


**Description:**

High Pressure Selector Relays are commonly utilized in pneumatic override control systems. The High Pressure Selector Relay accepts two (2) pneumatic input signals and passes the higher pressure onward to a control device. The SV Series High Pressure Selector Relays are commonly utilized with VPC Valve Pilot Controllers to provide a "Pressure Control Override" configuration in tandem with a pneumatic or electro-pneumatic control valve positioner. VRG Controls utilizes Model SV-5-316 as a standard for High Pressure Selector Relays for pressures between 80 to 200 psig. For lower pressure applications, an alternate model is utilized.

**How it Works:**

SV Series High Pressure Selector Relays have a free moving shuttle that blocks one of two inlet ports while the other inlet port is connected to the (common) outlet port. When a pressure signal enters the port blocked by the shuttle, it will cause the shuttle to shift over to close the opposite inlet port. The shuttle will stay there while the line or chamber connected to the outlet port is charged and/ or discharged and will only shift when pressure is applied to the inlet port it is blocking at that time. In logic terms a shuttle valve is an 'OR' – function.

**Mounting:**

Preferred installation with center line of two INLET PORTS in horizontal position per drawing above.

**Specifications:**

**Max Pressure:** 5.0 to 200 psig (0.35 to 14 barg)

**Body Material:** 316 Stainless Steel – Conforms to NACE MR-01-75

**Shuttle Material:** 316 Stainless Steel

**Seals:** FKM (Fluorocarbon)

**Screws:** 316 Stainless Steel

Model	Ports	Flow Cv (Kv)	Note	Weight lbs (kg)	Dim A in (mm)	Dim B in (mm)	Dim C in (mm)
SV-5-316	0.500 FNPT	6,03 (78)	Standard Issue	0.65 (0.29)	2.5 (64)	1.9 (48)	1.3 (32)
SV-3-316	0.250 FNPT	0.5 (7)	Alternate	0.33 (0.15)	2.0 (51)	1.5 (38)	1.0 (25)