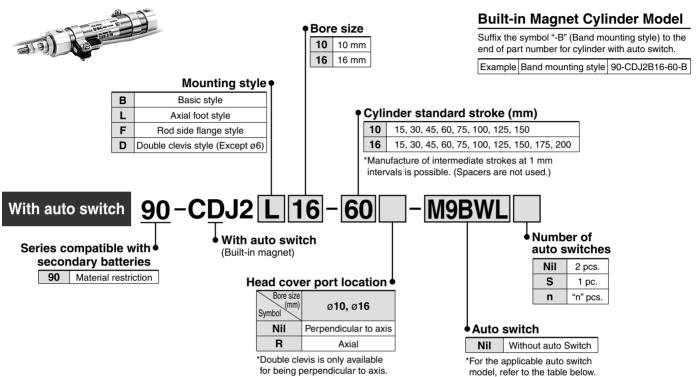
Air Cylinder: Standard Type Double Acting, Single Rod 90-CDJ2 Series Ø10, Ø16

How to Order



*Specifications and dimensios for the 90-series are the same as standard products.

Applicable Auto Switch/Refer to pages 62 to 65 for further information on auto switches

7766	Applicable Auto Switch/Heler to pages 62 to 65 for further information on auto switches.											
Туре	Special function	Electrical	Indicator	Wiring		Load	voltage	Auto switch model	Lead wire length (m)	Pre-wired connector	Applical	ole load
Type	Special fullction	entry	light	(Output)	DC		AC	Auto Switch model	3(L)	SDPC	Applical	Jie Ioau
Solid state switch	Diagnostic indication (2-color indication)	Crammat	Yes	2-wire	24 V	12 V		M9BW	•	•	1	Relay,
Reed switch	_	Grommet	No	2-wire	24 V	12 V	100 V or less	A90	•	_	IC circuit	PLĆ

^{*}Additional symbols for auto switch: Lead wire length 3 m......L Example: M9BWL With pre-wired connector.....SDPC M9BWSDPC

Mounting Bracket Part No.

Mounting brookst	Bore size (mm)								
Mounting bracket	6	10	16						
Foot bracket	90-CJ-L006B	90-CJ-L010B	90-CJ-L016B						
Flange bracket	90-CJ-F006B	90-CJ-F010B	90-CJ-F016B						



^{*}Order part numbers for auto switches alone are D-M9BWL-900, D-M9BWSDPC-900 and D-A90L-900.

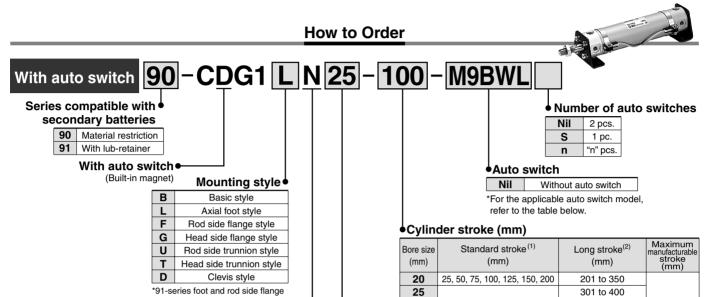
^{*}Models D-M9BWVL-900 or M9BWVSDPC-900 cannot be mounted.

^{*}The auto switch is shipped together but not assembled. (Only auto switch mounting brackets are assembled before shipment.)

^{*}Refer to pages 66 to 68 for details on auto switch mounting brackets.

1500

Air Cylinder: Standard Type Double Acting, Single Rod 90-CDG1 Series 91-CDG1 Series 920, Ø25, Ø32, Ø40, Ø50



32

40 50

Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch.

(Example) 91° CDG1FN32-100

Bore size

Rubber bumper

В	ie size
20	20 mm
25	25 mm
32	32 mm
40	40 mm
50	50 mm

Note 1) Manufacture of intermediate strokes at 1 mm intervals is possible. (Spacers are not used.)

25, 50, 75, 100, 125, 150, 200, 250, 300

Note 2) Long stroke is compatible with the axial foot and rod side flange types. When other mounting brackets are used or the long stroke exceeds the limit, the allowable maximum stroke length is determined using the stroke selection table.

301 to 450

301 to 800

301 to 1200

Applicable Auto Switch/Refer to pages 62 to 65 for further information on auto switches.

are assembled before shipment.

