

DISPOSABLE IN LINE FILTERS & ADSORBERS

- Completely Disposable
- Clear Nylon Or Virgin Kynar Body
- Four Sizes Available
- Five Grades Of Filtration (DIF)
- Two Or Three Port Design
- Filter Gases And Liquids



Our Disposable In-Line Filters consists of permanently welded housings with encapsulated filter elements. This makes them ideal for portable analyzers and other analysis systems requiring a robust, easily replaceable filter. A choice of body materials makes them suitable for a wide range of chemical environments.

We also supply the DIF-BN50I, which contains a red dye that bleeds through the element to provide an accurate visual indication that moisture is present. Simply order as DIF-BN50I.

DISPOSABLE IN-LINE FILTERS

Mini – Part Number: DIF-MNxx

Replace 'xx' with grade required **30, 40, 50, 60, 70, 80**, e.g. DIF-MN50

Inlet / Outlet Drain Connection Maximum Pressure	Maximum Temperature: °F At 0 PSIG °F At 100 PSIG	Materials of Construction: Body Filter Element	Principle Dimensions: Spigot diameter Body diameter Overall length Spigot length	Volume Filter Element Size
0.25" None 125 PSIG	230 120	Nylon K Type	0.25" 1.00" 1.71" 0.43"	6 cc 12-16-□



Gas Flow Rates – DIF-MN□ (12-16-□) – Mini - Kynar Body Not Available In This Size

DIF Model No.	Filtration Efficiency Removal Of 0.01 Micron Particles	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	
DIF-MN 30	99.99998+%	0.1	0.15	0.2	0.25	0.3	0.4	0.5	0.6	0.7	
DIF-MN 40	99.99998+%	0.15	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	
DIF-MN 50	99.99+%	0.3	0.4	0.6	0.8	1.0	1.3	1.7	2.1	2.8	
DIF-MN 60	99.5+%	0.4	0.7	1.0	1.3	1.6	2.1	2.7	3.4	4.1	
DIF-MN 70	95.0+%	0.5	0.8	1.1	1.4	1.8	2.4	3.0	3.7	4.7	
DIF-MN 80	75.0+%	0.9	0.9	1.3	1.6	2.0	2.7	3.5	4.3	5.0	

Liquid Flow Rates (12-16-□) – Mini

DIF MODEL NO.	FILTRATION EFFICIENCY 98% Removal Rating*	WATER FLOW RATE Gallons/Hr at 1.5 PSIG pressure drop
DIF-MN30	0.3 micron	0.6
DIF-MN40	1 micron	1.6
DIF-MN50	2 micron	3.3
DIF-MN60	8 micron	6.5
DIF-MN70	25 micron	8
DIF-MN80	75 micron	8.5



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DISPOSABLE IN LINE FILTERS & ADSORBERS

Standard – Part Number: DIF-BNxx or Kynar Part Number: DIF-BKxx
 Replace 'xx' with grade required **30, 40, 50, 60, 70, 80**, e.g. DIF-BN50



Inlet / Outlet Drain Connection Maximum Pressure	Maximum Temperature: °F At 0 PSIG °F At 100 PSIG	Materials of Construction: Body Filter Element	Principle Dimensions: Spigot diameter Body diameter Overall length Spigot length	Volume Filter Element Size
0.25" None 125 PSIG	230 120	Nylon / Kynar K Type	0.25" 1.00" 3.23" 0.79"	11.5 cc 12-32-□

Gas Flow Rates – DIF-BN□, DIF-BK□ (12-32-□) – Standard

DIF Model No.	Filtration Efficiency Removal Of 0.01 Micron Particles	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	
DIF-BN 30 or BK 30	99.99998+%	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.5	
DIF-BN 40 or BK 40	99.99998+%	0.3	0.4	0.7	0.8	1.0	1.4	1.7	2.1	2.5	
DIF-BN 50 or BK 50	99.99+%	0.6	0.9	1.3	1.6	2.0	2.7	3.5	4.2	5.7	
DIF-BN 60 or BK 60	99.5+%	0.9	1.4	2.0	2.6	3.2	4.3	5.4	6.9	8.2	
DIF-BN 70 or BK 70	95.0+%	1.1	1.6	2.3	2.9	3.6	4.9	6.0	7.5	9.4	
DIF-BN 80 or BK 80	75.0+%	1.2	1.8	2.6	3.3	4.0	5.5	7.0	8.6	10.	

