

## Classic Filters

### DIA (M,N,K) Small Disposable In-Line Adsorbers

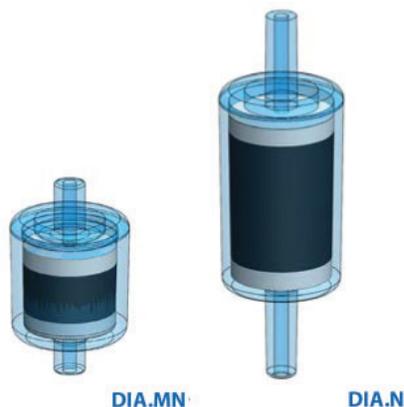
1/4" or 6 mm Spigots, Pressure to 115 PSI (8 Bar)

#### DESCRIPTION

Disposable In-Line Adsorbers (DIA) consist of polyamide or PVDF bodies filled with granular adsorption material with integral inlet and outlet filter pads. A selection of body sizes are available giving a range of volumes.

Flow rates are the same as for grade 5 elements in the same size bodies. However, with adsorption more important considerations will be the volume of adsorbent and the contact time.

A range of adsorber materials are available, these are listed below.



SPECIFICATIONS TABLE 1						
Housing Model	DIA.MN	DIA.MK	DIA.N	DIA.N_6mm	DIA.K	DIA.K_6mm
Port Spigot Size	Ø 1/4"	Ø 1/4"	Ø 1/4"	Ø 6mm	Ø 1/4"	Ø 6mm
Max. Pressure, PSI (bar)	115 (8)	65 (4)	115 (8)		65 (4)	
Max. Temperature, °F (°C)	At 0 Pressure 230 (110)					
	At Maximum Pressure 122 (50)					
Materials of Construction	Body PA (Polyamide) PVDF (Polyvinylidene Difluoride) PA (Polyamide) PVDF (Polyvinylidene Difluoride)					
Adsorber	See Table Below					
Principal Dimensions in Inches (mm)	Diameter 1.0 (25)					
	Body Length 1.09 (27.5)		1.70 (43.5)			
	Spigot Length 0.29 (7.5)		0.79 (20)			
	Volume, cc 6		11			

#### ADSORBER MATERIALS

Coalescing filter elements will only remove liquid aerosols and droplets. If there is a liquid in vapour form to be removed then an adsorber cartridge should be used as a final stage. Adsorption cartridges can also be used to remove elements of a gas, for example acidic gases. A range of adsorber materials are available and these are listed below.

#### ORDERING INFORMATION

- 1) Select Housing Model (Table 1)
- 2) Select Adsorber Grade Number (Table 2)

Part number example for 1/4" spigot size: DIA.M.05

Part number example for 6 mm spigot size: DIA.N.6mm.05

## ADSORBER GRADES TABLE 2

Grade	Adsorber	Principle Uses
01	Activated Carbon Granules	Removal of hydrocarbons and other organic vapours
02	Activated Carbon Cloth	Removal of hydrocarbons and other organic vapours
03	Molecular Sieve 4A	Removal of CO <sub>2</sub> , NH <sub>3</sub> , H <sub>2</sub> S, SO <sub>x</sub>
04	Molecular Sieve 13X	Removal of CO <sub>2</sub> , NH <sub>3</sub> , H <sub>2</sub> S, SO <sub>x</sub> , aromatics, amines
05	Silica Gel (Blue)	Removal of water vapour
05a	Silica Gel (Orange)	Removal of water vapour
06	Mixed Bases (Soda Lime)	Removal of acidic gases, CO <sub>2</sub> , SO <sub>x</sub> , NO <sub>x</sub> , HCl
07	Potassium Permanganate	Removal of SO <sub>x</sub> and other acidic gases
08	Hopcalite	Removal of CO by catalytic conversions to CO <sub>2</sub>
11	Activated Carbon Granules	Removal of Glycol
12	Calcium Carbonate	Gas Scrubbing
14	Copper Sulphate	Removal of Ammonia
15	Ferrous Sulphate	Gas Scrubbing

See the complete catalog of Classic Filter products on our website for details regarding:

- Product selection guides, construction and specification details
- Complete range of particulate and coalescing type filter cartridges and media products
- Complete range of adsorber cartridges and media products



Take a look at our comprehensive product range to see if we have what you need to solve your filtration problems. If not, get in touch and we will make it for you, according to your particular specifications and requirements.