

Compact Guide Cylinder

25A-MGP Series

Ø12, Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63, Ø80, Ø100



How to Order

25A - MGP M 25 - **30** Z - **M9BW**

Series compatible with secondary batteries

Compact guide cylinder

Bearing type

M	Slide bearing
L	Ball bushing

Bore size

12	12 mm
16	16 mm
20	20 mm
25	25 mm
32	32 mm
40	40 mm
50	50 mm
63	63 mm
80	80 mm
100	100 mm

Cylinder stroke [mm]

12, 16	10, 20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250
20, 25	20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400
32 to 100	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400

Port thread type

Nil	M5 x 0.8
	Rc
TN	NPT
TF	G

* For bore sizes Ø12 and Ø16, only M5 x 0.8 is available.

Number of auto switches

Nil	2
S	1
n	n

Auto switch

Nil	Without auto switch (Built-in magnet)
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* For applicable auto switches, refer to [page 207](#).

* The 25A- series specifications and dimensions are the same as those of the standard model.

[Click here for details.](#)

Directional Control Valves

Air Cylinders

Related Products

Rotary Actuators

Air Grippers

Vacuum Equipment

Air Preparation Equipment

Clean Air Filters

Modular FRL/Pressure Control Equipment

Fittings/Flow Control Equipment

Detection Switches

Fluid Control Equipment

Electric Actuators

Auto Switches

25A- Series

Applicable Auto Switches

Applicable Cylinder Series

Type	Special function	Electrical entry	Indicator light	Auto switches						Air cylinders										
				Wiring (Output)	Electrical entry direction	Auto switch model	Lead wire length [m]				Pre-wired connector	CD(B)J2	CDM2	CD(B)G1		MDB	CDA2			
							0.5 Nil	1 M	3 L	5 Z				SDPC	ø10, ø16			ø20 to ø40	ø20 to ø63	ø80, ø100
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	In-line	D-M9N-900	●	●	●	○	—	●	●	●	—	●	●			
				3-wire (PNP)		D-M9P-900	●	●	●	○	—	●	●	●	—	●	●			
				2-wire		D-M9B-900	●	●	●	○	—	●	●	●	—	●	●			
				3-wire (NPN)		Perpendicular	D-M9NV-900	●	●	●	○	—	—	—	—	—	●	●		
				3-wire (PNP)			D-M9PV-900	●	●	●	○	—	—	—	—	—	●	●		
				2-wire			D-M9BV-900	●	●	●	○	—	—	—	—	—	●	●		
	Diagnostic indication (2-color indicator)	Grommet	Yes	3-wire (NPN)	In-line	D-M9NW-900	●	●	●	○	—	●	●	●	—	●	●			
				3-wire (PNP)		D-M9PW-900	●	●	●	○	—	●	●	●	—	●	●			
				2-wire		D-M9BW-900	●	●	●	○	○	●	●	●	—	●	●			
				3-wire (NPN)		Perpendicular	D-M9NVV-900	●	●	●	○	—	—	—	—	—	●	●		
				3-wire (PNP)			D-M9PWW-900	●	●	●	○	—	—	—	—	—	●	●		
				2-wire			D-M9BWW-900	●	●	●	○	○	—	—	—	—	●	●		
	—	Grommet	Yes	3-wire (NPN)	In-line	D-Y59A-900	●	●	●	○	—	—	—	—	—	—	—			
				3-wire (PNP)		D-Y7P-900	●	●	●	○	—	—	—	—	—	—	—			
				2-wire		D-Y59B-900	●	●	●	○	—	—	—	—	—	—	—			
				3-wire (NPN)		Perpendicular	D-Y69A-900	●	●	●	○	—	—	—	—	—	—	—		
				3-wire (PNP)			D-Y7PV-900	●	●	●	○	—	—	—	—	—	—	—		
				2-wire			D-Y69B-900	●	●	●	○	—	—	—	—	—	—	—		
	Diagnostic indication (2-color indicator)	Grommet	Yes	3-wire (NPN)	In-line	D-Y7NW-900	●	●	●	○	—	—	—	—	—	—	—			
				3-wire (PNP)		D-Y7PW-900	●	●	●	○	—	—	—	—	—	—	—			
				2-wire		D-Y7BW-900	●	●	●	○	—	—	—	—	—	—	—			
				3-wire (NPN)		Perpendicular	D-Y7NVV-900	●	●	●	○	—	—	—	—	—	—	—		
				3-wire (PNP)			D-Y7PWW-900	●	●	●	○	—	—	—	—	—	—	—		
				2-wire			D-Y7BWW-900	●	●	●	○	—	—	—	—	—	—	—		
	—	Grommet	Yes	3-wire (NPN)	In-line	D-G59-900	●	—	●	○	—	—	—	—	●	—	●			
				3-wire (PNP)		D-G5P-900	●	—	●	○	—	—	—	—	●	—	●			
				2-wire		D-K59-900	●	—	●	○	—	—	—	—	●	—	●			
				3-wire (NPN)		In-line	D-G59W-900	●	—	●	○	—	—	—	—	●	—	●		
				3-wire (PNP)			D-G5PW-900	●	—	●	○	—	—	—	—	●	—	●		
				2-wire			D-K59W-900	●	—	●	○	○	—	—	—	●	—	●		
	—	Grommet	Yes	3-wire (NPN)	In-line	D-F79-900	●	—	●	○	—	—	—	—	—	—	—			
				3-wire (PNP)		D-F7P-900	●	—	●	○	—	—	—	—	—	—	—			
				2-wire		D-J79-900	●	—	●	○	—	—	—	—	—	—	—			
				3-wire (NPN)		Perpendicular	D-F7NV-900	●	—	●	○	—	—	—	—	—	—	—		
				3-wire (PNP)			D-F7PV-900	●	—	●	○	—	—	—	—	—	—	—		
				2-wire			D-F7BV-900	●	—	●	○	—	—	—	—	—	—	—		
Diagnostic indication (2-color indicator)	Grommet	Yes	3-wire (NPN)	In-line	D-F79W-900	●	—	●	○	—	—	—	—	—	—	—				
			3-wire (PNP)		D-F7PW-900	●	—	●	○	—	—	—	—	—	—	—				
			2-wire		D-J79W-900	●	—	●	○	—	—	—	—	—	—	—				
			3-wire (NPN)		Perpendicular	D-F7NVV-900	●	—	●	○	—	—	—	—	—	—	—			
			3-wire (PNP)			D-F7PWW-900	●	—	●	○	—	—	—	—	—	—	—			
			2-wire			D-F7BWW-900	●	—	●	○	—	—	—	—	—	—	—			
—	Grommet	Yes	3-wire (NPN)	Perpendicular	D-F8N-900	●	—	●	○	—	—	—	—	—	—	—				
			3-wire (PNP)		D-F8P-900	●	—	●	○	—	—	—	—	—	—	—				
			2-wire		D-F8B-900	●	—	●	○	—	—	—	—	—	—	—				
			Reed auto switch		—	Grommet	No	In-line	D-A90-900	—	—	●	—	—	●	●	●	—	●	●
									D-Z80-900	—	—	●	—	—	—	—	—	—	—	—
									Yes	In-line	D-E76A	●	—	●	—	—	—	—	—	—
D-E73A	●	—	●	—	—	—	—	—			—	—	—							
D-E80A	●	—	●	—	—	—	—	—			—	—	—							