*Insert material designation letter N, K.

Liquid Flow Rates (12-32-□) – Standard

DIF MODEL NO.	FILTRATION EFFICIENCY 98% Removal Rating*	WATER FLOW RATE Gallons/Hr at 1.5 PSIG pressure drop
DIF-BN30 or BK30	0.3 micron	1.3
DIF-BN40 or BK40	1 micron	3.2
DIF-BN50 or BK50	2 micron	6.6
DIF-BN60 or BK60	8 micron	13
DIF-BN70 or BK70	25 micron	16
DIF-BN80 or BK80	75 micron	17



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DISPOSABLE IN LINE FILTERS & ADSORBERS

Intermediate – Part Number: DIF-INxx

Replace 'xx' with grade required **30, 40, 50, 60, 70, 80**, e.g. DIF-IN50

Inlet / Outlet Drain Connection Maximum Pressure	Maximum Temperature °F At 0 PSIG °F At 100 PSIG	Materials of Construction: Body Filter Element	Principle Dimensions: Spigot diameter Body diameter Overall length Spigot length	Volume Filter Element Size
0.25" None 100 PSIG	230 120	Nylon K Type	0.25" 1.44" 4.61" 0.77"	50 cc 12-57-□



Intermediate Coalescer – Part Number: DIF-INxxC

Replace 'xx' with grade required **30, 40, 50, 60, 70, 80**, e.g. DIF-IN50C

Inlet / Outlet Drain Connection Maximum Pressure	Maximum Temperature °F At 0 PSIG °F At 100 PSIG	Materials of Construction: Body Filter Element	Principle Dimensions: Spigot diameter Body diameter Overall length Spigot length	Volume Filter Element Size
0.25" 0.25" 100 PSIG	230 120	Nylon C Type	0.25" 1.44" 4.61" 0.77"	50 cc 12-57-□C



Gas Flow Rates – DIF-IN□ (12-57-□) – Intermediate - Kynar Body Not Available In This Size

DIF Model No.	Filtration Efficiency Removal Of 0.01 Micron Particles	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
DIF-IN 30 or IK 30	99.99998+%	0.4	0.5	0.7	.75	0.9	1.0	1.5	2.0
DIF-IN 40 or IK 40	99.99998+%	0.7	1.0	1.7	2.0	2.7	3.3	4.1	5.0
DIF-IN 50 or IK 50	99.99+%	1.5	2.1	3.4	4.0	5.3	6.6	8.3	10.0
DIF-IN 60 or IK 60	99.5+%	3.0	4.4	7.0	8.4	11.2	14.0	17.5	21.0
DIF-IN 70 or IK 70	95.0+%	3.6	5.2	8.4	10.0	13.5	17.0	21.5	26.0
DIF-IN 80 or IK 80	75.0+%	4.0	5.8	9.3	11.0	15.0	19.0	24.0	29.0

Liquid Flow Rates (12-57-□) – Intermediate

DIF MODEL NO.	FILTRATION EFFICIENCY 98% Removal Rating*	WATER FLOW RATE Gallons/Hr at 1.5 PSIG pressure drop
DIF-IN30 or IK30	0.3 micron	2.6
DIF-IN40 or IK40	1 micron	6.4
DIF-IN50 or IK50	2 micron	13.2
DIF-IN60 or IK60	8 micron	26
DIF-IN70 or IK70	25 micron	32
DIF-IN80 or IK80	75 micron	34



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Large – Part Number: DIF-LNxx or Kynar Part Number DIF-LKxx

Replace 'xx' with grade required **30, 40, 50, 60, 70, 80**, e.g. DIF-LN50

Inlet / Outlet Drain Connection Maximum Pressure	Maximum Temperature °F At 0 PSIG °F At 100 PSIG	Materials of Construction: Body Filter Element	Principle Dimensions: Spigot diameter Body diameter Overall length Spigot length	Volume Filter Element Size
1/4" NPT None 100 PSIG	230 120	Nylon / Kynar K Type	0.50" 2.28" 5.43" 1.05"	120 cc 25-64-□



Large Coalescer – Part Number: DIF-LNxxC or Kynar Part Number: DIF-LKxxC

Replace 'xx' with grade required **30, 40, 50, 60, 70, 80**, e.g. DIF-LN50C

Inlet / Outlet Drain Connection Maximum Pressure	Maximum Temperature °F At 0 PSIG °F At 100 PSIG	Materials of Construction: Body Filter Element	Principle Dimensions: Spigot diameter Body diameter Overall length Spigot length	Volume Filter Element Size
1/4" NPT 0.30" 100 PSIG	230 120	Nylon / Kynar C Type	0.50" 2.28" 5.43" 1.05"	120 cc 25-64-□C



