

Optimizer® ST3 Filter Manifold

*Enables quick filter changeouts
without chemical leakage*

The Optimizer® ST3 filter manifold is designed for use with Optimizer ST point-of-use (POU) liquid filters to minimize contamination risk when handling filter cartridges. Using Entegris' proven Connectology® technology, the ST filter series quickly connects and securely seals to the ST3 manifold, which enables rapid filter changeouts without tools or chemical leakage. By minimizing the risk of hazardous chemical exposure during installation, the filter manifold speeds up installation and reduces downtime while also increasing operator safety.

Single O-ring design

An improvement over our ST2 filter manifold that had both filter and manifold O-rings, our ST3 filter manifold provides sufficient sealing performance in harsh tool environments with high tubing tension without an additional O-ring on the manifold. The single O-ring design releases users from time-consuming maintenance of manifold connectors when installing or changing filters. Reinforced metal components further improve durability, extending life in applications requiring multiple filter changeouts.

APPLICATIONS

- Photolithography
- Point-of-tool, photochemical and solvent applications



FEATURES & BENEFITS

O-ring free connector on ST3 manifold	No need to replace manifold O-rings due to distortion or abrasion, saving time and money
Optimized connector designs	Keeps sufficient sealing performance even against tubing tension, ensuring a secure, reliable seal
Reinforced metal parts	Improves durability, extending life in applications requiring multiple filter changeouts

SPECIFICATIONS

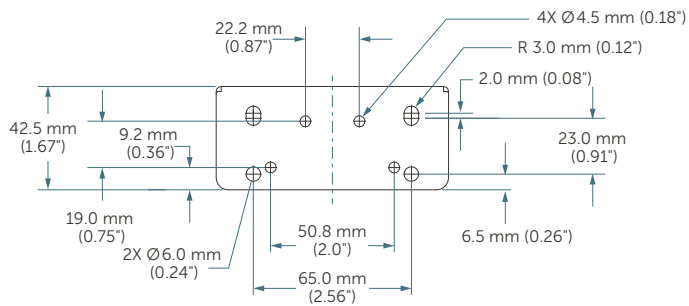
Optimizer ST3 Filter Manifold

Materials	Non-wetted components	Stainless steel
	Tube connectors, wetted surfaces	PFA
	Release tab	Polyacetal
	O-ring	N/A
Operating Conditions	Maximum operating pressure: 0.39 MPa (56.6 psid, 4.0 kg/cm ²) @ 25°C (77°F)	
	Maximum operating temperature: 40°C (104°F)	

The Optimizer ST3 filter manifold is designed for use with Entegris filters and flushing shell only.
The warranty will be voided if it is used with non-Entegris products.

DIMENSIONS

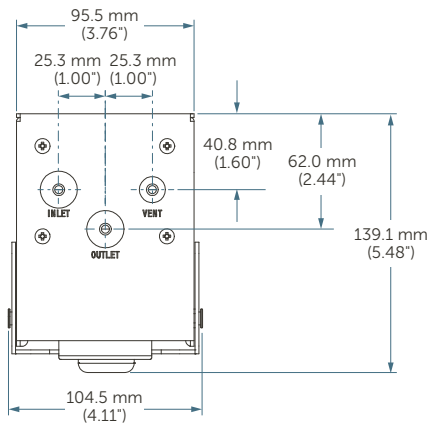
Mounting Plate (Common to All Types)



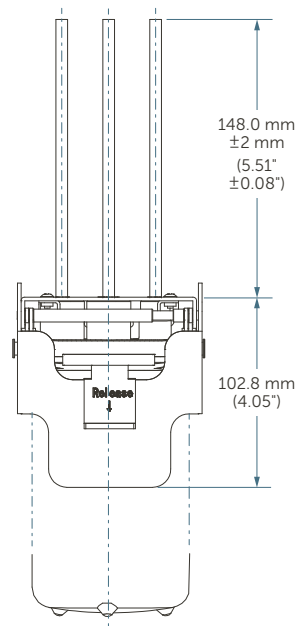
DIMENSIONS (CONTINUED)

Thin Tube Type Manifold (Part Number AM3T22201)