Туре	Special function	Electrical				Load	voltage	Auto switch model	Lead wire length (m)	Pre-wired connector	Annlical	ble load
Турс	Opecial function	entry	light	(Output)	D	С	AC	Auto switch model	3(L)	SDPC	Арріїсаі	ole load
Solid state switch	Diagnostic indication (2-color indication)	Grammat	Yes	2-wire	24.V	12 V		M9BW	•	•		Relay,
Reed switch	_	Grommet	No	z-wire	24 V	12 V	100 V or less	A90	•	_	IC circuit	PLC

^{*}Additional symbols for auto switch: Lead wire length 3 m······L Example: M9BWL With pre-wired connector······SDPC M9BWSD

Mounting Bracket Part No.

Mounting	Min.			Bore size (mm)			Description						
bracket	order	20	25	32	40	50	Description						
Foot	1	90-CG-L020	90-CG-L025	90-CG-L032	90-CG-L040	90-CG-L050	Foot x 2, Mounting bolt x 8						
Flange	1	90-CG-F020	90-CG-F025	90-CG-F032	90-CG-F040	90-CG-F050	Flange x 1, Mounting bolt x 4						
Trunnion pin	1	90-CG-T020	90-CG-T025	90-CG-T032	90-CG-T040	90-CG-T050	Trunnion pin x 2, Trunnion bolt x 2, Flat washer x 2						
Clevis	1	90-CG-D020	90-CG-D025	90-CG-D032	90-CG-D040	90-CG-D050	Clevis x 1, Mounting bolt x 4, Clevis pin x 1, Retaining ring x 2						
Pivot bracket	racket 1 90-CG-020-24A 90-CG-025-24A 90-CG-032-24A 90-CG-040-24A 90-CG-050-		90-CG-050-24A	Pivot bracket x 1									

^{*}Specifications and dimensions for the 90-series are the same as standard products.

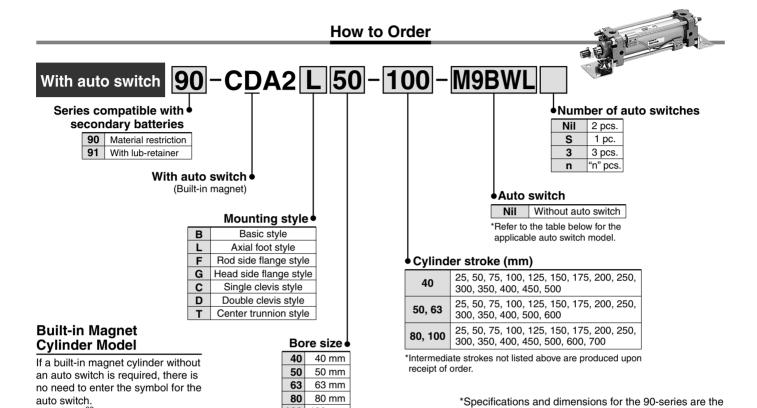
^{*}Order part numbers for auto switches alone are D-M9BWL-900, D-M9BWSDPC-900 and D-A90L-900.

^{*}Models D-M9BWVL-900 or M9BWVSDPC-900 cannot be mounted.

^{*}The auto switch is shipped together but not assembled. (Only auto swich mounting brackets are assembled before shipment.)

^{*}Refer to pages 66 to 68 for details on auto switch mounting brackets.

Air Cylinder: Standard Type Double Acting, Single Rod 90-CDA2 Series 91-CDA2 Series 940, Ø50, Ø63, Ø80, Ø100



Applicable Auto Switch/Refer to pages 62 to 65 for further information on auto switches.

100 100 mm

		Electrical	Indicator	Wiring		Load v	oltage	Auto swite	ch model	Lead wire length (m)	Pre-wired connector		
Type	Special function	entry	light	(Output)		С	AC	Perpendicular	In-line	3(L)	SDPC	Applica	ble load
Solid state switch	Diagnostic indication (2-color indication)	Grommet	Yes	2-wire	24 V	10.1/		M9BWV	M9BW	•	•	_	Relay,
Reed switch	_	Gionniet	No	Z-WIIE	24 V	V 12 V	100 V or less		A90**	•	_	IC circuit	PLC

^{*}Additional symbols for auto switch: Lead wire length 3 m······L

With pre-wired connector······SDPC

Example: M9BWL

 $^{\star\star}\text{Models D-A90L-900}$ cannot be mounted on cylinders of ø50.

same as standard products.

