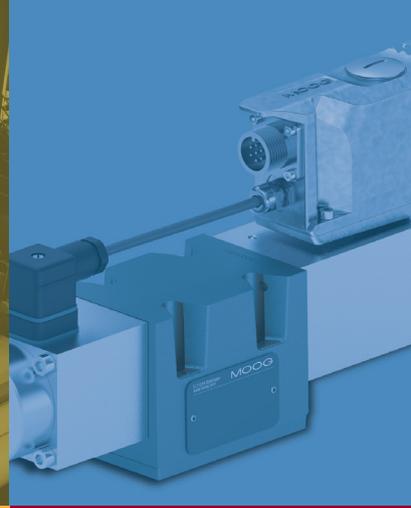


# MOOG'S D927 PROPORTIONAL VALVE SERIES WITH INTEGRATED ELECTRONICS

Offering less machine downtime and improved production performance



Moog is a world leader in valve technology and has produced over a million servo and proportional valves since 1950. Based on over sixty years' experience of developing the valve concept to perfection, our team of over 100 dedicated valve engineers has consistently delivered state-of-the-art technology to create products that offer our customers optimum cost and performance.

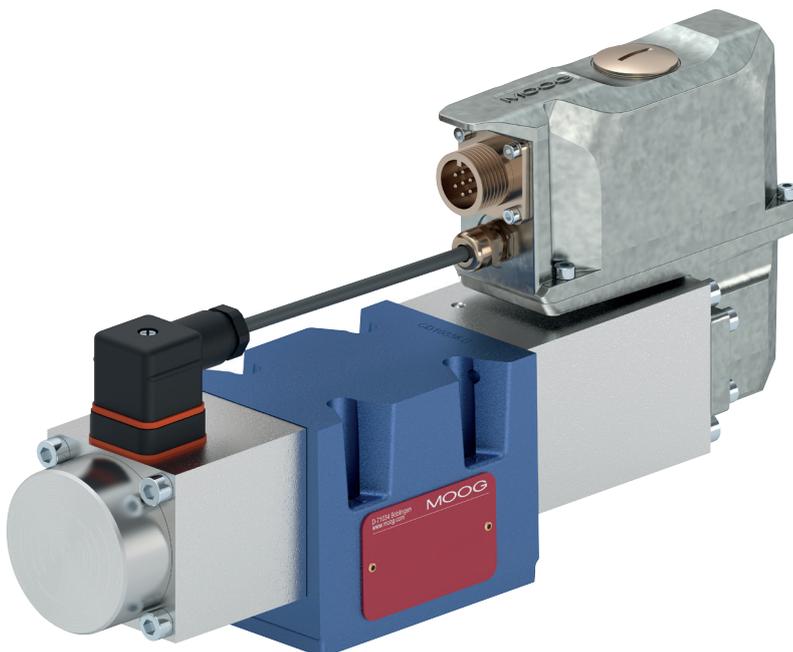
## **Advanced Technology inside a Ruggedized Design offers the Ultimate in Performance and Reliability**

For applications that require higher flow rate capacity than the Moog D926 Proportional Valve, the D927 Proportional Valve features a maximum flow capacity of 75 l/min at 10 bar (19.8 gpm at 150 psi), integrated electronics for optimal efficiency, and a robust package of standard features. When choosing the Moog D927 series valves, machine manufacturers and end users can enjoy the benefits of long service life without sacrificing cost or performance.

Using the latest technology in proportional valve design, the D927 Series valves are driven by proportional solenoids to control position, speed, pressure and force in open and closed loop control systems. Analog interfaces are used for command signal and spool position feedback, while the onboard electronics provide high dynamic control performance.

## **ADVANTAGES**

- Proportional valve design with rated flows of 25, 50 or 75 l/min at 10 bar (6.6, 13.2 or 19.8 gpm at 150 psi)
- Ruggedized design for vibration resistance (20g, 3 axes)
- The capability to withstand fluid temperatures ranging from -20 to +80 °C
- Various overlaps for different control functions and failsafe functionalities
- Direct functional replacement of competitive products

