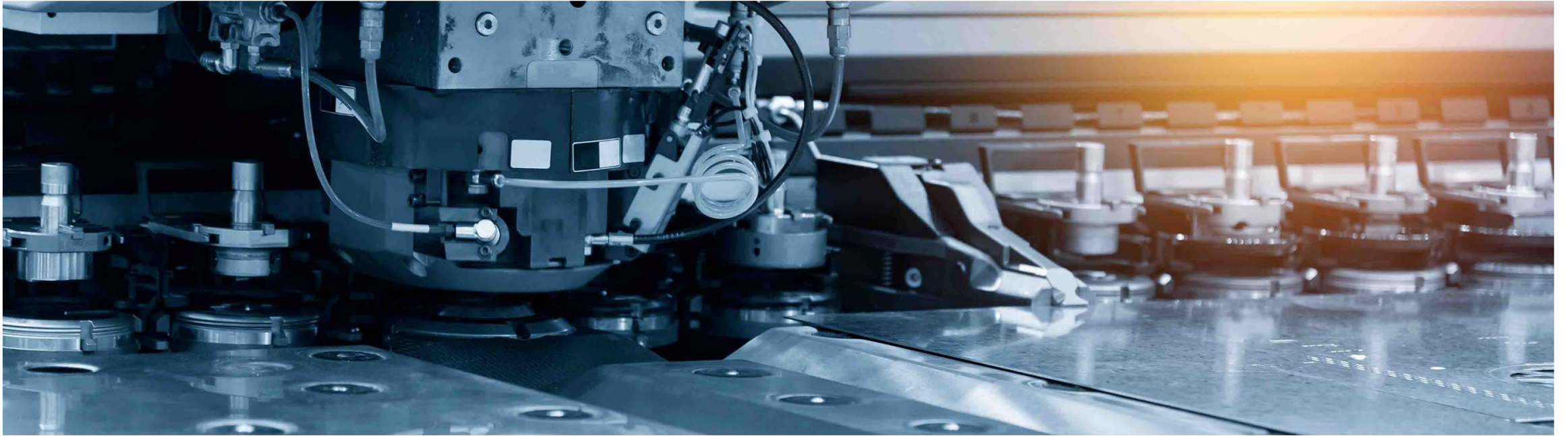




MOOG

DIRECT-OPERATED PROPORTIONAL VALVES
MOOG D926 SERIES VALVE



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EXTERNAL

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PRODUCT OVERVIEW
TECHNICAL OVERVIEW
TECHNICAL FEATURES
HOW TO LEARN MORE
CONTACT US

MOOG D926 DIRECT-OPERATED PROPORTIONAL VALVE

WHAT'S UNIQUE ABOUT IT

ROBUST

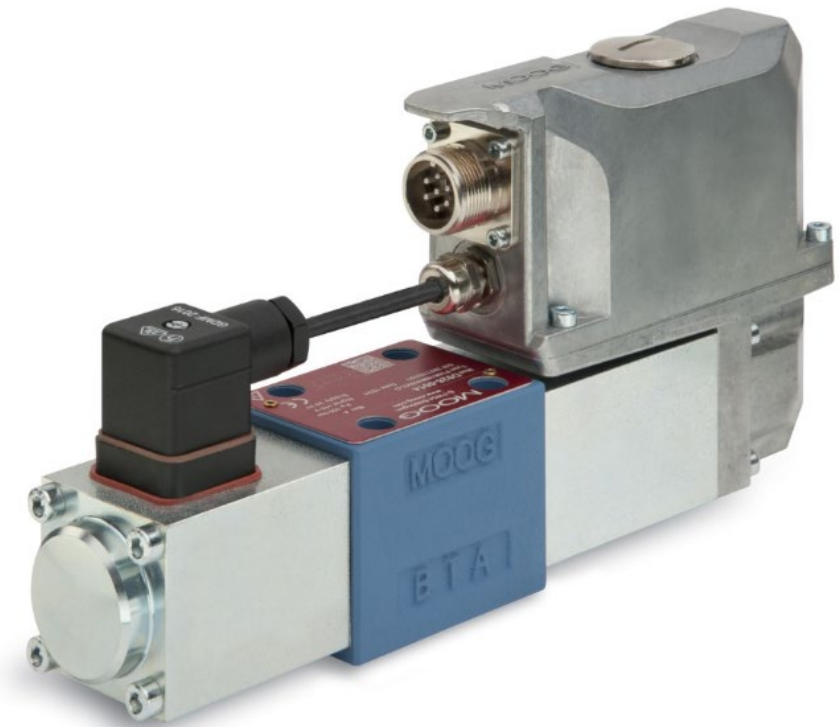
RELIABLE

PERFORMANT

COMPACT DESIGN

COST OPTIMIZED DESIGN

SHORT LEADTIME



It's not a valve, it's a MOOG!