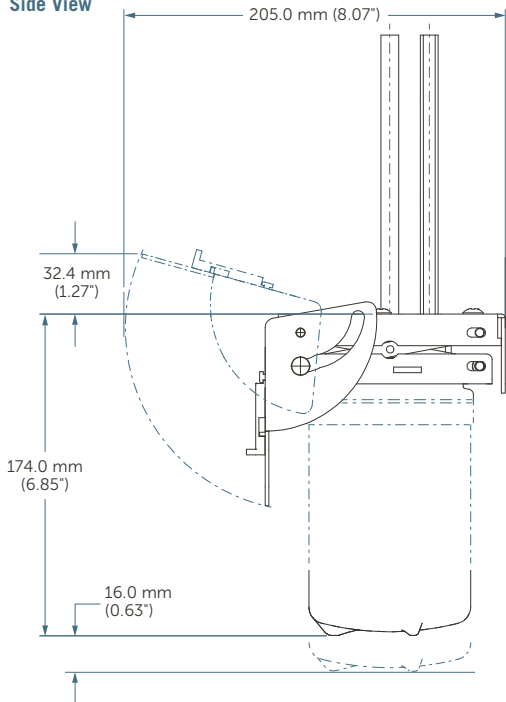
Top View



Front View



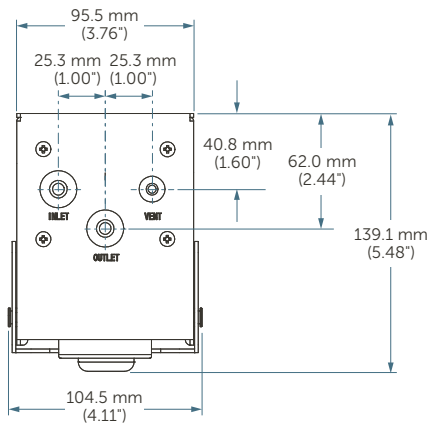
Side View



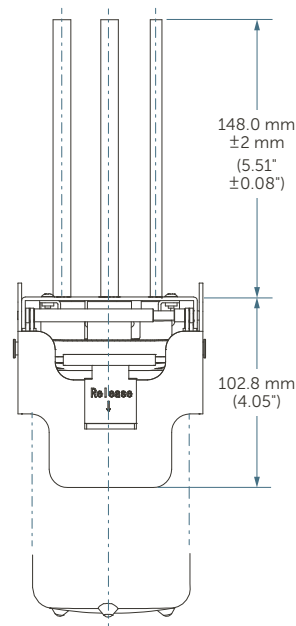
DIMENSIONS (CONTINUED)

Thin Tube Type Manifold (Part Number AM3T33201)

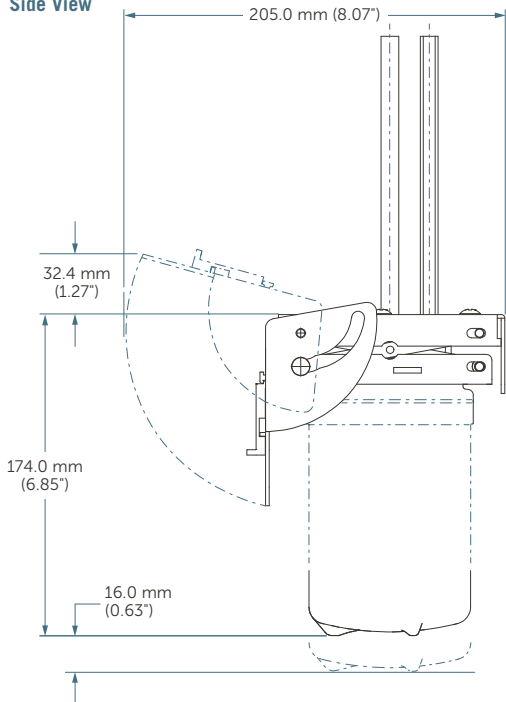
Top View



Front View



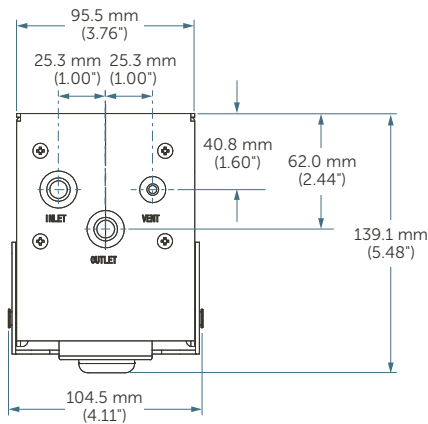
Side View



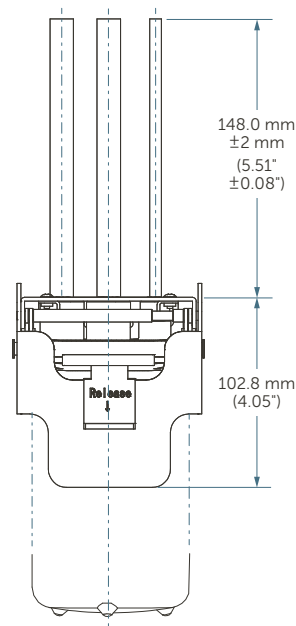
DIMENSIONS (CONTINUED)