Gas Flow Rates – DIF-LN□, DIF-LK□ (25-64-□) – Large

DIF Model No.	Filtration Efficiency Removal Of 0.01 Micron Particles	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
DIF-LN 30 or LK 30	99.99998+%	0.7	1.0	1.5	2.0	2.5	3.2	4.1	5.1
DIF-LN 40 or LK 40	99.99998+%	1.2	1.8	2.6	3.2	4.0	5.5	7.2	8.0
DIF-LN 50 or LK 50	99.99+%	2.4	3.6	5.1	6.3	7.9	11.0	14.0	17.0
DIF-LN 60 or LK 60	99.5+%	3.8	5.9	8.3	10.0	13.0	17.0	22.0	26.0
DIF-LN 70 or LK 70	95.0+%	4.3	6.4	9.3	12.0	14.0	19.0	24.0	30.0
DIF-LN 80 or LK 80	75.0+%	4.7	6.9	10.0	13.0	16.0	22.0	27.0	34.0

Liquid Flow Rates (25-64-□) – Large

DIF MODEL NO.	FILTRATION EFFICIENCY 98% Removal Rating*	WATER FLOW RATE Gallons/Hr at 1.5 PSIG pressure drop
DIF-LN30 or LK30	0.3 micron	13
DIF-LN40 or LK40	1 micron	26
DIF-LN50 or LK50	2 micron	62
DIF-LN60 or LK60	8 micron	84
DIF-LN70 or LK70	25 micron	95
DIF-LN80 or LK80	75 micron	118



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- 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

Our Disposable In-Line Adsorbents consist of nylon or kynar bodies filled with granular adsorption material with integral inlet and outlet filter pads. For best results, the longer the contact time, the more effective the adsorbents will be. Choose the appropriate adsorbent for your application from the list below. Our Disposable In-Line Adsorbents consist of granular adsorbent material ultrasonically welded into a see-through nylon or kynar body. Integral filter pads eliminate adsorbent migration. Four sizes are available, containing from 6cc up to 120cc of adsorbent.

DISPOSABLE IN-LINE ADSORBERS

Mini – Part Number: DIA-MNxx

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

Inlet / Outlet Drain Connection Maximum Pressure	Maximum Temperature: °F At 0 PSIG °F At 100 PSIG	Materials of Construction: Body Adsorbent	Principle Dimensions: Spigot diameter Body diameter Overall length Spigot length	Volume
0.25" None 125 PSIG	230 120	Nylon Specify Adsorbent	0.25" 1.00" 1.71" 0.43"	6 cc



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

Inlet / Outlet Drain Connection Maximum Pressure	Maximum Temperature: °F At 0 PSIG °F At 100 PSIG	Materials of Construction: Body Adsorbent	Principle Dimensions: Spigot diameter Body diameter Overall length Spigot length	Volume
0.25" None 125 PSIG	230 120	Nylon / Kynar Specify Adsorbent	0.25" 1.00" 3.23" 0.79"	11.5 cc



Gas Flow Rates – DIA-BNxx, DIA-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.



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Intermediate – DIA-INxx

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

Inlet / Outlet Drain Connection Maximum Pressure	Maximum Temperature °F At 0 PSIG °F At 100 PSIG	Materials of Construction: Body Adsorbent	Principle Dimensions: Spigot diameter Body diameter Overall length Spigot length	Volume
0.25" None 100 PSIG	230 120	Nylon Specify Adsorbent	0.25" 1.44" 4.61" 0.77"	50 cc



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
DIA-INxx	1.5	2.1	3.4	4.0	5.3	6.6	8.3	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

Inlet / Outlet Drain Connection Maximum Pressure	Maximum Temperature °F At 0 PSIG °F At 100 PSIG	Materials of Construction: Body Adsorbent	Principle Dimensions: Spigot diameter Body diameter Overall length Spigot length	Volume
1/4" NPT None 100 PSIG	230 120	Nylon / Kynar Specify Adsorbent	0.50" 2.28" 5.43" 1.05"	120 cc



Gas Flow Rates – DIA-LNxx, DIA-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, K.

DIA (Adsorption) Specifications

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



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