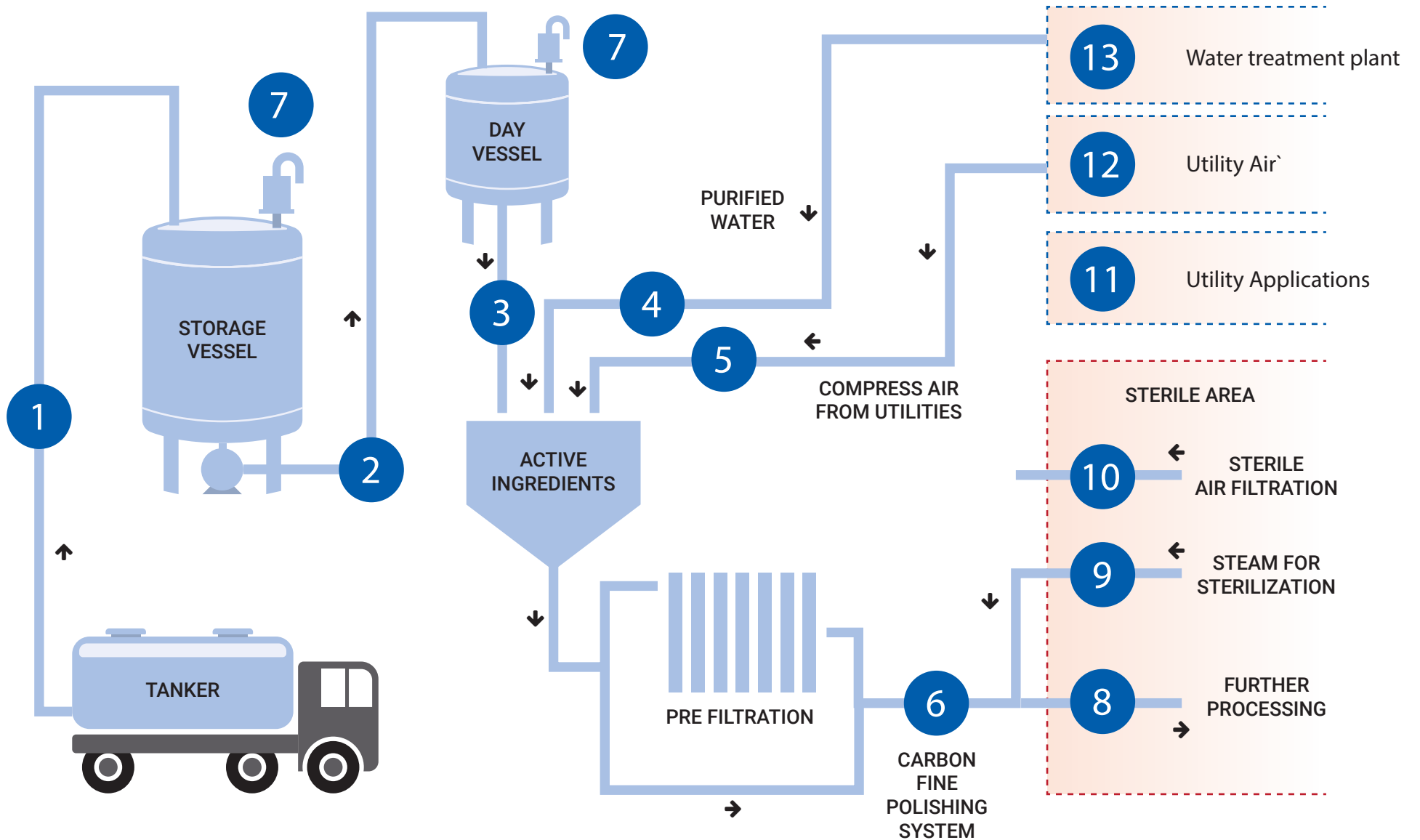


Effective Filtration Solutions for API Industry

Typical Points of Application for API Industry



PHA Series

Filtration is important for finishing of API/ Bulk Drugs products. Filtration plays an important role, for both, incoming raw material and intermediate processing, so as to make final product filtration effective.

