

Directional Control Valves

2 Port Solenoid Valve VXZ



Available in low concentration ozone resistant and oil free options, the VXZ series comes in a wide range of body materials, with piping thread variations ¼" to 1" and one-touch fitting from Ø10 to Ø12. Together with normally closed or normally open valve types and an improved OFF response, the VXZ is ideal for handling air, water, oil, heated water and high temperature oil for cooling systems, segmentation of pneumatic lines and exhaust valve in vacuum lines. Up to 27% lighter and 4% smaller than conventional models, the VXZ is ideal for lightweight machines and narrow spaces. And a rubber buffer means the series is suitable for quiet environments, with an extended service life guarantee thanks to its improved construction, which is all part of our commitment to

refine the performance and functionality of our products and drive competitive advantages for our customers.

2 Port Solenoid Valve VXK



Series VXK is interchangeable in port size and voltage with our popular VX2 Solenoid range and shares many of the same performance features. Available in both AC or DC power options and both closed and open valve types, the VXK has IP65 enclosure accreditation and is ideal for use with air, water, oil or steam at pressures up to 3.0MPa and with fluid between -20 to +60°C. Designed to improve valve performance and to stop leakage, the VXK's integral stainless steel 100 mesh filter unit, effectively removes any foreign matter in the circulating fluids thereby protecting downstream equipment and, at the same time, ensuring longer valve life. Further benefits of this space saving design are realized in the reduced time

required for maintenance as the Y shaped filter can be easily removed without the need to disassemble piping.

2 Port Steam Valve VND



The VND series is a 2-port valve for steam control up to 180°C. It is available with copper alloy or stainless-steel body and also as normally open or normally closed valve. Process valve series VND, Air operated type, Orifice size: 7 to 50mm, Port size: 1/8-to-2-inch, Operating pressure range: 0 to 0.97 MPa

3 Port Solenoid Valve

SMC's VP300/500/700 series solenoid valve, offers high flow capacity and reduced power consumption (1.55W standard, 0.55W with power saving circuit). The series may be used as either a selector valve, or a divider valve. It is vacuum applicable up to -101.2kPa . Series VP3145/3165/3185 is a large size, 3 port solenoid valve with a rubber seal. It is possible to use the series in vacuum applications or under low pressure. Both series are available in a normally closed or normally open styles. 3 port, pilot poppet type valve. Available with power saving circuit to reduce power consumption. Port sizes from 1/8 to 1/2, depending on series. Thread types: Rc, G, NPT, NPTF.



4 Port Solenoid Valve

SJ2000/3000 Series 4 Port Solenoid Valve Cassette type Manifold. Low-profile cassette type with baseless structure. Space saving type with body width of 7.5 mm (SJ2000) and 10 mm (SJ3000). Mixed loading of SJ2000 and SJ3000 is possible. Easy to increase/decrease the number of stations and replace valves by connecting connectors. One side solenoid. 4-position dual 3-port valve specification available. Manifold model: SS5J2, SS5J3.



5 Port Mechanical Valve

XT34-60/67, Foot Pedal Type: XT34-60 Five port foot pedal type mechanical valve with and without lock options. The XT34-60 with lock weighs 0.8kg while the XT34-67 without lock weighs 0.5kg. The XT34 has an ambient and fluid temperature -5 to 60°C . 5 port mechanical valve with foot pedal type actuation. Available with lock and without lock. Operating pressure: 0.15 to 0.9 MPa.



Blow Gun VMG

Taking energy-saving into consideration, blow gun series VMG has a large effective area of 30mm^2 (without nozzle) with a ratio of 10.7:1 over the traditional air guns. Pressure loss is 1% or less when nozzle bore size 2.5mm is used. Due to adoption of balance type, lever operation force is not adversely affected by supply pressure. Piping direction is optional from top or bottom and nozzle is also optional. VMG Blow Gun. A 20% reduction in power consumption can be achieved with the SMC "Blow gun" + "S coupler" + "Coil tube." Pressure loss: 1% or less (Nozzle size: $\phi 2.5$). Available nozzles: Male thread nozzle, High efficiency nozzle with male thread, Low noise nozzle with male thread, Copper extension nozzle. With flow rate adjustment function (-X54).





