

Air Over Oil Manifold Assembly

313848C ENG

- Uses one-way air injectors to inject air into individual valve lube outlet ports -

Model No.: 24B237 (3 sections), 24B239 (4 sections), 24B240 (5 sections), 24B241 (6 sections)

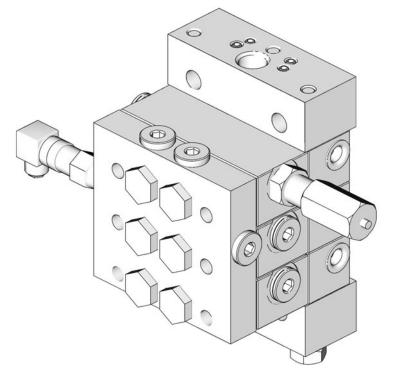
Models without Air Sensor: 24J814 (3 sections), 24J815 (4 sections), 24J816 (5 sections), 24J817 (6 sections)

Can be mounted to standard, Graco MSP Divider Valve. See instruction manual 312497.

250 psi (1.7 MPa, 17 bar) Maximum Air and Fluid Working Pressure



US Patent Pending



Model 24B237 shown attached to MSP Divider Valve

Warnings

The following warnings are for the setup, use, grounding, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbol refers to procedure-specific risk. Refer back to these warnings. Additional, product-specific warnings may be found throughout the body of this manual where applicable.

WARNING



PRESSURIZED EQUIPMENT HAZARD

Fluid from the gun/dispense valve, leaks, or ruptured components can splash in the eyes or on skin and cause serious injury.

- Follow **Pressure Relief Procedure** in this manual, when you stop spraying and before cleaning, checking, or servicing equipment.
- Tighten all fluid connections before operating the equipment.
- Check hoses, tubes, and couplings daily. Replace worn or damaged parts immediately.



EQUIPMENT MISUSE HAZARD

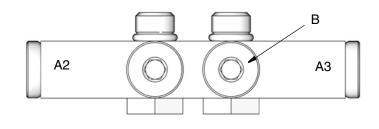
Misuse can cause death or serious injury.

- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See **Technical Data** in all equipment manuals.
- Do not leave the work area while equipment is energized or under pressure. Turn off all equipment and follow the **Pressure Relief Procedure** in this manual when equipment is not in use.
- Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only.
- Do not alter or modify equipment.
- Use equipment only for its intended purpose. Call your distributor for information.
- Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.
- Do not kink or over bend hoses or use hoses to pull equipment.
- Keep children and animals away from work area.
- Comply with all applicable safety regulations.

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Assembly Instructions

Refer to Fig. 1 and Fig. 2.



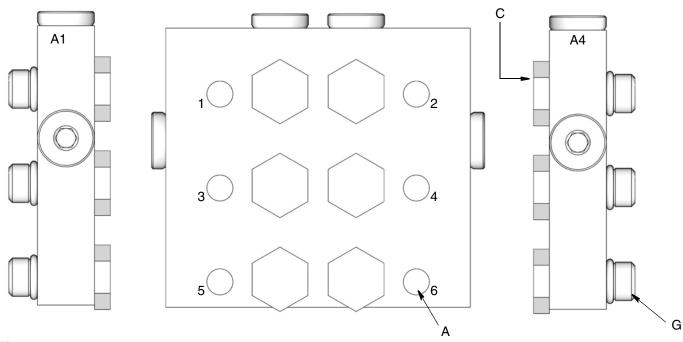
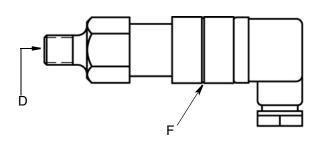


Fig. 1

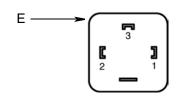


PIN Configuration

PIN 1 - COM

PIN 2 - Not Used

PIN 3 - Normally Open



Key

- A Valve mounting screw access port
- B Plug 1/8 NPSF (4 places) (Part No. 557776)
- C Injector kit (Part No. 24B246)
- D 1/8 NPT
- E DIN 43650A Connector
- F Air Pressure Sensor (sold separately, Part No. 122375)
- G O-ring (Part No. 111710)

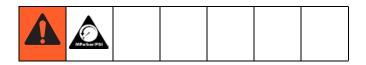
Torque Pattern - Torque to 8-9 ft. lbs (10.8-12.2 N.m)

1 - 6
2 - 5
3 - 4

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Installation Instructions

Pressure Relief Procedure



Follow this pressure relief procedure whenever you are instructed to relieve pressure or need to check or service equipment.

- Turn off power (air, electric, hydraulic) to lube supply pump.
- 2. Turn off air supply to air manifold.
- 3. Using a wrench, slowly loosen fluid inlet fitting.
- Using a wrench, slowly loosen each outlet port fitting.
- 5. Using a wrench, slowly loosen air inlet fitting.

