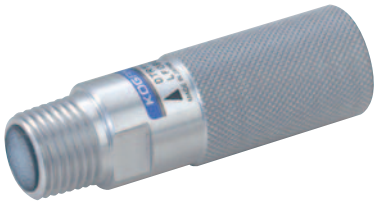
MINI LINE FILTER

Offers clean and economical air

Use of a porous hollow fiber membrane achieves a lightweight and compact filter with simple construction.
Can be mounted directly to the static electricity removing unit IONIZER.

Note: **DTRY-LF080** cannot be directly mounted to the Ionizer.

DTRY-LF040
●Connection port: R (Rc) 1/8



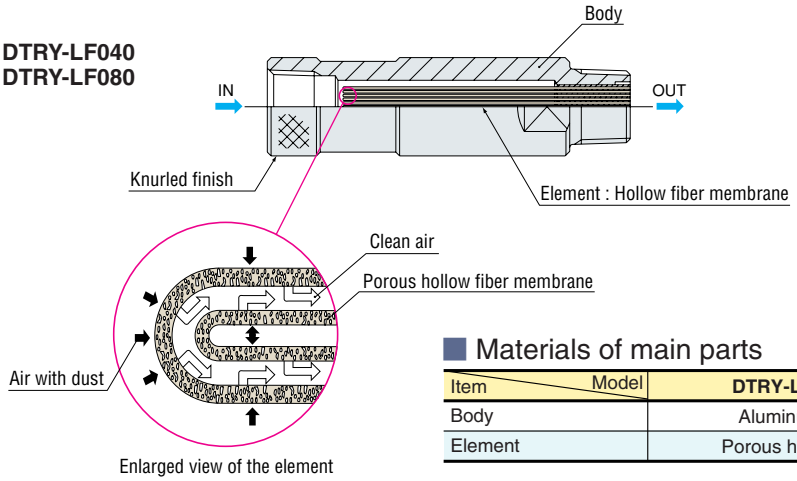
DTRY-LF080
●Connection port: R (Rc) 1/4

High filtering performance:
Filter element 0.1 micron / Filtering efficiency 99.9%

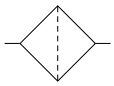
Compact but high flow rate–
DTRY-LF040: 40 ℓ/minute (ANR)※ / DTRY-LF080: 80 ℓ/minute (ANR)※
※These values are the flow rate at 0.7MPa supply air with 0.03 MPa pressure drop.

Inner construction and parts name

●DTRY-LF040
●DTRY-LF080



Symbol



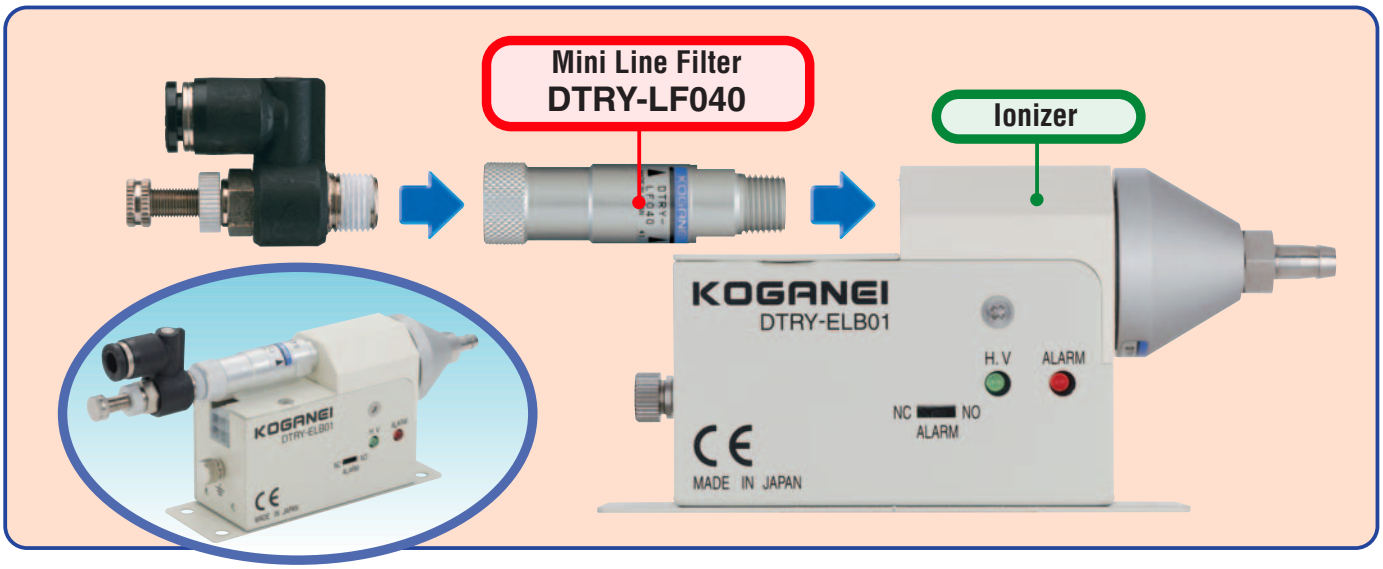
Remark: See page 45 for the specifications, flow characteristics, dimensions, handling instructions and precautions.

