

	SURFACE VEHICLE RECOMMENDED PRACTICE	
	SAE	J1861 SEP2011
	Issued Reaffirmed	1994-08 2011-09
Superseding J1861 JAN2007		
Air Brake Valve Input-Output Characteristic Requirements		

RATIONALE

J1861 has been reaffirmed to comply with the SAE 5-Year Review Policy.

1. SCOPE

This SAE Recommended Practice establishes minimum tolerance requirements for pilot operated and mechanically actuated modulating type valves, and through type valves used in the service brake control system when tested in accordance with the test procedure outlined in SAE J1859. This document applies to the nominal input-output characteristics as specified by vehicle original equipment manufacturer and labeled by the valve manufacturer as outlined in SAE J1860. The tolerance requirements will include:

- a. Crack (opening) pressure or force. Crack pressure may be measured at the initial output pressure or as the pressure differential before output pressure exceeds 14 kPa (2 psi). Crack force may be measured at initial output pressure or before output pressure exceeds 14 kPa (2 psi).
- b. Pressure differential (input-output)

1.1 Purpose

This document establishes uniform tolerance requirements for specified nominal input-output characteristics of pneumatic valves designed to operate at 931 kPa (135 psi) nominal pressure in commercial air braked vehicles. This serves as a supplement to SAE J1410.

2. REFERENCES

2.1 Applicable Publications

The following publications form a part of this specification to the extent specified herein. The latest issue of SAE publications shall apply.

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