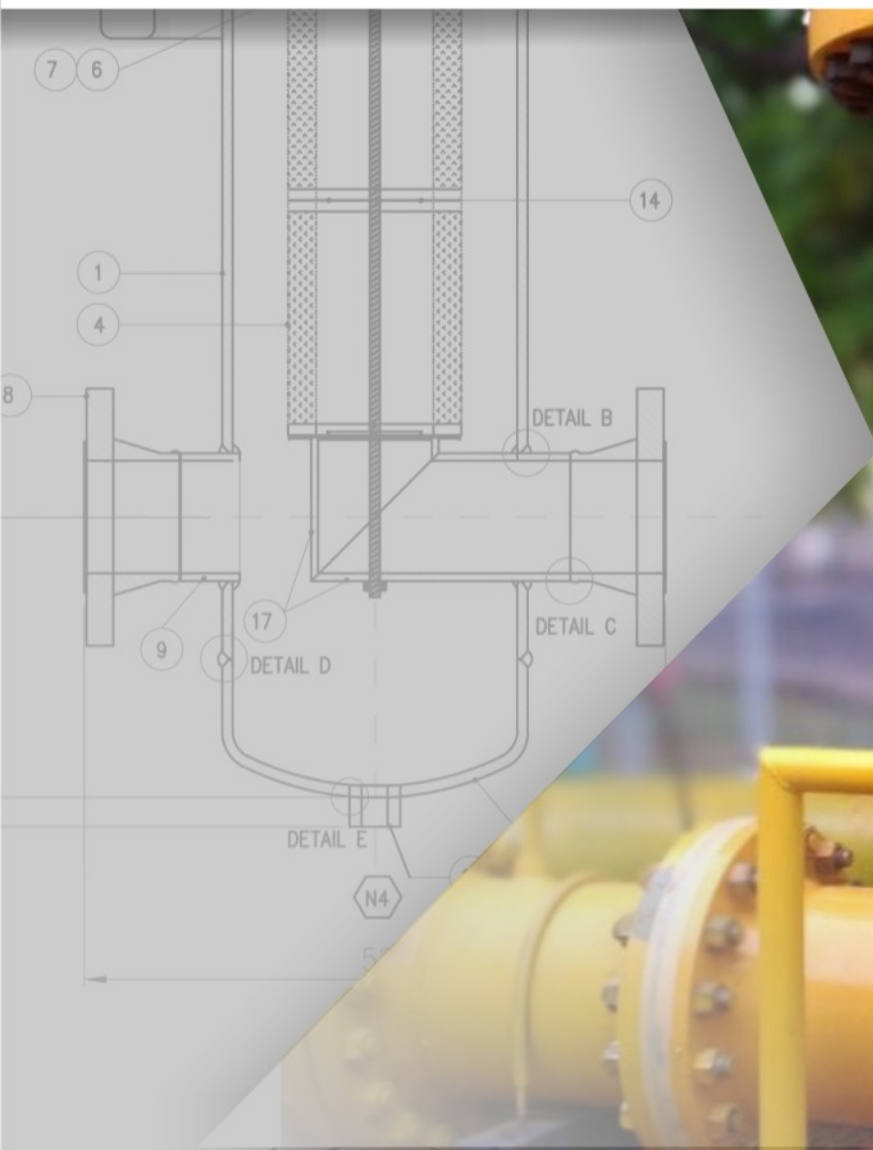


# CATRIDGE TYPE SEPARATOR FILTERS



**NATURAL GAS FILTER TECHNOLOGY**

**ALGAS®**

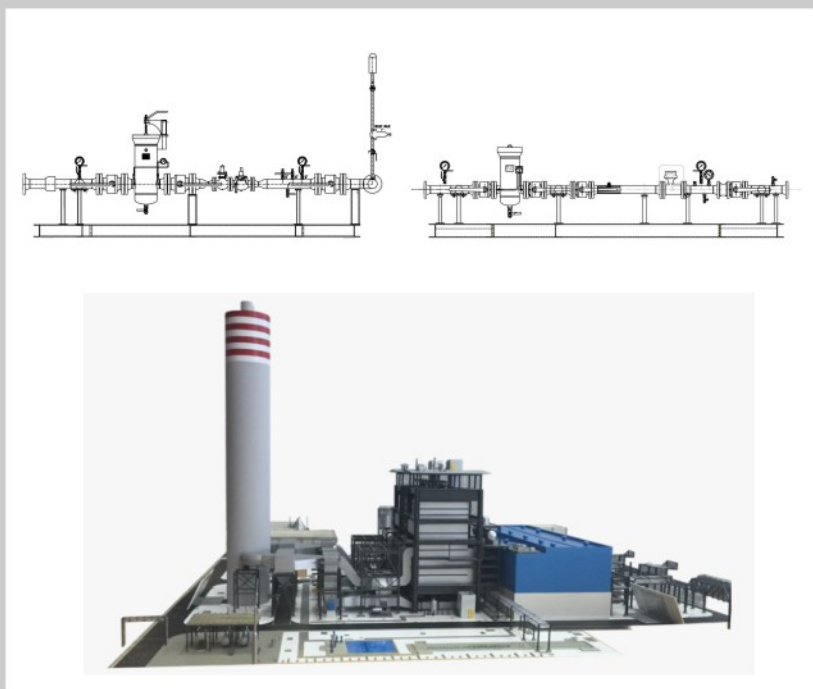
## TYPICAL APPLICATIONS

- **Compressor Protection**
- **Gas Turbine Protection** – Avoid corrosion, erosion, impact and solid adherence at the internal parts of the equipment.
- **Gas Treatment for Instrumentation**
- **Pressure Reduction Stations (ERPM)** – Protects the measuring and control station and equipment, besides guarantee gas quality to the user.
- **Drying Columns and Molecular Sieves** – Protects the desiccants and screen bed of the contaminants generated at the compressors.
- **Efficient for removal of black powder (oxides and sulfides) from piping.**

## APPLICATIONS



- > CITY GATE
- > ERPM
- > VNG
- > THERMOELECTRIC PLANT



## MAIN ADVANTAGES OF THE ALGAS FILTERS

- Quick closing/opening system for easy access inside the filter.
- Designed and manufactured exclusively for use with natural gas.
- Equipment manufacture at Algas, with ISO 9001 certificate.
- Standard dimensions, facilitating the substitution of already installed filters.
- Filter elements in stock.
- Metallic filter media with 304 stainless steel, cellulose or other under request.
- Stainless steel filter elements may be supplied optionally, for washing or use with larger pressure loss.