Note: Do not disassemble the Mini Line Filter.

Materials of main parts

Item \ Model	DTRY-LF040, DTRY-LF080
Body	Aluminum alloy (anodized)
Element	Porous hollow fiber membrane

Application with an Ionizer



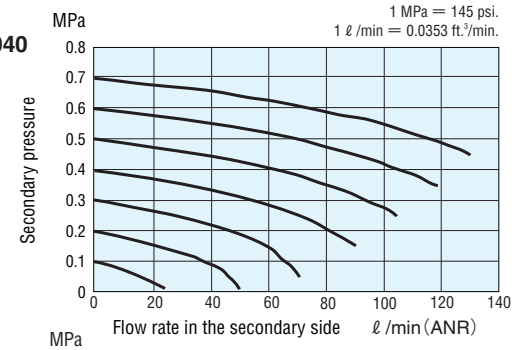
Specifications

Item \ Model	DTRY-LF040	DTRY-LF080
Media	Air	
Connection port	R (Rc) 1/8	R (Rc) 1/4
Collecting particle size μm	0.1	
Filtering efficiency %	99.9	
Processing air flow rate[NOTE1] ℓ/min(ANR)	40	80
Membrane area cm^2	29.9	68.7
Maximum operating pressure MPa [psi.]	0.97 [141]	
Proof pressure MPa [psi.]	1.47 [213]	
Operating temperature range °C [°F]	5～45 [41～113]	
Mass g[oz.]	11 [0.39]	18 [0.63]
Recommended tightening torque[Note2] N·cm	400～600	700～900

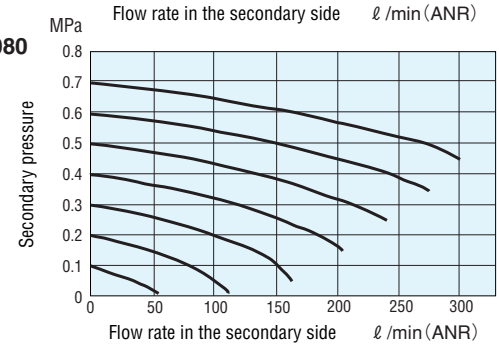
Notes 1: Flow rate at 0.7 MPa supply air with 0.03 MPa pressure drop.
In the worst case, up to approx. 5% reduction could occur due to applications.
2: When mounting the **DTRY-LF040** to the Ionizer **DTRY-ELB01**, **DTRY-ELB02** or **DTRY-ELL01**, the tightening torque should be 60～70 N·cm or less.

Flow Rate Characteristics

●**DTRY-LF040**

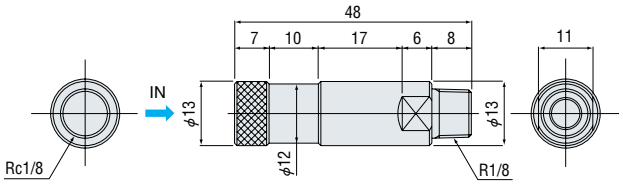


●**DTRY-LF080**

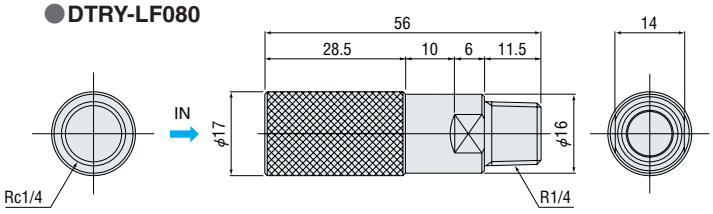


Dimensions (mm)

●**DTRY-LF040**



●**DTRY-LF080**

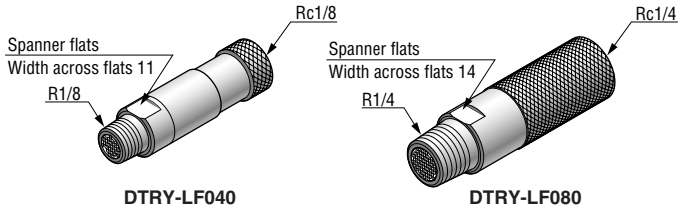


Note: The **DTRY-LF080** cannot be directly mounted to the Ionizer.

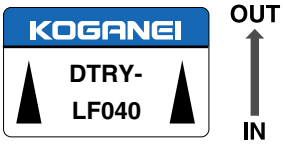
Handling Instructions and Precautions (for Mini Line Filter)

Mounting and Piping

1.When mounting the **DTRY-LF040** to the Ionizer **DTRY-ELB01, DTRY-ELB02** or **DTRY-ELL01**, tightening torque should be 60～70 N·cm or less. Excessive tightening could damage the Ionizer.



2. Plumb as air flows in the direction of the black arrow on the label. (Do not plumb as air flows in the reverse direction.)



3. As aluminum alloy is used in the Mini Line Filters. Take care not to apply excessive force when using them such as in rigid piping.
4. The purpose of the Mini Line Filter is to remove solid particles, consequently ensure the removal of vapor and oil in the pneumatic circuit before they reach the Mini Line Filter.

●Recommended circuit