Thin Tube Type Manifold (Part Number AM3T44201)

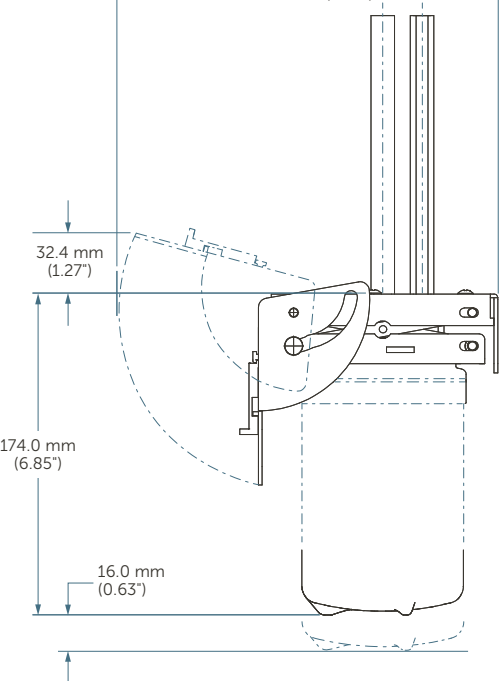
Top View



Front View

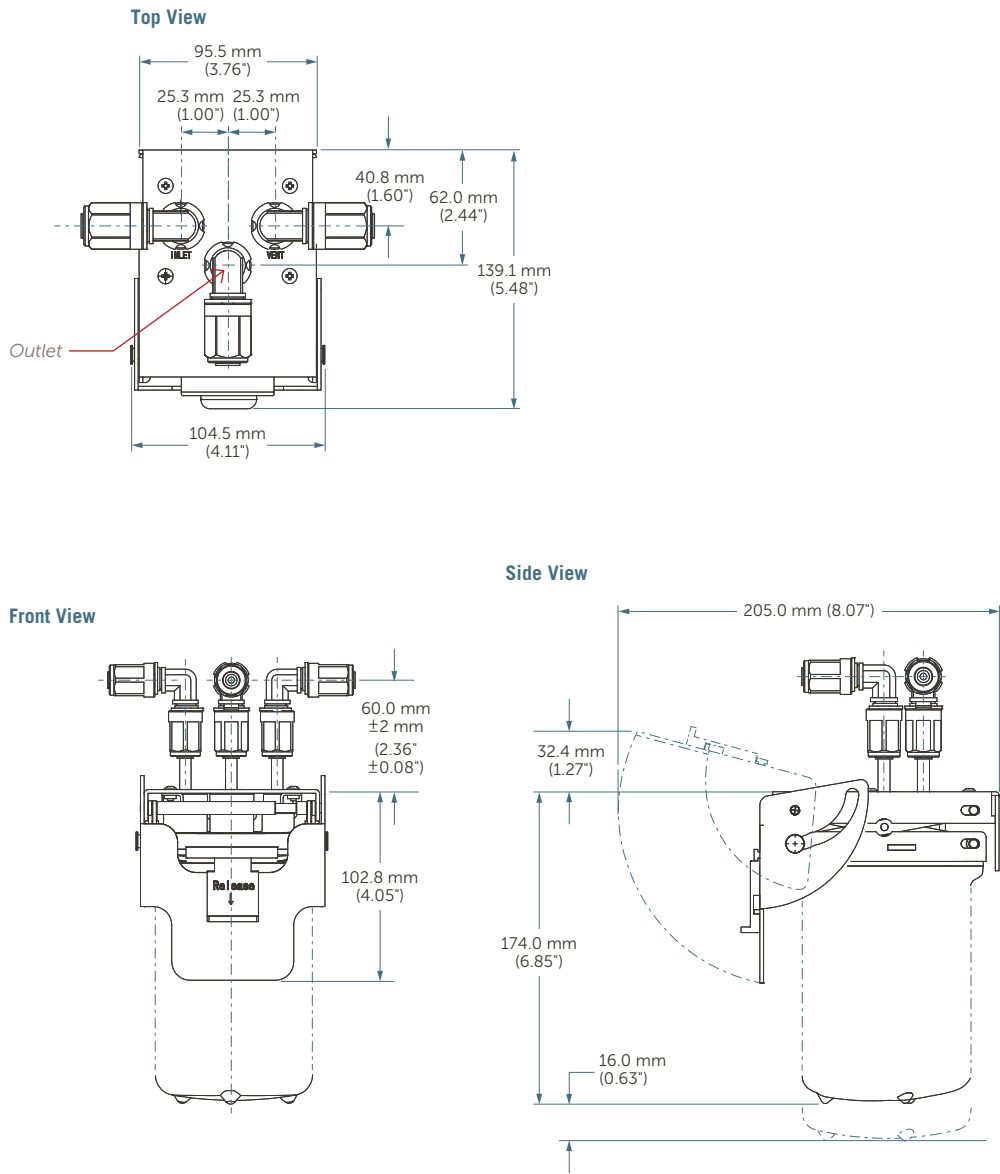


Side View



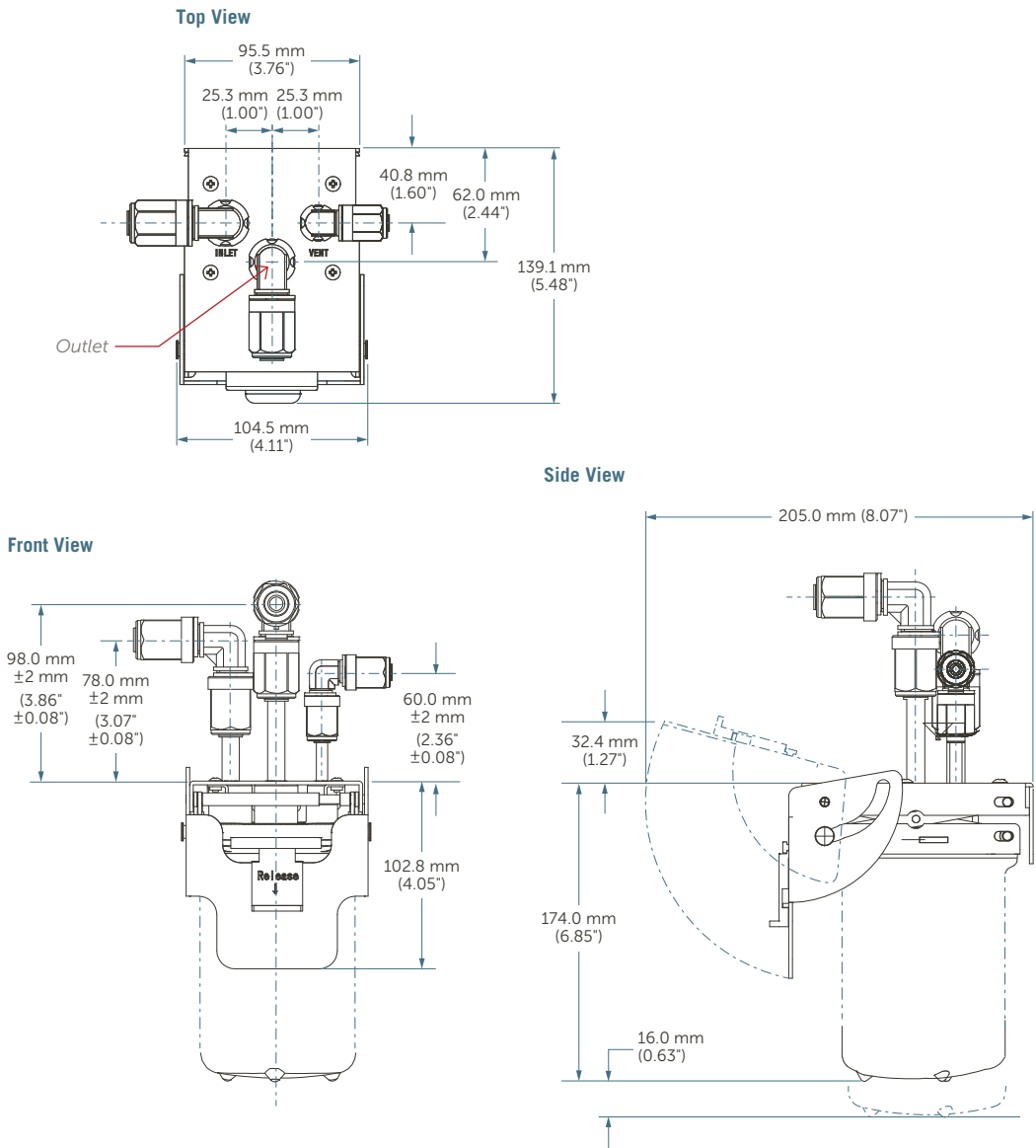
DIMENSIONS (CONTINUED)