- Algas has an experience of 10 years in the manufacture and installation of equipment for use in natural gas industry.
- Technical service, with a staff of expert engineers and technicians.
- Training Center available for qualification and training of our product users.





## DESCRIPTION

The separator filters are designed for filtering solids present in the gas flow, using pleated cellulose cartridges, designed and constructed to offer maximum filter area and large capacity to retain and accumulate the filtered solids.

With compact standard construction and using quick opening system, it allows fast and easy change of the filter element.

Operating with great efficiency and low pressure loss, it allows excellent protection to the regulators and pressure meters, minimizing the maintenance and extending equipment life.

## FILTER ELEMENT

The separator filters use standard filter element, cellulose pleated, with structure in 304 stainless steel, corrosion resistant material and guaranteeing excellent mechanical strength to the cartridge.

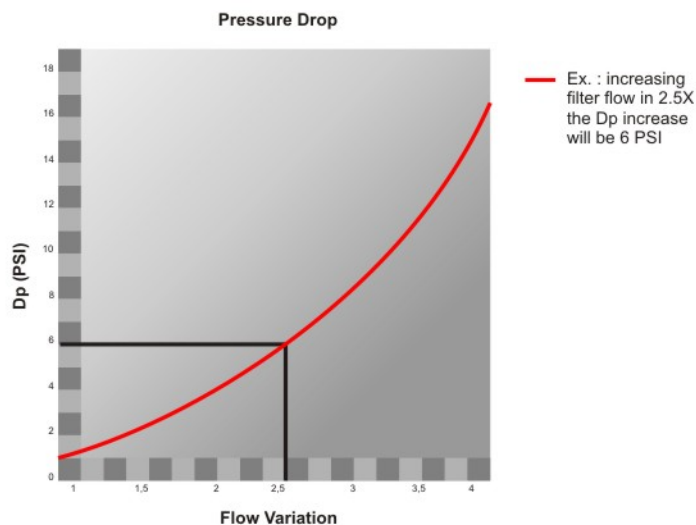
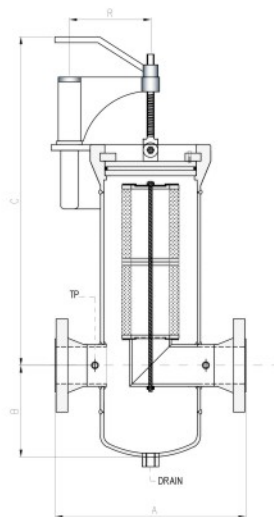
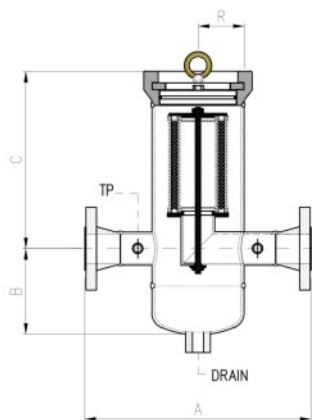
Optionally, the cartridges may be constructed with stainless steel mesh and can be recovered and reused after cleaning, besides allowing operation with greater pressure loss and consequent maintenance cycle reduction.