* Solid state auto switches marked with "○" are produced upon receipt of order.

Ordering the Auto Switches

Please be aware that the order part numbers for the cylinder mounted and individual auto switches are different.

(Example) Part number for ordering D-M9BWL-900:

- Cylinder mounted type: 25A-CDJ2L16-60-M9BWL (Omit the first "D-" and the last "-900" or "-901".)
- Individual auto switch: D-M9BWL-900 (Place the order with the part number for auto switch shown in the table above.)

- * Lead wire length symbols: 0.5 m..... Nil (Example) M9NW
- 1 m..... M (Example) M9NWM
- 3 m..... L (Example) M9NWL
- 5 m..... Z (Example) M9NWZ

Applicable Auto Switches **25A- Series**

	Compact cylinders									Rodless cylinders												
	CDS2	CDUJ	CDU	CDUK	CDQS(W)	CDQ2(W)	CDBQ2		MY1B-Z	MY1H-Z	MY1B			MY1C		MY1H	MY2C	MY2H/HT	MY3	CY3R		
	ø125 to ø160	ø6 to ø20	ø10 to ø32	ø16 to ø32	ø12 to ø25	ø12 to ø100	ø125 to ø200	ø20, ø25	ø32 to ø100	ø25 to ø40	ø25 to ø40	ø16, ø20	ø50	ø63	ø16, ø20	ø25 to ø63	ø16, ø20	ø16, ø25, ø40	ø16, ø25, ø40	ø16 to ø63	ø6 to ø20	ø25 to ø63
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- Directional Control Valves
- Air Cylinders
- Related Products
- Rotary Actuators
- Air Grippers
- Vacuum Equipment
- Air Preparation Equipment
- Clean Air Filters
- Modular P.R.L./Pressure Control Equipment
- Fittings/Flow Control Equipment
- Detection Switches
- Fluid Control Equipment
- Electric Actuators
- Auto Switches

