Edwards SP Speedivalves are diaphragm sealed in-line, isolation valves. The construction consists essentially of a flexible elastomeric diaphragm which is sealed onto a lightly polished seat by a screw thread mechanism. The mechanism is isolated from the system by the diaphragm resulting in an extremely rugged and ‘dirty’ system tolerant valve.

The valve terminates in NW flanges and can be pipeline supported or panel mounted. (SP40K is pipeline supported only).

**Features and benefits**

- Easy to operate with visual indication of valve open (SP10K to SP25K).
- Leak tight to better than $10^{-6}$ mbar ls$^1$ / $8 \times 10^{-7}$ Torr ls$^1$.
- Diaphragm completely isolates mechanism from vacuum system.
- Extremely rugged and ‘dirty’ system tolerant.
- Will withstand 9 bar overpressure (SP10K to SP40K, with co-seal).
**Technical data**

**Construction materials**

- Body: Aluminium alloy to BS1490
- Hand wheel and bonnet: Glass reinforced plastics
- Diaphragms: Nitrile or Fluoroelastomer

**Leak rate (1 bar / 14.5 psi differential)**

- Valve (overall and across seat): 6 mbar ls⁻¹/8 x 10⁻⁷ Torr ls⁻¹
- Coupling: 10-7 mbar ls⁻½ x 10⁻¹ Torr ls⁻¹

**Molecular conductance**

- SP10K, SP16K: 1.7 ls⁻¹
- SP25K: 9.0 ls⁻¹
- SP40K: 23.3 ls⁻¹

**Pressure rating using co-seal**

- 9 bar / 131 psi

**Ambient operating range**

- 0 to 40˚C

**Ambient storage range**

- -10 to 40˚C

**Panel thickness**

- 3 mm / 0.117 in maximum

**Weight**

- SP10K: 230 g / 8.1 oz
- SP16K: 240 g / 8.4 oz
- SP25K: 760 g / 26.6 oz
- SP40K: 2300 g / 80.5 oz

**Baking temperature**

- 60˚C

**Dimensions**

![Dimensions Diagram](image)

**Ordering information**

### Product description

- SP10K, Nitrile Diaphragm: C33105000
- SP16K, Nitrile Diaphragm: C33155000
- SP25K, Nitrile Diaphragm: C33205000
- SP40K, Nitrile Diaphragm: C33305000
- SP10K, Fluoroelastomer Diaphragm: C33155800
- SP16K, Fluoroelastomer Diaphragm: C33255800
- SP25K, Fluoroelastomer Diaphragm: C33355800

### Product description

- Replacement Fluoroelastomer Diaphragms
  - Fluoroelastomer Diaphragm for SP10/16: C33155800
  - Fluoroelastomer Diaphragm for SP25: C33355800
  - Fluoroelastomer Diaphragm for SP40: C33455800

- Replacement Nitrile Diaphragms
  - Nitrile Diaphragm for SP10/16: C33105800
  - Nitrile Diaphragm for SP25: C33305800
  - Nitrile Diaphragm for SP40: C33405800

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