## **PneuDraulics, Inc. - Brake Metering Valves**

Brake Metering Valve (Gulfstream G450/G550)



Emergency/Park Brake Valve (Dassault 7X) Charlie Charlie Charles Charl Emergency/Park Brake Valve (Learjet 85)

Emergency/Park Brake Valve (Learjet 45) Emergency/Park Brake Valve (Bombardier Challenger 300, Bombardier Global Express) Dual Brake Metering Valve (Mitsubishi MRJ)



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## Brake Metering Component needs? PneuDraulics has the solution.

PneuDraulics is a recognized leader in the brake metering field, with many brake metering and emergency/park brake valve applications currently in use on regional and business jet platforms. Our innovative approach to these designs minimizes hysteresis and are available with low leakage for parking brake applications.

Available in single or dual versions with split manifolds for rip stop, these brake metering valves can be supplemented with other integral devices, such as thermal relief, position indication, pressure switch or transducers and wheel de-spin functionality. Automated, computerized acceptance testing is used on all brake metering applications to assure high quality and consistency of each delivered component. For over 55 years PneuDraulics has been providing cost-effective solutions to the aerospace industry and our products are used today on aircraft on every continent around the world, in all classes of aircraft: military, commercial, cargo, general aviation, regional, helicopters, business jets, and spacecraft.

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Actual Data of Stroke vs. Lever Force and Hysteresis Source: Gulfstream G450/G550 Brake Metering Valve

## TYPICAL QUALIFICATION REQUIREMENTS

Operating Pressure: 3000 psig Proof Pressure 4500 psig Burst Pressure: 7500 psig Endurance: 200,000 cycles Impulse: 100,000 cycles, 0-4500-0 psig Altitude: RTCA/DO-160F. Sec. 4. Cat. F2 High Temperature: RTCA/DO-160F, Sec. 4, Cat. F2 +275°F Fluid & Ambient RTCA/DO-160F, Sec. 4, Cat. F2 Low Temperature: -67° Fluid & Ambient RTCA/DO-160F, Sec. 5, Cat. A Temperature Variation:

Humidity: Shock: Vibration: Explosive Atmosphere: Waterproofness: Fluid Susceptibility: Sand and Dust: Fungus Resistance: Salt Fog: Icing RTCA/DO-160F, Sec. 6, Cat. B RTCA/DO-160F, Sec. 7, Cat. B RTCA/DO-160F, Sec. 7, Cat. B RTCA/DO-160F, Sec. 9, Cat. S & H RTCA/DO-160F, Sec. 10, Cat. S RTCA/DO-160F, Sec. 11, Cat. F RTCA/DO-160F, Sec. 12, Cat. S RTCA/DO-160F, Sec. 13, Cat. F RTCA/DO-160F, Sec. 14, Cat. S RTCA/DO-160F, Sec. 24, Cat. A