Flowell 60 Elbow Type Manifold (Part Number AM3XL220T)



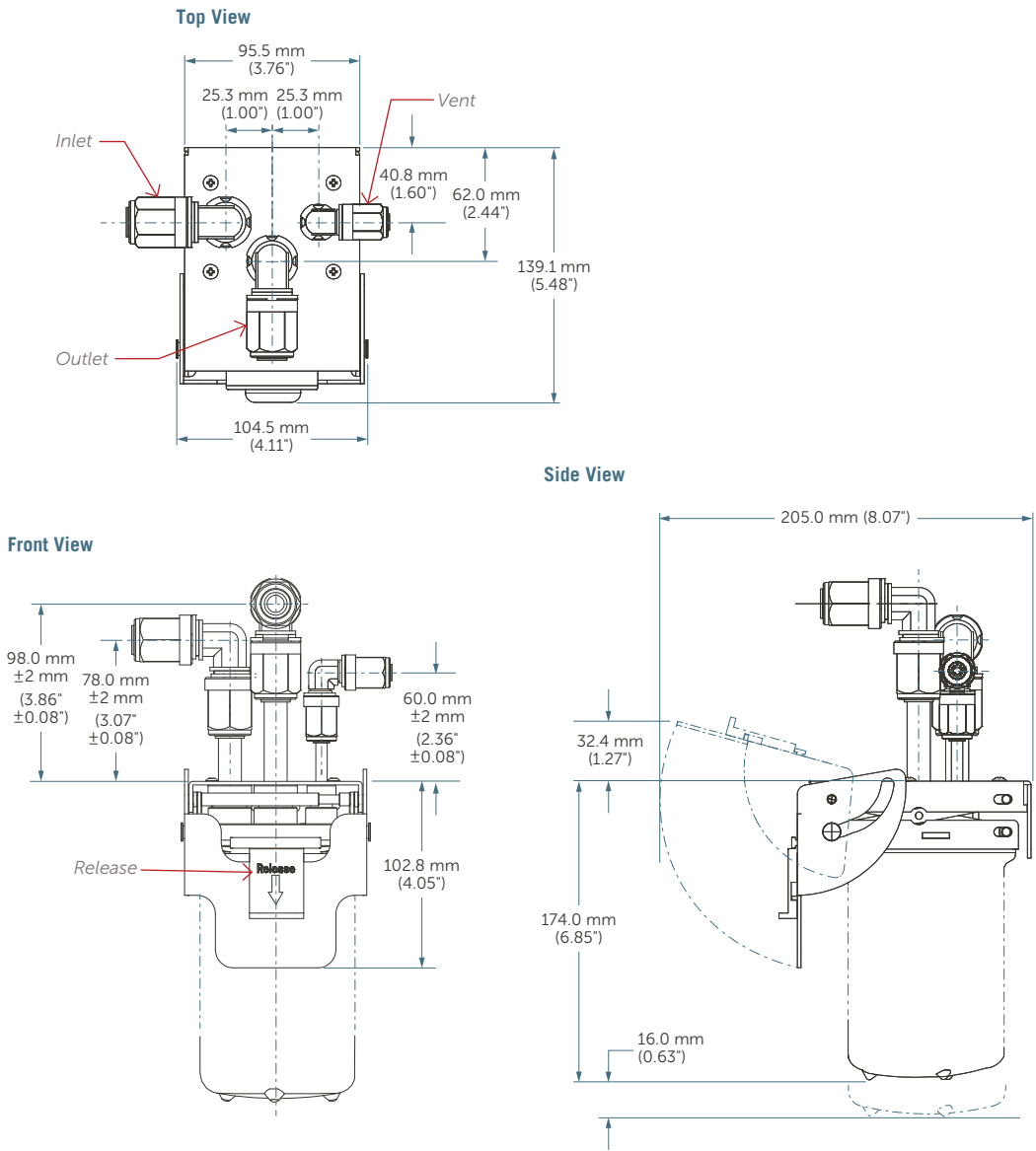
DIMENSIONS (CONTINUED)