PRODUCT OVERVIEW

PRODUCT PORTFOLIO OVERVIEW



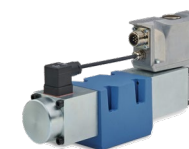
More Details

PRODUCT SERIES OF DIRECT OPERATED SERVO-PROPORTIONAL VALVES

NG10

75 l/min@5 bar

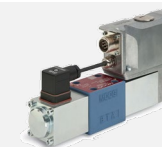
38 l/min@5 bar



NG6

32 l/min@5 bar

15 l/min@5 bar



PRODUCT OVERVIEW

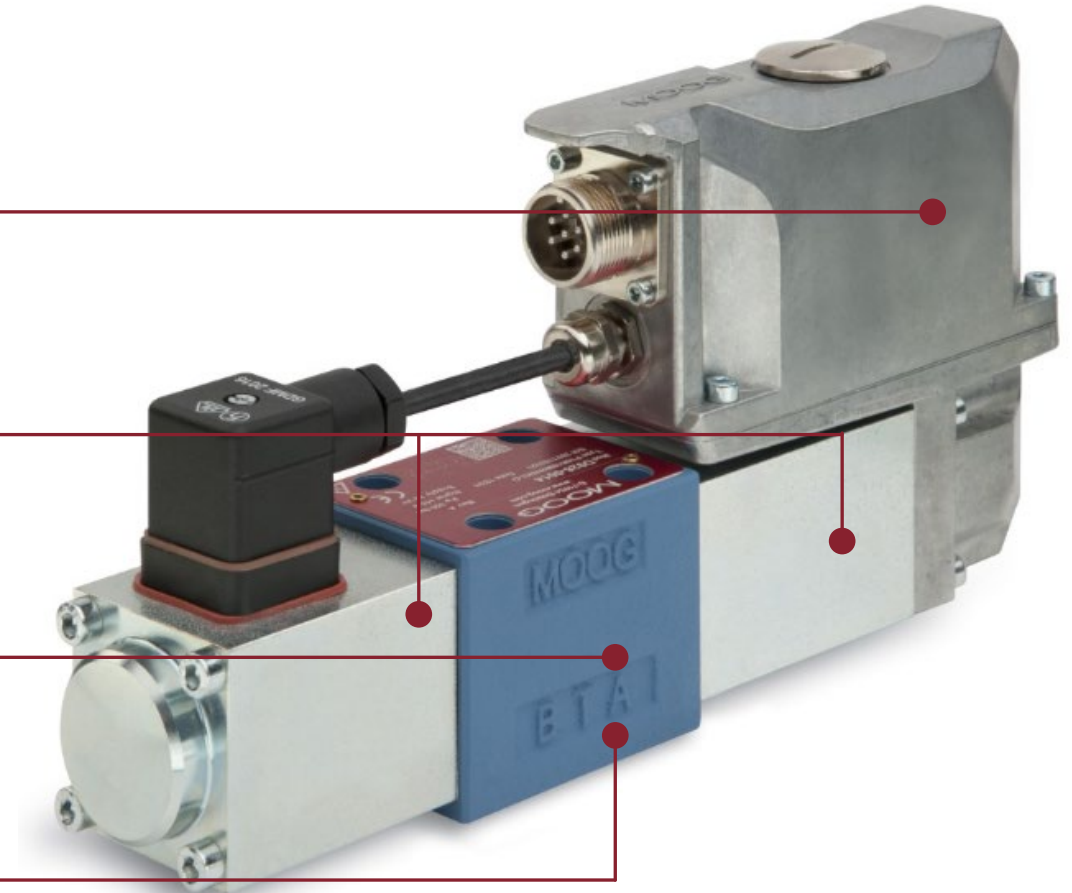
MOOG D926 DIRECT-OPERATED PROPORTIONAL VALVE

