

January 2017

WORLD CLASS PRODUCTS FOR THE HIGHEST MACHINE PRODUCTIVITY



MOOG WORLD CLASS ELECTRO-HYDRAULIC PRODUCTS

Moog offers an extensive product range of Servo and Proportional Valves specifically designed for precise control of position, velocity and force.

SERVO VALVES

SERIES

Rated Flow @ Δp 70 bar (1,000 psi)

Maximum operating pressure (bar)

100% Step Response @ 210 bar (3,000 psi)

Moog Servo Valves at a glance



30, 771 to 773, 631, 760, 761, 72, 78, 79-100, 79-200

From 0.95 to 757 l/min

From 210 to 350

From 3 to 40 ms

- Pilot operated with low friction double nozzle pilot stage with high resolution and low hysteresis
- Mechanical position feedback without onboard electronics



D633, D634, D636, D637, D638, D639

From 5 to 100 l/min

350

From 8 to 20 ms

- Direct Drive Valves with Linear Force Motor
- Analog or digital onboard electronics
- Optional fieldbus interface, pressure or axis control functionality



D765, D661, D671, D672, D791, D792

From 4 to 1,000 l/min

From 315 to 350

From 3 to 19 ms

- 2- and 3-stage pilot operated valves with ServoJet or nozzle flapper pilot
- Analog or digital onboard electronics
- Optional fieldbus interface, pressure or axis control functionality

Advantages

- High wear-resistance and durability
- Robust and proven track record in broad range of industries
- Convenient selection and configuration of valves to suit the application
- Easy integration into the hydraulic system using standard interfaces
- High accuracy and repeatability for demanding applications
- Fail-safe and explosion proof versions available

PROPORTIONAL VALVES

SERIES

Rated Flow @ Δp 10 bar (145 psi)

Maximum operating pressure (bar)

100% Step Response @ 210 bar (3,000 psi)

Moog Proportional Valves at a glance



D634, D637, D639

From 24 to 60 l/min

350

From 20 to 25 ms

- Direct Drive Valves with Linear Force Motor
- Analog or digital onboard electronics
- Optional fieldbus interface, pressure or axis control functionality



D661 to D665, D681 to D685

From 30 to 1,500 l/min

350

From 9 to 48 ms

- 2- and 3-stage pilot operated valves with ServoJet or Direct Drive Valve pilot
- Analog onboard electronics



D671 to D675, D941 to D945

From 30 to 1,500 l/min

350

From 10 to 44 ms

- 2-and 3- stage pilot operated valves with ServoJet or Direct Drive Valve pilot
- Digital onboard electronics
- Optional fieldbus interface, pressure or axis control functionality

Advantages

- Numerous models with a range of sizes, performance characteristics and mounting options available
- Flow-optimized design for high rated flows
- Fast commissioning of digital products using Moog Valve and Pump Configuration Software (MoVaPuCo)
- Fail-safe and explosion proof versions available

SERVO AND PROPORTIONAL VALVE ACCESSORIES



G040-125A Portable Valve Tester

- Capable of testing all Moog Industrial Valves
- Connect between plant electronics and Valve for easy troubleshooting



G122-829A Proportional & Integral (PI) Servo Amplifier

 General purpose Servo Amplifier for applications needing closed-loop control



G123-825 Buffer Amplifier

- Used to interface between the output of PLC and Moog Valves
- Commonly paired with Mechanical Feedback Valves



G123-817 LVDT Oscillator Demodulator

- Used with an LVDT to convert a transducer's position to a voltage or current output
- Commonly paired with -079 Series Valves

These are a few of our most popular accessories. For our full offering visit: www.moog.com

INDUSTRIAL CARTRIDGE VALVES

Moog offers a broad product range of cartridges and cartridge valves for directional, pressure, check and throttle functions.

Advantages Compact manifold design for high flows by using cartridges DIRECTIONAL, PRESSURE High robustness and AND CHECK CARTRIDGES reliability SERVO AND PROPORTIONAL INCLUDING COVERS AND High flexibility through **SERIES** PILOT VALVES **ACTIVE CARTRIDGE VALVES CARTRIDGE VALVES** modular design From 130 to 10,500 l/min From 100 to 12,000 l/min From 33 to 20,550 l/min Rated Flow @ Δp 5 bar (75 psi) Maximum operating pressure (bar) From 350 to 420 350 From 210 to 420 • 2- and 3-way throttle Moog Cartridge Valves Modular set of building Actively operated for fast at a glance blocks to cover a wide and accurate switching control variety of functions and Optional position • Different performance and applications monitoring for safety fail-safe options available applications

RADIAL PISTON PUMPS

Moog Radial Piston Pump (RKP) is a variable displacement piston pump, available in various sizes (from 19 to 250 cm³ per revolution) and offers a highly dynamic control of pressure, flow and horsepower in industrial applications.



MOTION AND MACHINE CONTROLLERS

Moog offers a wide range of Machine and Motion Controllers and Software to meet your specific needs.

effortless implementation into new systems



- Designed to perform in harsh environments
- Resistant against various aggressive fluids

PROFESSIONAL SERVICES TAILORED TO YOUR UNIQUE NEEDS

Moog Global Support is our promise to help maintenance professionals worldwide maximize uptime and get more from your machine investment. We are your trusted service partner for responsive support and motion control know-how.



FACTORY REPAIR

Ensure "like-new" performance in your machine

Moog's factory repair services deliver less unplanned downtime

Minimize risk of poor repair by non-authorized repair facilities with no access to authentic Moog parts, product specifications, valve test parameters or upgrades

Gain expertise—and warranty protection—available only from the OEM



LONG-LIFE RETROFITS/UPGRADES

Take advantage of long-life replacements for motion control products to achieve better productivity

Improve the quality and performance of underperforming machines with retrofit components that incorporate the latest technology upgrades

Work with Moog technical experts who can recommend a course of action to add extra reliability to your operations



HANDS-ON TRAINING

Get hands-on training from Moog trainers using Moog equipment in our facilities or on-site at yours

Learn how to effectively manage installation and troubleshooting on your own

Speed up repair and maintenance in order to maximize uptime



OEM REPLACEMENT PRODUCTS

Moog is the only provider of OEM replacement products/spares

Ensure industry-leading performance in vour machine

Take advantage of global availability of spare parts when you need them

Secure guaranteed turnaround on parts with flexible product exchange programs designed for peace of mind



PROFESSIONAL FIELD SERVICE

Reduce risk and keep machines up and running faster with expert support

Supplement your staff with expert professionals who know your applications

Benefit from less downtime and access to original drawings and documentation

Available in person, online, over the phone and via remote diagnostic tools



FLEXIBLE SERVICE AGREEMENTS

Shift from unplanned "break and fix" approach to planned maintenance that will minimize risk of failure

Tailor a flexible and bundled program that focuses on your operating challenges

Reduce your total cost of ownership while taking a proactive approach to O&M services



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