“bonflow” PHA series filters offer unique filter configuration which is optimized for API/ Bulk Drugs manufacturing, so as to deliver desired quality at maximum dirt holding capacity, resulting into **lowest cost of filtration**.

“bonflow” PHA series filters are available in both variants, **Surface Filters** i.e. Flat sheet pleated and **Depth Filters** i.e. thick wall cylindrical filters. Since we manufacture our own filter cartridges, unique combinations can be offered for your specific requirements.

We are glad to offer unique resin bonded G2D (Graded Density Depth) filter as Pre-Filter and Pleated Surface filter combination for all final filtration applications. Where G2D takes maximum load and Pleated will take fine tuning.

Category	Type	Materials	Application User Points
Depth Filters	Resin Bonded	Cellulose Melamine	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
	Wound	Polypropylene	1, 2, 4
	Spun	Polypropylene	1, 2, 4
	Sintered	Polypropylene	11
Surface Filters	Pleated	PolyPropylene	3, 4, 5, 6, 7, 8, 10
		PTFE	5, 7, 10
		Stainless Steel	1, 2, 3, 4
	Multilayered	Stainless Steel	1, 2, 3, 4



Type & Material

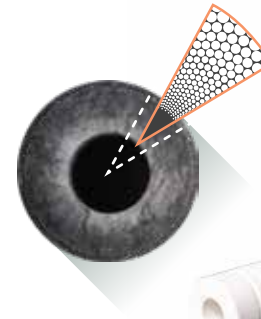
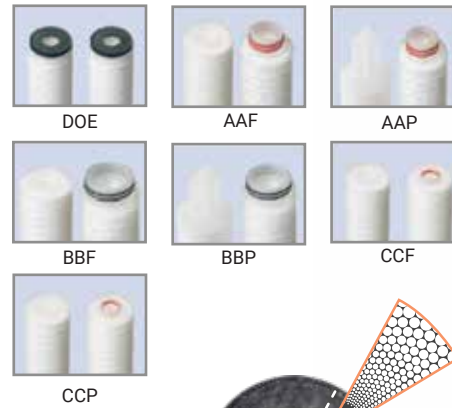
Series	PHA	
Type	Resin Bonded	RB
Material	Cellulose Melamine	CM
	bonflow PHA	RBCM

Key Features:

High Efficiency, Graded Density, Depth Filter, High Dirt Holding Capacity, Rigid structure, FDA Compatibility

Point of Application:

Activated Carbon Removal, Solvent Filtration, High Temperature Application, Pre Filter for Sterile API, Utility Filtration



Product Selection

Product Specification

Micron	Code	Efficiency	Code	Dimension	Code	Length	Code	End Connections	Code	Gaskets	Code
25	P4	High	H1	Standard		5"	05	DOE	DOE	NONE	0
10	P1	Super	H2	65X28	A	9.75"	09	222 (Code 0) Flat	AAF	SILICONE	1
5	M5	ABS 50	A1	On Request		10"	10	222 (Code 0)Fin	AAP	NBR/ NITRILE	3
1	M1			70X25	B	19.5"	19	226 (Code 7) Flat	BBF	PTFE	4
0.5	F5			50X25	C	20"	20	226 (Code 7) Fin	BBP	POLYETHYLENE FOAM	6
0.45	F4			110X28	D	29.25"	29	213 (Internal O Ring)Flat	CCF	EPDM	8
0.2	F3			110X40	E	30"	30	213 (Internal O Ring)Fin	CCP		
						39"	39				
						40"	40				

Example: bonflow PHA-RBCM -M5H2- A09DOE0

Type & Material

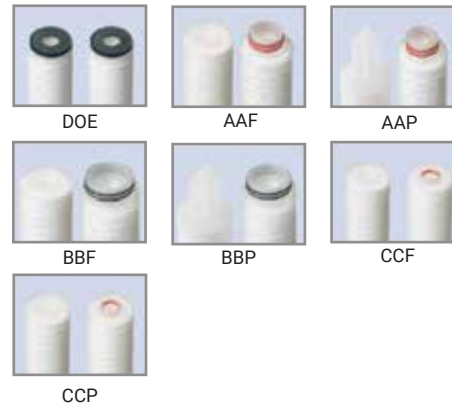
Series		PHA
Type	Pleated	PL
Material	Polypropylene	PP
bonflow PHA		PLPP

