

ILFV Series Vacuum Service Inline Air Filters



ILFV-4 filter

Built to Suit Your Application

- Designed for vacuum service application requirements.
- Optional design features for special production and assembly conditions are available.
- Special materials such as stainless steel are available.
- Interchangeable paper or felt elements, for desired filtration characteristics in the same housing.
- Filter restriction gauges are optional for all units.

Durable Construction

- Carbon steel construction with a high-quality blue semi-gloss enamel finish.
- Removable top plate for easy access to the filter element.

Immediate Availability

- Fast delivery for most sizes.

Advanced Design and Testing

- Our extensive in-house engineering, manufacturing, and testing facilities ensure optimized process, mechanical, and acoustic performance for your application.

Quality You Can Count On

Universal Silencer's new ILFV Series of inline air filters has been designed especially for vacuum applications as an economical alternative to our ILF Series. Choose from ten standard pipe sizes ranging from 2 in. to 14 in. and flow capacities ranging from 120 to 5900 CFM. Two choices of filter element media — pleated paper or pleated felt — are available to suit your specific application.

Universal's Filter Restriction Gauge provides a convenient, accurate means of monitoring filter pressure drop as the filter element becomes increasingly loaded with dirt. Inline air filters are standard with threaded connections for directly mounting the gauge. See product bulletin 81-1234 for a complete description.

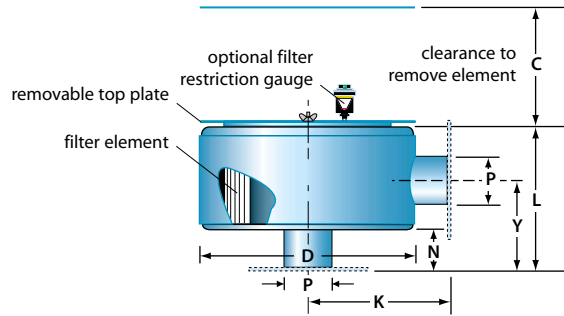


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ILFV Series Vacuum Service Inline Air Filters



DIMENSIONS, WEIGHTS, AND REPLACEMENT ELEMENTS

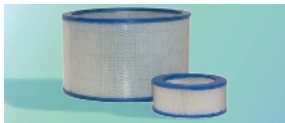
Model	P (nom.)	D	L	N	Y	C	K	Weight (est.)	Rated Cap. (CFM)	Element Part No.	
										Paper	Felt
ILFV-2	2	14	9.38	3.5	6.44	7	10	18	120	81-1063	81-1205
ILFV-2 ¹ / ₂	2 ¹ / ₂	14	9.38	3.5	6.44	7	10	19	190	81-1063	81-1205
ILFV-3	3	14	9.38	3.5	6.44	7	10	20	275	81-1063	81-1205
ILFV-4	4	14	9.38	3.5	6.44	7	10	21	500	81-1063	81-1205
ILFV-5	5	18	12.00	3.5	7.75	10	12	50	750	81-0475	81-1207
ILFV-6	6	18	20.56	3.5	12.00	10	12	65	1100	(2) 81-0475	(2) 81-1207
ILFV-8	8	24	13.19	3.5	8.35	11	15	90	2200	81-1163	81-1209
ILFV-10	10	24	22.69	3.5	13.00	11	15	125	3000	(2) 81-1163	(2) 81-1209
ILFV-12	12	30	17.19	3.5	10.35	15	18	160	4300	81-1164	81-1210
ILFV-14	14	30	30.69	3.5	17.00	15	18	205	5900	(2) 81-1164	(2) 81-1210

- All models have a 1/8 in. FNPT tap for installation of a gauge or manometer to monitor pressure drop.
- The C dimension is clearance required to remove elements.
- Non-ASME code construction is suitable for 15" Hg vacuum. Not applicable for pressure applications.
- Rated capacity is based upon flow velocity of approximately 5500 ft/min. If pressure drop allowance permits, capacity may be increased by as much as 50%.
- Flange connections are drilled per ANSI standard for each size.
- Sizes 2" through 4" are standard with male pipe threaded inlet and outlet fitting (MNPT).
- Sizes 5" through 14" are standard with plate flanges drilled to ANSI standards (dashed lines on sketch).
- Weight does not include filter elements.

FILTER ELEMENTS

Two types of filter elements are available for Universal Silencer's vacuum service inline air filters. The pleated paper elements provide the highest efficiency and are considered standard. Pleated felt elements are available for less demanding service, with respect to efficiency. Both types of elements are completely interchangeable and will fit the ILFV filter housings.

SERVICE INTERVALS: Paper and felt elements are typically cleaned or replaced when the air flow resistance has increased 4 inches of water over the initial clean resistance. The maximum restriction recommended across the filter elements is 20 inches of water, but this value may be greater than the equipment can tolerate for best efficiency.



Pleated Paper Element

SPECIFICATIONS:

- High-quality industrial-grade filter paper—pleated and oven-cured during production.
- Oven-cured plastisol end caps with molded sealing beads (larger elements for pipe sizes (P) 8 in. through 14 in. have metal end caps with closed-cell rubber gaskets).
- Media efficiency: 99.5% on 2 microns; 97% on 1 micron.
- Maximum operating temperature: 200° F for units with 2 in. through 14 in. pipe sizes.

SERVICE INSTRUCTIONS:

Because of the low cost of the paper element, it is generally treated as a consumable and replaced when dirty. However, depending upon customer preference, the paper element may be cleaned with compressed air and reused.

Compressed Air Cleaning:

Carefully direct compressed air (100 PSI maximum) through the dry element, opposite the normal direction of flow. After cleaning, inspect carefully for holes or cracks. If the element is damaged, replace it.



Pleated Felt Element

SPECIFICATIONS:

- Durable polyester felt media — pleated.
- Oven-cured plastisol end caps with molded sealing beads (larger elements for pipe sizes (P) 8 in. through 14 in. have metal end caps with closed-cell rubber gaskets).
- Media efficiency: 99% on 10 microns.
- Maximum operating temperature: 200° F for units with 2 in. through 8 in. pipe sizes.

250° F for units with 10 in. through 14 in. pipe sizes using elements with metal end caps.

SERVICE INSTRUCTIONS:

Pleated felt elements may be cleaned with compressed air or water and reused.

Water Cleaning:

Rap the element gently to dislodge accumulated dirt, and soak it thoroughly approximately 15 minutes in warm water and mild detergent. Rinse thoroughly under low-pressure water. Air dry—do not dry with compressed air. After cleaning, inspect carefully for holes or cracks. If the element is damaged, replace it.