Flowell 60 Elbow Type Manifold (Part Number AM3XL320T)



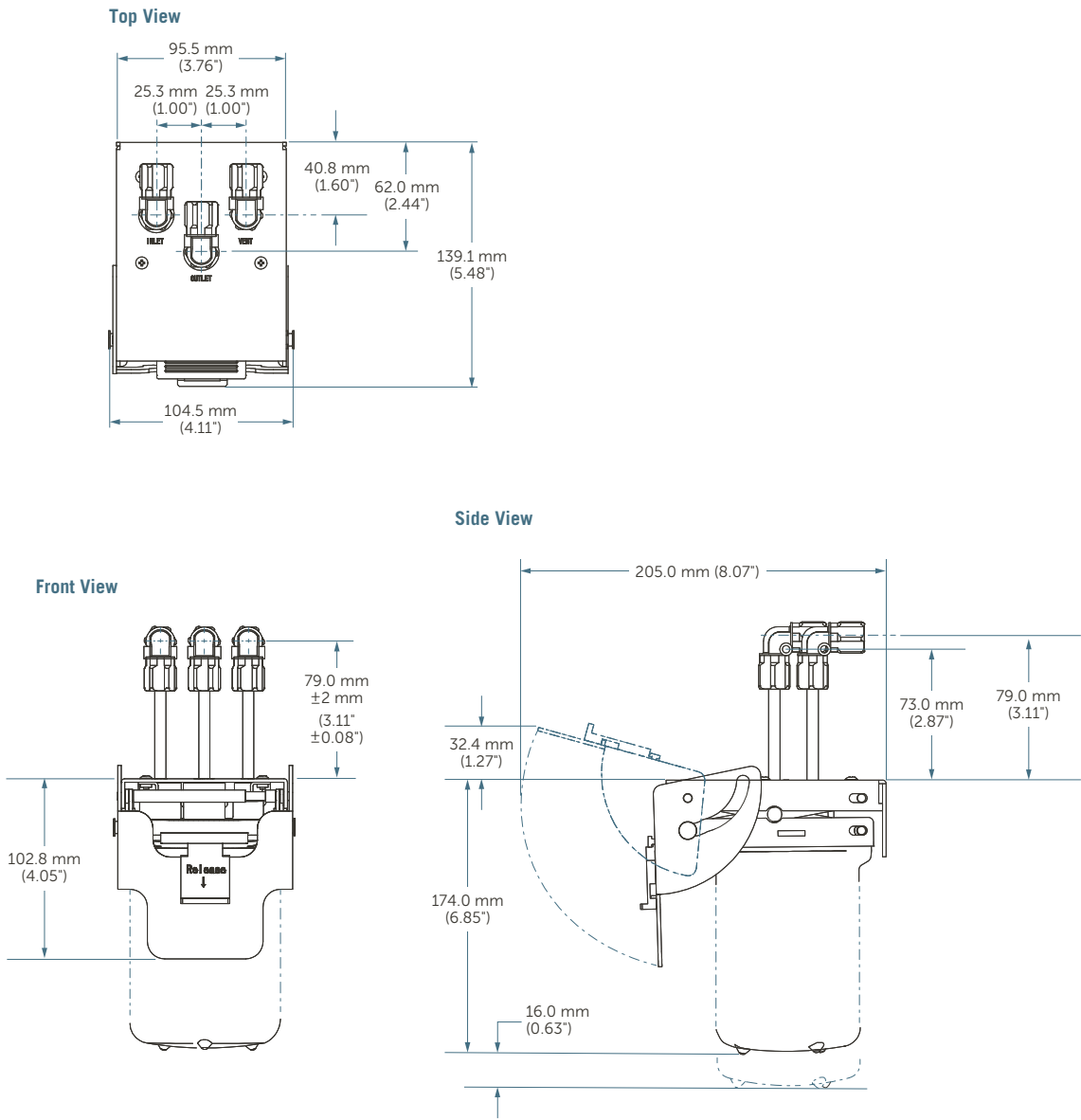
DIMENSIONS (CONTINUED)

Flowell 60 Elbow Type Manifold (Part Number AM3XL420T)



DIMENSIONS (CONTINUED)