Key Features:

High performance Polypropylene filter media, FDA Compatibility, Uniform pore distribution, Indian manufacture, available in all configurations, immediate delivery

Point of Application:

Final filter for sterile API, Prefilters for validated filters, Activated carbon filtration, Solvent filtration, Water Filtration



Product Selection

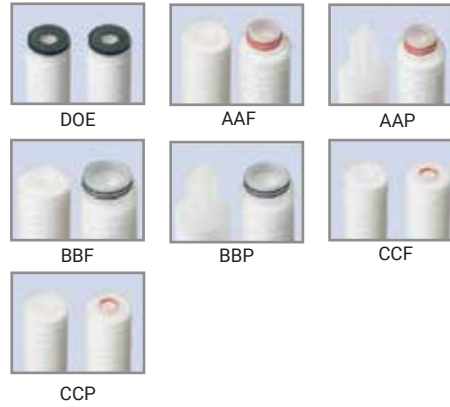
Product Specification

Micron	Code	Efficiency	Code	Dimension	Code	Length	Code	End Connections	Code	Gaskets	Code
10	P1	High	H1	Standard		5"	05	DOE	DOE	SILICONE	1
5	M5	Super	H2	(65X28)	A	9.75"	09	222 (Code 0) Flat	AAF	NBR/ NITRILE	3
1	M1	ABS 50	A1			10"	10	222 (Code 0)Fin	AAP	PTFE	4
0.45	F4	ABS 100	A2			19.5"	19	226 (Code 7) Flat	BBF	EPDM	8
0.2	F3					20"	20	226 (Code 7) Fin	BBP	Viton	9
						29.25"	29	213 (Internal O Ring)Flat	CCF		
						30"	30	213 (Internal O Ring)Fin	CCP		
						39"	39				
						40"	40				

Example: bonflow PHA-PLPP-M5H2- A09DOE1

Type & Material

Series		PHA
Type	Pleated	PL
Material	PTFE	PT
bonflow PHA		PLPT



Key Features:

Hydrophobic inert media, High temperature applications, Suitable for liquid filtration and vent filters.

Point of Application:

Liquid filtration, vent filters

Product Selection

Product Specification

Micron	Code	Efficiency	Code	Dimension	Code	Length	Code	End Connections	Code	Gaskets	Code
0.45	F4	ABS 50	A1	Standard		9.75"	09	DOE	DOE	SILICONE	1
0.2	F3			65X28	A	10"	10	222 (Code 0) Flat	AAF	NBR/ NITRILE	3
						19.5"	19	222 (Code 0)Fin	AAP	PTFE	4
						20"	20	226 (Code 7) Flat	BBF	EPDM	8
						29.25"	29	226 (Code 7) Fin	BBP	Viton	9
						30"	30	213 (Internal O Ring)Flat	CCF		
						39"	39	213 (Internal O Ring)Fin	CCP		
						40"	40				

Example: bonflow PHA-PLPT-F4A1-A09DOE1

Type & Material

Series	PHA	
Type	Pleated	PL
Material	Stainless Steel	SS
	bonflow PHA	PLSS

Key Features:

High temperature compatibility, cleanable

Point of Application:

High temperature liquid filtration



Product Selection

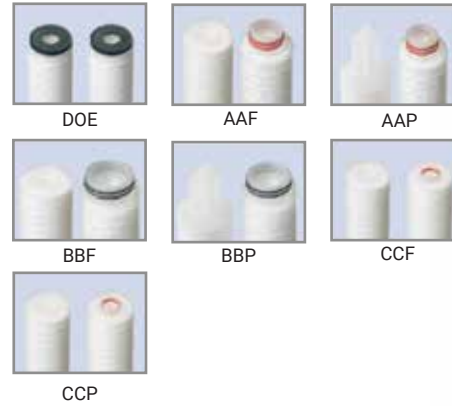
Product Specification

Micron	Code	Efficiency	Code	Dimension	Code	Length	Code	End Connections	Code	Gaskets	Code
10	P1	Super	H2	Standard		9.75"	09	DOE	DOE	SILICONE	1
5	M5	ABS 50	A1	65X28	A	10"	10	222 (Code 0) Flat	AAF	NBR/ NITRILE	3
1	M1					19.5"	19	222 (Code 0)Fin	AAP	PTFE	4
						20"	20	226 (Code 7) Flat	BBF	EPDM	8
						29.25"	29	226 (Code 7) Fin	BBP	Viton	9
						30"	30	213 (Internal O Ring)Flat	CCF		
						39"	39	213 (Internal O Ring)Fin	CCP		
						40"	40	Threaded 1"	TH1		

Example: bonflow PHA-PLSS-P1A1- A09DOE1

Type & Material

Series		PHA
Type	Spun	SP
Material	Polypropylene	PP
bonflow PHA		SPPP



Key Features:

Inert depth filter media

Point of Application:

General purpose liquid filtration

Product Selection

Product Specification

Micron	Code	Efficiency	Code	Dimension	Code	Length	Code	End Connections	Code	Gaskets	Code
50	P5	Standard	N1	Standard		9.75"	09	DOE	DOE	None	0
25	P4	Superior	N2	65X28	A	10"	10	222 (Code 0) Flat	AAF	SILICONE	1
10	P1	High	H1	110X28	D	19.5"	19	222 (Code 0)Fin	AAP	NBR/ NITRILE	3
5	M5			110X40	E	20"	20	226 (Code 7) Flat	BBF	PTFE	4
1	M1					29.25"	29	226 (Code 7) Fin	BBP	EPDM	8
						30"	30	213 (Internal O Ring)Flat	CCF	Viton	9
						39"	39	213 (Internal O Ring)Fin	CCP		
						40"	40				

Example: bonflow PHA-SPPP-P5N1- A09DOE0

Type & Material

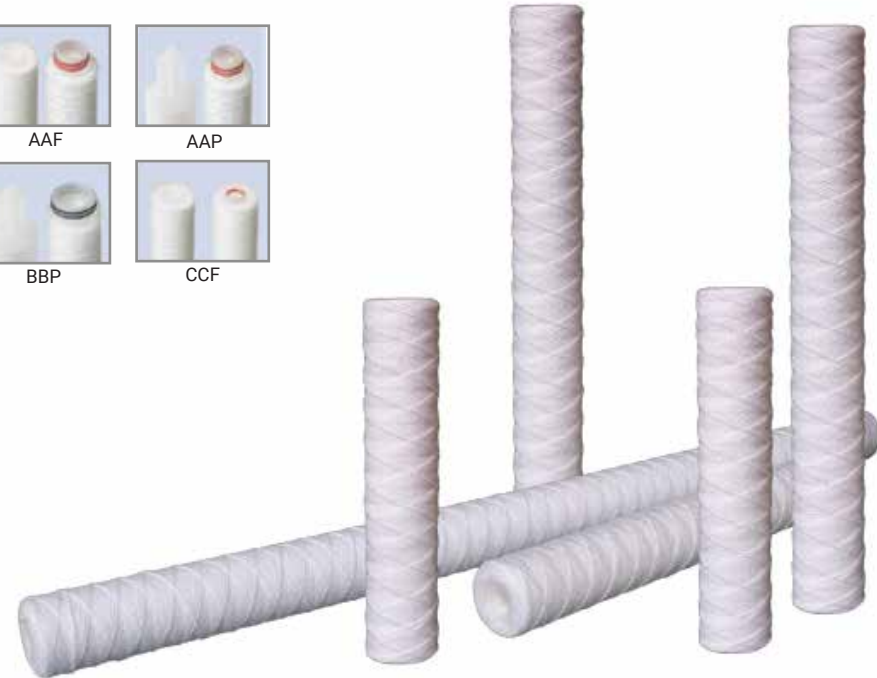
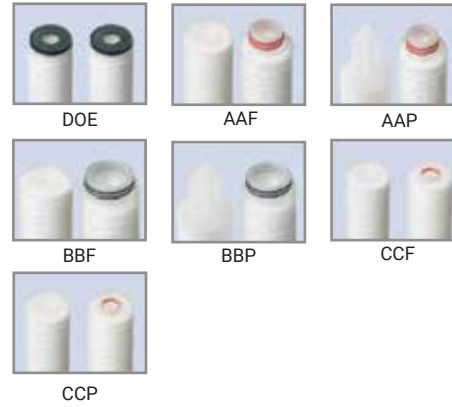
Series		PHA
Type	Wound	WN
Material	Polypropylene	PP
bonflow PHA		WNPP