integrated electronics

dual proportional solenoid operated

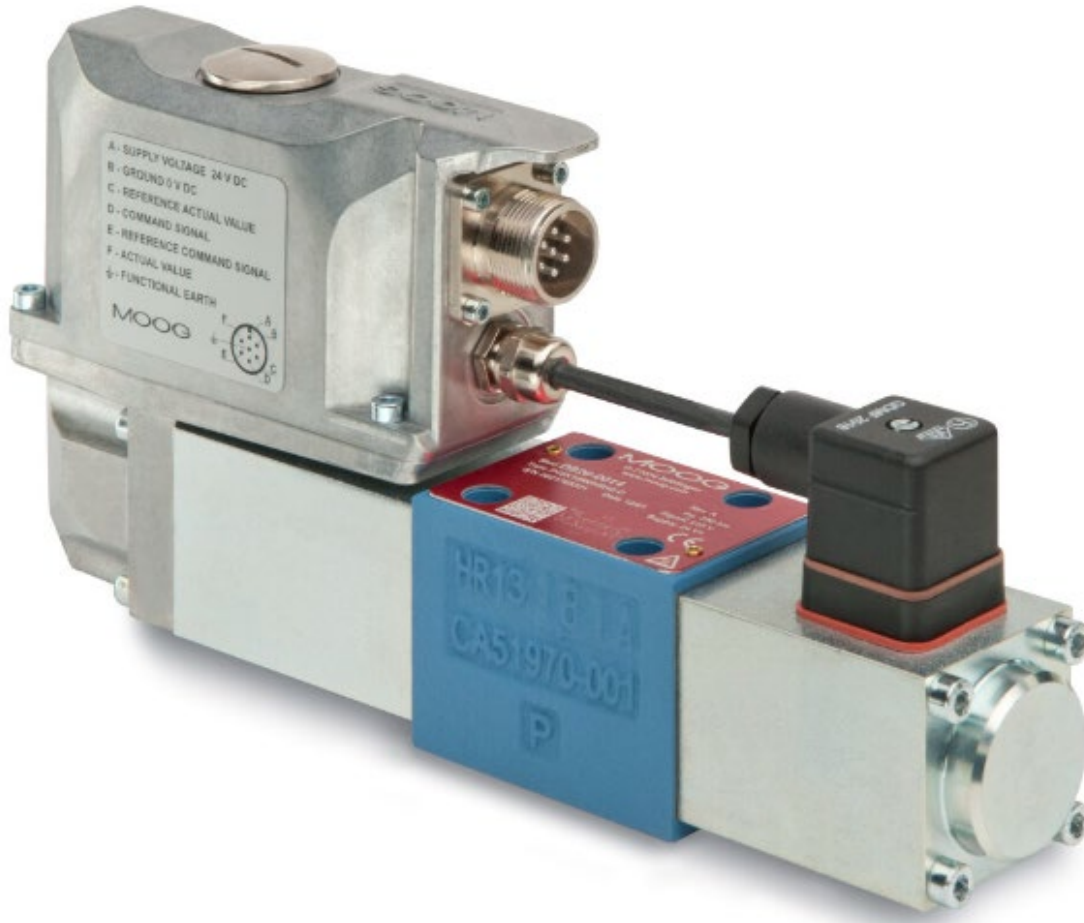
4/3-way spool-in-body design

closed-loop spool position control



TECHNICAL OVERVIEW

TECHNICAL DATA



Size NG6

Rated flow up to 32 l/min (@5 bar)

