OVERVIEW SERVO VALVE RANGE

FOR HIGH PERFORMANCE APPLICATIONS WHERE SIZE AND WEIGHT MATTERS SUCH AS TECHNOLOGY FOCUSSED SPORTS TO TRADITIONAL HEAVY INDUSTRY AND APPLICATIONS REQUIRING INTRINSICALLY SAFE OPTIONS

A CLEAR DIFFERENCE YOU CAN SEE

Moog has built a reputation for engineering world-class products. Ensuring these products continue to deliver unsurpassed performance and productivity is the role of Moog Factory Repair.

Here are a few real-world examples that showcase how critical the right service and support can be.

Authentic Moog Replacement Parts

The Unauthorised Repair House (URH) repair on the left suffered from internal leakage 9 times the Moog specification. The Moog Factory Repair on the right was brought back to "As New" performance with an authentic Moog replacement spool piece, delivering higher pressure gain and precise flow control.

Servo Valve Repair

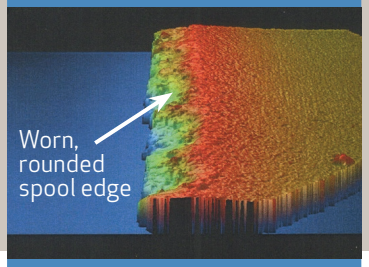
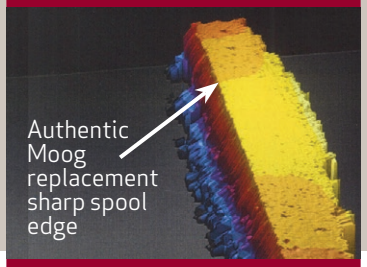
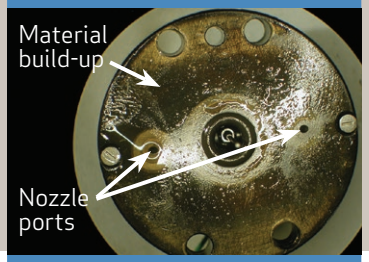
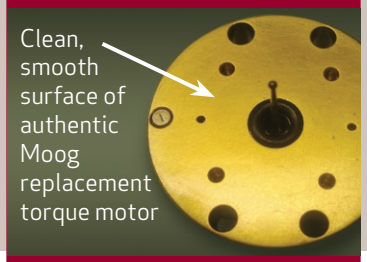
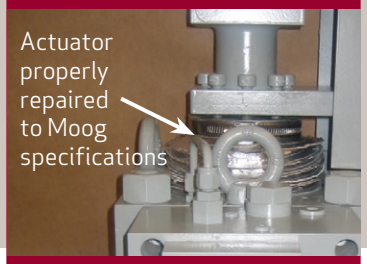
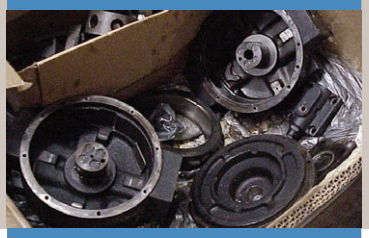
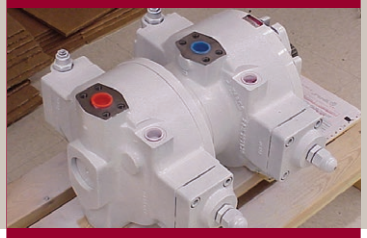
As Unauthorised Repair Houses do not have access to authentic Moog parts, the quality of the repair may be limited to the effectiveness of their cleaning process. The valve on the left was cleaned by the URH. Material build-up can break free, prematurely clogging the small orifices shown in this photograph. Moog would replace the component as shown on the right.

Actuator Repair

Moog is the OEM supplier of actuators for many turbine engine manufacturers. We are uniquely qualified to perform repairs and overhauls during power plant outages. Incorrect assembly and material selection as shown on the left will lead to unplanned downtime and lost profits.

