

Gas Supply Separation Kit

for Rosemount™ 370XA Gas Chromatographs



Safety and information notices

⚠ DANGER

WILL CAUSE DEATH

Failure to follow this warning will result in death or serious injury to personnel.

⚠ WARNING

DANGER TO PERSONNEL

Failure to follow this warning may result in serious injury to personnel.

⚠ CAUTION

MAY CAUSE DAMAGE TO EQUIPMENT

Failure to follow this warning may result in damage to the equipment.

NOTICE

Important messages will appear in this format.

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1 Safety requirements

1.1 Rosemount™ Gas Chromatograph safety warnings

Observe these safety messages for the Rosemount 370XA Gas Chromatograph.

⚠ WARNING

EXPLOSION HAZARD

Do not open when energized or when an explosive atmosphere may be present.
Failure to de-energize the analyzer may cause serious injury or death to personnel.

⚠ WARNING

EXPLOSION HAZARD

Keep cover tight while circuits alive.

Failure to de-energize the analyzer before removing the cover may cause serious injury or death to personnel.

⚠ WARNING

EXPLOSION/FIRE HAZARD

Do not open when an explosive atmosphere may be present.

Do not open while energized.

Use supply cables or wires suitable for at least 80 °C (176 °F).

Failure to observe this warning may cause serious injury or death to personnel.

⚠ WARNING

PHYSICAL ACCESS

Unauthorized personnel may potentially cause significant damage to and/or misconfiguration of end users' equipment. This could be intentional or unintentional and needs to be protected against.

Physical security is an important part of any security program and fundamental to protecting your system. Restrict physical access by unauthorized personnel to protect end users' assets. This is true for all systems used within the facility.

2 Installation

2.1 Installing the gas separation kit

These are the installation instructions for the actuation and carrier gas hardware separation kit for the Rosemount™ 370XA Gas Chromatograph.

This installation kit contains the hardware necessary to separate the actuation gas supply from the carrier gas supply for the analyzer.

The contents of the kit are listed in [Table 3-1](#) and are illustrated in [Figure 3-1](#).

Procedure

1. Shut off the carrier and actuation gas supply.
2. Disconnect the actuation gas tubing from the tee fitting and analyzer manifold as shown in [Figure 3-2](#). Note that the tee fitting may be positioned differently in the original installation.
3. Screw the cap plug ([Figure 3-2](#), Item A) onto the tee fitting where the actuation gas tubing was attached. If the analyzer is in a factory supplied enclosure proceed with [Step 4](#), [Step 5](#) and [Step 6](#). Otherwise skip to [Step 7](#).
4. If the analyzer is in a factory supplied enclosure, drill another hole through the enclosure to install a bulkhead fitting for the actuation gas supply. The gas line bulkhead fittings are located on the lower left side of the enclosure. Drill a 29/64 in. diameter hole approximately 1 in. to 1½ in. horizontally from the forward bulkhead fitting as shown in [Figure 3-3](#). Install the bulkhead fitting ([Table 3-1](#), Item G).
5. Cut a length of ¼ in. tubing (Item F) sufficient to extend from the actuation gas manifold inlet to the bulkhead fitting. A tubing nut and front and rear ferrules ([Table 3-1](#), Items C, D and E) are required to connect the tubing to the manifold. The bulkhead union includes the nut and ferrules.
6. Trim the remaining unused tubing to connect the other end of the bulkhead fitting to the actuation gas supply. A ¼ in. tube fitting with male ¼ NPT threads ([Figure 3-2](#), Item B) is commonly used to connect ¼ in. tubing to the actuation gas pressure regulator.
7. Cut a length of ¼ in. tubing ([Table 3-1](#), Item F) sufficient to extend from the actuation gas manifold inlet to the actuation gas supply. A tubing nut and front and rear ferrules ([Table 3-1](#), Items C, D and E) are required to connect the tubing to the manifold. A ¼ in. tube fitting with male ¼ NPT threads ([Table 3-1](#), Item B) is used to connect ¼ in. tubing to the actuation gas pressure regulator.
8. Open the carrier and actuation gas supplies and set the pressures as appropriate.