Mounting Bracket Part No.

(Example)₉₁₋CDA2L40-100

Bore size (mm)	40	50	63	80	100
Axial foot*	91-CA2-L04	91-CA2-L05	91-CA2-L06	91-CA2-L08	91-CA2-L10
Flange	91-CA2-F04	91-CA2-F05	91-CA2-F06	91-CA2-F08	91-CA2-F10
Single clevis	91-CA2-C04	91-CA2-C05	91-CA2-C06	91-CA2-C08	91-CA2-C10
Double clevis**	91-CA2-D04	91-CA2-D05	91-CA2-D06	91-CA2-D08	91-CA2-D10

^{*}When axial foot brackets are used, two pieces should be ordered for each cylinder.

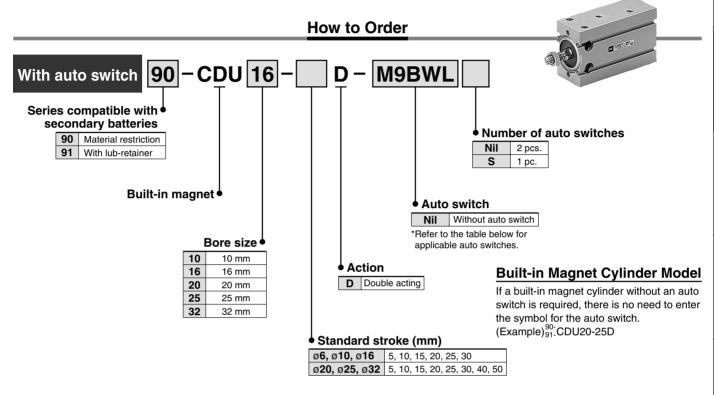
^{*}Order part numbers for auto switches alone are D-M9BW(V)L-900, D-M9BW(V)SDPC-900 and D-A90L-900.

^{*}The auto switch is shipped together but not assembled. (Only auto swich mounting brackets are assembled before shipment.)

^{*}Refer to pages 66 to 68 for details on auto switch mounting brackets.

^{**}Double clevis type is packed with clevis pin, flat washer and cotter pin.

Free Mount Cylinder Double Acting, Single Rod 90-CDU Series Ø10, Ø16, Ø20, Ø25, Ø32



^{*}Specifications and dimensions for the 90-series are the same as standard products.

Applicable Auto Switches/Refer to pages 62 to 65 for further information on auto switches

<u> </u>	ilicable Auto		100/110	or to pag	,00 OL	10 00 10	71 Tartillor IIII	Jimadon on c	tato ovvitorioc	·-			
Timo	Special function	Electrical	Indicator	Wiring	ı	Load v	oltage	Auto swit	ch model	Lead wire length (m)	Pre-wired connector	Applica	ble load
Туре	Special function	entry	light	(Output)	DC		AC	Perpendicular	In-line	3(L)	SDPC	Аррііса	DIE IUAU
Solid state switch	Diagnostic indication (2-color indication)	Grommet	Yes	2-wire	24 V	12 V		M9BWV	M9BW	•	•		Relay,
Reed switch	_	Groffinet	No	Z-WITE	24 V	12 V	100 V or less		A 90	•	_	IC circuit	PLC

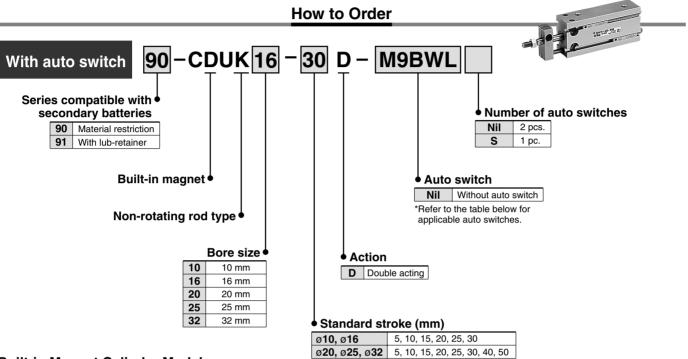
Example: M9BWL *Additional symbols for auto switch: Lead wire length 3 m-----L With pre-wired connector SDPC M9BWSDPC



^{*}Order part numbers for auto switches alone are D-M9BW(V)L-900, D-M9BW(V)SDPC-900 and D-A90L-900.