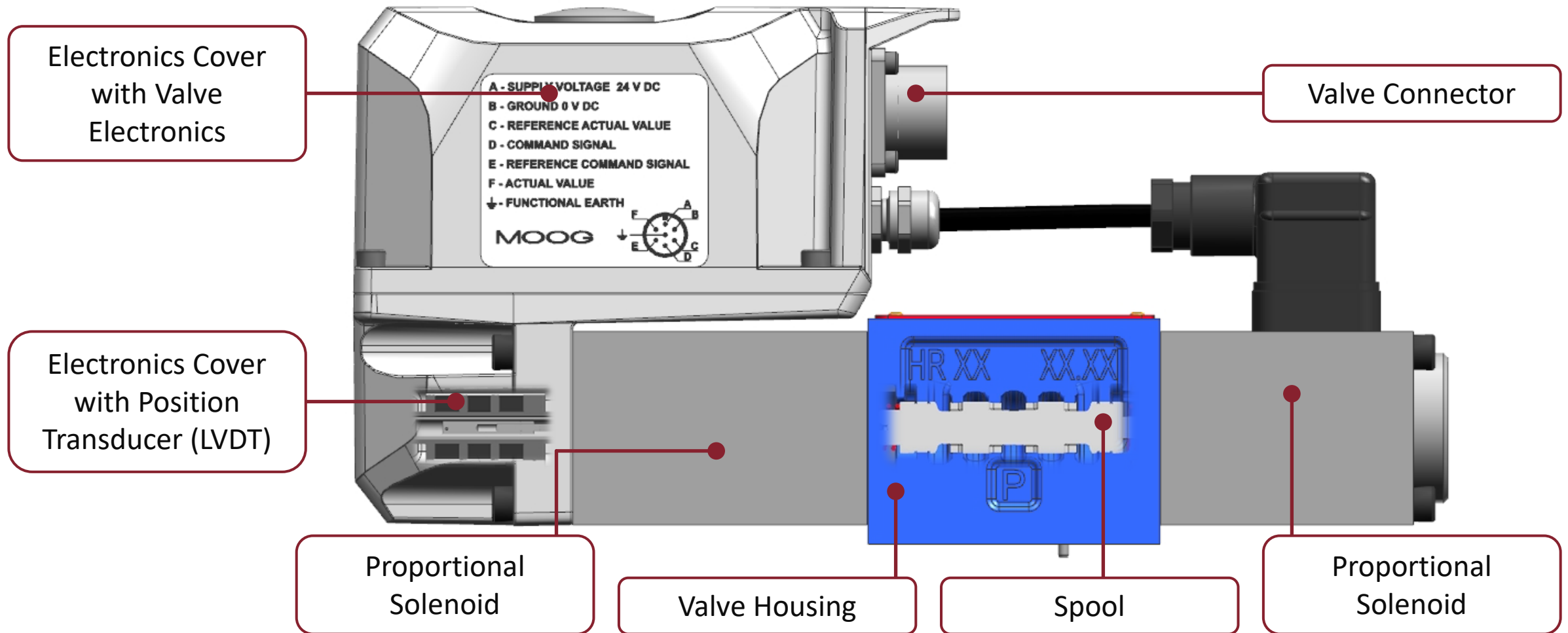
4/3-way and 4/2-way design

Failsafe option: safe midposition

Rated pressure 350 bar

Pressure tank port 280 bar

VALVE DESIGN



TECHNICAL FEATURES

TECHNICAL FEATURES



Available Flow Options

FailSafe Options

Electrical Interface and Signals

Robustness

TECHNICAL FEATURES



More Details

AVAILABLE FLOW OPTIONS



32 spool options

4 rated flows (4, 8, 16 and 32 l/min@5 bar)

area ratio (1:1 and 2:1)

overlap conditions (<3 up to 15%)

