Simple by design, the S2 is an all in one pneumatic positioning system capable of tackling high speed and high force applications while linearly positioning a cylinder anywhere along its stroke.

**Features**
- Easy Tuning
- Simple Setup and Wiring
- Wide Range of Input Pressures
- Minimized Air Consumption
- All-in-One Package

**Applications**
- Line and Hopper Feed Rate
- Edge Guide Position
- Case Erect and Pack
- Pick and Place
- Lane Divide and Divert
- Gripper Position Control
- Quality Control Sorting
- Component Placing
- Actuate and Pilot Process Valves
- Material Processing
- Level and Elevator Control
- Sluice Gate Control
- Rotary Indexing and Positioning

**Compatibility**
Add position and control to almost any application.

**Mechanical Specifications**
- **Pressure:** 0...10 bar (0...150 psig)
- **Ports:** ¼ in NPT
- **Connector:** 5-pin M8 x 1 (male)
- **Mounting:** 2 x 10–32 Thru Holes
- **Temperature Range:** 32°F – 104°F (0°C – 40°C)
- **Filtration:** 5 μm particulate 0.3 μm coalescing
- **Media:** Un lubricated, Dry, Neutral Gas
- **Height:** 5.0 in (126 mm)
- **Width:** 2.5 in (64 mm)
- **Length:** 2.75 in (68 mm)
- **Weight:** 2.0 lbs (0.91 kg)

**Material Specifications**
- **Body:** Aluminum 6061
- **Caps:** PA66 30% Glass Filled Nylon
- **Other:** Nitrile, 440C SS, Nickel Plated Steel

**Electrical Specifications**
- **Power Requirement:** 24 VDC nominal @ 20W (+12...24 VDC range)
- **Command Input Impedance:** 100kΩ
- **Feedback Input Impedance:** 100kΩ
- **Command Input:** Configurable 0...10 VDC; 4...20mA
- **Feedback Input:** Configurable 0...10 VDC; 4...20mA
- **Electronic Adjustments:** Potentiometers; Pin jumpers set analog input signal types
- **Status Indications:** 2 power and status LEDs
- **Excitation:** +10V (15mA max)

**Performance Specifications**
- **Position Accuracy:** ± 1%
- **Flow:** 46 SCFM 80 → 0 psig (820 SLPM 6 → 5 bar)
- **Leak Rate:** 12 SCFH 150 → 0 psig (5.7 SLPM)

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![Image of S2 Servo Pneumatic Proportional Control System](image-url)
The S2 Servo Pneumatic Proportional Control System is ideal for applications requiring high speed and high forces simultaneously. Speeds up to 100 in/sec are achievable while slowing the cylinder to a smooth controlled stop, preventing premature cylinder wear and damage. Handling 100+ pound loads, it is capable of 25 in/sec across a selection of cylinders. The ability to handle heavy loads while quickly and accurately following a changing input signal makes the S2 the ideal choice for machine designers.

Maximum Cylinder Speed vs Moving Mass: Bore Size Comparison

Note: Tests performed at 80 psig inlet pressure with 10 in horizontal movements. Changes in moving mass, cylinder orientation or other system parameters will impact maximum speed.