

15K012 Pneumatic VFD/BPR Control

311606D
EN

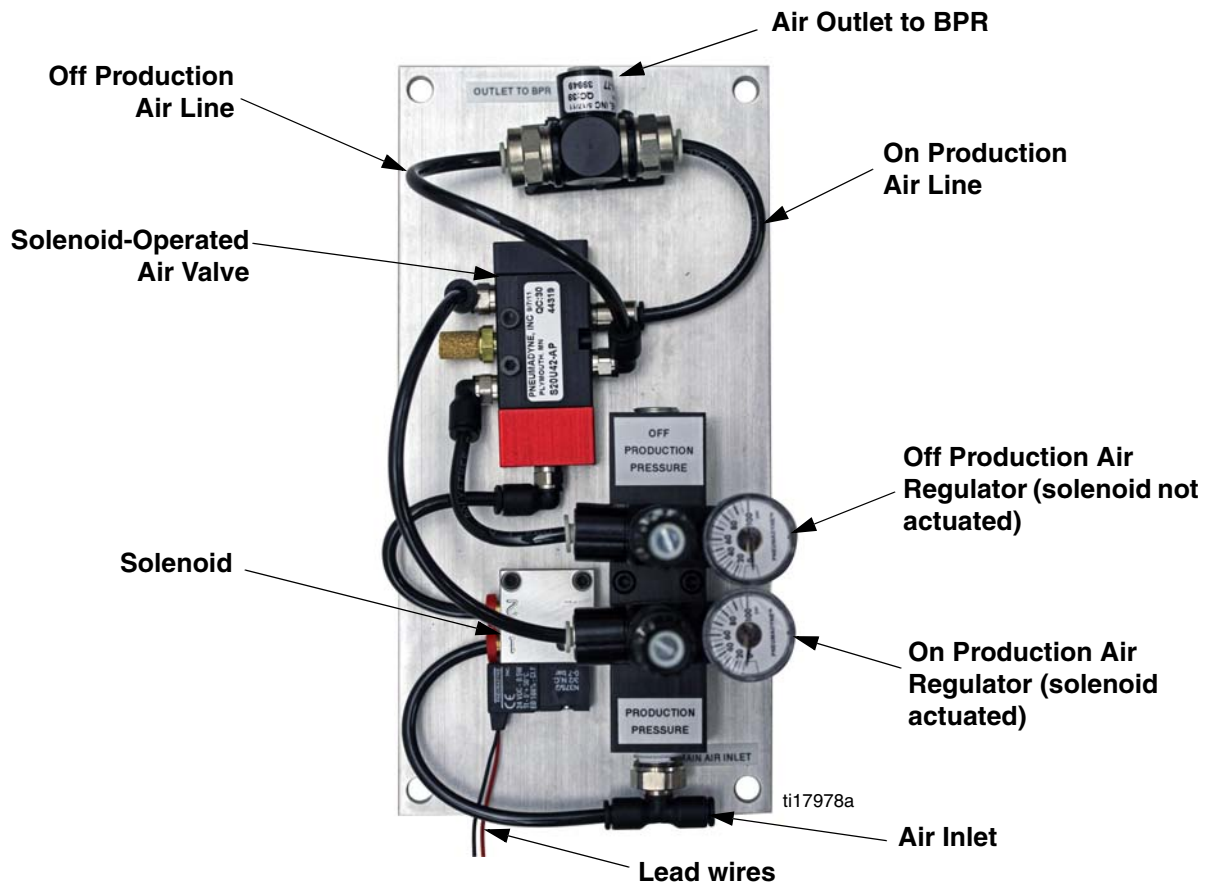
For control of a pneumatic back pressure regulator, using a Graco Variable Frequency Drive (VFD) or Advanced Control System (ACS) and E-Flo® Electric Circulation Pump.