TECHNICAL FEATURES



More Details

FAILSAFE OPTIONS



Spring centered in mid position

Without spring retainer for improved axis controllability

For spools with < 3% overlap

With spring retainer for secured mid position

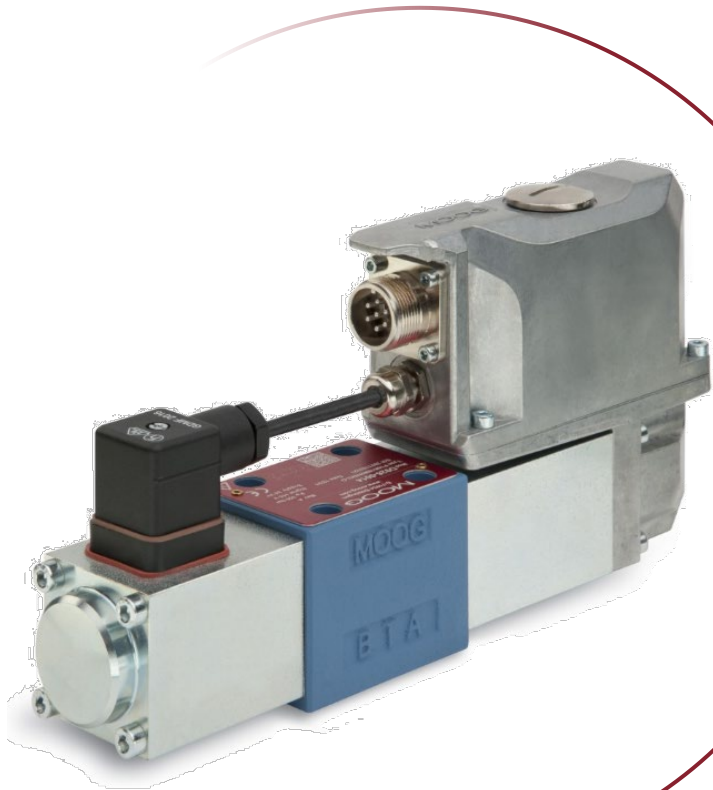
For spools with 15% overlap

TECHNICAL FEATURES



More Details

ELECTRICAL INTERFACE AND SIGNALS



6-PE connector

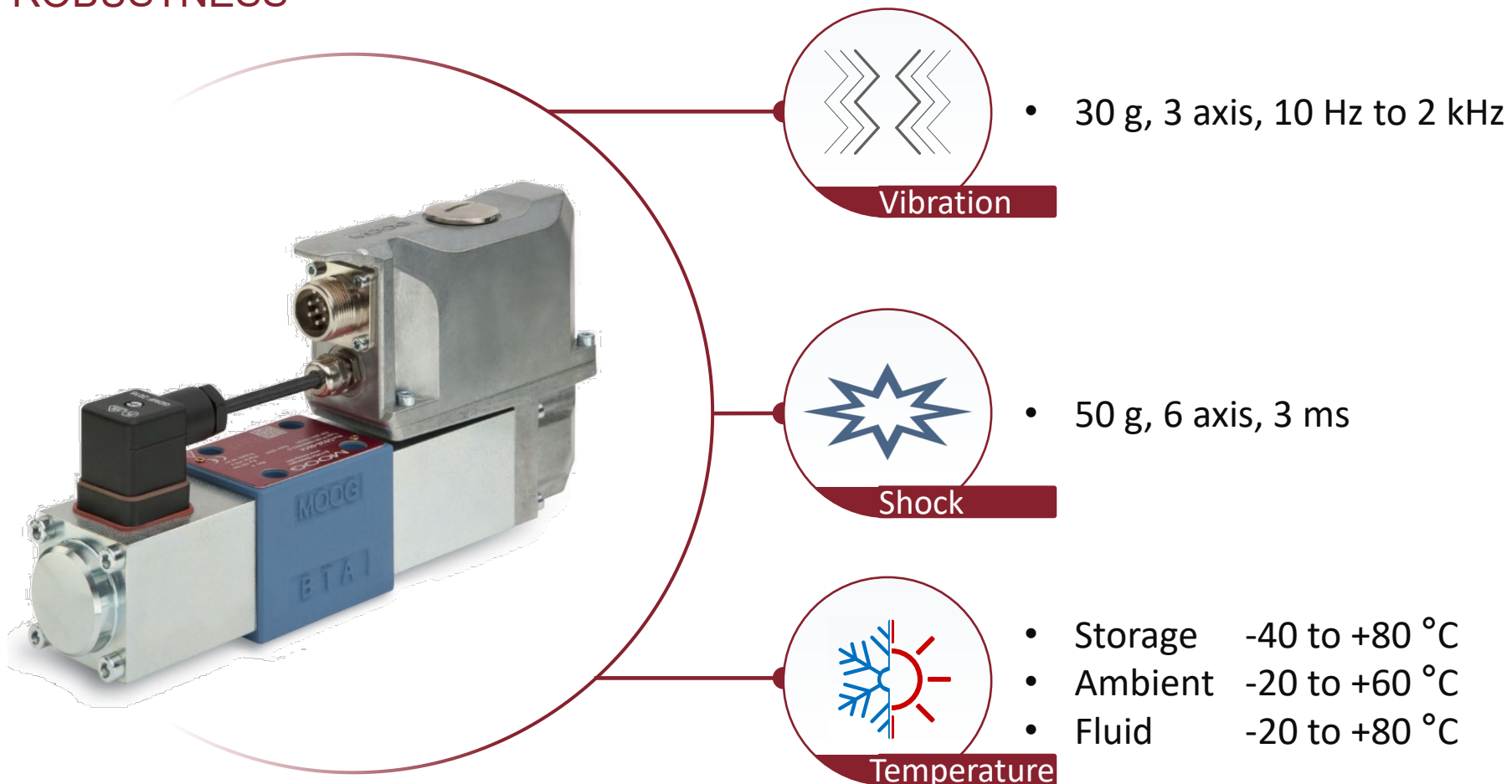
3 signal types for input

2 signal types for output

Deadband compensation available

TECHNICAL FEATURES

ROBUSTNESS



FEATURES AND BENEFITS

Spool-in-body design

Long spool stroke

Uncoupled electronic

Glued components

Energy efficient components

Uncoupled electronics housing

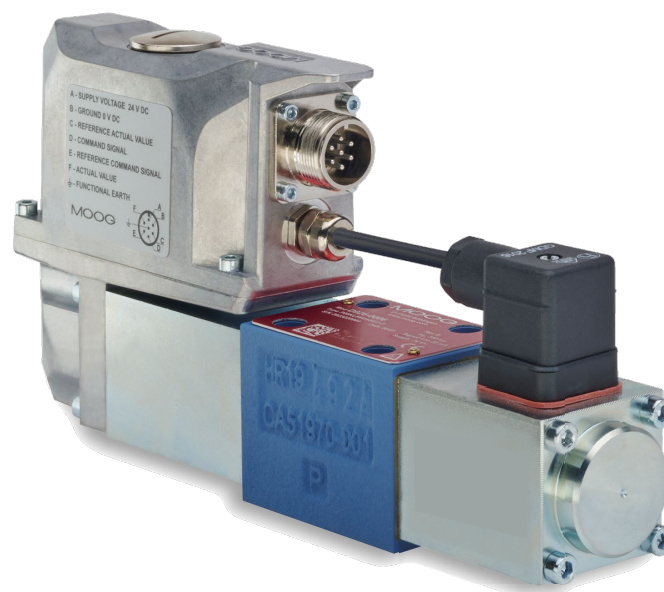
High accuracy and wear resistance

Next-generation electronics with digital core

High rated flows

High vibration
resistance

Low thermal
stress



LONG ELECTRONICS LIFETIME

ROBUST

RELIABLE

PERFORMANT

OPTIMIZED SPACE REQUIREMENTS

HOW TO LEARN MORE

D927 CONFIGURATION OPTIONS

Model Number
(assigned at the factory)

Type Designation

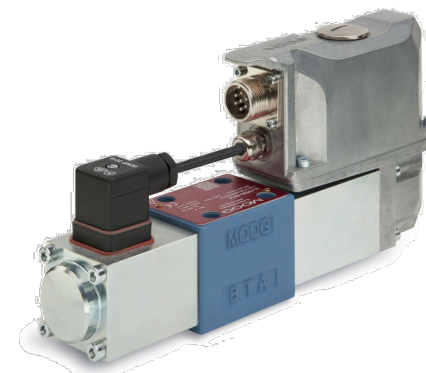
1 2 3 4 5 6 7 8 9 10 11 12

D92_ - - P - - - - - - - - - - - - - -

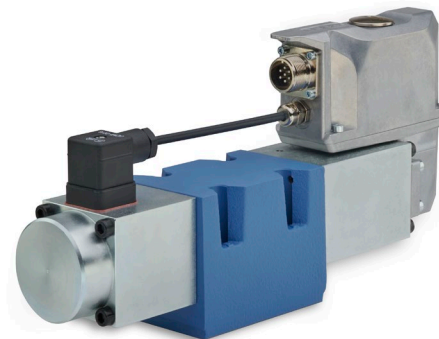
