

Valve Characteristics – from Test Bench to Application

Hydraulics in tomorrow's digitalized world



Rapid and precise commissioning

Our Data. Your Success.

Many of today's machine functions require precise and coordinated activation of hydraulic valves. The calibration that this needs is usually performed manually. But without knowing the valve characteristics, you can only do this to a limited extent. By supplying specific test-bench data, Bucher Hydraulics is driving digitalization of commissioning processes and service deployments for customers.

Customers benefit from consistently high valve precision in their applications and from rapid and reliable calibration and commissioning.

Automatic calibration provides consistently high product quality, irrespective of the workforce's professional experience.



Personnel protection during commissioning improves as no protective barriers need to be bypassed.



Highly precise machine movements facilitate fully and partially automated workflows.



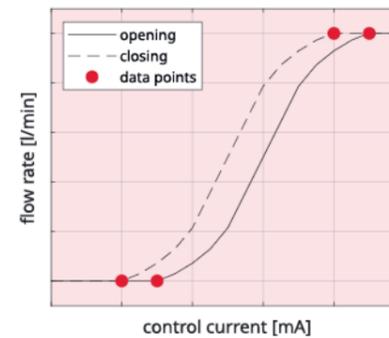
Reduced production times and faster work cycles cut costs.



Available products variants:

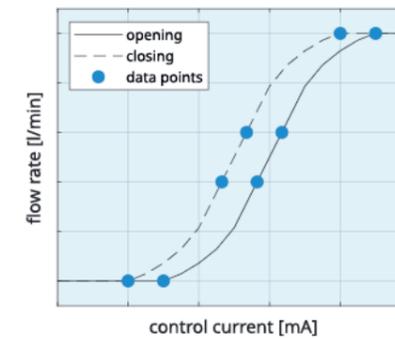
Bronze

The characteristics' start and end points allow users to control a function with precision.



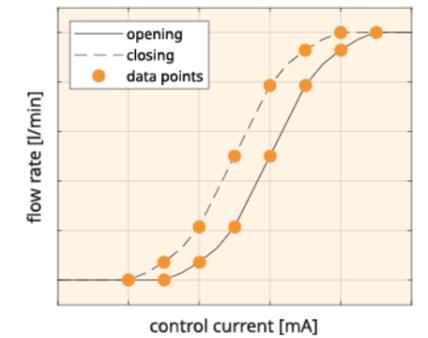
Silver

Discreet data points along the characteristics are frequently desired for rotating actuators.



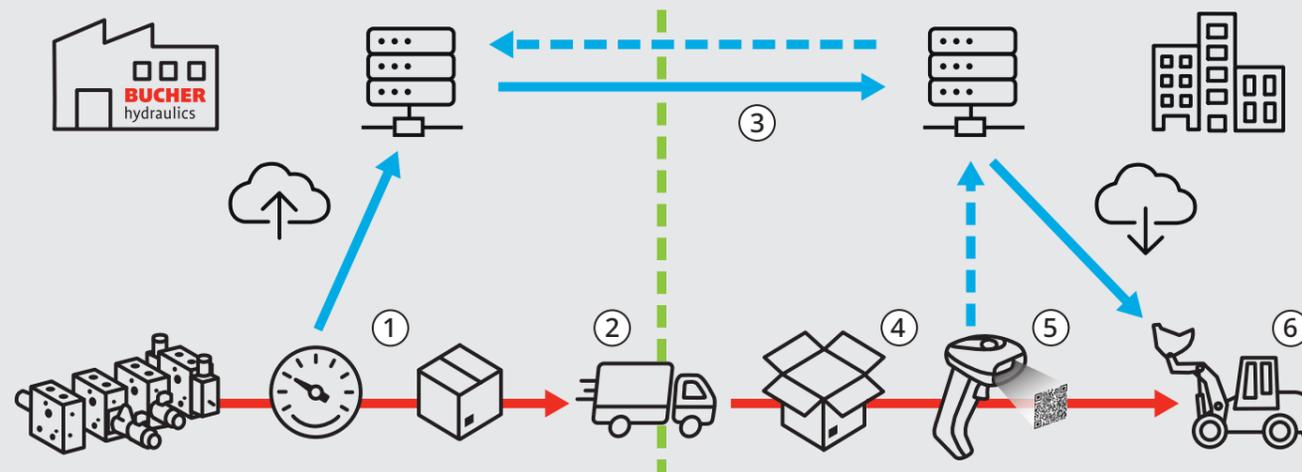
Gold

The full characteristics let you exploit an automated function to the full.



Data Transfer – Process illustration

- ① Following function and leak testing, the valve characteristics are measured based on customer requirements.
- ② Valves are not cleared for delivery until the measurement data have been recorded and validated.
- ③ Valve characteristics data transfer prioritizes server-to-server infrastructure between Bucher Hydraulics and the customer.



- ④ Because of the time between testing and physical delivery, customers are guaranteed to have the data they need at the production line exactly when they need it.
- ⑤ The serial number included in the DataMatrix Code on the valve ties characteristics to valves.
- ⑥ This is the point of handover to the customer—simply transfer the valve characteristics to your control units to use them in your application.

Smart Solutions. Superior Support.®

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