25A- Series

Applicable Cylinder Series

Auto switches																
Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Electrical entry direction	Auto switch model	Lead wire length [m]				Pre-wired connector					
							0.5	1	3	5						
							Nil	M	L	Z	SDPC					
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	In-line	D-M9N-900	●	●	●	○	—					
				3-wire (PNP)		D-M9P-900	●	●	●	○	—					
				2-wire		D-M9B-900	●	●	●	○	—					
				3-wire (NPN)		Perpendicular	D-M9NV-900	●	●	●	○	—				
				3-wire (PNP)			D-M9PV-900	●	●	●	○	—				
				2-wire			D-M9BV-900	●	●	●	○	—				
				3-wire (NPN)	In-line		D-M9NW-900	●	●	●	○	—				
				3-wire (PNP)			D-M9PW-900	●	●	●	○	—				
				2-wire			D-M9BW-900	●	●	●	○	○				
				3-wire (NPN)		Perpendicular	D-M9NWV-900	●	●	●	○	—				
				3-wire (PNP)			D-M9PWV-900	●	●	●	○	—				
				2-wire			D-M9BWB-900	●	●	●	○	○				
	3-wire (NPN)			In-line	D-Y59A-900		●	●	●	○	—					
	3-wire (PNP)				D-Y7P-900		●	●	●	○	—					
	2-wire				D-Y59B-900		●	●	●	○	—					
	3-wire (NPN)				Perpendicular	D-Y69A-900	●	●	●	○	—					
	3-wire (PNP)					D-Y7PV-900	●	●	●	○	—					
	2-wire					D-Y69B-900	●	●	●	○	—					
	3-wire (NPN)			In-line		D-Y7NW-900	●	●	●	○	—					
	3-wire (PNP)					D-Y7PW-900	●	●	●	○	—					
	2-wire					D-Y7BW-900	●	●	●	○	—					
	3-wire (NPN)				Perpendicular	D-Y7NWV-900	●	●	●	○	—					
	3-wire (PNP)					D-Y7PWV-900	●	●	●	○	—					
	2-wire					D-Y7BWB-900	●	●	●	○	—					
	3-wire (NPN)	In-line	D-G59-900	●		—	●	○	—							
	3-wire (PNP)		D-G5P-900	●		—	●	○	—							
	2-wire		D-K59-900	●		—	●	○	—							
	3-wire (NPN)		In-line	D-G59W-900	●	—	●	○	—							
	3-wire (PNP)			D-G5PW-900	●	—	●	○	—							
	2-wire			D-K59W-900	●	—	●	○	○							
	3-wire (NPN)	In-line		D-F79-900	●	—	●	○	—							
	3-wire (PNP)			D-F7P-900	●	—	●	○	—							
	2-wire			D-J79-900	●	—	●	○	—							
	3-wire (NPN)		Perpendicular	D-F7NV-900	●	—	●	○	—							
	3-wire (PNP)			D-F7PV-900	●	—	●	○	—							
	2-wire			D-F7BV-900	●	—	●	○	—							
	3-wire (NPN)	In-line		D-F79W-900	●	—	●	○	—							
	3-wire (PNP)			D-F7PW-900	●	—	●	○	—							
	2-wire			D-J79W-900	●	—	●	○	—							
	3-wire (NPN)		Perpendicular	D-F7NWV-900	●	—	●	○	—							
	2-wire			D-F7BWB-900	●	—	●	○	—							
	3-wire (NPN)			In-line	D-F8N-900	●	—	●	○	—						
	3-wire (PNP)	D-F8P-900			●	—	●	○	—							
	2-wire	D-F8B-900			●	—	●	○	—							
	—	Diagnostic indication (2-color indicator)			Grommet	Yes	3-wire (NPN)	In-line	D-A90-900	—	—	●	—	—		
			3-wire (PNP)				D-Z80-900		—	—	●	—	—			
			2-wire				D-E76A		●	—	●	—	—			
			—	Diagnostic indication (2-color indicator)			Grommet		No	2-wire	In-line	D-E73A	●	—	●	—
D-E80A												●	—	●	—	—
—												—	—	—	—	

25A- Series

Applicable Rotary Actuator Series

Type	Special function	Electrical entry	Indicator light	Auto switches					Rotary actuators										
				Wiring (Output)	Electrical entry direction	Auto switch model	Lead wire length [m]				Pre-wired connector	MSQ	MSZ	MDSUB					
							0.5 Nil	1 M	3 L	5 Z				10 to 200	10 to 50	1, 3	7, 20		
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	In-line	D-M9N-900	●	●	●	○	—	●	●	—	—				
						D-M9P-900	●	●	●	○	—	●	●	—	—				
						2-wire	D-M9B-900	●	●	●	○	—	●	●	—	—			
						3-wire (NPN)	Perpendicular	D-M9NV-900	●	●	●	○	—	●	●	—	—		
								D-M9PV-900	●	●	●	○	—	●	●	—	—		
						2-wire	D-M9BV-900	●	●	●	○	—	●	●	—	—			
				3-wire (PNP)	In-line	D-M9NW-900	●	●	●	○	—	●	●	—	—				
						D-M9PW-900	●	●	●	○	—	●	●	—	—				
						2-wire	D-M9BW-900	●	●	●	○	○	●	●	—	—			
						3-wire (NPN)	Perpendicular	D-M9NWV-900	●	●	●	○	—	●	●	—	—		
								D-M9PWV-900	●	●	●	○	—	●	●	—	—		
						2-wire	D-M9BWV-900	●	●	●	○	○	●	●	—	—			
	3-wire (NPN)	In-line	—	—	3-wire (NPN)	In-line	D-Y59A-900	●	●	●	○	—	—	—	—	—			
							D-Y7P-900	●	●	●	○	—	—	—	—	—			
							2-wire	D-Y59B-900	●	●	●	○	—	—	—	—	—		
							3-wire (NPN)	Perpendicular	D-Y69A-900	●	●	●	○	—	—	—	—	—	
									D-Y7PV-900	●	●	●	○	—	—	—	—	—	
							2-wire	D-Y69B-900	●	●	●	○	—	—	—	—	—		
	Diagnostic indication (2-color indicator)	3-wire (NPN)	In-line	—	3-wire (NPN)	In-line	D-Y7NW-900	●	●	●	○	—	—	—	—	—			
							D-Y7PW-900	●	●	●	○	—	—	—	—	—			
							2-wire	D-Y7BW-900	●	●	●	○	—	—	—	—	—		
							3-wire (NPN)	Perpendicular	D-Y7NWV-900	●	●	●	○	—	—	—	—	—	
									D-Y7PWV-900	●	●	●	○	—	—	—	—	—	
							2-wire	D-Y7BWV-900	●	●	●	○	—	—	—	—	—		
		3-wire (PNP)	In-line	—	—	3-wire (PNP)	In-line	D-S991-901*1	●	—	●	○	—	—	—	●	—		
								D-S992-901*1	●	—	●	○	—	—	—	●	—		
								D-S9P1-901*1	●	—	●	○	—	—	—	●	—		
								D-S9P2-901*1	●	—	●	○	—	—	—	●	—		
								2-wire	Perpendicular	D-T991-901*1	●	—	●	○	—	—	—	●	—
										D-T992-901*1	●	—	●	○	—	—	—	●	—
	3-wire (NPN)	Perpendicular	—	—	3-wire (NPN)	Perpendicular	D-S99V1-901*1	●	—	●	○	—	—	—	●	—			
							D-999V2-901*1	●	—	●	○	—	—	—	●	—			
							D-S9PV1-901*1	●	—	●	○	—	—	—	●	—			
							D-S9PV2-901*1	●	—	●	○	—	—	—	●	—			
							2-wire	In-line	D-T99V1-901*1	●	—	●	○	—	—	—	●	—	
									D-T99V2-901*1	●	—	●	○	—	—	—	●	—	
	3-wire (PNP)	In-line	—	—	3-wire (PNP)	In-line	D-S791-901*1	●	—	●	○	—	—	—	—	●			
							D-S792-901*1	●	—	●	○	—	—	—	—	—	●		
							D-S7P1-901*1	●	—	●	○	—	—	—	—	—	●		
							D-S7P2-901*1	●	—	●	○	—	—	—	—	—	●		
							2-wire	Perpendicular	D-T791-901*1	●	—	●	○	—	—	—	—	—	●
									D-T792-901*1	●	—	●	○	—	—	—	—	—	●
	Reed auto switch	—	Grommet	No	2-wire	In-line	D-A90-900	—	—	●	—	—	●	●	—	—			

- * Solid state auto switches marked with "○" are produced upon receipt of order.
- * Note that the individual auto switch with part number of "S□□" and "T□□" have the right-hand-type (□□□1) and the left-hand-type (□□□2).
When you order the actuator with two auto switches at the part number of the actuator, one each of the right-hand-type and the left-hand-type are shipped together with the actuator.
- * When the MHZ2-10, MHZL2-10, MHL2-10 to 40, or MHS3-32 air gripper is ordered with auto switch, mounting brackets are supplied with the air gripper.
When the auto switch is used at the square groove on the side with other cylinder bore sizes, or ordering only auto switches separately, mounting brackets (90-BMG2-012) are required. Order them separately. For details, refer to page 214.

Ordering the Auto Switches

Please be aware that the order part numbers for the rotary actuator mounted and individual auto switches are different.
 (Example) Part number for ordering D-M9BWL-900:

• Rotary actuator mounted type: 25A-MSQB-10A-M9BWL (Omit the first "D-" and the last "-900" or "-901".)	* Lead wire length symbols: 0.5 m..... Nil (Example) M9NW 1 m..... M (Example) M9NWM 3 m..... L (Example) M9NWL 5 m..... Z (Example) M9NWX
• Individual auto switch: D-M9BWL-900 (Place the order with the part number for auto switch shown in the table above.)	

*1 Lead wire for a solid state auto switch with "-901" at the end of part number has been changed to a cable for a robot use.

