



## ES Electronic Valves

### ES-3W-12



The ES series features large cross sectional o-rings, minimal leak points, and proven poppet designs. All mounting hardware is outside of the flow path for the ES, and no internal parts are threaded during assembly to reduce the possibility of contamination. The ES has the best performance-to-price ratio for low leak valves.

| 2D File                            | <a href="#">File</a>                                                                                                  |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Accessories</b>                 | Wire Lead Connector, 18" (457 mm) <a href="#">C3-RXB18</a> , Cover for Unused Manifold Station <a href="#">ESM-CP</a> |
| <b>Coil Resistance</b>             | 144 $\Omega$                                                                                                          |
| <b>Connection</b>                  | Wire Leads, Side (Radial), 18"                                                                                        |
| <b>Current</b>                     | 0.083 Amp                                                                                                             |
| <b>Cycle</b>                       | Over 1 Billion                                                                                                        |
| <b>Data Sheet</b>                  | <a href="#">Data Sheet</a>                                                                                            |
| <b>Filtration</b>                  | 40 micron (recommended)                                                                                               |
| <b>Function</b>                    | 3-Way Normally-Closed                                                                                                 |
| <b>Leak Rate</b>                   | 0.01 sccm                                                                                                             |
| <b>Length</b>                      | 0.92                                                                                                                  |
| <b>Manifolds</b>                   | <a href="#">Manifolds</a> , <a href="#">Cover Plate</a>                                                               |
| <b>Material, Body</b>              | ENP Carbon Steel, Nickel Iron Alloy, 300 Series Stainless Steel, Glass-Filled Nylon Housing                           |
| <b>Material, Seals</b>             | Nitrile                                                                                                               |
| <b>Material, Spring</b>            | Nickel Alloy                                                                                                          |
| <b>Max. psig</b>                   | 105 psig (7 bar)                                                                                                      |
| <b>Medium</b>                      | Clean, Dry Air and Compatible Gases                                                                                   |
| <b>Mount</b>                       | Manifold Mount                                                                                                        |
| <b>Number of Ports</b>             | 3                                                                                                                     |
| <b>Operating Pressure</b>          | 28" Hg Vac. to 105 psig                                                                                               |
| <b>Operating Temperature Range</b> | 32 to 150°F (0 to 66°C)                                                                                               |
| <b>Orifice</b>                     | 0.025" (105 psig max)                                                                                                 |
| <b>Port, Exhaust</b>               | #10-32 or M5                                                                                                          |
| <b>Port, Inlet</b>                 | No Thread                                                                                                             |
| <b>Port, Outlet</b>                | No Thread                                                                                                             |
| <b>Product Line Brochure</b>       | <a href="#">Spider Valves</a>                                                                                         |
| <b>Response Time</b>               | 5 to 10 ms (nominal)                                                                                                  |
| <b>Seals</b>                       | Nitrile                                                                                                               |
| <b>Thread</b>                      | #4-40 or M3 (torque to 1-3 in-lb.)                                                                                    |
| <b>Voltage</b>                     | 12 VDC                                                                                                                |
| <b>Voltage Operating Range</b>     | 90 to 120% of Rated Voltage                                                                                           |
| <b>Wattage</b>                     | 1 Watt at Rated Voltage                                                                                               |
| <b>Weight (lbs.)</b>               | 0.0850                                                                                                                |

