DASTEC

GENIE®170 Membrane Separator

The original brand known for sample conditioning and analyzer protection!

The Series 100 Genie® Membrane Separators™ remove 100% of entrained liquid and particulate in gas samples, which allows only gas sample to flow to analyzers. This action protects analyzers and sample system components against liquid damage. The original Genie® Series 100 models are available in several body styles with different membrane types to accommodate a wide variety of applications. The Genie® Supreme Series™ 100 models accommodate the same applications, yet they offer an improved housing design for easy maintenance and the innovative Liquid Block Technology™ that prevents liquid from being forced across the membrane should sample line pressure conditions become upset.

The Model 170 protects gas systems requiring very low sample flow rates on a continuous or intermittent basis. Its small internal volume and low dead volume 1/16" ports allow the Genie® Model 170 to purge quickly, which is ideal for the removal liquid aerosol droplets from gas samples; it is also perfect for protecting components such as laboratory gas chromatographs. Please note that special low volume fittings must be ordered to use a Genie® Model 170 properly. Other special assemblies may be ordered such as a Universal Assembly™.

Technical Specifications

Maximum pressure rating	170: 500 psig 170UA: 100 psig (due to rotameter limitations)
Maximum recommended supply pressure	Lowest possible pressure consistent with application* *Must not exceed "Pressure rating" listed above
Maximum temperature* *Temperature limited to 135˚F for 170UA models	185˚F (85˚C) for Type 6 membrane
Maximum recommended membrane flow rate (For higher flow rates contact the factory)	300 cc/min for Type 6 membrane* *Maximum flow results in approximately 2 psi membrane differential pressure
Port sizes	Inlet, Outlet & Bypass: 1/16" low volume fittings
Internal volume	0.16 cc
Wetted materials	Machined parts: 316/316L stainless steel / NACE compliant All other metal parts: stainless steel / NACE compliant Membrane: Inert

Product Brief

Applications

- Protection against liquids
- On-line and portable analyzers
- GC's, Mass Specs, O_2, H_2S, Moisture, and others
- Spot, composite, or continuous gas sampling in any process industry including natural gas, petrochemical, and oil refining

Benefits

- Superior analyzer protection
- Helps preserve sample integrity
- Improves analyzer reliability
- Reduces analyzer maintenance

Features

- Genie® Membrane Technology™
- Low internal volume
- Simple design
- No elastomers required for sealing
- Universal Assembly™ option

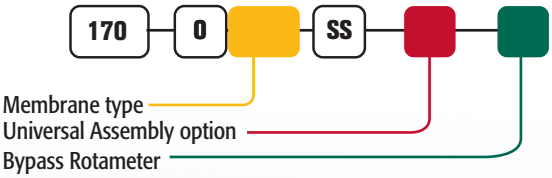
geniefilters.com

Model Numbering & Additional Part Numbers

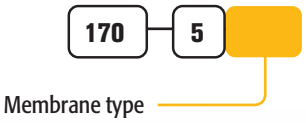
Your model number is determined by your specific needs. Choose options below.

Membrane type	06 = Rejects ALL types of liquids from vapor	*(other membranes available upon request)*
Universal Assembly option	Blank = No universal assembly option	U = Universal assembly option
Bypass Rotameter (only if option U is selected) *Dwyer Rotameter with integral valve	0 = Without rotameter	1 = 10-100 cc/min* 2 = 100-1000 cc/min*
Mounting bracket accessory	Part # 170-509-SS *(sold separately)*	
Fitting kit accessory	Part # 170-Ferrule-SS *(sold separately - 3 sets per kit)*	

How to build the model number:

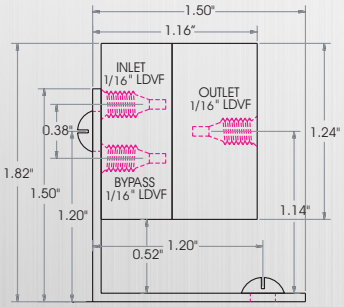


How to build the replacement membrane kit number:

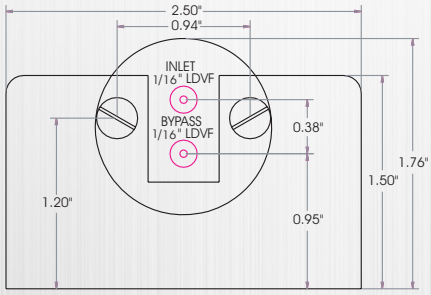


Dimensions

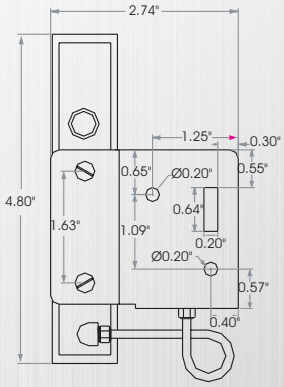
Side View



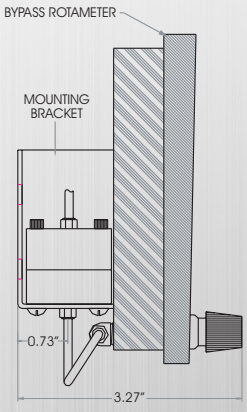
Back View



Assembly Back View



Assembly Side View



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A+ Corporation is the leader in Analytically Correct™ Sample Extraction and Conditioning Systems.

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