



Tornado™ Model 602 Installation & Operation Instructions



Manufacturing Contact Information

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Safety Warnings

- ⚠ Failure to abide by any of the safety warnings below may result in equipment failure and serious injury or death.
 - ▶ Valve off the sample flow to depressurize the Tornado™ prior to starting maintenance.
 - ▶ Do not exceed any equipment pressure ratings.

Tools Required

No special tools are required for element replacement.

Technical Specifications

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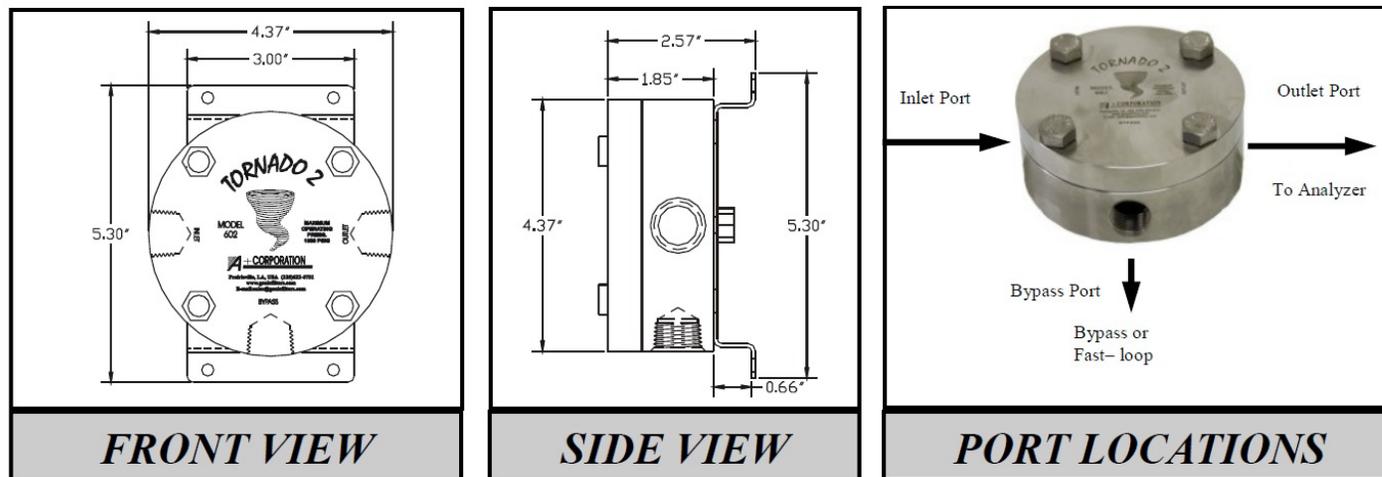
Maximum pressure rating	1,500 psig
Maximum recommended supply pressure	Lowest possible pressure consistent with application* *Must not exceed "Pressure rating" listed above
Maximum temperature	300 °F (148 °C)
Minimum Bypass flow rate	1.5 gal/min
Port sizes	Inlet, Outlet, & Bypass 1/2" female NPT
Internal volume	70 cc
Wetted materials	Machined parts: 316/316L stainless steel / NACE compliant All other metal parts: stainless steel / NACE compliant Sealing material: Kynar®

Installation Instructions

Mount the Tornado vertically as shown in Figure 1.

- ▶ Note that the “bypass” port is located at the center-bottom of the body to prevent liquid accumulation.
- ▶ The “inlet”, “outlet”, and “bypass” 1/2” NPT ports are conveniently located on the stationary body 90o apart for easy tubing runs.
- ▶ Therefore, it will not be necessary to disconnect the sample lines to replace filter elements.
- ▶ The four cover bolts have been torqued to 50 ft-lbs at the factory. After the bolts have been loosened or removed, they must be torqued to 50 ft-lbs (or wrench-tight if a torque wrench is not available) to insure proper sealing of the cover.
- ▶ The Kynar gasket must be replaced each time the cover is removed from the body.
- ▶ The Tornado Model 602 may be utilized to remove micron and sub-micron particles from liquid samples.
- ▶ Once flow has begun, establish a “bypass” flow to bring fresh sample to the filter quickly and to provide the selfcleaning action.
- ▶ Choose the appropriate element based on the micron size of the particles to be removed.
- ▶ Particulate will be swept away from the element’s surface by self-cleaning tornadic action.