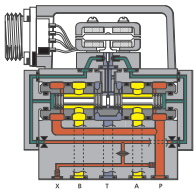
Pump Repair

Unable to repair the RKP pump pictured on the left, the URH returned the pump to the customer disassembled. The same pump is pictured at right after a Moog Factory Repair to "As New" performance and painted in accordance with custom customer specifications.

UNAUTHORISED REPAIR HOUSE	MOOG FACTORY REPAIR
	
	
	
BEFORE	AFTER
	

VALVE TYPES EXPLAINED

MECHANICAL FEEDBACK (MFB)



- Robust construction for use in extreme environments
- Suitable for use in high temp/ high shock environments
- Very high response valve options available
- Intrinsically Safe Atex Approved Options
- Simple integration and commissioning

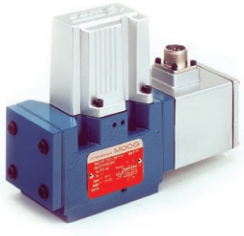
Nozzle Flapper Pilot

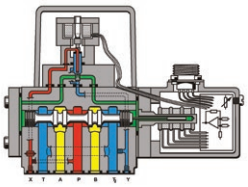
G631, G761, G771,
G772, G773
72
79-100
79-200
72, 730. 78, 728

Small Package and Miniature

E024, 30, 31, 32, E242-200

ELECTRICAL FEEDBACK (EFB)





- Inherently high resolution for extreme accuracy requirements
- Integral Diagnostic function
- High flow valve options available
- Exd Atex approved options
- Directly Accommodates common PLC command signals

Servojet

D660
D661
D662
D663
D664
D665

DDV pilot

D681
D682
D683
D684
D685

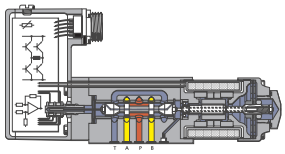
Nozzle Flapper

D765
D791
D792

Proportional Solonoid

D926
D936

DIRECT DRIVE VALVE (DDV)



- Inherently high resolution for extreme accuracy requirements
- High Force Linear motor technology provide greater energy efficiency
- Operates down to zero supply pressure
- Analogue Pressure control technology option
- Simple onboard diagnostics

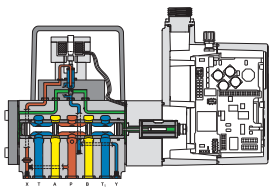
Flow control

D633
D634
D636
D637

Pressure Control (PQ)

D638
D639
D941

DIGITAL (DCV) AND AXIS (ACV) CONTROL VALVE



- Integrate Digital Electronics with fieldbus technology
- Sophisticated diagnostic software and error handling capabilities
- Software configurable valve function
- Simplifies multi-axis system communications
- Integrated "System" closed loop controller (ACV)