Applicable Air Gripper Series

Auto switches										Air grippers								Directional Control Valves									
Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Electrical entry direction	Auto switch model	Lead wire length [m]				Pre-wired connector	MHZ2	MHZL2	MHZJ2	MHZL2-X5955	MHL2	MHF2		MHS3 MHS4	MHSJ3	MHY2						
							0.5	1	3	5																	
							Nil	M	L	Z	SDPC	10 to 40	10 to 25	10 to 25	10 to 20	10 to 40	8 to 20	16 to 32	16 to 32	16 to 25							
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	In-line	D-M9N-900	●	●	●	○	—	●	●	●	●	●	●	●	●	●							
				3-wire (PNP)		D-M9P-900	●	●	●	○	—	●	●	●	●	●	●	●	●	●	●	●					
				2-wire		D-M9B-900	●	●	●	○	—	●	●	●	●	●	●	●	●	●	●	●					
				3-wire (NPN)	Perpendicular	D-M9NV-900	●	●	●	○	—	●	●	●	●	●	●	●	●	●	●	●					
				3-wire (PNP)		D-M9PV-900	●	●	●	○	—	●	●	●	●	●	●	●	●	●	●	●					
				2-wire		D-M9BV-900	●	●	●	○	—	●	●	●	●	●	●	●	●	●	●	●					
				Diagnostic indication (2-color indicator)	—	Grommet	Yes	3-wire (NPN)	In-line	D-M9NW-900	●	●	●	○	—	●	●	●	●	●	●	●	●	●			
								3-wire (PNP)		D-M9PW-900	●	●	●	○	—	●	●	●	●	●	●	●	●	●	●		
								2-wire		D-M9BW-900	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	
								3-wire (NPN)	Perpendicular	D-M9NWV-900	●	●	●	○	—	●	●	●	●	●	●	●	●	●	●	●	
								3-wire (PNP)		D-M9PWV-900	●	●	●	○	—	●	●	●	●	●	●	●	●	●	●	●	
								2-wire		D-M9B WV-900	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●
	—	—	Grommet	Yes	3-wire (NPN)	In-line	D-Y59A-900	●	●	●	○	—	●	●	—	—	●	—	—	—	—						
					3-wire (PNP)		D-Y7P-900	●	●	●	○	—	●	●	—	—	●	—	—	—	—	—					
					2-wire		D-Y59B-900	●	●	●	○	—	●	●	—	—	●	—	—	—	—	—					
					3-wire (NPN)	Perpendicular	D-Y69A-900	●	●	●	○	—	●	●	—	—	●	—	—	—	—	—					
					3-wire (PNP)		D-Y7PV-900	●	●	●	○	—	●	●	—	—	●	—	—	—	—	—					
					2-wire		D-Y69B-900	●	●	●	○	—	●	●	—	—	●	—	—	—	—	—					
	—	—	Grommet	Yes	3-wire (NPN)	In-line	D-Y7NW-900	●	●	●	○	—	●	●	—	—	●	—	—	—	—						
					3-wire (PNP)		D-Y7PW-900	●	●	●	○	—	●	●	—	—	●	—	—	—	—						
					2-wire		D-Y7BW-900	●	●	●	○	—	●	●	—	—	●	—	—	—	—						
					3-wire (NPN)	Perpendicular	D-Y7NWV-900	●	●	●	○	—	●	●	—	—	●	—	—	—	—	—					
					3-wire (PNP)		D-Y7PWV-900	●	●	●	○	—	●	●	—	—	●	—	—	—	—	—					
					2-wire		D-Y7B WV-900	●	●	●	○	—	●	●	—	—	●	—	—	—	—	—					
					—	—	Grommet	Yes	3-wire (NPN)	In-line	D-S991-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—			
									3-wire (PNP)		D-S992-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—		
									2-wire		D-S9P1-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	
											D-S9P2-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	
									3-wire (NPN)		D-T991-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—
											D-T992-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—
	3-wire (PNP)	Perpendicular	D-S99V1-901*1	●					—	●	○	—	—	—	—	—	—	—	—	—	—	—	—				
			D-999V2-901*1	●					—	●	○	—	—	—	—	—	—	—	—	—	—	—	—				
D-S9PV1-901*1			●	—					●	○	—	—	—	—	—	—	—	—	—	—	—	—					
D-S9PV2-901*1			●	—					●	○	—	—	—	—	—	—	—	—	—	—	—	—					
D-T99V1-901*1			●	—					●	○	—	—	—	—	—	—	—	—	—	—	—	—					
D-T99V2-901*1			●	—					●	○	—	—	—	—	—	—	—	—	—	—	—	—					
—	—	Grommet	Yes	3-wire (NPN)	In-line	D-S791-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—								
				3-wire (PNP)		D-S792-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—							
				2-wire		D-S7P1-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—							
				3-wire (PNP)	D-S7P2-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—						
					D-T791-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—						
					D-T792-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—						
Reed auto switch	—	Grommet	No	2-wire	In-line	D-A90-900	—	—	●	—	—	—	—	—	—	—	—	—									