Size	
6	Size 03
7	Size 05
Model Designation	
1 Valve Type	
P	Proportional valve with integrated digital electronics
2 Rated Flow per Spool Land for $\Delta p_N = 5$ bar (75 psi)	
	D926 D927
04	• – 4 l/min (1.06 gpm)
08	• – 8 l/min (2.1 gpm)
16	• – 16 l/min (4.2 gpm)
25	– • 25 l/min (6.6 gpm)
32	• – 32 l/min (8.5 gpm)
50	– • 50 l/min (13.2 gpm)
75	– • 75 l/min (19.8 gpm)
3 Maximum Operating Pressure	
K	350 bar (5,000 psi)
4 Spool Design	
	D926 D927
L	1.5 to 3 % positive overlap, progressive flow characteristic
1 4/3-way	15 % positive overlap, progressive flow characteristic
	10 % positive overlap, progressive flow characteristic
	P→A, P→B: 15 % overlap; A→T, B→T: 12 % underlap, progressive flow characteristic
2	P→A, P→B: 10 % overlap, A→T, B→T: 7 % underlap, progressive flow characteristic
3	1.5 to 3 % positive overlap, progressive flow characteristic, A:B = 2:1
4	15 % positive overlap, progressive flow, A:B = 2:1
5	P→A, P→B: 15 % overlap, A→T, B→T = 12 % underlap, progressive flow characteristic, A:B = 2:1
6	15 % positive overlap, progressive flow characteristic
7 4/2-way	10 % positive overlap, progressive flow characteristic
	P→A, P→B: 15 % overlap; A→T, B→T: 12 % underlap, progressive flow characteristic