The filter elements have a nominal filter degree of 5, 10 and 20 micra, optionally may be supplied with another opening or absolute retention.



## CONSTRUCTION CHARACTERISTICS

- Designed and constructed according to ASME VIII DIV I or ASME B 31.8 as per customer request.
- Construction materials according to ASTM
- Pressure class 150, 300 and 600 lbs (others under request)
- Flanged connections ANSI B16.5 – 1" to 12" (others under request)
- Quick closing and opening (QOC)
- Compact construction and simple operation
- Does not need special tools for maintenance
- Filtering from outside to inside the element, this makes easier the cleaning of the filter housing and the element
- Cartridges with standard dimensions and immediate shipment
- 100% hydrostatic tested
- Nozzle direction STD 180° "in line" (others under request)
- Painted and identified according to Algas standard



#### FILTER - MODEL

150# - 1" to 3"

300# - 1" to 3"

600# - 1" to 3"

#### FILTER MODEL

150# - 8" and Over

300# - 8" and Over

600# - 3" and Over

#### DIMENSIONS (mm)

	150#					300#					600#					CONNECTION		ELEMENT AREA
DN	A	B	C	D	R	A	B	C	D	R	A	B	C	-	R	DRAIN	TP	cm <sup>2</sup>
1	195	80	340	-	86	300	80	340	-	86	300	80	340	-	86	1/2	1/4	1100
2	420	180	321	-	125	410	155	321	-	125	490	174	372	-	125	1/2	1/4	2360
3	358	178	476	-	150	460	200	477	-	150	540	200	472	-	150	1/2	1/4	4860
4	520	236	789	-	156	520	236	789	-	156	630	330	850	800	156	1/2	1/4	21.900
6	584	280	1000	800	230	800	360	1234	800	230	760	360	1800	800	230	1	1/4	52.600
8	820	540	1800	800	280	832	421	1319	800	280	950	540	2100	1000	280	1	1/4	108.000
10	960	640	2000	1000	380	1000	640	2100	1000	380	1060	640	2400	1200	380	1	1/4	121.400
12	1100	760	2200	1200	420	960	520	1746	1200	420	1200	760	2600		420	1	1/4	461.000

APPROXIMATE DIMENSIONS - FOR EXECUTIVE PROJECT PLEASE REQUEST CERTIFICATE DRAWINGS

## NOTES

1. Drain and monometer connections are threaded NPT 300#, weld connection, optionally may be flanged.
2. Flanges for class 150#, 300#, 600# and 900# will be WNRF.
3. Longitudinal and circumferential weld seams are PL inspected for all class, for other classes will be inspected with X-Rays and/or US.
4. Additional test may be conducted optionally.
5. Algas filters are supplied packed in cardboard box or wood crate.
6. Optionally they may be supplied with differential pressure manometers, differential pressure indicator, pressure transmitters, level transmitters, level gauge and automatic purge drains.



#### HEAD OFFICE

Jl. Dukuh III No. 8, Kramat Jati  
Jakarta Timur 13550  
Indonesia

#### WORKSHOP

Jl. Pergudangan Permata Gedangan No. AB 2  
Sidoarjo, Jawa Timur  
Indonesia

Telp : +6221 840 2376, +6221 841 6593 Fax. : +6221 840 2214  
Email : [algas@cbn.net.id](mailto:algas@cbn.net.id) Website : [www.algas.co.id](http://www.algas.co.id)

Telp : +6231 854 3487