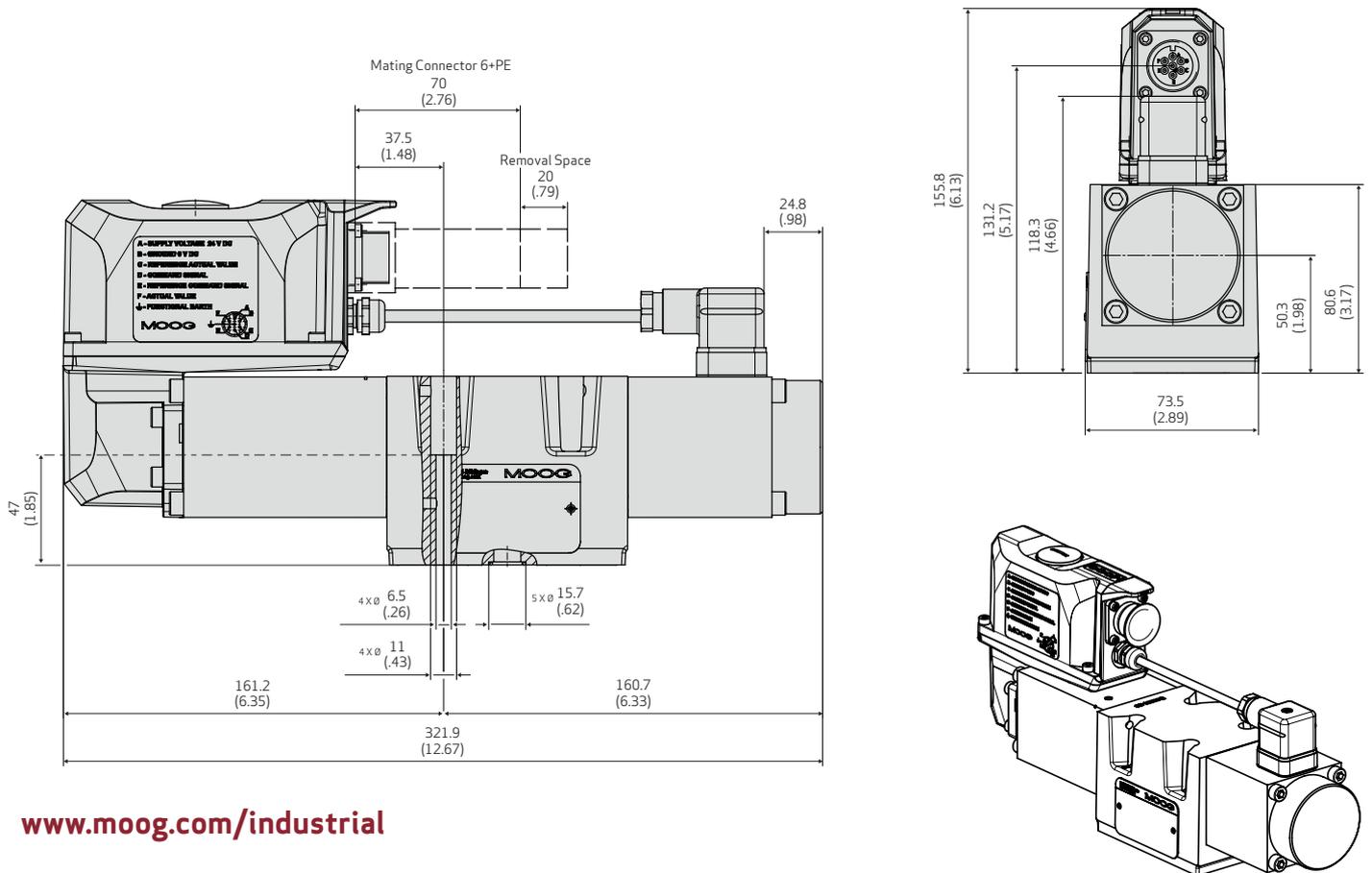


# SPECIFICATIONS

## TECHNICAL DATA

|  |  |
|--|--|
| Rated flow at 5 bar pressure drop per land [l/min (gpm)] | 25 to 75 (6.6 to 19.8)   |
| Rated pressure [bar (psi)]                               | 350 (5,000)  |
| Spool type   | <+/-3% overlap, progressive<br><+/-3% overlap, progressive, A:B = 2:1<br>+/-10% overlap, progressive<br><+/-10% overlap, progressive, A:B = 2:1<br>P→A, P→B: +10% overlap, A→T, B→T: -7% underlap, progressive<br>P→A, P→B: +10% overlap, A→T, B→T: -7% underlap, progressive, A:B = 2:1<br>4/2-way operation P→B and A→T, +10% overlap<br>4/2-way operation P→B and A→T, P→B: +10% overlap, A→T: -7% underlap |
| Seal material  | HNBR<br>FKM (Viton)  |
| Set point and actual value signals                       | set point +/-10 V, actual value +/-10 V<br>set point 4...20 mA, actual value 4...20 mA<br>set point +/-10 mA, actual value 4...20 mA   |
| Mounting pattern   | ISO 4401-05-05 (without leakage port Y)  |
| Failsafe position  | Spool in center position   |

## INSTALLATION DRAWINGS



[www.moog.com/industrial](http://www.moog.com/industrial)

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Proportional Valve Series D927  
SMM/Rev. -, March 2023, Id. CDL67101-en

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

**MOOG**