



# GENIE<sup>®</sup> 170

Membrane Separator

## The original brand known for sample conditioning and analyzer protection!

The Series 100 Genie<sup>®</sup> 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<sup>®</sup> Series 100 models are available in several body styles with different membrane types to accommodate a wide variety of applications. The Genie<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> Model 170 properly. Other special assemblies may be ordered such as a Universal Assembly™.



### Product Brief

#### Applications

- Protection against liquids
- On-line and portable analyzers
- GC's, Mass Specs, O<sub>2</sub>, H<sub>2</sub>S, 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<sup>®</sup> Membrane Technology™
- Low internal volume
- Simple design
- No elastomers required for sealing
- Universal Assembly™ option

### Technical Specifications

<b>Maximum pressure rating</b>	170: 500 psig 170UA: 100 psig (due to rotameter limitations)
<b>Maximum recommended supply pressure</b>	Lowest possible pressure consistent with application* *Must not exceed "Pressure rating" listed above
<b>Maximum temperature</b>	185°F (85°C) for Type 6/BTU membrane 302°F (150°C) for Hi-Flow membrane
<b>Maximum recommended membrane flow rate</b> (For higher flow rates contact the factory)	300 cc/min for Type 6/BTU membrane* 750 cc/min for Hi-Flow membrane* *Maximum flow results in approximately 2 psi membrane differential pressure
<b>Port sizes</b>	Inlet, Outlet & Bypass: 1/16" low volume fittings
<b>Internal volume</b>	0.16 cc
<b>Wetted materials</b>	Machined parts: 316/316L stainless steel / NACE compliant All other metal parts: stainless steel / NACE compliant Membrane: Inert

**DASTEC** S.R.L.

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Analyzer Sampling Solutions > Moisture & Corrosion Control > Knowledgeware

## Model Numbering & Additional Part Numbers

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

<b>Membrane type</b>	T2 = Hi- Flow (bonded to PTFE gasket)	06 = Type 6/BTU
<b>Universal Assembly option</b>	Blank = No universal assembly option	U = Universal assembly option
<b>Bypass Rotameter</b> (only if option U is selected) <small>*Dwyer Rotameter with integral valve</small>	0 = without rotameter	1 = 10-100 cc/min*      2 = 100-1000 cc/min*
<b>Mounting bracket accessory</b>	Part # 170-509-SS (sold separately)	
<b>Fitting kit accessory</b>	Part # 170-Ferrule-SS (sold separately - 3 sets per kit)	

How to build the model number:



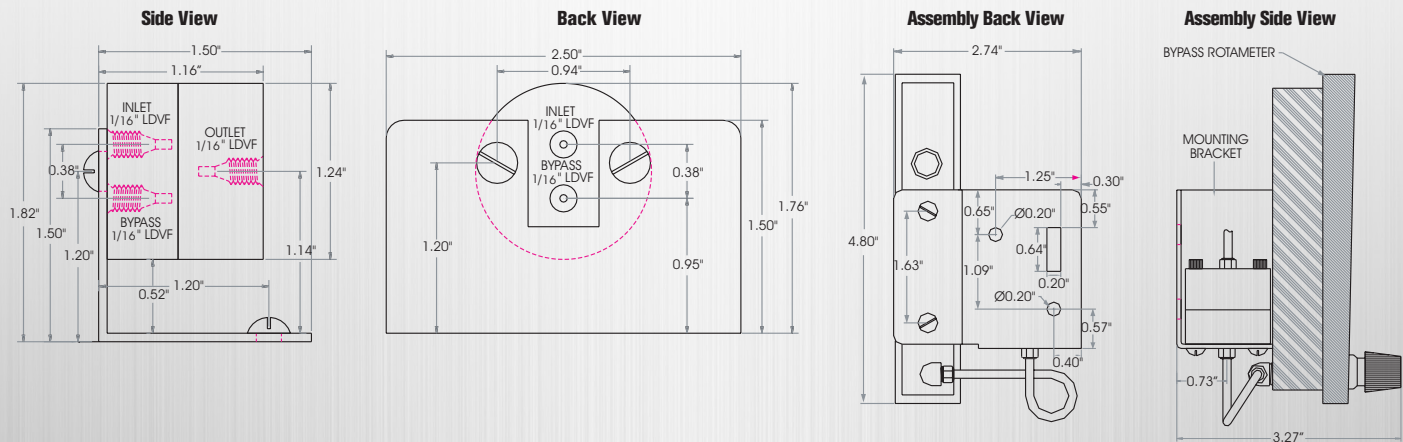
Membrane type ———> Yellow box  
 Universal Assembly option ———> Red box  
 Bypass Rotameter ———> Green box

How to build the replacement membrane kit number:



Membrane type ———> Yellow box

## Dimensions



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

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