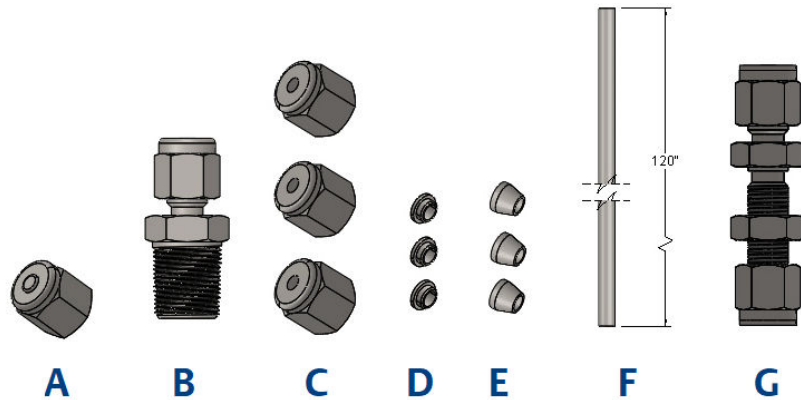
3 Ordering information

3.1 Carrier and actuation gas kit

Table 3-1: Gas Supply Separation Kit P/N 7A00215G01

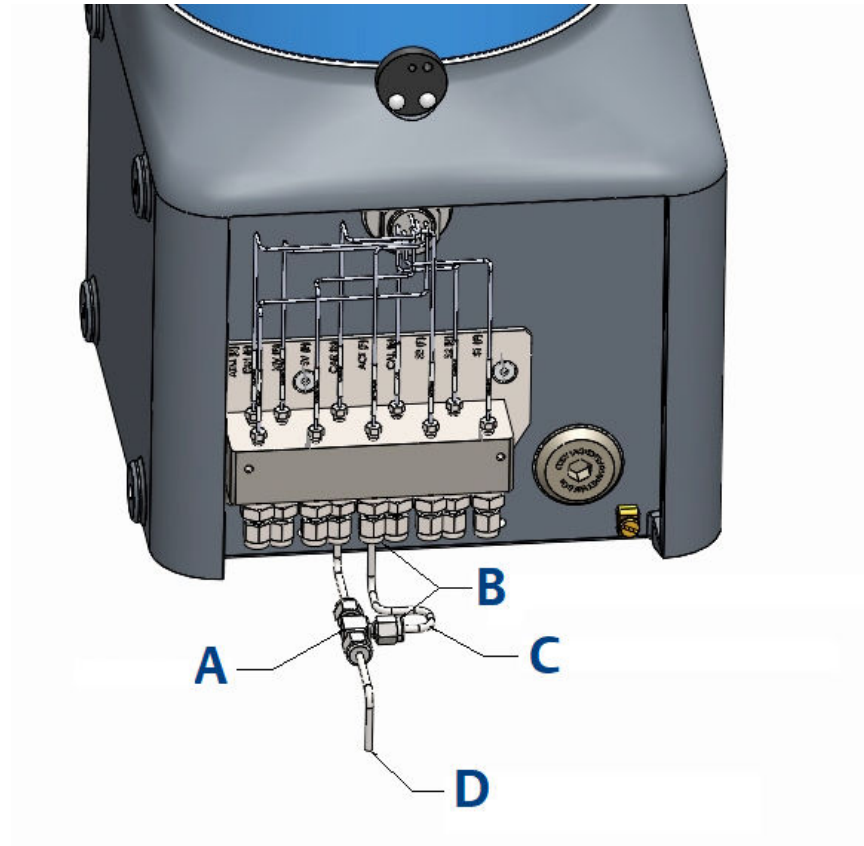
ITEM	QTY	PART NO.	DESCRIPTION	UNITS
A	1	2-4-4000-143	Cap Plug, 1/8 in. Tubing Connection	EA
B	1	2-4-9500-013	Connector, 1/8 in. MNPT X 1/8 in. Tubing	EA
C	3	2-4-9500-022	1/8 in. Tubing Nut, SST	EA
D	5	2-6-5000-336	Rear Ferrule, 1/8 in. Tubing	EA
E	5	2-6-5000-334	Front Ferrule, 1/8 in. Tubing	EA
F	10	2-6-5000-487	TUBING, 1/8 in. OD X .085 in. ID, 316 SS	FT
G	1	2-4-4000-119	Bulkhead Union, 1/8 in. SST Tubing	EA

Figure 3-1: Carrier and Actuation Gas Separation Kit - Table Items



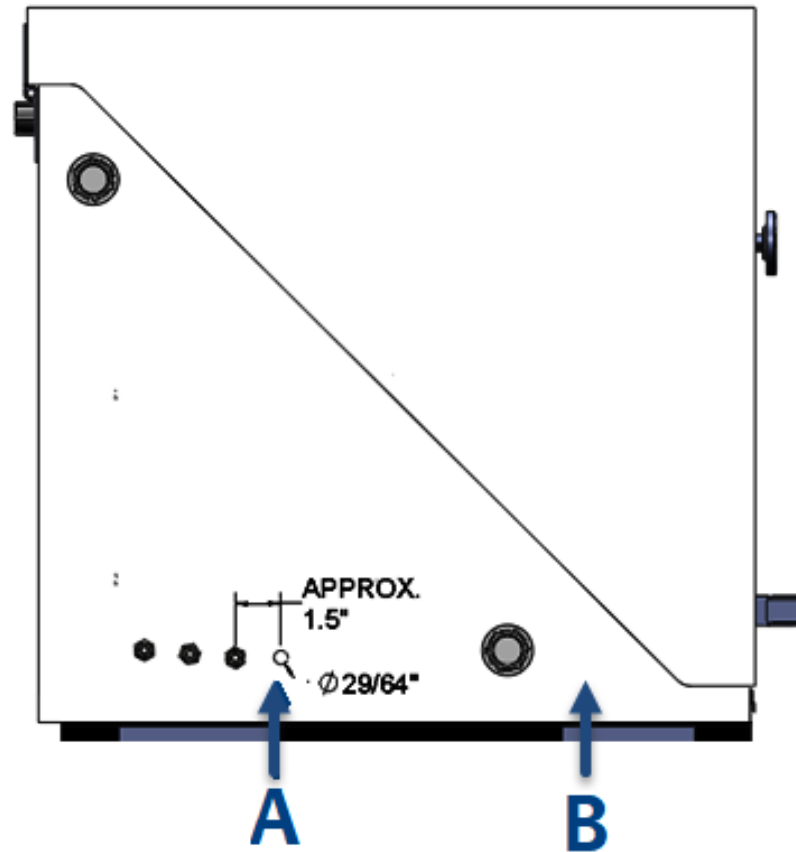
- A. Cap plug
- B. 1/8 in. tubing connector
- C. 1/8 in. tubing nut
- D. Rear ferrule
- E. Front ferrule
- F. SST tubing, 1/8 in. OD X .085 in. ID
- G. Bulkhead union

Figure 3-2: View of the Rosemount™ 370XA Inlet Gas Manifold



- A. Tee fitting
- B. Actuation gas tubing nuts
- C. Actuation gas tubing
- D. Common carrier and actuation gas supply

Figure 3-3: View of the Rosemount 370XA Actuation Bulkhead Connection



- A. Bulkhead fitting drilled hole
- B. Enclosure

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