Important Safety Instructions

Read all warnings and instructions in E-Flo Operation Manual 311593, Pneumatic Back Pressure Regulator Manual 311595, VFD Manual 311596, and ACS Manual (3A0006). Save these instructions.

See page 2 for **Installation** and **Operation** instructions.



Installation

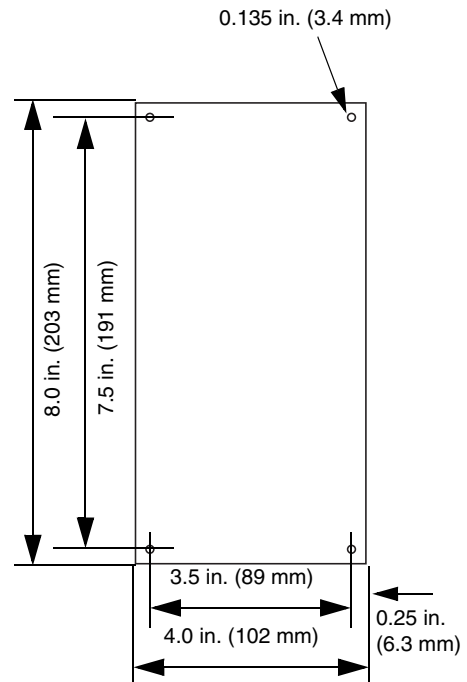
						
Do not install equipment approved only for non-hazardous locations in a hazardous area.						

See the illustration on page 1. The 15K012 Kit is a preassembled module which is not intended for use in a hazardous location. Install the kit in a non-hazardous area only. Mount the panel vertically to protect components from accumulation of air line contaminants and condensation. See the mounting hole detail.

Connect a 5/32 in. (4 mm) OD air supply line to the air inlet elbow. Plumb another 5/32 in. (4 mm) OD air line between the Outlet to BPR port and the back pressure regulator (BPR), which is located in the hazardous area.

Graco VFD: Connect one lead wire to Pin 26 on the VFD. Connect the other lead wire to Pin 21. See VFD manual 311596 for specific wiring details.

Graco ACS: Connect one lead wire to +24 Vdc power supply. Connect second lead to Terminal 18 of the ACS module. Connect Terminal 17 of ACS to 24 Vdc common of the power supply. See ACS manual 3A0006 for specific wiring details.



Operation

Adjust the air pressure regulator to provide desired system pressures in each operating mode. The kit supplies higher pressure air to the BPR in normal production mode, or lower pressure air in off production mode. The off production mode reduces energy use, paint shear, and pump/system wear during down times.

The kit allows operation with either solenoid activated or solenoid not activated in production mode. The solenoid (0.50 W, 24 Vdc, .020 A) is actuated or deactuated by a 24 Vdc input/output signal from the VFD or ACS. When actuated, the solenoid supplies higher air pressure to the BPR to support production requirements. When the solenoid is not actuated, lower air pressure is supplied to the BPR, reducing the system pressure maintained by the BPR.

Technical Data

Maximum Air Working Pressure	120 psi (0.8 MPa, 8.4 bar)
Voltage	24 Vdc
Air Porting Sizes	5/32 OD Tube (4 mm)
Cable Length	6 ft (2 m)
Weight	2.1 lb (0.95 kg)

Graco Information

For the latest information about Graco products, visit www.graco.com.

TO PLACE AN ORDER, contact your Graco distributor or call to identify the nearest distributor.

Phone: 612-623-6921 **or Toll Free:** 1-800-328-0211 **Fax:** 612-378-35

All written and visual data contained in this document reflects the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice.

Original instructions. This manual contains English. MM 311606

Graco Headquarters: Minneapolis

International Offices: Belgium, China, Japan, Korea

GRACO INC. AND SUBSIDIARIES • P.O. BOX 1441 • MINNEAPOLIS MN 55440-1441 • USA

Copyright 2007, Graco Inc. All Graco manufacturing locations are registered to ISO 9001.

www.graco.com
Revised 9/2011