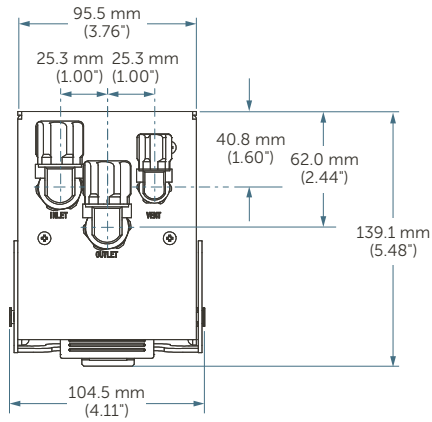
Flowell 80EZ Elbow Type Manifold (Part Number AM3ZL220T)



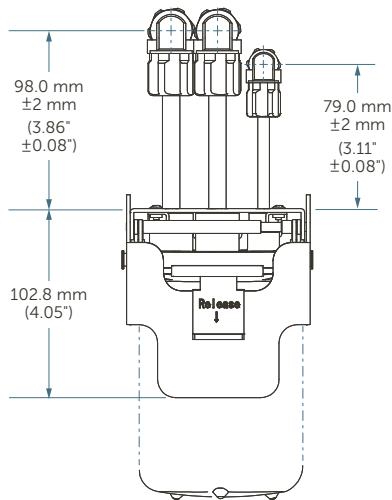
DIMENSIONS (CONTINUED)

Flowell 80EZ Elbow Type Manifold (Part Number AM3ZL320T)

