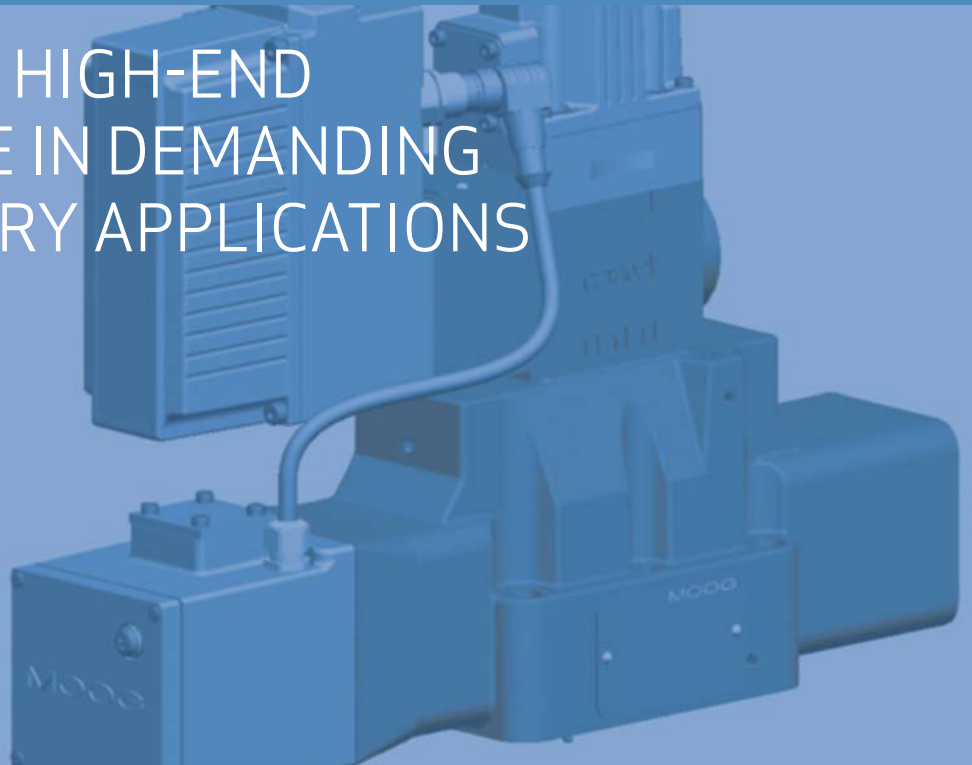


THE MOOG D672 DIGITAL SERVOVALVE

DESIGNED FOR HIGH-END
PERFORMANCE IN DEMANDING
HEAVY INDUSTRY APPLICATIONS



The Moog D672 Servovalve represents a great leap forward in valve design and performance. Ideally suited for reliable, consistent operation in harsh environments such as in steel mills or on wind turbines, these servovalves are the result of Moog's extensive experience in the field, and ability to apply innovative research and design to meeting today's toughest customer challenges.

The successor to Moog's popular D791 design, the next-generation D672 Servovalve incorporates a three-stage size NG 16 servovalve featuring electrical feedback for the main stage and an NG06 pilot valve with a ServoJet™ pilot stage. Digital valve electronics for closed-loop control of the pilot and main stage are incorporated into the pilot valve. The flow characteristic curve can be modified by the user to suit their specific application.

To ensure durability and dirt resistance, both the pilot valve and main stage feature a spheroidal-graphite cast iron valve body and a spool/bushing unit made from hardened steel. Long service life complying with the requirements of ISO 4406: 19/16/13 is also achieved by eliminating the o-ring inside the valve body.

The challenges

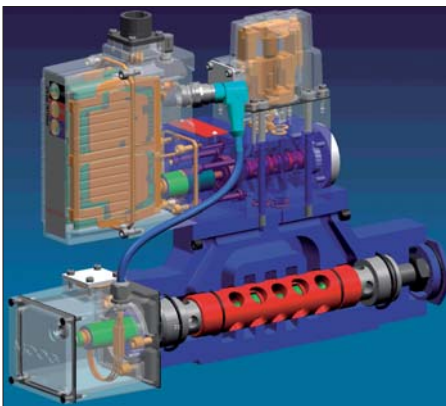
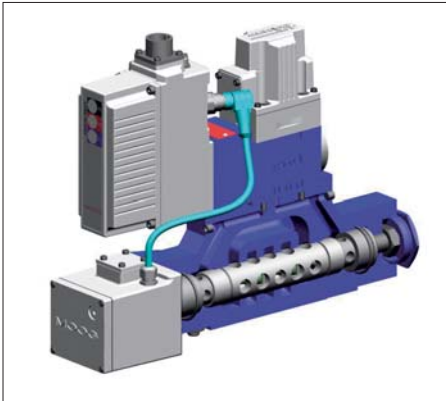
- Delivering contamination-resistant performance in harsh operating conditions such as steel mills
- Ensuring trouble-free reliability and a long service life
- Providing simple adaptation of the characteristic curve for suitability with unique applications
- Maximizing machine uptime and lowering maintenance costs