Key Features:

Inert depth filter media

Point of Application:

General purpose liquid filtration



Product Selection

Product Specification

Micron	Code	Efficiency	Code	Dimension	Code	Length	Code	End Connections	Code	Gaskets	Code
50	P5	Standard	N1	Standard		9.75"	09	DOE	DOE	NONE	0
25	P4	Superior	N2	65X28	A	10"	10	222 (Code 0) Flat	AAF	SILICONE	1
10	P1			110X28	D	19.5"	19	222 (Code 0) Fin	AAP	NBR/ NITRILE	3
5	M5					20"	20	226 (Code 7) Flat	BBF	PTFE	4
1	M1					29.25"	29	226 (Code 7) Fin	BBP	EPDM	8
						30"	30	213 (Internal O Ring) Flat	CCF	Viton	9
						39"	39	213 (Internal O Ring) Fin	CCP		
						40"	40				

Example: bonflow PHA-WNPP-P5N2- A09DOE0

Type & Material

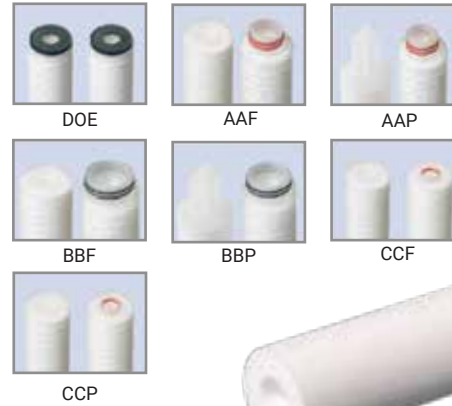
Series	PHA	
Type	SINTERED	SN
Material	POLYPROPYLENE	PP
	bonflow PHA	SNPP

Key Features:

Inert depth filter media

Point of Application:

General purpose liquid filtration



Product Selection

Product Specification

Micron	Code	Efficiency	Code	Dimension	Code	Length	Code	End Connections	Code	Gaskets	Code
10	P1	Superior	N2	Standard		9.75"	09	DOE	DOE	NONE	0
5	M5			65X28	A	10"	10	222 (Code 0) Flat	AAF	SILICONE	1
1	M1			70X28	B	19.5"	19	222 (Code 0) Fin	AAP	NBR/ NITRILE	3
				70X40	D	20"	20	226 (Code 7) Flat	BBF	PTFE	4
						29.25"	29	226 (Code 7) Fin	BBP	EPDM	8
						30"	30	213 (Internal O Ring) Flat	CCF	Viton	9
						39"	39	213 (Internal O Ring) Fin	CCP		
						40"	40				

Example: bonflow PHA-SNPP-M5N2- A09DOE0

Type & Material

Series	PHA	
Type	Sintered	SN
Material	Stainless Steel	SS
	bonflow PHA	SNSS

Key Features:

High temperature compatibility, cleanable

Point of Application:

High temperature liquid filtration



Product Selection

Product Specification

Micron	Code	Efficiency	Code	Dimension	Code	Length	Code	End Connections	Code	Gaskets	Code
10	P1	Superior	N2	Standard		9.75"	09	DOE	DOE	SILICONE	1
5	M5			65X28	A	10"	10	222 (Code 0) Flat	AAF	NBR/ NITRILE	3
1	M1			50X28	C	19.5"	19	226 (Code 7) Flat	BBF	PTFE	4
						20"	20	213 (Internal O Ring)Flat	CCF	EPDM	8
						29.25"	29			Viton	9
						30"	30				
						39"	39				
						40"	40				