Figure 1 - Mounting Diagrams & Port Locations

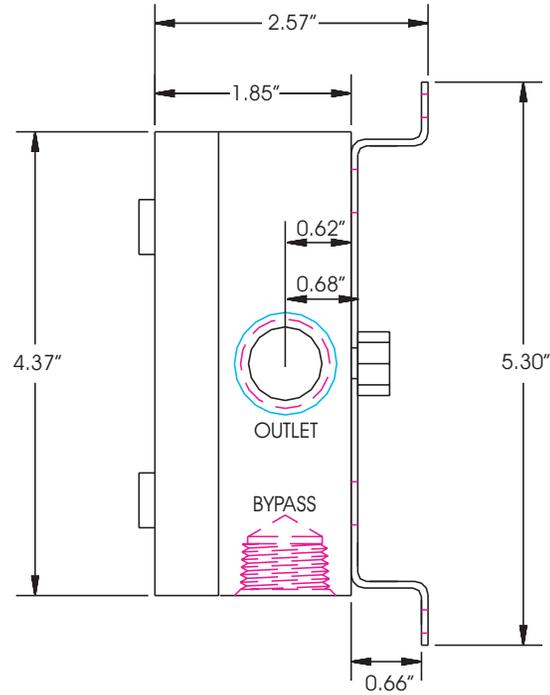


NOTES:

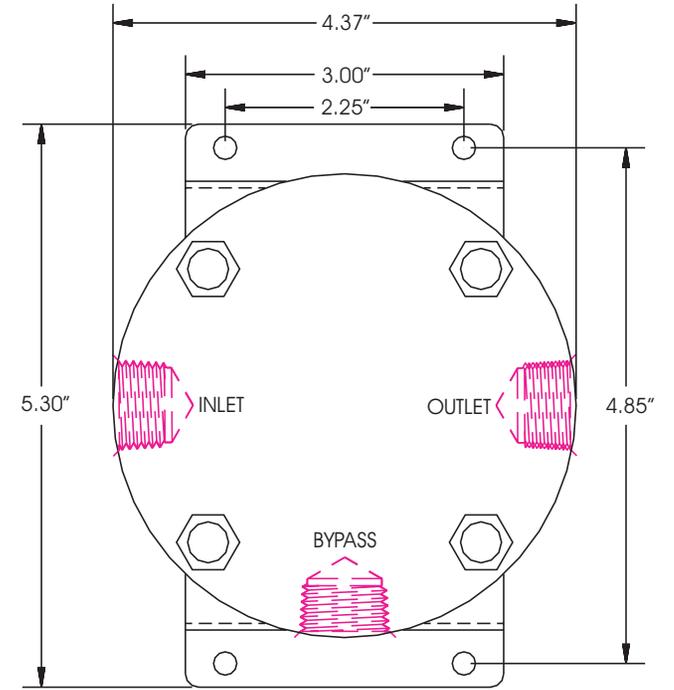
- ▶ Mount bracket to surface with #10 screws
- ▶ All ports are 1/2” NPT
- ▶ Maximum operating pressure 1500 PSIG (at ambient temperature)

Dimensions

Side View



Front View



Model Numbering & Additional Part Numbers

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Your model number is determined by your specific needs. Choose options below.

Element rating	0.5 = 0.5 micron 2 = 2 micron 10 = 10 micron 25 = 25 micron 50 = 50 micron 100 = 100 micron
Kit quantity	Blank = Kit of 5 1 = Kit of 1
Mounting bracket accessory	Part # 602-509-SS (sold separately)

How to build the model number:



How to build the replacement filter element assembly and seal kit part number:

