

Directional control valves – solenoid valves

Ideal size for actuator control

| Seal type, main valve | Valve | Flow characteristics A, B→E (2 position/ monostable) | Applicable cylinder Speed: 100 mm/s or lower |
|--------------------------|------------------|--|--|
| űΕ | series | Cv value ³ | Ø6 Ø10 Ø16 Ø20 Ø25 Ø32 Ø40 Ø50 Ø63 Ø80 Ø100 Ø125 Ø140 Ø160 |
| | VQD ¹ | 0.07 | VQD1000 • |
| | VK ¹ | 0.12 | VK3000 ♦ |
| | SJ | 0.08-0.12 | SJ2000/3000 • |
| | SYJ | 0.12-0.74 | SYJ3000 SYJ5000 SYJ7000 |
| | sx | 0.18-0.82 | \$X3000 \$\ \$X5000 \$\ \$X7000 |
| eal | vqz | 0.32-1.2 | VQZ1000 VQZ2000 VQZ3000 |
| Rubber seal | sv | 0.28-1.6 | SV1000 SV2000 SV3000 SV4000 |
| Ruk | VQ/ VQC | 0.2-4.7 | VQC1000 ● |
| | SY | 0.26–2.5 | SY3000 sy5000 sy7000 SY9000 (see example 1) |
| | VF | 0.13–3 | VF1000 ● VF3000 ● VF5000 ● |
| | VQ7 | 1.4–3.3 | VQ7-6 ○ |
| | VFR | 0.7–10.6 | VFR2000 ● VFR3000 ● _{VFR4000} VFR5000 |
| | VP4 | 5.6–16.7 | VP4050 ○ |
| | vzs | 0.33-0.53 | VZ\$2000 VZ\$3000 VZ |
| | VQZ | 0.17–0.74 | VQZ1000 VQZ2000 VQZ3000 |
| seal | VS4 | 1 | V\$4□10 • |
| Metal seal | VQ/ VQC | 0.18–3.4 | VQC1000 ♦ |
| | VQ7 | 1.1–3 | VQ7-6 ⊕ VQ7-8 Φ |
| | VFS | 0.4–9 | VFS1000 |

Conditions

■ Pressure: 0.5 MPa

Tubing length: 1 m

Load: 50%

Stroke: 200 mm

Speed: 100 mm/s or lower

Cylinder size and speed

Example 1: When using the valve series SY9000 (2500 I_n/min) for driving Ø40 to Ø100 cylinders, they will have an average speed under the following conditions.

Seal type

Rubber seal: Resistant to dust when the seals between the spool and sleeve are made of rubber.

Metal seal: Long life thanks to the air bearing between metal spool and steel sleeve.



5 port for pneumatics

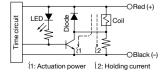
| Ø180 Ø20 | 0 Ø250 | Ø300 | Power consumption (W) | Connection Threaded connection (G) | size Push-in fitting (Ø) Applicable tubing size (mm) |
|----------|--------|------|-------------------------|------------------------------------|--|
| | | | 2 | M5 | 4 |
| | | 1 | 4 | M5, 1/8 | 4, 6 |
| | | 1 | 0.6 | M3, M5 | 2, 4, 6 |
| | | 1 | 0.35 (0.1) ² | M3, M5, 1/8, 1/4 | 4, 6, 8 |
| | | - | 0.6 | M5, 1/8, 1/4, 3/8 | 4, 6, 8, 10 |
| | | 1 | 0.4 | M5, 1/8, 1/4, 3/8 | 3.2, 4, 6, 8, 10 |
| | | | 0.6 | 1/8, 1/4, 3/8, 1/2 | 4, 6, 8, 10, 12 |
| | | 1 | 0.4 | M5 | 3.2, 4, 6, 8, 10, 12 |
| | | 1 | 0.35 (0.1)2 | M5, 1/8, 1/4, 3/8, 1/2 | 4, 6, 8, 10, 12 |
| | | 1 | 1.8 | M5, 1/8, 1/4, 3/8, 1/2 | _ |
| | | 1 | 1 | 1/4, 3/8, 1/2, 3/4 | 6, 8, 10 |
| VFR6000 | | 1 | 1.8 | 1/8, 1/4, 3/8, 1/2, 3/4, 1 | _ |
| | VP40 | 70 🔹 | 12 | 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2 | _ |
| | | | 1.8 | 1/8, 1/4 | 4, 6, 8 |
| | | | 1 | M5, 1/8, 1/4, 3/8 | 3.2, 4, 6, 8, 10 |
| | | | 5.5 | 1/8, 1/4, 3/8 | _ |
| | | | 1 | M5, 1/4, 3/8 | 3.2, 4, 6, 8, 10, 12 |
| | | 1 | 1 | 1/4, 3/8, 1/2, 3/4 | 6, 8, 10, 12 |
| VFS6000 | | | 1.8 | 1/8, 1/4, 3/8, 1/2, 3/4, 1 | _ |

Power consumption

Reduction of necessary power for the valve

With power saving circuit: The power consumption is reduced to one quarter of the standard product power consumption. (The effect occurs when the on time is greater than 62 ms and operated at rated voltage of 24 VDC.)

Electrical circuit (with energy saving circuit)





Directional control valves - solenoid valves

Ideal size for actuator control

| Seal type, main valve | Valve | characteristics A, B > E (2 position/ monostable) | | | | Applic | cable cy | /linder | | Spee | d: 3 0 | 00 m | nm/s | S or I | ower | | |
|--------------------------|------------------|---|----|---------|--------|--------|----------|-------------------|---------|---------|----------------|-----------------|---------|---------------|------|------|--|
| a e | series | Cv value ³ | Ø6 | Ø10 | Ø16 | Ø20 | Ø25 | Ø32 | Ø40 | Ø50 | Ø63 | Ø80 | Ø100 | Ø125 | Ø140 | Ø160 | |
| | VQD ¹ | 0.07 | | VQD1 | 000 | | | | | | | | | | | | |
| | VK ¹ | 0.12 | | VK3 | 000 | | | | | | | | | 1 | | | |
| | SJ | 0.08-0.12 | S | J1000/2 | 000 🍨 | | | | | | | | | | | | |
| | SYJ | 0.12-0.74 | | SYJ30 | 000 | SYJ50 | 000 | SYJ70 | 000 | | | | | | | | |
| | sx | 0.18-0.82 | | | | SX30 | 000 | SX50 | 000 | • sx | 7000 | | | | | | |
| eal | vqz | 0.32-1.2 | | | | VQZ10 | 000 | VQZ | 2000 | + VC | Z3000 | | | | | | |
| Rubber seal | sv | 0.28-1.6 | | | | SV10 | 000 | SV20 | 000 | sv3000 | • SV | 4000 | | 1 | | | |
| Rub | VQ/ VQC | 0.2–4.7 | | | | VQC10 | 000 | VQC20 | 000 | VQC40 | 00 0 | | VQ50 | 00 • | | | |
| | SY | 0.26–2.5 | | | | SY30 | 000 | SY3000 PLUG IN | SY5000 | SY7000 | SY | ′9000 (s | ee exam | ple 1) | | | |
| | VF | 0.13–3 | | VF10 | 000 | | | VF30 | 000 | | | VF50 | 000 | | | | |
| | VQ7 | 1.4–3.3 | | i i | | | | | | VQ7 | '-6 •) | VQ | 7-8 | | | | |
| | VFR | 0.7–10.6 | | | | | | VFR20 | 000 | VFR30 | 00 • | VFR4000 | VFR5000 | | VFR6 | 000 | |
| | VP4 | 5.6–16.7 | | 1 | | | | | | | | VP40 | 050 🔾 | | | | |
| | vzs | 0.33-0.53 | | | | VZS20 | 000 | VZ:S30 | 000 | | | 1 | | 1 | | | |
| | VQZ | 0.17-0.74 | | | | VQZ10 | 000 | VQZ20 | 000 | • VC | Z3000 | 1 | | 1 | | | |
| seal | VS4 | 1 | | | l I | | | | VS4□ | 110 | | | | 1 | | | |
| Metal seal | VQ/ VQC | 0.18-3.4 | | | | VQC10 | 000 | VQC20 | 000 | VQC40 | 00 0 | 1 | VQ50 | 00 0 | | | |
| | VQ7 | 1.1–3 | | | 1 | | | | | VQ7 | '- 6 • | VQ | 7-8 | 1 | | | |
| | VFS | 0.4–9 | | | | | VFS1 | 000 | VFS2000 | VFS3000 | | VFS40 | 000 | VFS5000 | VFS6 | 000 | |

Conditions

- Pressure: 0.5 MPa
- Tubing length: 1 m
- Load: 50%
- Stroke: 200 mm
- Speed: 300 mm/s or lower

Cylinder size and speed

Example 1: When using the valve series SY9000 (2500 I_n/min) for driving Ø40 to Ø100 cylinders, they will have an average speed under the following conditions.

Seal type

Rubber seal: Resistant to dust when the seals between the spool and sleeve are made of rubber.

Metal seal: Long life thanks to the air bearing between metal spool and steel sleeve.



5 port for pneumatics

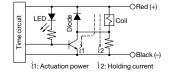
| Ø180 Ø200 Ø2 <u>5</u> | 50 Ø300 | Power consumption (W) | Connection Threaded connection (G) | size Push-in fitting (Ø) Applicable tubing size (mm) |
|-----------------------|---------|-------------------------|------------------------------------|--|
| | | 2 | M5 | 4 |
| | 1 | 4 | M5, 1/8 | 4, 6 |
| | - | 0.6 | M3, M5 | 2, 4, 6 |
| | 1 | 0.35 (0.1) ² | M3, M5, 1/8, 1/4 | 4, 6, 8 |
| | | 0.6 | M5, 1/8, 1/4, 3/8 | 4, 6, 8, 10 |
| | - | 0.4 | M5, 1/8, 1/4, 3/8 | 3.2, 4, 6, 8, 10 |
| | - | 0.6 | 1/8, 1/4, 3/8, 1/2 | 4, 6, 8, 10, 12 |
| | | 0.4 | M5 | 3.2, 4, 6, 8, 10, 12 |
| | 1 | 0.35 (0.1)2 | M5, 1/8, 1/4, 3/8, 1/2 | 4, 6, 8, 10, 12 |
| | - | 1.8 | M5, 1/8, 1/4, 3/8, 1/2 | _ |
| | 1 | 1 | 1/4, 3/8, 1/2, 3/4 | 6, 8, 10 |
| | | 1.8 | 1/8, 1/4, 3/8, 1/2, 3/4, 1 | _ |
| VP4070 ≎ | 1 | 12 | 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2 | _ |
| | | 1.8 | 1/8, 1/4 | 4, 6, 8 |
| | | 1 | M5, 1/8, 1/4, 3/8 | 3.2, 4, 6, 8, 10 |
| | | 5.5 | 1/8, 1/4, 3/8 | _ |
| | - | 1 | M5, 1/4, 3/8 | 3.2, 4, 6, 8, 10, 12 |
| | | 1 | 1/4, 3/8, 1/2, 3/4 | 6, 8, 10, 12 |
| | | 1.8 | 1/8, 1/4, 3/8, 1/2, 3/4, 1 | _ |

Power consumption

Reduction of necessary power for the valve

With power saving circuit: The power consumption is reduced to one quarter of the standard product power consumption. (The effect occurs when the on time is greater than 62 ms and operated at rated voltage of 24 VDC.)

Electrical circuit (with energy saving circuit)





Directional control valves - solenoid valves

Ideal size for actuator control

| Seal type, main valve | Valve | Flow characteristics A, B→E (2 position/ monostable) | | | | Applio | cable cy | linder | | Spee | d: 5 0 | 00 m | nm/s | S or lo | ower | |
|--------------------------|------------------|--|---------|----------|------|--------|----------|---------|--------|-----------------|---------------|---------|-------|---------|------|------|
| ος Ε | series | Cv value ³ | Ø6 | Ø10 | Ø16 | Ø20 | Ø25 | Ø32 | Ø40 | Ø50 | Ø63 | Ø80 | Ø100 | Ø125 | Ø140 | Ø160 |
| | VQD ¹ | 0.07 | • V | QD1000 | | | | | | | | | | | | |
| | VK ¹ | 0.12 | • V | K3000 | | | | | | | | | | | | |
| | SJ | 0.08-0.12 | • S | J1000/20 | 000 | | | | | | | | | | | |
| | SYJ | 0.12-0.74 | SYJ3000 | SYJ50 | 00 • | SYJ70 | 000 | | | | | 1 | | | | |
| | sx | 0.18-0.82 | | SX30 | 00 🌒 | SX50 | 000 |) S) | (7000 | | | | | | | |
| eal | VQZ | 0.32-1.2 | | VQZ10 | 00 🌒 | VQZ | 2000 | · Vo | Z3000 | | | | | | | |
| Rubber seal | sv | 0.28–1.6 | | SV10 | 00 • | SV20 | 000 | SV3000 | • S\ | /4000 | | | | | | |
| Ruk | VQ/ VQC | 0.2–4.7 | | VQC10 | 00 • | VQC20 | 000 | VQC40 | 000 | | VQ50 | 00 | | | | |
| | SY | 0.26–2.5 | | SY30 | 00 • | SY3000 | SY5000 | SY7000 | • S\ | /9000 (s | ee exam | ple 1) | | | | |
| | VF | 0.13–3 | VF1000 | | | | 000 | | | VF50 | 000 | | | | | |
| | VQ7 | 1.4–3.3 | | | | | | VQ | 7-6 | VQ | 7-8 | | | | | |
| | VFR | 0.7–10.6 | | | | VFR20 | 000 | VFR30 | 000 | VFR4000 | VFR5000 | | VFR60 | 000 | | |
| | VP4 | 5.6–16.7 | | | 1 | | | | | VP40 | 050 | | | | VP40 | 70 |
| | vzs | 0.33-0.53 | | VZS20 | 00 • | VZ:S30 | 000 | | | | | | | | | |
| | vqz | 0.17-0.74 | | VQZ10 | 00 🏶 | VQZ20 | 000 | • Vo | QZ3000 | | | | | | | |
| seal | VS4 | 1 | | | I | | VS4E | 110 | | | | | | | | |
| Metal seal | VQ/ VQC | 0.18–3.4 | | VQC10 | 00 • | VQC20 | 000 | VQC40 | 000 | | VQ50 | 00 0 | | | | |
| | VQ7 | 1.1–3 | | | | | | VQ | 7-6 🕩 | VQ | 7-8 | | | | | |
| | VFS | 0.4–9 | | | VFS1 | 000 | VFS2000 | VFS3000 | | VFS40 | 000 | VFS5000 | VFS60 | 000 | | |

Conditions

Pressure: 0.5 MPa

Tubing length: 1 m

Load: 50%

Stroke: 200 mm

Speed: 500 mm/s or lower

Cylinder size and speed

Example 1: When using the valve series SY9000 (2500 I_n/min) for driving Ø40 to Ø100 cylinders, they will have an average speed under the following conditions.

Seal type

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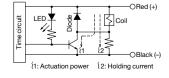
| Ø180 | Ø200 | Ø250 | Ø300 | Power consumption (W) | Connection Threaded connection (G) | size Push-in fitting (Ø) Applicable tubing size (mm) |
|------|------|------|------|-------------------------|------------------------------------|--|
| | | | | 2 | M5 | 4 |
| | | | | 4 | M5, 1/8 | 4, 6 |
| | | | | 0.6 | M3, M5 | 2, 4, 6 |
| | | | | 0.35 (0.1) ² | M3, M5, 1/8, 1/4 | 4, 6, 8 |
| | | | | 0.6 | M5, 1/8, 1/4, 3/8 | 4, 6, 8, 10 |
| | | | | 0.4 | M5, 1/8, 1/4, 3/8 | 3.2, 4, 6, 8, 10 |
| | | | | 0.6 | 1/8, 1/4, 3/8, 1/2 | 4, 6, 8, 10, 12 |
| | | | | 0.4 | M5 | 3.2, 4, 6, 8, 10, 12 |
| | | | | 0.35 (0.1)2 | M5, 1/8, 1/4, 3/8, 1/2 | 4, 6, 8, 10, 12 |
| | | | | 1.8 | M5, 1/8, 1/4, 3/8, 1/2 | _ |
| | | | | 1 | 1/4, 3/8, 1/2, 3/4 | 6, 8, 10 |
| | | | | 1.8 | 1/8, 1/4, 3/8, 1/2, 3/4, 1 | _ |
| | | | | 12 | 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2 | _ |
| | | | | 1.8 | 1/8, 1/4 | 4, 6, 8 |
| | | | | 1 | M5, 1/8, 1/4, 3/8 | 3.2, 4, 6, 8, 10 |
| | | | | 5.5 | 1/8, 1/4, 3/8 | _ |
| | | | | 1 | M5, 1/4, 3/8 | 3.2, 4, 6, 8, 10, 12 |
| 1 | | | | 1 | 1/4, 3/8, 1/2, 3/4 | 6, 8, 10, 12 |
| | | | | 1.8 | 1/8, 1/4, 3/8, 1/2, 3/4, 1 | _ |

Power consumption

Reduction of necessary power for the valve

With power saving circuit: The power consumption is reduced to one quarter of the standard product power consumption. (The effect occurs when the on time is greater than 62 ms and operated at rated voltage of 24 VDC.)

Electrical circuit (with energy saving circuit)



SMC's metal seal valves

Valves in high-frequency use often suffer from wear on the seals. SMC's metal seal valves resist such wear and have superior life time.

valve spool change position inside the valve when it is affected manually, with spring force, or when power is applied to the coil. The spool position determines which ports are pressurised and exhausted.

Many valves have a so called rubber seal, which can be compared to a rubber O-ring. This type of seal works very well and is found in many of SMC's valves.

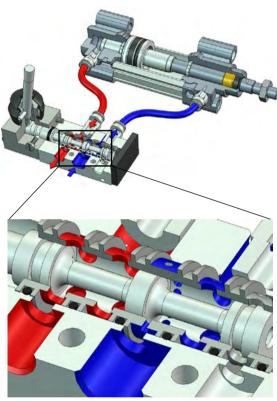
In some applications, for example high-frequency applications, rubber seal can wear out, and the valves need to be replaced regularly.

SMC offer an optional metal seal for these applications. This option extends the life time of the valve and your application.

A metal seal spool moves in a fixed sleeve, which in turn is rubber sealed against the valve body. The fit between spool and sleeve is very precise.

- At least 200 million cycles life time. There are documented cases where more than 1 billion cycles have been achieved.
- Less sensitive to impurities than conventional rubber seal valves.
- Friction free.
- Air gap between spool and sleeve.
- Highest precision, surface finish, and small gap (1 μm).
- Minimum leakage (slightly more than rubber seal valve).

Valve series available with metal seal: EVS, SQ, SY, VQ1000/2000/4000, VQ7, VQC and VSS.



Detail of the metal spool inside its sleeve.



SY3000 & -5000 - overview



- SMC's new SY3000 and SY5000 series is extremely flexible and versatile.
- The high flow rate version enables you in many cases to use a smaller valve than usually.
- See below for an overview of some series with unique advantages.

Cable interface









D-sub/flat cable

L connection

Circular multipole

Terminal box

Fieldbus interface









EX250

EX260

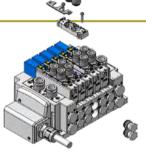
EX500

EX600

Flexibility







Function modules in sandwich format

Mix SY3000 and SY5000 on the same manifold

Easy to change port mode

Also available in hygienic design. Contact SMC for more information.





SY3000 - solenoid valve, plug-in

| Medium | Air (dry) |
|-----------------------|--|
| Degree of filtration | 5 μm |
| Max. working pressure | 0.7 MPa (7 bar); high pressure type: 1 MPa (10 bar) |
| Min. working pressure | 5/2 monostable: 0.15 MPa (1.5 bar); 5/2 bistable: 0.1 MPa (1 bar); 5/3 with center position: 0.2 MPa (2 bar); double 3/2: 0.15 MPa (1.5 bar); metal seal (not double 3/2): 0.1 MPa (1 bar) |
| Operating temperature | –10 to 50 °C |
| Voltage/power | Standard: 24 VDC ±10% (12 VDC on request)/0.4 W (energy saving 0.1 W) |
| Flow | 470 l _n /min |
| Enclosure | IP40/IP67 depending on choice of electrical connection |



Unmatched flexibility and easy configuration because of new internal connector technology and the ability to mix different sizes in the same manifold

Valve - plug-in, 24 VDC

| 19 , | - | |
|-------------|---|--------|
| Part number | Туре | Weight |
| SY3100-5U1 | 5/2 monostable, rubber seal | 74 g |
| SY3100R-5U1 | 5/2 monostable, rubber seal, external pilot | 74 g |
| SY3101K-5U1 | 5/2 monostable, metal seal, high pressure | 76 g |
| SY3101R-5U1 | 5/2 monostable, metal seal, external pilot | 76 g |
| SY3200-5U1 | 5/2 bistable, rubber seal | 83 g |
| SY3200R-5U1 | 5/2 bistable, rubber seal, external pilot | 83 g |
| SY3201K-5U1 | 5/2 bistable, metal seal, high pressure | 86 g |
| SY3201R-5U1 | 5/2 bistable, metal seal, external pilot | 86 g |
| SY3300-5U1 | 5/3 closed center, rubber seal | 87 g |
| SY3400-5U1 | 5/3 exhausted center, rubber seal | 87 g |
| SY3500-5U1 | 5/3 pressurized center, rubber seal | 87 g |
| SY3301K-5U1 | 5/3 closed center, metal seal, high pressure | 90 g |
| SY3401K-5U1 | 5/3 exhausted center, metal seal, high press. | 90 g |
| SY3501K-5U1 | 5/3 pressurized center, metal seal, high press. | 90 g |
| SY3A00-5U1 | Double 3/2 NC/NC, rubber seal | 83 g |
| SY3B00-5U1 | Double 3/2 NO/NO, rubber seal | 83 g |
| SY3C00-5U1 | Double 3/2 NC/NO, rubber seal | 83 g |
| | · | |

All versions available with external pilot supply. Contact SMC for delivery times.



Valve manifold, fieldbus



Valve manifold, D-sub

Valve manifold for fieldbus – circular and L connection, Ø6 mm, add valves and electrical connector

| Part number | Valve stations | Туре |
|-------------------|----------------|-------------|
| SS5Y3-10S0-02D-C6 | 2 | Side ported |
| SS5Y3-10S0-04D-C6 | 4 | Side ported |
| SS5Y3-10S0-06B-C6 | 6 | Side ported |
| SS5Y3-10S0-08B-C6 | 8 | Side ported |
| SS5Y3-10S0-10B-C6 | 10 | Side ported |
| SS5Y3-10S0-12B-C6 | 12 | Side ported |

Valve manifold for D-sub connection

-Ø6 mm, add valves and D-sub cable

| Part number | Valve stations | Туре |
|-------------------|----------------|-------------|
| SS5Y3-10F1-02D-C6 | 2 | Side ported |
| SS5Y3-10F1-04D-C6 | 4 | Side ported |
| SS5Y3-10F1-06B-C6 | 6 | Side ported |
| SS5Y3-10F1-08B-C6 | 8 | Side ported |
| SS5Y3-10F1-10B-C6 | 10 | Side ported |
| SS5Y3-10F1-12B-C6 | 12 | Side ported |





Sub plate, side ported



Sub plate, bottom ported

Metal sub plate for D-sub connection

- Ø6 mm, add valves and D-sub cable

| Part number | Valve stations | Туре |
|--------------------|----------------|---------------|
| SS5Y3-50F1-04D-C6F | 4 | Side ported |
| SS5Y3-50F1-06B-C6F | 6 | Side ported |
| SS5Y3-50F1-08B-C6F | 8 | Side ported |
| SS5Y3-50F1-10B-C6F | 10 | Side ported |
| SS5Y3-50F1-12B-C6F | 12 | Side ported |
| SS5Y3-51F1-04D-C6F | 4 | Bottom ported |
| SS5Y3-51F1-06D-C6F | 6 | Bottom ported |
| SS5Y3-51F1-08D-C6F | 8 | Bottom ported |
| SS5Y3-51F1-10D-C6F | 10 | Bottom ported |
| SS5Y3-51F1-12D-C6F | 12 | Bottom ported |

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SY3000 - solenoid valve, plug-in

Replacement & extension parts







End plate D-side, fieldbus



End plate D-side, D-sub



End plate U-side

Manifold bottom plate - side ported

| Part number | Туре |
|----------------|------------------------|
| SY30M-2-1SA-C4 | Single solenoid, Ø4 mm |
| SY30M-2-1SA-C6 | Single solenoid, Ø6 mm |
| SY30M-2-1DA-C4 | Double solenoid, Ø4 mm |
| SY30M-2-1DA-C6 | Double solenoid, Ø6 mm |

End plate D-side for fieldbus - circular

and L connection, with supply and exhaust, side ported, Ø8 mm

| Part number | Туре |
|----------------|-------------------|
| SY30M-1-1A-C8 | _ |
| SY30M-1-1AS-C8 | Built-in silencer |
| SY30M-1-1AR-C8 | External pilot |



Individual P-supply



Individual exhaust

End plate D-side for D-sub connection

- with supply and exhaust, side ported, Ø8 mm

| Part number | Туре |
|------------------|-------------------|
| SY30M-1-11A1-C8 | _ |
| SY30M-1-11AS1-C8 | Built-in silencer |
| SY30M-1-11AR1-C8 | External pilot |

$\pmb{End plate \ U\text{-}side} - \text{with supply and exhaust, side ported, } \emptyset 8 \ \text{mm}$

| Part number | Туре |
|----------------|-------------------|
| SY30M-3-1A-C8 | _ |
| SY30M-3-1AS-C8 | Built-in silencer |
| SY30M-3-1AR-C8 | External pilot |



Blanking plate



DIN rail mount

Individual P-supply - for individual valve

| | - o. p p . y | TOT ITTUING CO. TO. | |
|---------------|--------------|---------------------|--|
| Part number | | Туре | |
| SY30M-38-1A-C | 6 | Ø6 mm | |

Individual exhaust - for individual valve

| | _ |
|----------------|-------|
| Part number | Туре |
| SY30M-39-1A-C6 | Ø6 mm |

Blanking plate - for unused valve stations

| Part number | Туре |
|-------------|---------------------|
| SY30M-26-1A | For valve manifold |
| SY30M-26-2A | For metal sub plate |

DIN rail mount - for manifold, 1 mount per pack

| Part number | |
|-------------|--|
| SY30M-15-1A | |



SY3000 - solenoid valve, plug-in

Replacement & extension parts







P-shut-off

P-shut-off - for individual valve

| Part number |
|-------------|
| SY30M-50-1A |

Check valve - for exhaust channels

| Part number |
|-------------|
| SY30M-24-1A |



Double check module



Sealing disc

Double check module

- maintains correct position during long stops

| | | 3 - 3 - 1 - |
|-----------|-----|-------------|
| Part numb | er | |
| SY30M-60- | -1A | |

Sealing disc

| Part number | Туре |
|-------------|--|
| SY30M-40-1A | For P-supply (2 different pressures in manifold) |
| SY30M-40-2A | For exhaust (2 different exhausts in manifold) |

Electrical connections

L connector cable - 34 wire

| 2 doine de la constant de la constan | | |
|--|----------------------------|--|
| Part number | Туре | |
| SY30M-14-4A-1-2 | Connector with 1,5 m cable | |
| SY30M-14-4A-1-3 | Connector with 3 m cable | |
| SY30M-14-4A-1-4 | Connector with 5 m cable | |
| SY30M-14-4A-1-6 | Connector with 10 m cable | |

L connector cable - 17 wire

| Part number | Туре | |
|-----------------|--------------------------|--|
| SY30M-14-4A-2-3 | Connector with 3 m cable | |

| L connector cable – 9 wire | | |
|----------------------------|--------------------------|--|
| Part number | Туре | |
| SY30M-14-4A-3-3 | Connector with 3 m cable | |

Circular connector - 26-pin (IP67)

| Part number | Туре |
|-----------------|----------------------------|
| SY30M-14-5A | Circular connector |
| AXT100-MC26 | Connector only |
| AXT100-MC26-015 | Connector with 1,5 m cable |
| AXT100-MC26-030 | Connector with 3 m cable |
| AXT100-MC26-050 | Connector with 5 m cable |
| AXT100-MC26-080 | Connector with 8 m cable |

D-sub cable with connector - 25-pin, in accordance with MIL-norm (0,3 mm²)

| Part number | Туре |
|-----------------|--------------------------|
| VVZS3000-21A-2* | Connector with 3 m cable |
| VVZS3000-21A-3* | Connector with 5 m cable |
| VVZS3000-21A-4* | Connector with 8 m cable |

Terminal box - suitable for same manifolds as fieldbus connection

| Part number | Туре |
|---------------|-----------------------|
| VVQC1000-T0-1 | 20 connections (IP67) |



L connector cable



Circular connector



Circular connector, connector only



Circular connector. connector with cable



D-sub cable with connector

Fieldbus - all SI-units can be used with manifolds for fieldbus, see chapter 5

For other versions, contact SMC.