12 Enable Function	
0	No enable signal
11 Supply Voltage	
2	24 V _{DC} , for more information, see section "Electronics"
10 Command Signals	
Command signal	Actual value
H	±10 V ±10 V
E	4 to 20 mA 4 to 20 mA
X	±10 mA 4 to 20 mA
J	±10 V ±10 V with deadband compensation
W	4 to 20 mA 4 to 20 mA with deadband compensation
U	±10 mA 4 to 20 mA with deadband compensation
9 Valve Connector X1	
S	6-pole + PE EN 175201-804
8 Seal Material	
H	HNBR
V	FKM
7 Y Port	
0	No Y port, P _{Tmax} D926 = 280 bar (4,000 psi); P _{Tmax} D927 = 250 bar (3,600 psi)
3	With Y port, P _{Tmax} = 350 bar (5,000 psi) (only D926)
6 Spool Position Without Electrical Supply	
M	Center position ¹⁾
5 Proportional Solenoid	
8 2 proportional solenoids, LVDT on A side	
0	4/2-way: Single proportional solenoid and LVDT on A side

D926



D927



Note: Preferred options marked in **bold**.

¹⁾ For spools with 1.5 to 3 % overlap, the spring centered position may not correspond with the hydraulic zero position.

PRODUCT PAGE

MOOG D926 AND D927 PRODUCT PAGE

- Product Catalog
- Datasheet
- Introduction Video
- Installation Drawing
- 3D Model Files
- Installation and commissioning instructions
- And more!

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Products / Servo Valves and Proportional Valves / Industrial / Flow Control Valves / Analog With Integrated Electronics / Direct-Operated Proportional Valves for Analog Signals D926 Series

Fieldbus
Analog With Integrated Electronics

Direct-Operated Servo Valves for Analog Signals D633 and D634 Series

Direct-Operated Servo Valves for Analog Signals D636 and D637 Series

Pilot-Operated Servovalves for Analog Signals D670 Series

Pilot-Operated Servovalves for Analog Signals D661 Series

Pilot-Operated Proportional Valves for Analog Signals D660 Series

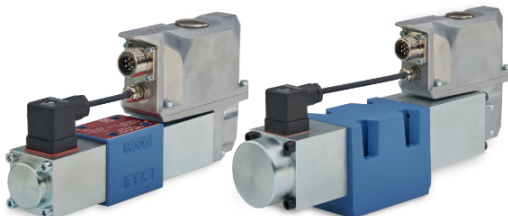
Pilot-Operated Proportional Valves for Analog Signals D670 Series

Pilot-Operated Servovalves for Analog Signals D791 and D792 Series

Pilot-Operated Proportional Valves for Analog Signals D680 Series

Direct-Operated

Direct-Operated Proportional Valves for Analog Signals D926 and D927 Series



ISO 4401 SIZE 03 AND SIZE 05

- Directly driven by two proportional solenoids
- 4/3-way design including failsafe position reduces need for additional safety components
- Spool-in-body design built for high accuracy and wear resistance
- Electronics mechanically uncoupled from housing allows for high

