

ITT Industries

AUTOMOTIVE
DEFENSE & ELECTRONICS
FLUID TECHNOLOGY

ITT CONOFLOW

Highway 78 P.O. Box 768
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Telephone: (803) 563-9281
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WARNING

Conoflow's products are designed and manufactured using materials and workmanship required to meet all applicable industry standards. The use of these products should be confined to services specified and/or recommended in the Conoflow catalogs, instructions or by Conoflow application engineers (i.e. exceeding pressure-temperature rating or using device for services other than those specified).

To avoid personal injury or equipment damage due to misuse or misapplication of a product, it is necessary to select the proper materials of construction and pressure-temperature ratings which are consistent with performance requirements.

INSTRUCTION AND MAINTENANCE MANUAL GH21F SERIES FIXED DIFFERENTIAL REGULATOR

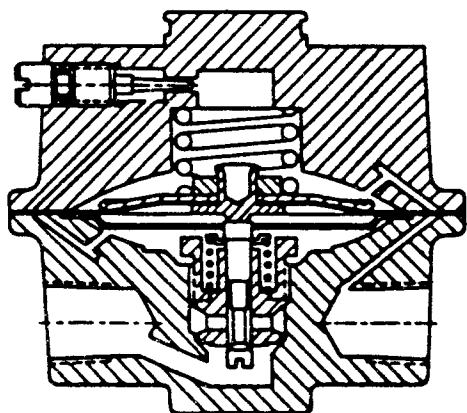
PRINCIPLE OF OPERATION

This unit maintains a 3 PSI(21 kPa) differential pressure but has an integral needle valve for flow rate adjustment. Typical application is with flowmeters without needle valves.

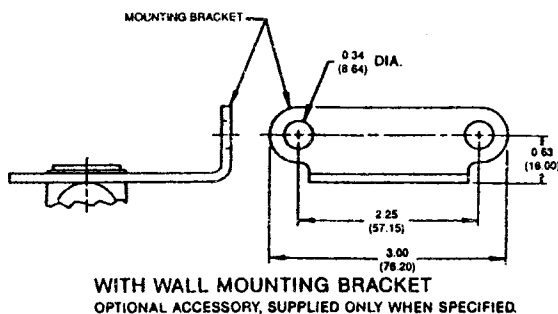
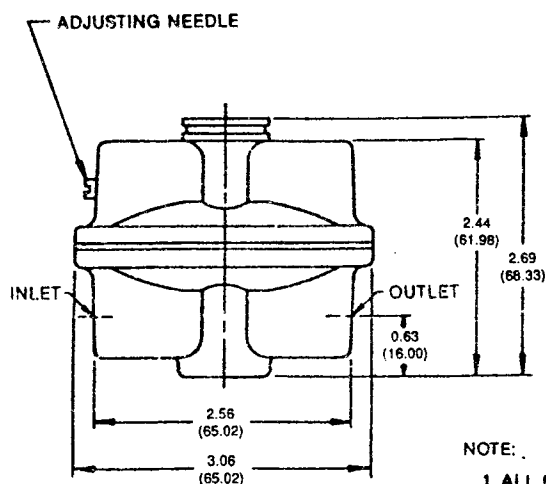
INSTALLATION

CAUTION: Maximum Supply Pressure is 200 PSI(1379 kPa). Unit has two 1/4" N.P.T. connections. The inlet connection is marked "IN". The outlet connection is piped to the instrument. **IT IS RECOMMENDED THAT A FILTERED AIR SUPPLY BE USED.**

Check all connections for leakage after installation.



DIMENSIONS



FOR CERTIFIED DIMENSIONAL DRAWING, REFER TO A17-7

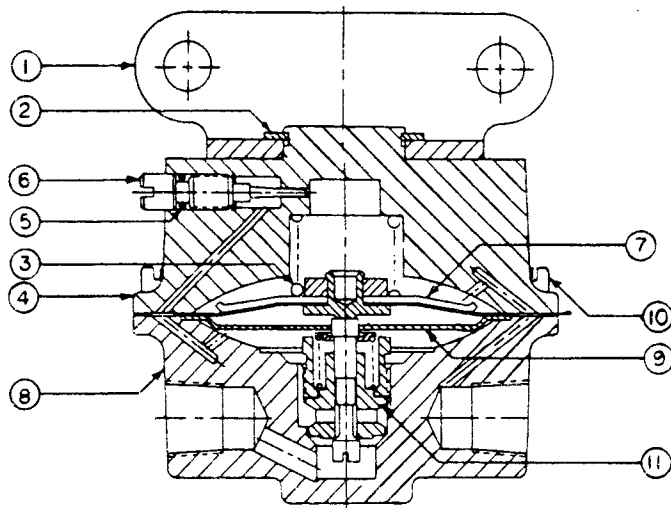
MAINTENANCE

Remove air supply pressure and bleed off output pressure prior to performing maintenance.

Periodic replacement of the diaphragm assembly and nozzle assembly is recommended for services where the unit is on stream continuously and where consistent, high accuracy regulation is required. The frequency of replacement will depend on the nature of the service, cleanliness of air, humidity of the air, etc.

To replace the diaphragm assembly (7), remove six screws (10) and lift off bonnet (4) and spring (3). Place new diaphragm assembly (7) over body with diaphragm plate up. Note position of port channels in the body and bonnet and line up port holes in diaphragm assembly in the same position. Place spring (3) on diaphragm assembly (7), re-install bonnet (4) and tighten six screws (10). The six screws (10) should be tightened alternately.

To replace the nozzle assembly (11) proceed as above, also removing baffle plate (9). Use a $\frac{5}{8}$ " socket wrench to remove and replace nozzle assembly to avoid damage to the nozzle. Nozzle assembly may be cleaned by immersion in a suitable solvent and blowing dry with air stream.



ITEM NO.	DESCRIPTION	QTY. REQ'D.	GH21FXXM ⁽²⁾
1	Bracket — Optional	1	6018014
2	Truarc Ring — Only Used w/Item 1	1	6076087
3	Spring (Yellow)	1	6017511
4	Bonnet	1	6020176
5 (1)	O-Ring	1	6076574
6	Needle Valve	1	6020184
7 (1)	Diaphragm Assembly	1	6018550
8	Body	1	6320766
9	Baffle Plate	1	6319115
10	Fill. Hd. Screws #8-32 x 3/8" Lg.	6	6900046
11	Nozzle Assembly	1	6347843

- NOTES:
1. Recommended Spare parts can be purchased individually or as a spare parts kit under number 6385332
Spare Parts Kit — GH21F
Consists of items 5 and 7.
 2. For definition of catalog number, refer to Sales Bulletin C-2006.
 3. When ordering spare parts, specify complete catalog no., item no. and part no. This will permit positive identification and rapid handling of order.

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WARNING: MANUFACTURED WITH (1, 1, 1-TRICHLOROETHANE), A SUBSTANCE WHICH HARMS PUBLIC HEALTH AND ENVIRONMENT BY DESTROYING OZONE IN THE UPPER ATMOSPHERE.

WARNING — TECHNICAL DATA SUBJECT TO EAR CONTROLS

This document contains technical data whose export is restricted by the Export Administration Act of 1979, as amended (Title 50, U.S.C., App. 2401, et seq.) Violation of this export control law is subject to severe criminal penalties.