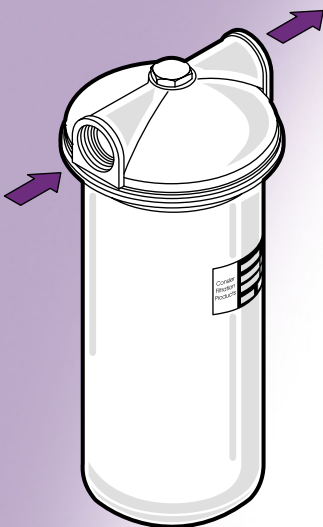


INDUSTRIAL FILTRATION PRODUCTS

Graver Technologies In-Line (GTI) Filter Housings

For Compressed Gas, Liquid, Coalescing, and Vacuum Applications

Graver Technologies GTI family of filter housings are compact and easy to install. The housings come with FPT connections in 1/2, 3/4, and 1-inch connection sizes.



GTI filters provide efficient removal of dust, dirt, pipe scale, and other solid contaminants from compressed air and gas pipelines, liquid pipelines, and vacuum inlet lines. The coalescing models remove liquids and solids from a compressed air or gas stream.

- CP Series** for Compressed Air and Gas Applications
- CPL Series** for Liquid Applications
- AGS Series** for Air and Gas Coalescing Applications
- LGS Series** for Compressed Gas Separation Applications
- LKV Series** for Vacuum Applications

- Design pressure to 150 PSIG at 100°F/1 torr in vacuum service.
- Spring tension fitting for quick and easy element change-outs and positive seal.
- Standard drain plug for quick and easy servicing.

Filter elements are designed and constructed with positive gasket sealing to prevent bypass of unfiltered solids. Filter elements for gas, liquid, and vacuum service are radial fin design to maximize surface area and minimize change-out expense. The coalescing filter elements use a glass fiber media.

CP Filters for Compressed Air & Gas Service

- Filter element is 10 micron polyester media with carbon steel core.
- Effective filtering for compressed gas streams to remove product or by-product solids.
- Provides positive protection of pneumatic controls, meters, and other pipeline equipment.

CPL Filters for Liquid Service

- Filter element is 20 micron polyester media with carbon steel core.
- For polishing and final filtering of process liquids such as aqueous chemical solutions.
- For clarifying recirculating liquids, including oils and coolants.

AGS Filter for Air & Gas Coalescing

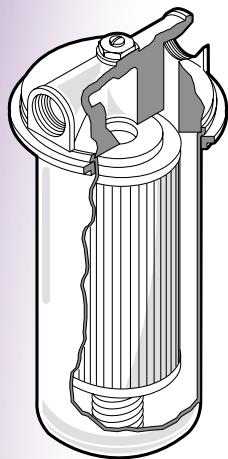
- Filter element is 0.3 micron glass fiber media with carbon steel core.
- Effective separation of oil, water, and other aerosols from compressed air and gas lines.
- Removal of dispersed liquids and solids of 0.3m and up at 99% minimum efficiency.
- Use as a pre-filter to an air dryer, increasing system efficiency and equipment service life.
- Install on a compressed air or gas pipeline to protect equipment and instruments.

LGS Filters for Compressed Gas Coalescing

- Filter element is 1 micron glass fiber media with carbon steel core.
- Effective separation of oil, water, and other liquid aerosols from compressed air and gas lines.
- High-efficiency removal of: dispersed liquids 4μ and up at 99%; solid particulate 1μ and up at 99%.

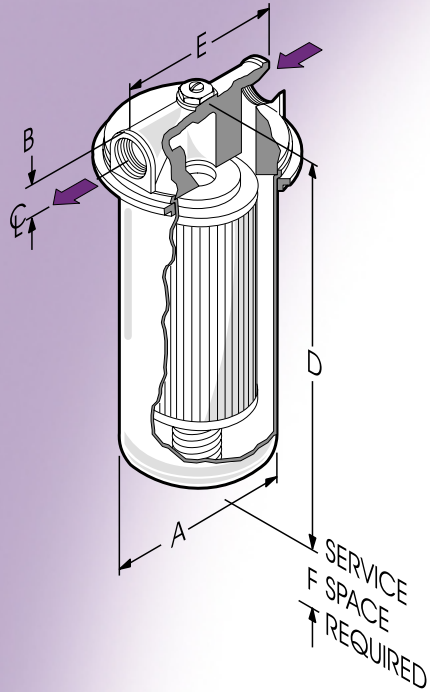
LKV Filters for Vacuum Service

- Filter element is 10 micron polyester media with carbon steel core.
- Positive protection of vacuum pumps and other pipeline equipment in vacuum furnace, distillation, packaging, and other processes.



