



Direct Acting High-Speed Servo Valve

Product code: DA

Manufacturer: Santest

Santest offers the new **DA Series** of "**High Speed Servo Valves**" for hydraulic and pneumatic applications, employing "**Dual Halbach Magnet Array**" which reinforces magnetic tandem. As a result, the higher response and surpassing anti-contamination characteristics can be obtained.

Dual Halbach Magnet Array

A **voice coil** of tandem differential configuration is inserted in the annular space of "**Dual Halbach Magnet Array**" and a **spool** is so fixed at the end of coil that it may move axially and freely together. When current is supplied in intensified magnetic fields, the **voice coil** itself generates strong thrust force and moves together with spool in an axial direction.

Detecting magnets

Also, **detecting magnets** are installed at the other end of spool in such a way that Hall element may detect **positional signal** and sending coil may directly detect velocity signal of the spool. Therefore, a very stable **feedback system** can be achieved.

Dynamic characteristics

- Step response: 1.5msec (0 ⇔ 100%)
- Frequency response
- Gain -3dB: 630Hz (command signal: ±25%)
- Phase -90°: 490Hz (command signal: ±25%)
- Contamination Level: NAS1638 Class 10



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IP Index	IP65
Max pressure	35MPa
Response Time	1.2msec - 1.5msec - 1.6msec
Vibration	10G (all-in-one) / 20G (separated amplifier type)