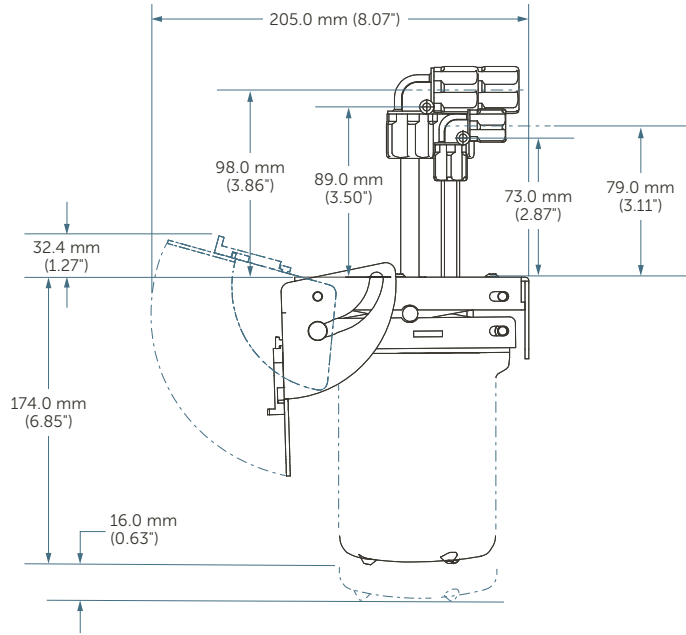
Top View



Front View

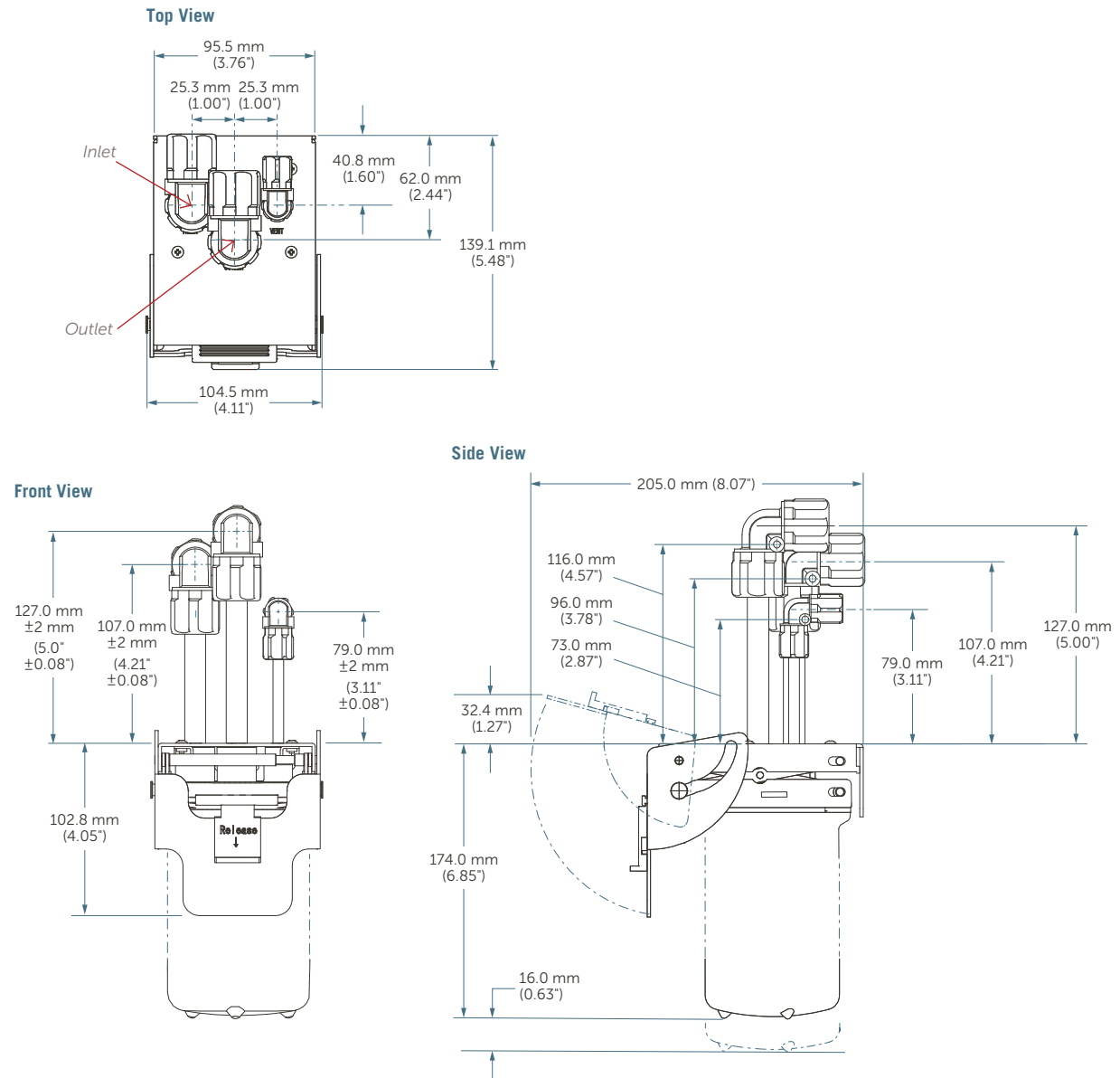


Side View



DIMENSIONS (CONTINUED)

Flowell 80EZ Elbow Type Manifold (Part Number AM3ZL420T)



ORDERING INFORMATION

Optimizer ST3 Filter Manifold

Part Number	Connection	Inlet/Outlet O.D.	Inlet/Outlet I.D.	Vent O.D.	Vent I.D.
AM3T22201	Thin tube type (inlet/outlet/vent)	6.35 mm (1/4") tube	4.35 mm	6.35 mm (1/4") tube	4.35 mm
AM3T33201	Thin tube type (inlet/outlet/vent)	9.53 mm (3/8") tube	7.53 mm	6.35 mm (1/4") tube	4.35 mm
AM3T44201	Thin tube type (vent)	12.7 mm (1/2") tube	9.53 mm	6.35 mm (1/4") tube	4.35 mm
AM3XL220T	Flowell 60 elbow, thin tube type (inlet/outlet/vent)	6.35 mm (1/4") tube	4.35 mm	6.35 mm (1/4") tube	4.35 mm
AM3XL320T	Flowell 60 elbow, thin tube type (inlet/outlet/vent)	9.53 mm (3/8") tube	7.53 mm	6.35 mm (1/4") tube	4.35 mm
AM3XL420T	Flowell 60 elbow, thin tube type (vent)	12.7 mm (1/2") tube	9.53 mm	6.35 mm (1/4") tube	4.35 mm
AM3ZL220T	Flowell 80 elbow, thin tube type (inlet/outlet/vent)	6.35 mm (1/4") tube	4.35 mm	6.35 mm (1/4") tube	4.35 mm
AM3ZL320T	Flowell 80 elbow, thin tube type (inlet/outlet/vent)	9.53 mm (3/8") tube	7.53 mm	6.35 mm (1/4") tube	4.35 mm
AM3ZL420T	Flowell 80 elbow, thin tube type (vent)	12.7 mm (1/2") tube	9.53 mm	6.35 mm (1/4") tube	4.35 mm

Note: To ensure safe use, please reference the Optimizer ST3 filter manifold installation and use manual found on [entegris.com](https://www.entegris.com).

FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit [entegris.com](https://www.entegris.com) and select the [Contact Us](#) link to find the customer service center nearest you.

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