- * Solid state auto switches marked with "○" are produced upon receipt of order.
- * Note that the individual auto switch with part number of "S□□" and "T□□" have the right-hand-type (□□□1) and the left-hand-type (□□□2). When you order the actuator with two auto switches at the part number of the actuator, one each of the right-hand-type and the left-hand-type are shipped together with the actuator.
- * When the MHZ2-10, MHZL2-10, MHL2-10 to 40, or MHS3-32 air gripper is ordered with auto switch, mounting brackets are supplied with the air gripper. When the auto switch is used at the square groove on the side with other cylinder bore sizes, or ordering only auto switches separately, mounting brackets (90-BMG2-012) are required. Order them separately. For details, refer to page 214.

Ordering the Auto Switches

Please be aware that the order part numbers for the air gripper mounted and individual auto switches are different.
 (Example) Part number for ordering D-M9BWL-900:

• Air gripper mounted type: 25A-MHZ2-16D-M9BWL	* Lead wire length symbols: 0.5 m..... Nil (Example) M9NW
(Omit the first "D-" and the last "-900" or "-901".)	1 m..... M (Example) M9NWM
• Individual auto switch: D-M9BWL-900	3 m..... L (Example) M9NWL
(Place the order with the part number for auto switch shown in the table above.)	5 m..... Z (Example) M9NWZ

*1 Lead wire for a solid state auto switch with "-901" at the end of part number has been changed to a cable for a robot use.

Directional Control Valves
 Air Cylinders
 Related Products
 Rotary Actuators
 Air Grippers
 Vacuum Equipment
 Air Preparation Equipment
 Clean Air Filters
 Modular P.R.L./Pressure Control Equipment
 Fittings/Flow Control Equipment
 Detection Switches
 Fluid Control Equipment
 Electric Actuators
 Auto Switches

25A- Series

Applicable Electric Actuator Series

Auto switches										Electric actuators			
Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Electrical entry direction	Auto switch model	Lead wire length [m]				Pre-wired connector	LEJS	LEY
							0.5	1	3	5		40 to 63	16 to 40
							Nil	M	L	Z	SDPC	40 to 63	16 to 40
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	In-line	D-M9N-900	●	●	●	○	—	●	●
				3-wire (PNP)		D-M9P-900	●	●	●	○	—	●	●
				2-wire		D-M9B-900	●	●	●	○	—	●	●
				3-wire (NPN)	Perpendicular	D-M9NV-900	●	●	●	○	—	●	●
				3-wire (PNP)		D-M9PV-900	●	●	●	○	—	●	●
				2-wire		D-M9BV-900	●	●	●	○	—	●	●
	Diagnostic indication (2-color indicator)	Grommet	Yes	3-wire (NPN)	In-line	D-M9NW-900	●	●	●	○	—	●	●
				3-wire (PNP)		D-M9PW-900	●	●	●	○	—	●	●
				2-wire		D-M9BW-900	●	●	●	○	○	●	●
				3-wire (NPN)	Perpendicular	D-M9NWV-900	●	●	●	○	—	●	●
				3-wire (PNP)		D-M9PWV-900	●	●	●	○	—	●	●
				2-wire		D-M9BWV-900	●	●	●	○	○	●	●

* Solid state auto switches marked with “○” are produced upon receipt of order.

* Auto switches cannot be ordered with the actuator part number. They should be ordered separately. Please refer below for ordering. One each of the right-hand-type and the left-hand-type are shipped together with the actuator.

Ordering the Auto Switches

- Individual auto switch: D-M9BWL-900
(Place the order with the part number for auto switch shown in the table above.)

* Lead wire length symbols: 0.5 m..... Nil (Example) M9NW
 1 m..... M (Example) M9NWM
 3 m..... L (Example) M9NWL
 5 m..... Z (Example) M9NWZ

25A- Series Auto Switch Mounting

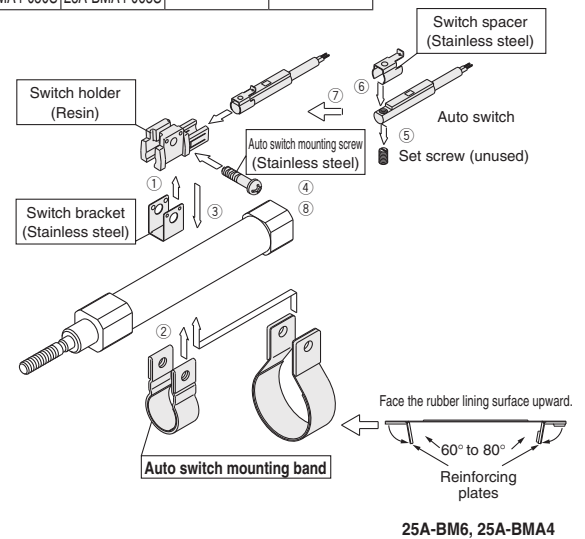
Band Mounting Type

Applicable cylinder series: 25A-CDJ2, 25A-CDBJ2, 25A-CDM2, 25A-CDG1, 25A-CDBG1, 25A-MGG
 Applicable auto switches : D-M9□-900, D-M9□W-900, D-M9BWSVPC-900, D-M9BWSVPC-900, D-A90-900

Auto Switch Mounting Bracket Part Nos.

