

## DISPOSABLE IN-LINE ADSORBERS

- Completely Disposable
- Clear Nylon Or Virgin Kynar Body
- Four Body Sizes
- Wide Range Of Adsorbents (DIA)
- No Handling Of Loose Adsorbents
- Ideal “Last Chance” Protection



Disposable In-Line Adsorbent consist of nylon or kynar bodies filled with granular adsorption material with integral inlet and outlet filter pads. Longer contact times, provide more effective adsorption. Choose the appropriate adsorbent for your application from the list below. Disposable In-Line Adsorbent consist of granular adsorbent material ultrasonically welded into a see-through nylon or kynar body. Integral filter pads eliminate adsorbent migration. Four sizes available, containing from 6cc to 120cc of adsorbent.

### Mini – Part Number: DIA-MNXX

Replace ‘xx’ with adsorbent required **CC, 4A, 13X, SG, MB, PP, HO**, e.g. DIA-MNCC

0.25" Inlet / Outlet  Drain Connection None  Maximum Pressure 125 PSIG	<b>Maximum Temperature:</b>  230° F At 0 PSIG  120° F At 100 PSIG	<b>Materials of Construction:</b>  Nylon Body  Specify Adsorbent	<b>Principle Dimensions:</b>  0.25" Spigot diameter  1.00" Body diameter  1.71" Overall length  0.43" Spigot length	<b>Volume:</b>  6cc
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### Gas Flow Rates – DIA-MNxx (Mini) - Kynar Body Not Available In This Size

DIA Model No.	Gas Flow In SCFM At Stated Line Pressure In PSIG And 1.5 PSIG Pressure Drop								
	1.5	10	20	30	40	60	80	100	125
DIA-MNxx	0.3	0.4	0.6	0.8	1.0	1.3	1.7	2.1	2.8

**Standard – Part Number: DIA-BNXX or Kynar Part Number: DIA-BKXX**

Replace 'xx' with adsorbent required **CC, 4A, 13X, SG, MB, PP, HO**, e.g. DIA-BNCC

0.25" Inlet / Outlet  Drain Connection None  Maximum Pressure 125 PSIG	<b>Maximum Temperature:</b>  230° F At 0 PSIG  120° F At 100 PSIG	<b>Materials of Construction:</b>  Nylon / Kynar Body  Specify Adsorbent	<b>Principle Dimensions:</b>  0.25" Spigot diameter  1.00" Body diameter  3.23" Overall length  0.79" Spigot length	<b>Volume:</b>  11.5 cc
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**Gas Flow Rates – DIF-BNxx, DIF-BKxx (Standard)**

DIA Model No.	Gas Flow In SCFM At Stated Line Pressure In PSIG And 1.5 PSIG Pressure Drop								
	1.5	10	20	30	40	60	80	100	125
DIA-B□xx	0.6	0.9	1.3	1.6	2.0	2.7	3.5	4.2	5.7

\*Insert material designation letter N, K.

**Intermediate – DIA-INXX**

Replace 'xx' with adsorbent required **CC, 4A, 13X, SG, MB, PP, HO**, e.g. DIA-INCC

0.25" Inlet / Outlet  Drain Connection None  Maximum Pressure 125 PSIG	<b>Maximum Temperature</b>  230° F At 0 PSIG  120° F At 100 PSIG	<b>Materials of Construction:</b>  Nylon Body  Specify Adsorbent	<b>Principle Dimensions:</b>  0.25" Spigot diameter  1.44" Body diameter  4.61" Overall length  0.77" Spigot length	<b>Volume:</b>  50 cc
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**Gas Flow Rates – DIA-INxx (Intermediate) - Kynar Body Not Available In This Size**

DIA Model No.	Gas Flow In SCFM At Stated Line Pressure In PSIG And 1.5 PSIG Pressure Drop								
	1.5	10	20	30	40	60	80	100	100
DIA-INxx	1.5	2.1	3.4	4.0	5.3	6.6	8.3	10.0	10.0

**Large – Part Number: DIA-LNXX or Kynar part Number: DIA-LKXX**

Replace 'xx' with adsorbent required **CC, 4A, 13X, SG, MB, PP, HO**, e.g. DIA-LNCC

¼" NPT Inlet / Outlet  Drain Connection None  Maximum Pressure 100 PSIG	<b>Maximum Temperature</b>  230° F At 0 PSIG  120° F At 100 PSIG	<b>Materials of Construction:</b>  Nylon / Kynar Body  Specify Adsorbent	<b>Principle Dimensions:</b>  0.50" Spigot diameter  2.28" Body diameter  5.43" Overall length  1.05" Spigot length	<b>Volume:</b>  120 cc
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**Gas Flow Rates – DIA-LNxx, DIF-LKxx (Large)**

DIA Model No.	Gas Flow In SCFM At Stated Line Pressure In PSIG And 1.5 PSIG Pressure Drop							
	1.5	10	20	30	40	60	80	100
DIA-L□XX	2.4	3.6	5.1	6.3	7.9	11.0	14.0	17.0

\*Insert material designation letter N (Nylon) or K (Kynar).

**DIA (Adsorption) Specifications**

Adsorbent	Adsorbent Code	Principle Uses
Activated Carbon	<b>CC</b>	Adsorption of hydrocarbons & other organic vapors
Molecular Sieve 4A	<b>4A</b>	Adsorption of CO <sub>2</sub> , NH <sub>3</sub> , H <sub>2</sub> S, SO <sub>x</sub> , etc.
Molecular Sieve 13X	<b>13X</b>	Adsorption of CO <sub>2</sub> , NH <sub>3</sub> , H <sub>2</sub> S, SO <sub>x</sub> , aromatics, amines, etc.
Silica Gel	<b>SG</b>	Water vapor adsorption only
Mixed Bases	<b>MB</b>	Removal of acid gases SO <sub>x</sub> , NO <sub>x</sub> , HCl, etc.
Potassium Permanganate Impregnated Alumina	<b>PP</b>	Removal of SO <sub>x</sub> in stack gases
Hopcalite	<b>HO</b>	Removal of CO by catalytic oxidation to CO <sub>2</sub>