

Quick Exhaust Valve (Fastbrake®)



The 4000 Series Fastbrake quick exhaust valve enables vehicle OEM's to comply with brake timing regulations, enhances vehicle performance, and reduces installation time. The valves are made from durable zinc alloy die-castings, which provide excellent flow characteristics and ensure long life in the harsh back-of-cab environment.

The Fastbrake will speed up release of the trailer's service brakes (if installed in the service side glad hand) or speed up application of the trailer's parking brakes (if installed in the supply side glad hand).

Performance

Application	The Fastbrake valve was designed to be mounted at the tractor's glad-hand on heavy-duty truck air brake systems, in either the service or supply line.
Function	Provides a quick exhaust of the trailer brake pressure when pedal pressure is relaxed, thereby accelerating and coordinating trailer brakes with tractor brakes.
Forward Flow	At 70°F, the valve shall flow at least 9.0 SCFM with 2.0 PSIG applied to the trailer end of the valve with trailer end open to atmosphere.
Exhaust Flow	With 8.8 SCFM air flow applied to the trailer end, and the tractor end of the valve open to the atmosphere, the pressure at the trailer end shall be 2.0 PSIG max.
Leakage	At 5 and 125 PSIG air, the valve shall not leak more than 50 cc's per minute from the exhaust port and roll joint when tested by submersion in liquid.
By-pass Flow	With tractor end of valve at a constant pressure of 10 PSIG, the flow through the valve from the trailer side shall be 1.0 SCFM or more, with pressure differentials of 0.2 PSIG and 1.0 PSIG measured across the valve. The valve may actuate prior to obtaining 1.0 PSIG across the valve (flow requirement may not be achieved in this condition); this is acceptable performance.

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Minimum Pressure for Actuation With the trailer side of the valve attached to a 50 cubic inch volume, and the tractor side connected to a standard treadle valve by means of a standard coiled air brake hose with no other restrictions, the valve shall actuate (exhaust air to atmosphere) when treadle is released to its spring return position from an equilibrium pressure in the above system of 10 PSIG or greater.

GT Part Number 4000-XX (See drawings below and cross reference for product configuration.)

Drawings