Hand Valve VH Series.

Rotary hand valve. Slide ring design. Body / panel mounted. 2 / 3 positions selectable and Large / red handle options.

SJ Series

SJ2000/3000 Four Port Solenoid Valve Cassette type Manifold.

Available in two compact sizes the SJ2000 measures just 7.5mm wide with its larger SJ 3000 model at still only 10mm, these new 4 port solenoid valves have been designed in a cassette type format and use a card-edge type connector. Smaller in size than SMC's existing SZ Series by almost 40% and 30% respectively, both SJ2000 and SJ3000 can be combined in the same manifold which can provide up to 24 stations and 32 solenoids. Compatible with Serial Interface units for both CC-Link and Device Net protocols, the valves feature a special lock switch mechanism to ensure that they are secure locked together

and to prevent accidental operation of the manual override. Ease of maintenance has been assured with simple addition, removal and replacement of individual valve stations, and with a power supply shut-off switch each valve can be individually de-energised for adjustment and simple replacement. Early research has indicated that both the SJ2000 and SJ3000 valves offer impressive energy savings of up to 62% and 75% respectively when compared with SMC's existing SZ solenoid Series.



SY Series

SY Series Five Port Solenoid Valve. Manifold for SY3000 Individual wiring. Maximum 20 stations available as standard. Valves individually wired.



VHS

3 Port Pressure Relief Valve with Locking Holes. A result of this focus, the updated VHS features an increased flow rate of up to 45%, which means it can be used for larger applications, offering commercial benefits as customers don't have to pay for bigger and therefore, more costly valves.

The new VHS Series also has two material options for the handle and bonnet; PBT resin and aluminium. The PBT resin is highly flame resistant and up to 60% lighter than the conventional all-aluminium model. Furthermore, the double action model, which prevents malfunctions, is available in two new sizes, the VHS2510 and VHS3510. Other new features include a built-in silencer to save space in the area below the valve and the mounting bracket. All this is combined with an improved look to complement the new air preparation AC Series.



VM-A



VM100 Series 2/3 Port Mechanical Valve. The new VM100/200 series is now more lightweight and compact than the conventional model. The series has a variety of actuator types to choose from. Also, with piping options of side ported and bottom ported, it is now possible to choose the mounting method with the side ported. Fluid: air, Compact size. Piping: side ported, bottom ported. Possible to choose mounting method with side ported. Variety of actuator types.

VPA



VSA 4/5 Port Air Operated Valve 3 Port Air Operated Valve. High flow capacity: Cv1.0 (VPA300), Cv2.3 (VPA500), Cv4.0 (VPA700). Possible to use as either selector valve or divider valve. Changeable from normally closed style to normally open style.

VPA 300/500/700



VPA 3 Port Air Operated Valve 3 Port Air Operated Valve. High flow capacity: Cv1.0 (VPA300), Cv2.3 (VPA500), Cv4.0 (VPA700). Possible to use as either selector valve or divider valve. Changeable from normally closed style to normally open style.

VX2



VX2 Direct Operated 2 Port Solenoid Valve. Developed as a part of our on-going product improvement programme, the new Series VX2, which is suitable for air, medium vacuum, water or oil, now offers considerable performance advantages when compared to our previous VX21 solenoid valve model. With its modern urban white outer appearance, Series VX2 is around 10% smaller and 30% lighter compared to our old Series VX21 valve due in part to its resin and aluminium body construction, yet it still delivers around 20% increased flow rate performance. Incorporating a rubber bumper to reduce valve noise during operation and featuring one touch fitting for speed of installation, Series VX2 offers improved durability and reduced apparent power – up to 20VA.

VXS



VXS zero differential pressure type pilot operated 2 port solenoid valve. For steam, Long service life : 3 million cycles (Based on SMC's test condition). Improved air filtration. Reduced apparent power : 18VA→12VA, 20VA→15VA. Reduced coil temperature rise : 120°C→100°C and IP65.