

GAS MERGER FITTING

PRODUCT DATA SHEET—108

Combines sample gas exhaust and inert gas purge lines
 For solvent-based processing

Introduction

The Neutronics Gas Merger Fitting is designed to combine the sample gas exhaust line with the purge gas inlet line in one fitting for installation on a single interconnection. For vessels or enclosures with a limited number of flanged openings and system connections, the Gas Merger Fitting provides a simple, cost-effective alternative to adding new ones.

Operation

After the sample gas stream flows past the sensor and through the sample conditioning system, it is typically discharged through a vent line back into the process area or discharged through a vent line to atmosphere. If the process operating pressure is less than 1 psig and conditions allow, it may be discharged back to the process vessel. When the sample gas is returned to the vessel, the Gas Merger Fitting provides a simple interconnection that allows the sample gas return line to be installed on the same vessel opening that is used for the inert gas purge inlet connection. The fitting is designed so that the sample gas exhaust will vent through the orifice surrounding the inert gas purge tube.

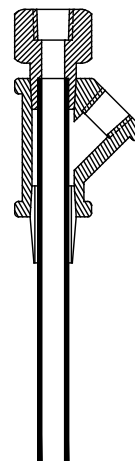
Installation

Install the Gas Merger Fitting on the vessel opening so that the purge tube extends into the vessel past the inner wall. The purge gas line and the sample gas exhaust line should be piped separately. Proper installation will prevent the inert gas flow from creating backpressure on the sample gas exhaust line.

Maintenance

Avoid excessive torque when installing the fitting. Over-tightening may cause leaks. Leak-check the fittings prior to system start-up.

The fitting contains no moving parts. Inspection and cleaning are required in accordance with standard preventative maintenance procedures and schedules.

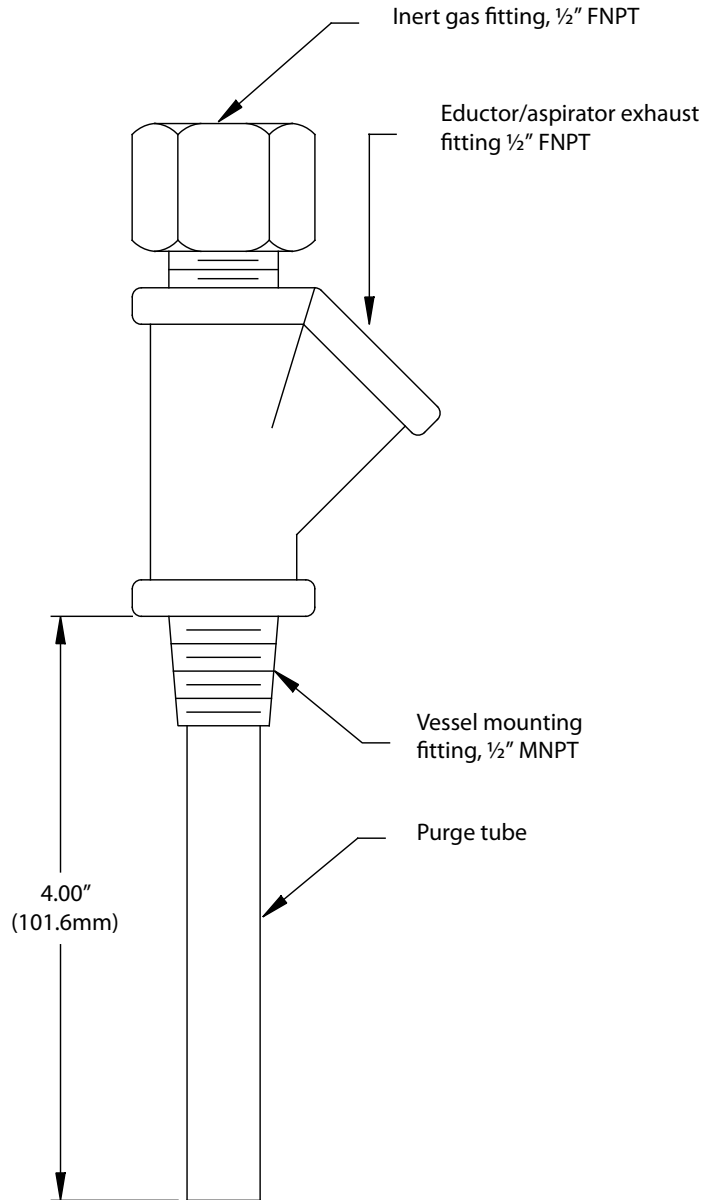


Features

- Combines two system connections into one fitting
- Prevents backpressure from developing on the sample gas return line
- Contains no moving parts simple to use
- Corrosion-resistant materials of construction - Stainless steel, Kynar/Teflon or brass/copper

GAS MERGER FITTING — SPECIFICATIONS

Materials of construction	Stainless steel, Kynar/Teflon, brass/copper
Purge gas inlet	½" FNPT
Sample gas exhaust inlet	½" FNPT
Vessel mounting connection	½" MNPT



Order information

Part No. 7-01-1000-42-1	Gas merger fitting	Stainless steel
Part No. 7-01-1000-42-2	Gas merger fitting	Kynar/Teflon
Part No. 7-01-1000-42-2	Gas merger fitting	Brass/copper



**Neutronics
Gas Analysis Solutions**
456 Creamery Way
Exton, PA 19341

Tel: 610.524.8800
Fax: 610.524.8807
Email: info@neutronicsinc.com

www.analyzegas.com