Cylinder series	Applicable bore size [mm]									
	10	16	20	25	32	40	50	63	80	100
25A-CDJ2	*1	*1	—	—	—	—	—	—	—	—
25A-CDBJ2	25A-BJ7-010S	25A-BJ7-016S	—	—	—	—	—	—	—	—
25A-CDM2	—	—	*2 25A-BM6-020S	*2 25A-BM6-025S	*2 25A-BM6-032S	*2 25A-BM6-040S	—	—	—	—
25A-CDG1	—	—	*3 25A-BMA4-020S	*3 25A-BMA4-025S	*3 25A-BMA4-032S	*3 25A-BMA4-040S	*3 25A-BMA4-050S	*3 25A-BMA4-063S	—	—
25A-CDBG1	—	—	*3 25A-BMA4-020S	*3 25A-BMA4-025S	*3 25A-BMA4-032S	*3 25A-BMA4-040S	*3 25A-BMA4-050S	*3 25A-BMA4-063S	—	—
25A-MGG	—	—	*3 25A-BMA4-020S	*3 25A-BMA4-025S	*3 25A-BMA4-032S	*3 25A-BMA4-040S	*3 25A-BMA4-050S	*3 25A-BMA4-063S	—	—

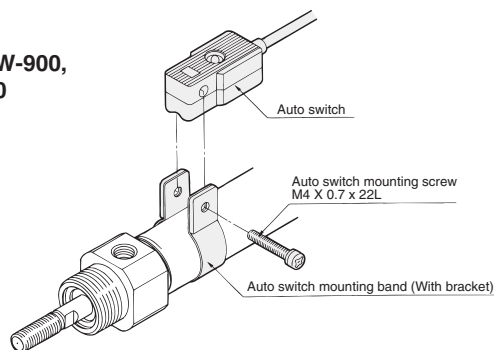
- *1 The combination of the auto switch mounting band (BJ2-□□□S/with a stainless steel screw) and the holder set (BJ3-1).
- *2 The combination of the auto switch mounting band (for BM2-□□□) and stainless steel screw (BBA4), and the holder set (BJ3-1).
- *3 The combination of the auto switch mounting band (for BMA2-□□□) and stainless steel screw (BBA4), and the holder set (BJ3-1).



Applicable cylinder series: 25A-CDG1, 25A-CDBG1
 Applicable auto switches : D-G5□-900, D-K59-900, D-G5□W-900, D-K59W-900, D-K59WSDPC-900

Auto Switch Mounting Bracket Part Nos.

Cylinder series	Applicable bore size [mm]	
	80	100
25A-CDG1	BA-08S	BA-10S
25A-CDBG1		

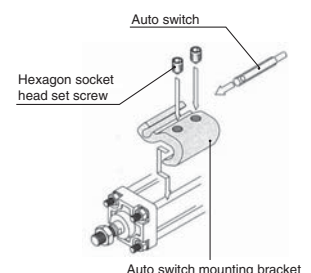


Tie-rod Mounting Type

Applicable cylinder series: 25A-MDB, 25A-CDA2, 25A-CDS2
 Applicable auto switches : D-M9□-900, D-M9□V-900, D-M9□W-900, D-M9□WV-900, D-M9BWSVPC-900, D-M9BWSVPC-900, D-A90-900

Auto Switch Mounting Bracket Part Nos.

Cylinder series	Applicable bore size [mm]									
	32	40	50	63	80	100	125	140	160	
25A-MDB	90- BMB5-032	90- BMB5-032	90- BA7-040	90- BA7-040	90- BA7-063	90- BA7-063	—	—	—	
25A-CDA2	—	90- BA7-040	90- BA7-040	90- BA7-063	90- BA7-080	90- BA7-080	—	—	—	
25A-CDS2	—	—	—	—	—	—	25A- BS6-125	25A- BS6-125	25A- BS6-160	



25A- Series

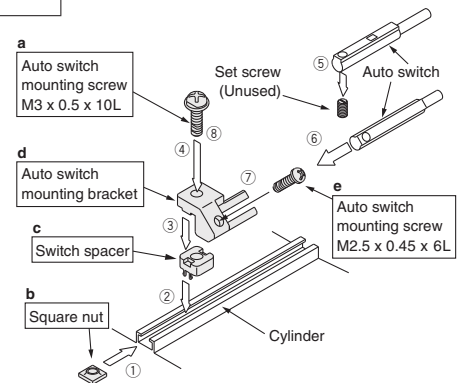
Rail Mounting Type

Applicable cylinder series: 25A-CDBQ2

Applicable auto switches : D-M9N(V)-900, D-M9P(V)-900, D-M9B(V)-900, D-M9NW(V)-900, D-M9PW(V)-900, D-M9BW(V)-900, D-M9NA(V)-900, D-M9PA(V)-900, D-M9BA(V)-900, D-A90-900

Auto Switch Mounting Bracket Part No.

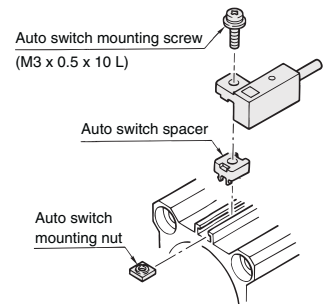
Cylinder series	Applicable bore size [mm]							
	20	25	32	40	50	63	80	100
25A-CDBQ2	—	—	25A-BQ2-032			—	—	—



Applicable auto switches: D-F79-900, D-F7P-900, D-J79-900, D-F7NV-900, D-F7PV-900, D-F7BV-900, D-F79W-900, D-F7PW-900, D-J79W-900, D-F7NWV-900, D-F7BWV-900

Auto Switch Mounting Bracket Part No.

Cylinder series	Applicable bore size [mm]								
	20	25	32	40	50	63	80	100	
25A-CDBQ2	—	—	25A-BQ-2						—

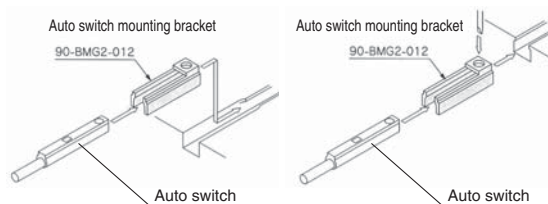


Direct Mounting Type

Applicable cylinder series : 25A-MY1B, 25A-MY1H, 25A-MY3□,
25A-CY3R, 25A-MGP-Z, 25A-MGP-AZ,
25A-MGP-H/R, 25A-RSH

Applicable air gripper series: 25A-MHZ(L) 2, 25A-MHL2, 25A-MHS3, MHS4

Applicable auto switches : D-M9□-900, D-M9□V-900, D-M9□W-900,
D-M9□WV-900, D-M9BWS DPC-900,
D-M9BWVSDPC-900
: D-A90L-900



Auto Switch Mounting Bracket Part Nos.

Cylinder series Air gripper series	Applicable bore size [mm]											
	10	12	15	16	20	25	32	40	50	63	80	100
25A-MY1B-Z	—	—	—	—	—	BMY3-016	BMY3-016	BMY3-016	—	—	—	—
25A-MY1H-Z	—	—	—	—	—	BMY3-016	BMY3-016	BMY3-016	—	—	—	—
25A-MY1B	—	—	—	Not required	Not required	—	—	—	—	90- BMG2-012	—	—
25A-MY1C	—	—	—	Not required	Not required	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	—	—
25A-MY1H	—	—	—	Not required	Not required	—	—	—	—	—	—	—
25A-MY3□	—	—	—	BMY3-016	BMY3-016	BMY3-016	BMY3-016	BMY3-016	BMY3-016	BMY3-016	—	—
25A-CY3R	—	—	Not required	—	Not required	90- BMG2-012	90- BMG2-012	90- BMG2-012	—	—	—	—
25A-MGP-Z 25A-MGP-AZ	—	Not required	—	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
25A-MGP-H/R	—	—	—	—	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012
25A-RSH	—	—	—	—	90- BMG2-012	—	90- BMG2-012	—	—	—	—	—
25A-MHZ2	90- BMG2-012	—	—	*1	*1	*1	*1	*1	—	—	—	—
25A-MHZL2	90- BMG2-012	—	—	*1	*1	*1	—	—	—	—	—	—
25A-MHL2	90- BMG2-012	—	—	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	—	—	—	—
25A-MHS3 25A-MHS4	—	—	—	Not required	Not required	Not required	90- BMG2-012	—	—	—	—	—

*1 When mounting D-M9 type of auto switch onto the square groove of the side of the air gripper, the auto switch mounting bracket (90-BMG2-012) is required.

Directional Control Valves
 Air Cylinders
 Related Products
 Rotary Actuators
 Air Grippers
 Vacuum Equipment
 Air Preparation Equipment
 Clean Air Filters
 Modular P.R.L./Pressure Control Equipment
 Fittings/Flow Control Equipment
 Detection Switches
 Fluid Control Equipment
 Electric Actuators
 Auto Switches