Example: bonflow PHA-SNSS-P1N2-A09DOE1

Type & Material

Series	PHA	
Type	MULTILAYERED	ML
Material	STAINLESS STEEL	SS
	bonflow PHA	MLSS

Key Features:

High temperature compatibility, cleanable, SS 316

Point of Application:

High temperature liquid filtration



Product Selection

Product Specification

Micron	Code	Efficiency	Code	Dimension	Code	Length	Code	End Connections	Code	Gaskets	Code
10	P1	High	H1	Standard		9.75"	09	DOE	DOE	SILICONE	1
5	M5			65X28	A	10"	10	222 (Code 0) Flat	AAF	NBR/ NITRILE	3
1	M1					19.5"	19	222 (Code 0)Fin	AAP	PTFE	4
						20"	20	226 (Code 7) Flat	BBF	EPDM	8
						29.25"	29	213 (Internal O Ring)Flat	CCF	Viton	9
						30"	30				
						39"	39				
						40"	40				

Example: bonflow PHA-MLSS-P1H1- A09DOE1

Conical Filters	
MOC	SS 304, SS 316, SS 316L
Disc Dia	25, 47, 80 mm
End Connections	TC, Flanged, Threaded, etc.
Micron Rating	up to 0.2 micron
Disc	SS Sintered, SS Multilayered



Bag Filter	
Standard Size	4"x10", 4"x18", 7"x32"
Option	Single or multiple of 3, 5, 7 or so
MOC of Housing	SS 316 / 304, MS, PP
MOC of Bag	PP, Polyester, Nomex, Nylon
Fitment Configuration	PP Collar Bag, Steel Ring Bag, Snap Bond Fit Bag
Extra Configuration	Stitched, Ultrasonic welded, single layered, multilayer,



Filter Housings	
To Hold	1, 3, 5, 7, 10, 15, 20, 25 No. of Cartridges
For Lengths	5", 10", 20", 30" and 40"
MOC	SS 304, 316, 316L, Carbon Steel, PP, Hastelloy, Halar Coated, etc.
End Connection	Flanged, TC, Threaded, etc.
Filter Configuration	DOE, Code 7, Code 0, Threaded etc.
Special Options	High pressure rating, Steam jacketed, etc.



Industries we also cater to



Pharma Industry



Chemical Industry



F&B



Water



Utility Oils



AND MANY MORE

About Vats

Thank you very much for interacting with Vats Filtration Team.

We take this opportunity to introduce ourselves as specialist in “Filtration Technology”, providing micro filtration solution for various applications. We manufacture our own micron cartridges and also manufacture equipments, in India, with strong technical backbone with IIT technocrats.

Vats Filtration Technologies Pvt. Ltd. is a 20 years old company and has developed wide range of products used in various applications for delivering cost effective filtration at desired quality level. State of the art products are available hydraulic oils, Liberating oils, Turbine oil, FRF, Water Hydraulics, Refrigeration and other Compressor oils, where oil is circulated in close loop systems.

Along with this vats has developed other industrial applications which are in custom product division where many process applications like test rig, washing fluids, application rigs, etc. are filtered.

We at Vats are committed to deliver “Effective Solution” for your unique process with

- Quality Improvement at present cost
- Same quality at lower cost
- Quality Improvement at lower cost

We do have our Application Laboratory where filtration problem is analyzed and effective filtration solution is suggested for our valued customers. Our filter media characterization facility is utilized for consistent quality media production.

Our Application Lab and a proactive technical support team is there to help you optimize your filtration cost and empower you to deliver best quality product.



Vats is committed to effective solution towards Green Environments. Our goal is to maintain oil cleanliness, resulting into increasing equipment’s up time and to improves effective life of the oil.

We invite you to make your ‘Green Environment Movement’ successful. Please ask Vats expertise about possible avenues to reduce carbon footprint.

Business Associates: