

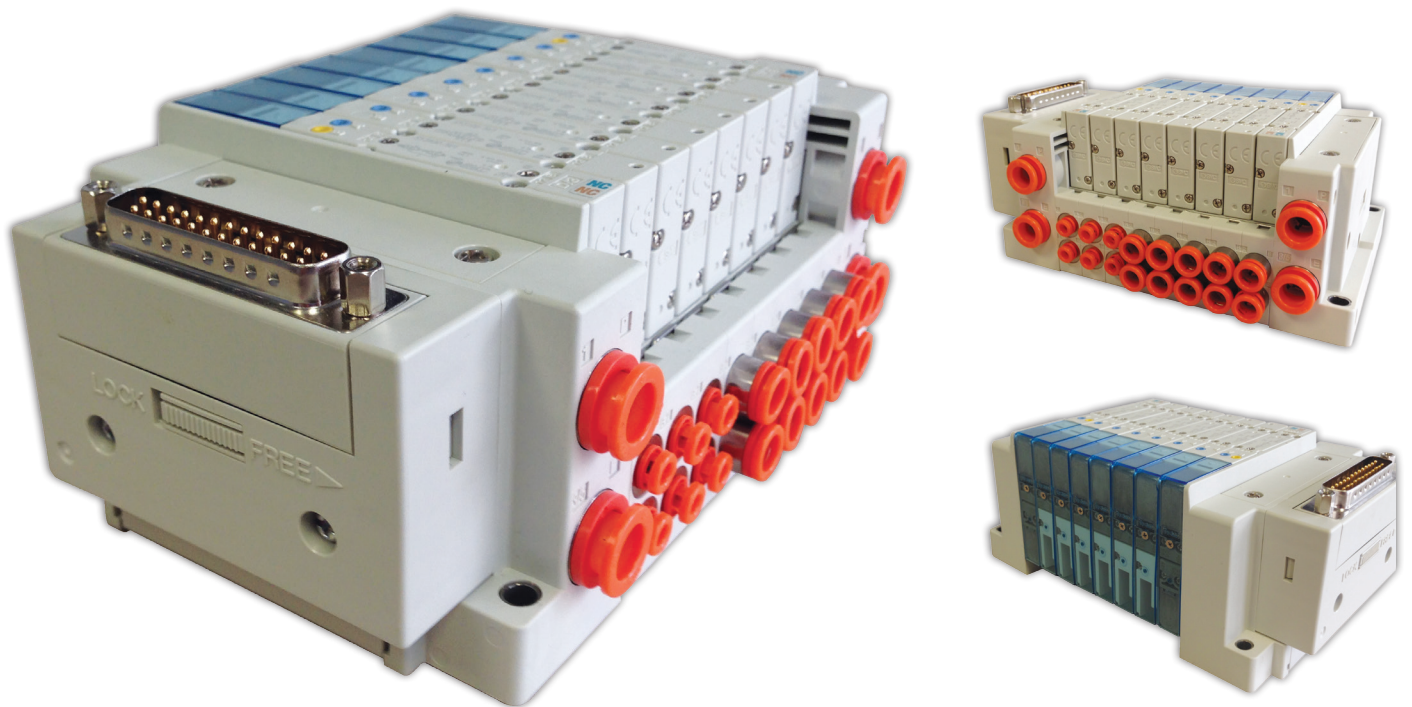
Quick Turn Solenoid Valve Manifolds

BES RAPID Manifold Technologies

MANIFOLD ASSEMBLIES

For prototyping or line down situations, count on Bay Advanced Technologies for your quick turn solenoid valve manifold requirements. We have partnered with SMC to stock SY3000 Series components to build and ship finished manifold assemblies to you in 72 hours

The SY3000 series from SMC utilizes an innovative modular design in a compact 10mm valve width. With a mere 0.4 watts power consumption and a 70 million cycle service life, SY series will save energy and downtime. Available in 24 VDC with a 25 pin D-Sub connector as standard (other voltages and connections available). Contact your local account manager or customer service representative and ask about our BES Rapid Manifold Program Today!



Product of:



An APPLIED® fluid power company

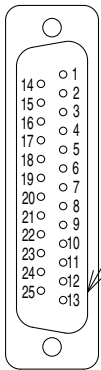
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8100 Central Ave.
Newark, CA 94560
P: 510-857-0900
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www.BayAT.com

Southern California
1715 East Newport Circle
Santa Ana, CA 92705
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Please specify if you need a D-Sub cable upon ordering;
 AXT100-DS25-030 is stocked but not included.
 Other cable lengths listed below are also available as a special order.

Electrical Wiring Specifications

D-sub connector



If alignment is not specified, the internal wiring is double wiring (connected to SOL. a and SOL. b) regardless of number of stations, valve and option types.

Connector terminal no.

Station	Terminal no.	Polarity	Station	Terminal no.	Polarity
Station 1	SOL.a 1	(-)	Station 12	SOL.a 12	(+)
	SOL.b 14	(-)		SOL.b 25	(+)
Station 2	SOL.a 2	(-)	Station 11	SOL.a 11	(+)
	SOL.b 15	(-)		SOL.b 24	(+)
Station 3	SOL.a 3	(-)	Station 10	SOL.a 10	(+)
	SOL.b 16	(-)		SOL.b 23	(+)
Station 4	SOL.a 4	(-)	Station 9	SOL.a 9	(+)
	SOL.b 17	(-)		SOL.b 22	(+)
Station 5	SOL.a 5	(-)	Station 8	SOL.a 8	(+)
	SOL.b 18	(-)		SOL.b 21	(+)
Station 6	SOL.a 6	(-)	Station 7	SOL.a 7	(+)
	SOL.b 19	(-)		SOL.b 20	(+)
Station 7	SOL.a 7	(-)	Station 6	SOL.a 6	(+)
	SOL.b 20	(-)		SOL.b 19	(+)
Station 8	SOL.a 8	(-)	Station 5	SOL.a 5	(+)
	SOL.b 21	(-)		SOL.b 18	(+)
Station 9	SOL.a 9	(-)	Station 4	SOL.a 4	(+)
	SOL.b 22	(-)		SOL.b 17	(+)
Station 10	SOL.a 10	(-)	Station 3	SOL.a 3	(+)
	SOL.b 23	(-)		SOL.b 16	(+)
Station 11	SOL.a 11	(-)	Station 2	SOL.a 2	(+)
	SOL.b 24	(-)		SOL.b 15	(+)
Station 12	SOL.a 12	(-)	Station 1	SOL.a 1	(+)
	SOL.b 25	(-)		SOL.b 14	(+)
COM. 13		(+)			(-)

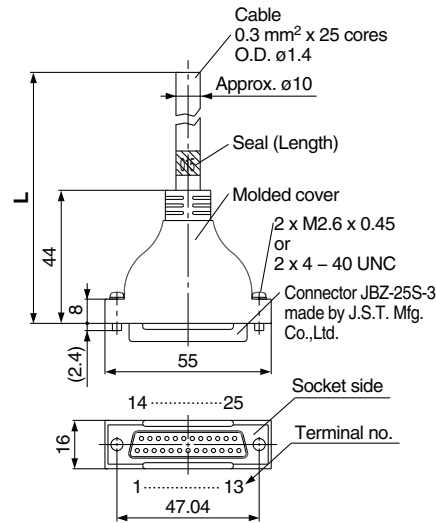
Positive common **Negative common**

Note) When using a valve with no polarity, either positive common or negative common can be used.

Cable Assembly

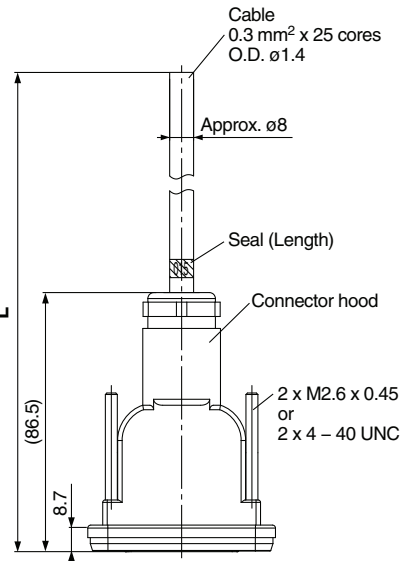
AXT100-DS25-030 (N) [IP40]

015
050
Nil: Metric
N: Inch



SY30M-DS25-030 (N) [IP67]

015
050
Nil: Metric
N: Inch



D-sub connector cable assembly [IP40]

Cable length (L)	Assembly part no.	Note
1.5 m	AXT100-DS25-015	Cable 0.3 mm² x 25 cores
3 m	AXT100-DS25-030	
5 m	AXT100-DS25-050	

- * When using a standard commercial connector, use a 25-pin type female connector conforming to MIL-C-24308.
- * Cannot be used for movable wiring.
- * Lengths other than the above are also available. Please contact SMC for details.

D-sub connector cable assembly [IP67]

Cable length (L)	Assembly part no.	Note
1.5 m	SY30M-DS25-015	Cable 0.3 mm² x 25 cores
3 m	SY30M-DS25-030	
5 m	SY30M-DS25-050	

- * Be sure to use the connector cable assembly in the table, to satisfy enclosure IP67.
- * Cannot be used for movable wiring.

Electrical characteristics

Item	Property
Conductor resistance Ω/km, 68°F (20°C)	65 or less
Voltage limit V, 1 minute, AC	1000
Insulation resistance MΩ/km, 68°F (20°C)	5 or more

Note) The minimum bending radius of the D-sub connector cable is 20 mm.

Connector Manufacturers' Example

- Fujitsu, Ltd.
- Japan Aviation Electronics Industry, Ltd.
- J.S.T. Mfg. Co., Ltd.
- Hirose Electric Co., Ltd.

D-sub connector cable assembly terminal numbers

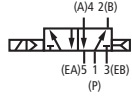
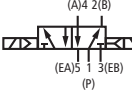
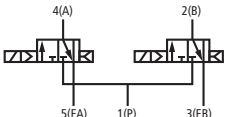
Terminal no.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Lead wire color	Black	Brown	Red	Orange	Yellow	Pink	Blue	Purple	Gray	White	White	Yellow	Orange	Yellow	Pink	Blue	Purple	Gray	Orange	Red	Brown	Pink	Gray	Black	White
Dot marking	None	None	None	None	None	None	None	White	Black	Black	Red	Red	Red	Black	White	None	None	Black	White	White	Red	Red	White	White	None



How to Order

Standard Configurations

BES-SY3-F1- **1** - **2** - **3**

① Valve Function		② Connector Size		③ Valve Stations	
ORDER CODE	DESCRIPTION	Order Code	Description	Order Code	Description
A	2-position single 	C4	4mm OD Straight	2	2 Stations
	B	2-position double 	C6	6mm OD Straight	3
C		4-position dual 3-port valve N.C. valve x 2 pcs. 	N1	1/8 OD Straight	4
	N3		5/32 OD Straight	5	5 Stations
	N7		1/4 OD Straight	6	6 Stations
				7	7 Stations
				8	8 Stations
				9	9 Stations
				10	10 Stations
				11	11 Stations
				12	12 Stations

Special Configurations

Fill in the columns below.

Company		Department		Person in charge	
Email				Repeat	Repeat Not Repeat

Order Model No. (Order with this model no.)

Manifold Model No.	BES-SY3-F1-**-****
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Specifications

		U Side	12	11	10	9	8	7	6	5	4	3	2	1	D side
Valve Type	2 position Single Solenoid		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	2 position Double Solenoid		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	4 position Dual 3 Port Valve N.C. / N.C.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Fittings (Use Order Code)	A port (mounting)														
	B port (mounting)														

A & B Fitting Options	4MM STR	6MM STR	1/8" STR	5/32" STR	1/4" EBL
Order Code:	C4	C6	N1	N3	N7

Founded in 1963, Bay Advanced Technologies provides design collaboration, engineering and assembly services for automation, mechanical, and fluid control applications.



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