Flow Control

D636
D637
D671
D672
D673
D674
D675

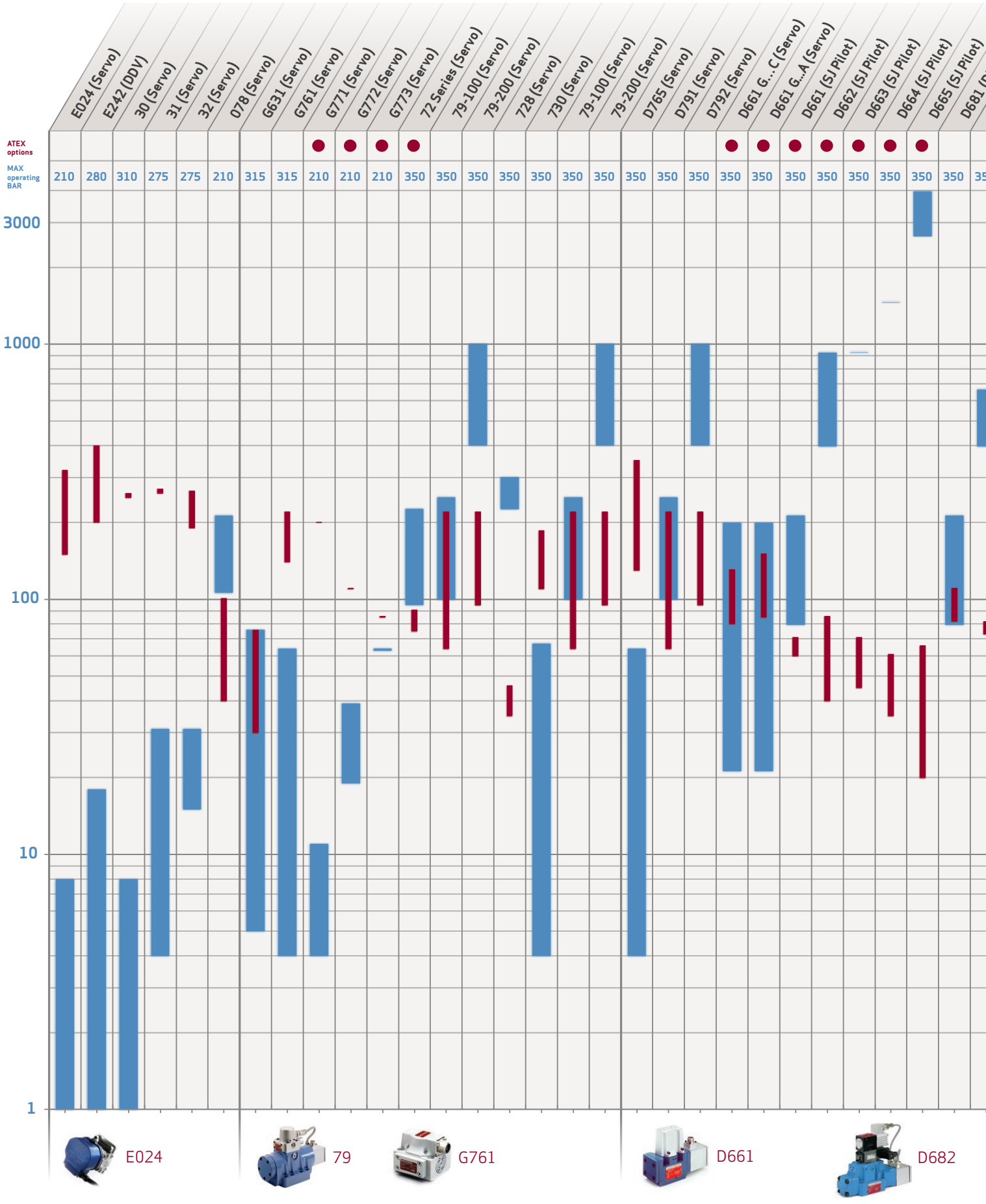
Servojet

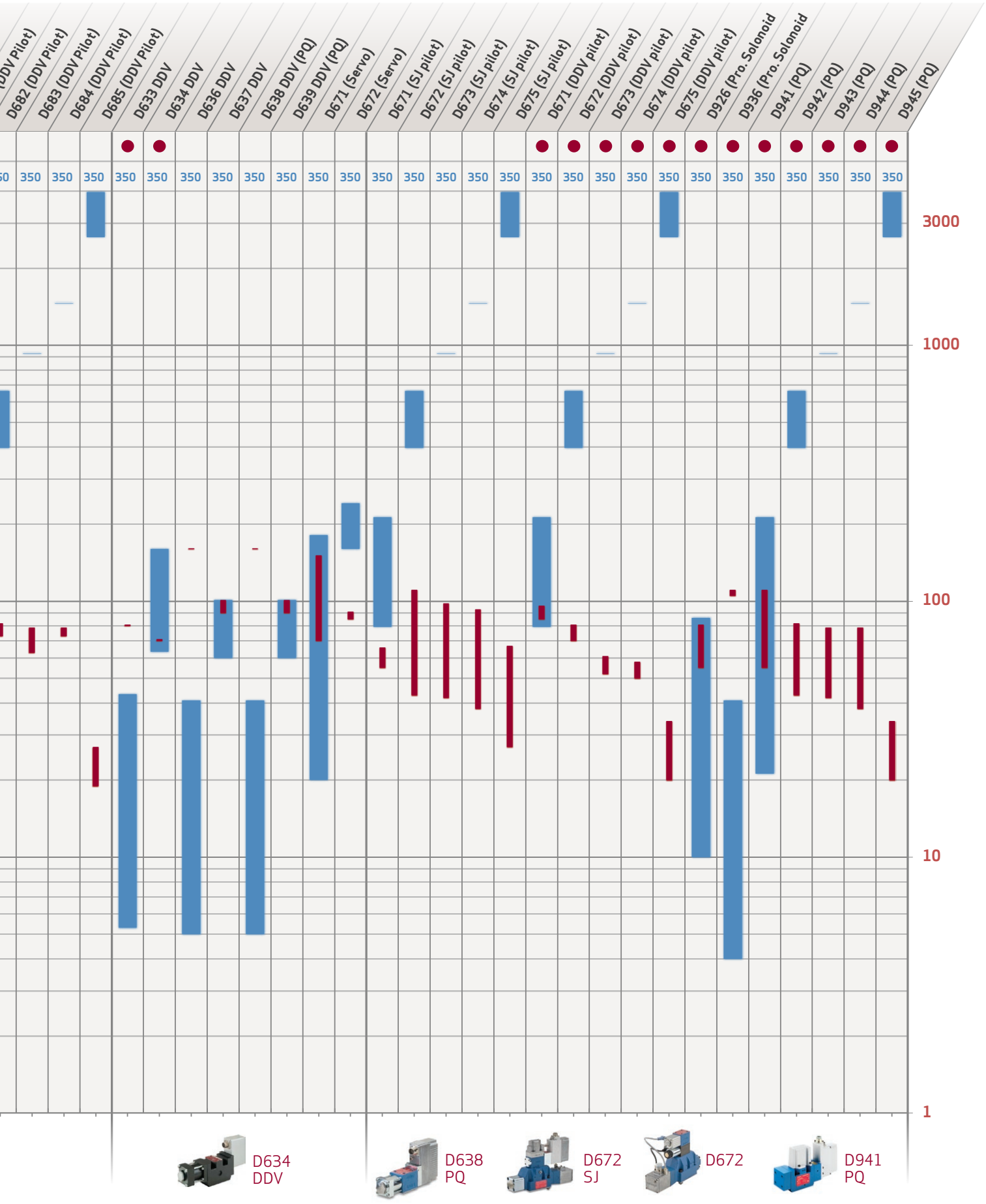
D671
D672

Pressure Control (PQ)

D638
D639
D941
D942
D943
D944
D945

MOOG VALVE TYPES EXPLAINED





1. Selection of the optimum valve involves understanding the performance requirements of your applications. Broadly, this comprises of two parameters:
2. The system power requirement which relates broadly to the maximum rated flow of the valve (blue bars)
3. The required system dynamics which correspond closely to the small signal frequency response of the valve (red bars)

TALK TO MOOG TODAY

Moog offers a wide range of motion control products and systems incorporating a wide variety of world-class electric and hydraulic components.

- Customised Actuators (Electric and Hydraulic)
- Ball Screws and Roller Screws
- Integrated Hydraulic Systems
- Miniature Actuation Products and Systems
- Servo and Machine Motion Controllers
- RKP-II Radial Piston Pumps
- Servo Drives
- Servo Motors
- Slip Rings
- Simulation and Test Systems
- Test Controllers

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This technical data is based on current available information and is subject to change at any time by Moog. Specifications for specific systems or applications may vary.

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