Our solution

The Moog D672 Servovalve answers the need for a robust, contamination-resistant product that offers the user complete control of valve flow characteristics via integrated electronics.

For tough industrial applications, the D672 provides long service life with a high degree of customized performance.

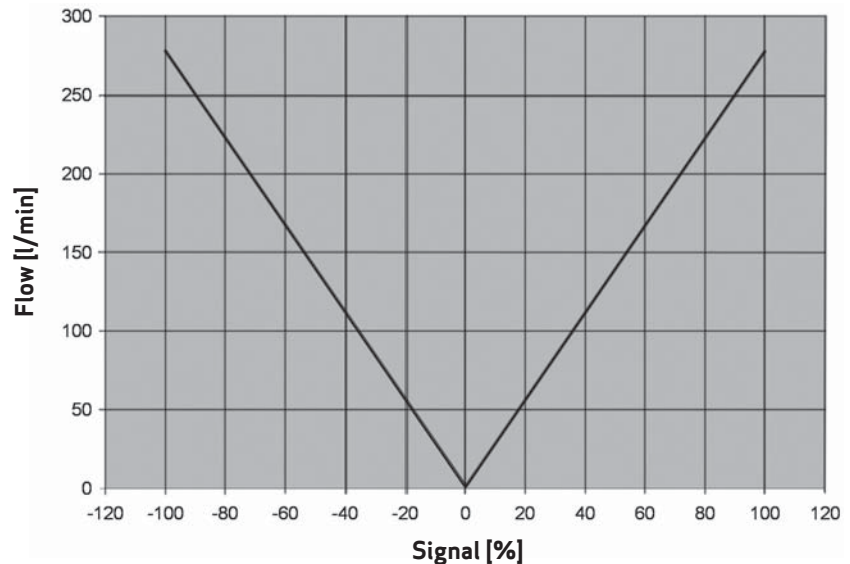
Today, more than five decades after introducing the world's first commercially-viable servovalve, Moog continues to set new standards in industrial servovalve performance. Our design engineers work collaboratively with customers, providing the guidance, support and expertise they need to overcome their toughest challenges and move the ideas forward.



TECHNICAL DATA SERVOVALVE D672

MODEL...TYPE			D672 SERVOVALVE
MOUNTING PATTERN			ISO 4401-07-07-0-02
VALVE VERSION			4-way
			3- stage with bushing
PILOT STAGE			D670
PILOT CONNECTION	Optional, internal or external		X and Y
MASS		kg (lbs)	11,5 (5.2)
RATED FLOW	(±10%) at $\Delta p_N=35$ (500) bar (psi) per land	l/min (gal/min)	160/260 (42/69)
OPERATING PRESSURE	max		
	Main stage:		
	port P with X external, A, B	bar (psi)	350 (5000)
	port T with Y internal	bar (psi)	210 (3000)
	port T with Y external	bar (psi)	350 (5000)
Pilot stage:			
regular version	bar (psi)	280 (4000)	
with dropping orifice (on request)	bar (psi)	350 (5000)	
RESPONSE TIME*	for 0 to 100% stroke	ms	8
FREQUENCY RESPONSE*	90° phase lag, ±5%	Hz	125
THRESHOLD*		%	<0,03
HYSTERESIS*		%	<0,2
NULL SHIFT	with $\Delta T=55K$	%	<2,0
NULL LEAKAGE FLOW*	total max. (- critical lap)	l/min (gal/min)	4,5 (1.2)
PILOT LEAKAGE FLOW*		l/min (gal/min)	1,7 (0.4)
PILOT FLOW*	max., for 100% step input	l/min (gal/min)	18 (4.8)

* At operating pressure $p=210$ bar (3000 psi), fluid viscosity of $32 \text{ mm}^2/\text{s}$ ($0.05 \text{ in}^2/\text{s}$) and fluid temperature of 40° C (104° F)



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