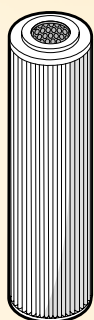
GTI Filters are ideal for satisfying Original Equipment Manufacturer specifications.

Drawings are available in hard copy or via PDF file format for quick approvals. Just call our customer service line at 800.321.4789 or visit our Web site. You'll find GTX Series drawings and other great information under the "Downloads" button.



Filter Element & Closure Gaskets

Filter Series	Element Part No.	Micron Rating	Filter Area	Gasket No.
CP	10824-K5	10 μ	1.80 f ²	40313
CPL	16011-K5	20 μ	1.50 f ²	40441
AGS	20560	0.3 μ	1.40 f ²	40313
LGS	11305	1.0 μ	0.70 f ²	40313
LKV	10824-K5	10 μ	1.80 f ²	40313



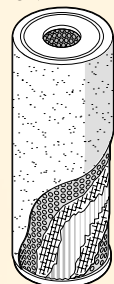
CP/CPL/LKV Pleated Media Filter Element

FILTER ELEMENTS MATERIALS OF CONSTRUCTION

Core: Carbon Steel
Endcaps: Carbon Steel

Filtration Media

- CP - Pleated Polyester
- CPL - Pleated Polyester
- AGS - Glass Fiber Tube
- LGS - Glass Fiber
- LKV - Pleated Polyester



AGS/LGS Glass Fiber Filter Element

GTI Filter Housing Specifications

Dimensions (Inches)						Weight
A	B	D	E	F		
3 5/8"	7/8"	12 3/4"	4 5/8"	10 3/4"		7 lbs

CP Flow Rate Capability Chart

Inlet Press	Conn. Size	Inches WC Δp				psi Δp		
		0.5"	1.0"	5"	10"	.5	1	2
50 PSIG	1/2"	7.6	10	24	34	40	56	80
	3/4"	13	18	40	58	68	96	137
	1"	22	32	74	100	118	168	240

100 PSIG	1/2"	10	14	32	46	54	76	108
	3/4"	17	24	45	76	90	128	180
	1"	30	42	93	132	156	220	312

150 PSIG	1/2"	12	17	38	54	64	90	128
	3/4"	21	28	66	92	110	155	220
	1"	35	50	110	160	186	268	370

CPL Flow Rate Capability Chart

Conn. Size	Rated Flow	Pressure Loss
1/2"	12 gpm	2.6 psi
3/4"	20 gpm	2.6 psi
1"	22 gpm	1.8 psf

AGS Flow Rate Capability Chart

CAPACITY (SCFM) VS. DIFFERENTIAL PRESSURE (PSIG), AIR AT 60°F

Connection Size	Operating Pressure (PSI)						Max Δp PSIG
	20	50	80	100	120	150	
1/2"	94	174	225	309	363	443	1.90
3/4"	94	174	225	309	363	443	1.65
1"	94	174	225	309	363	443	1.60

LGS Flow Rate Capability Chart

CAPACITY (SCFM) VS. DIFFERENTIAL PRESSURE (PSIG), AIR AT 60°F

Connection Size	Inlet Pressure (PSIG)							
	10	20	40	60	80	100	125	150
1/2"	10	24	38	49	53	58	67	75
3/4"	16	39	62	78	85	93	106	125
1"	20	50	80	100	110	120	140	160

LKV Flow Rate Capability Chart

CAPACITY (ACFM) VS. DIFFERENTIAL PRESSURE (mmHg), AIR AT 60°F

Inlet Pressure	Connection Size	Δp in torr (mmHg)			
		0.5	1.0	5.0	
760 torr (mmHg)	1/2 inch	5	8	15	
	3/4 inch	7	12	26	
	1 inch	12	20	40	
150 torr (mmHg)	1/2 inch	Δp in torr (mmHg)			
		0.25	0.5	1.0	2.0
	3/4 inch	8	11	15	22
		12	18	26	39
1 inch	20	29	40	60	
	Δp in torr (mmHg)				
25 torr (mmHg)	1/2 inch	0.05	0.1	0.2	0.5
		8	11	15	22
	3/4 inch	12	18	26	39
		20	29	40	60