Assembly Instructions

NOTE: The Air Over Oil Manifold is designed to mount to a standard Graco MSP divider valve. For instructions on how to use an MSP divider valve, refer to instruction manual 312497.

The Air Over Oil Manifold uses one-way air injectors to inject air into each of the individual divider valve lube outlet ports. Each air injector assembly is internally checked to prevent oil from entering the air supply system.

The Air Oil Valve does not utilize common porting between the lube outlets, therefore each outlet is both pneumatically and hydraulically independent.

An air pressure sensor is provided to monitor for any blockage or breaks in the air line.

The MSP divider valve can be used with a cycle indicator to monitor for proper oil lube cycles or blockage in any of the lubrication lines.

- Remove alternate outlet port plugs from divider valves.
- 2. Loosen valve mounting socket head cap screws.

 Place air over oil manifold over valves and hand tighten all air injectors to seat manifold on the valve stack. Then tighten air injectors with a wrench in a star pattern until all o-rings are seated in o-ring ports of valve and manifolds.

NOTE: The correct order is provided in chart on page 3.

- Using valve mounting screw access ports, torque all valve mounting socket head cap screws to 8 - 9 foot/pounds (10.8 - 12.2 N•m).
- 5. The air supply may be induced into manifold using available ports, A1, A2, A3, or A4.
- The air pressure sensor may be connected to any available port not connected to the air supply. This device warns of any blockage or breaks in the air line.

NOTE:

- Always use an air line filter of 40 micron or better to remove dirt and moisture from the compressed air supply.
- Install an air regulator to allow pressure adjustment.

Start Up Instructions

- System must be pre-filled with 100 psi (0.69 MPa, 6.9 bar) of air pressure. Once system is pre-filled and oil is being emitted from each distribution line, system air may be reduced to final operating pressures.
- Minimum operating air pressure is 45 psi (0.31 MPa, 3.1 bar).
- Air pressure sensors are factory set to 35 psi (0.24 MPa, 2.4 bar) (Models 24B237, 24B239, 24B240, 24B241 only).

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Technical Data

Maximum Air Working Pressure Maximum Fluid Working Pressure Lubricant Air Inlet Maximum Operating Temperature Material

Air Sensor

Air Connection
Electrical Connection

Maximum Pressure Fixed Setpoint Setpoint Direction Circuit Form Current Rating

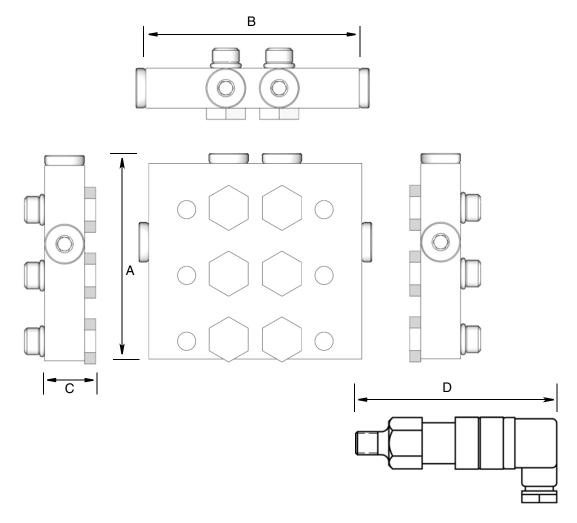
Diaphragm Material

250 psi (1.7 MPa, 17 bar) 250 psi (1.7 MPa, 17 bar) Oils up to ISO 460 (2500 sus) 1/8 NPT female 200° F (93° C) anodized aluminum, zinc plated steel, stainless steel, chrome alloy steel, fluorocarbon

1/8 NPT male
DIN43650A, PIN 1 - COM, PIN 2 - Not used,
PIN3 - Normally Open
250 psi (1.7 MPa, 17 bar)
35 psi (.24 MPa, 2.4 bar)
Falling
SPST-NO (below 35 psi)
5A @ 250 VAC
5A @ 30 VDC (resistive)

Buna-N

Dimensions



Model	Dimension A inch (mm)	Dimension B inch (mm)	Dimension C inch (mm)	Dimension D inch (mm)
24B237	2.89 (73.4)	3.00 (76.2)	.718 (18.2)	3.75 (95.3)
24B239	3.815 (96.9)	3.00 (76.2)	.718 (18.2)	3.75 (95.3)
24B240	4.74 (120.39)	3.00 (76.2)	.718 (18.2)	3.75 (95.3)
24B241	5.665 (143.89)	3.00 (76.2)	.718 (18.2)	3.75 (95.3)

Notes			

Graco Standard Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

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Phone: 612-623-6928 or Toll Free: 1-800-533-9655, Fax: 612-378-3590

All written and visual data contained in this document reflects the latest product information available at the time of publication.

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This manual contains English. MM 313848

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