

North American Ratiotrol™ for Low Impulse Air Pressure

Sheet 7053

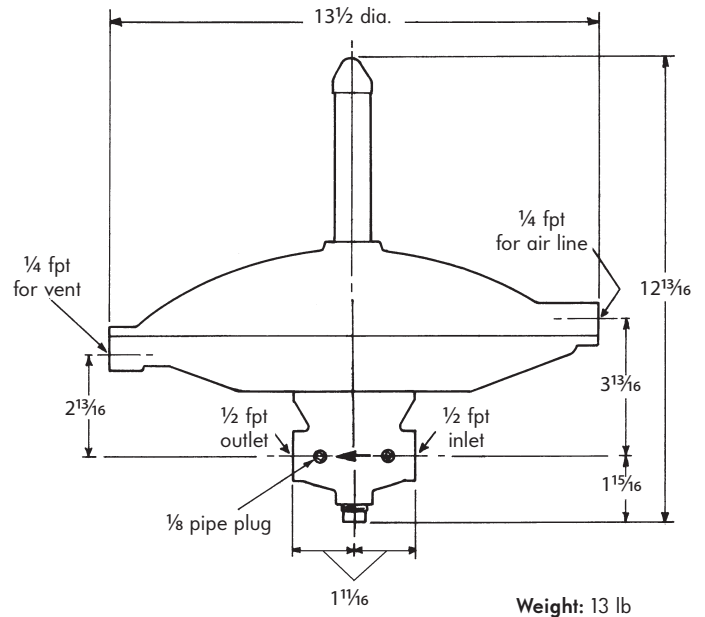
Ref: Bulletin 7052, Instr. & Parts List 7052-1

7053-01 Ratiotrol (formerly 1313-01) is a special 7052-01 Ratiotrol adapted to provide oil outlet pressures and capacities similar to the standard model but actuated with lower impulse air pressure. (For O-T-G Converter Systems, or jobs using 1113 or compressed air atomizers and low pressure combustion air.) The ratio of outlet oil pressure to impulse air pressure is approximately 40:1, instead of 10:1 as on the standard 7052-01. This means that adequate fuel flow levels can be maintained with much lower air impulse pressures throughout the entire burner turndown range.

7053-01 Ratiotrol requires 30 to 35 psig inlet oil pressure. Maximum air pressure to the Ratiotrol diaphragm (through the cross-connected impulse air line) is usually not above 8 psi; this pressure is sufficient to deliver an oil flow of 70 gallons per hour.

The standard 7053 Ratiotrol can be used with ambient temperatures up to 180°F. For temperatures up to 300°F (heavy oil) specify a 7053-01-V, which has Viton diaphragms and a Viton seal.

DIMENSIONS inches



7053-01-V Air: Order 2-6252-1 Diaphragm and Gasket Assembly.
Oil: Order (1) 2-6249-1 Diaphragm and Gasket Assembly, and (1) 2-2472-1 Oil Diaphragm.

7053-01-V Air: Order 2-6252-2 Diaphragm and Gasket Assembly.
Oil: Order (2) 2-2472-2 Oil Diaphragms and (1) 2-5650-2 gasket.

PARTS LIST (for parts not found on standard Parts List for 7052-01 Ratiotrol)

Air Diaphragm Case	2-2468-2
Air Diaphragm Cover	2-2469-1
Air Diaphragm Washer	2-2327-1
Compression Spring	2-2470-1
Seal (Viton)	2-2334-2
Shaft	2-2471-2

DIMENSIONS SHOWN ARE SUBJECT TO CHANGE. PLEASE OBTAIN CERTIFIED PRINTS FROM FIVES NORTH AMERICAN COMBUSTION, INC. IF SPACE LIMITATIONS OR OTHER CONSIDERATIONS MAKE EXACT DIMENSION(S) CRITICAL.

WARNING: Situations dangerous to personnel and property may exist with the operation and maintenance of any combustion equipment. The presence of fuels, oxidants, hot and cold combustion products, hot surfaces, electrical power in control and ignition circuits, etc., are inherent with any combustion application. Components in combustion systems may exceed 160°F (71°C) surface temperatures and present hot surface contact hazard. Fives North American Combustion, Inc. suggests the use of combustion systems that are in compliance with all Safety Codes, Standards, Regulations and Directives; and care in operation.

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