Contact Moog Industrial



Product Service & Repairs



Learn more about services

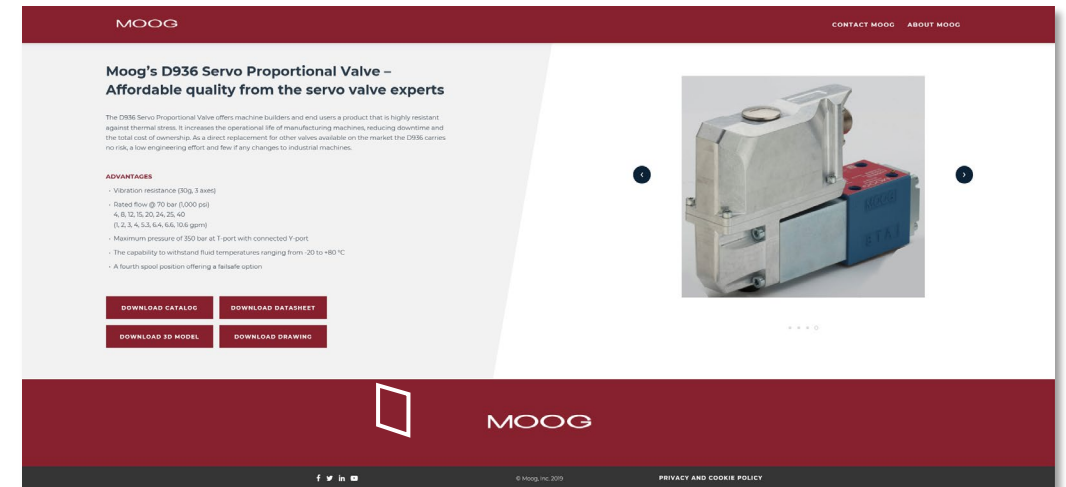
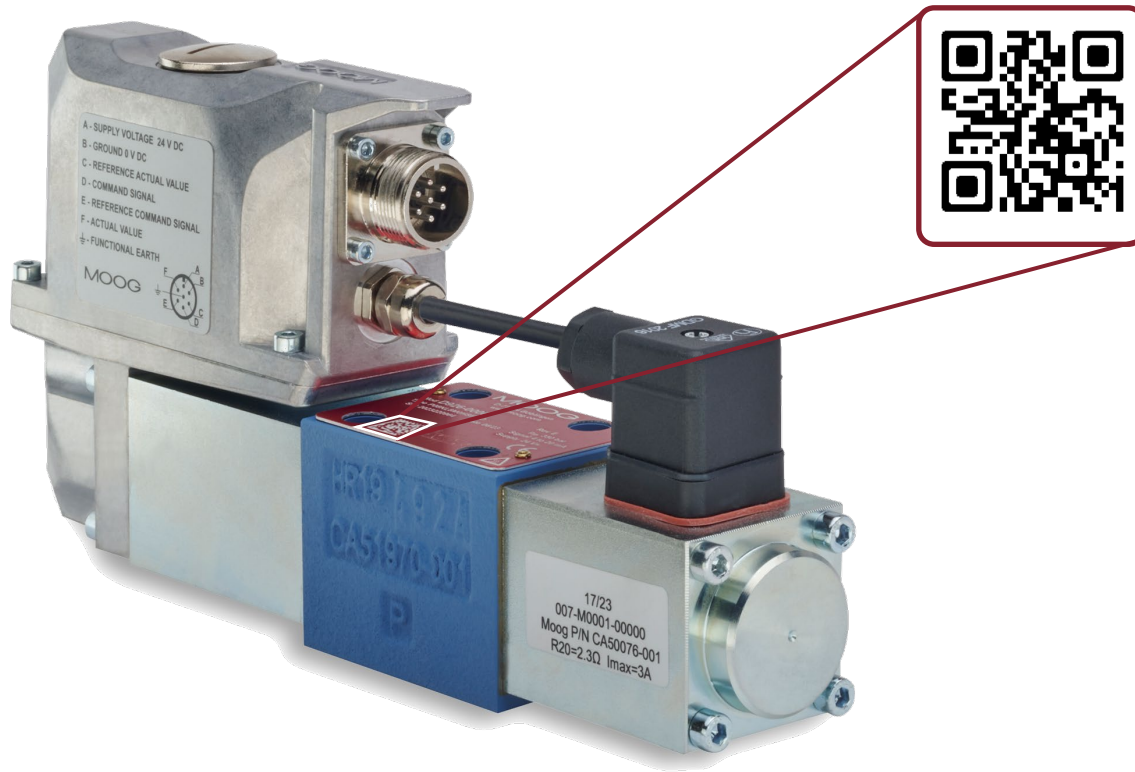
Literature

Catalog - D926 Proportional Valve

Datasheet - D926 Proportional Valve

PRODUCT PAGE

QR CODE



- 3D model
- drawing
- datasheet
- catalog

MOOG

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LETS MAKE THE IMPOSSIBLE POSSIBLE
TOGETHER

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