^{*}The auto switch is shipped together but not assembled.

Free Mount Cylinder: Non-rotating Rod Type Double Acting, Single Rod 90-CDUK Series Ø10, Ø16, Ø20, Ø25, Ø32



Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example) 91-CDUK20-25D

Applicable Auto Switches/Refer to pages 62 to 65 for further information on auto switches

-	<u> </u>	ilcable Auto	011110	100/110	ici to paç	JCG 02	10 00 10	or raranor init	on all on a	ato ownerior	<u>'-</u>			
	Туре	Special function	Electrical	Indicator	Wiring	I	Load v	oltage	Auto swite	ch model	Lead wire length (m)	Pre-wired connector	Applical	blo lood
	Type	Special function	entry	light	(Output)	DC		AC	Perpendicular	In-line	3(L)	SDPC	Applical	DIE IDAU
	Solid state switch	Diagnostic indication (2-color indication)	- Grommet	Yes	2-wire	24 V	12 V	_	M9BWV	M9BW	•	•		Relay,
	Reed switch	_	Groffinet			24 V 1:	12 V	100 V or less	_	A90	•		IC circuit	PLC

^{*}Additional symbols for auto switch: Lead wire length 3 m------L Example: M9BWL With pre-wired connector-----SDPC M9BWSDPC



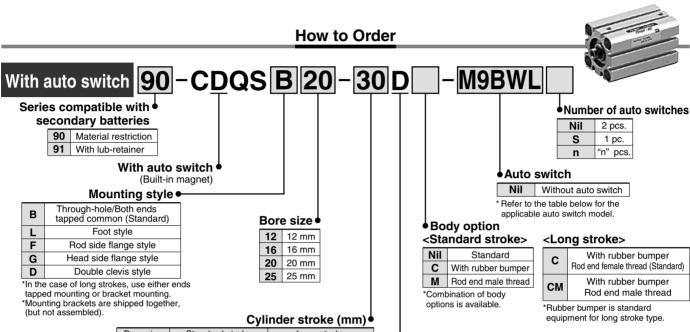
^{*}Specifications and dimensions for the 90-series are the same as standard products.

^{*}Order part numbers for auto switches alone are D-M9BW(V)L-900, D-M9BW(V)SDPC-900 and D-A90L-900.

^{*}The auto switch is shipped together but not assembled.

Compact Cylinder: Standard Type Double Acting, Single Rod 90-CDQS Series

Ø12, Ø16, Ø20, Ø25



Bore size	Standard stroke	Long stroke			
12, 16	5, 10, 15,	35, 40, 45, 50, 75, 100,			
12, 10	20, 25, 30	125, 150, 175, 200			
20		75, 100, 125,			
20	5, 10, 15, 20, 25,	150, 175, 200			
0E	30, 35, 40, 45, 50	75, 100, 125, 150,			
25		175, 200, 250, 300			

Built-in Magnet Cylinder Model Action

D Double acting

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example)₉₁-CDQSL25-30D

*Specifications and dimensions for the 90-series are the same as standard products.

Applicable Auto Switch/Refer to pages 62 to 65 for further information on auto switches.

Time	Special function	Electrical	Indicator	Wiring	ı	_oad v	oltage	Auto swite	ch model	Lead wire length (m)	Pre-wired connector	Applica	blo lood	
Type	Special function	entry	light	(Output)	D	С	AC	Perpendicular	In-line	3(L)	SDPC	Applica	Jie Ioau	
Solid state switch	Diagnostic indication (2-color indication)	Grommet	Yes	2-wire	24 V	10 V	_	M9BWV	M9BW	•	•		Relay,	
Reed switch	_	Giorillilet	No	Z-WIIE	24 V	12 V	100 V or less	_	A 90	•	_	IC circuit	PLC	

^{*}Additional symbols for auto switch: Lead wire length 3 m-----L Example: M9BWL With pre-wired connector-----SDPC M9BWSDPC

Note) Auto switches of models D-M9BWVL-900 or M9BWVSDPC-900 cannot be mounted on the port depending on cylinder stroke and fitting size. Consult SMC.

Mounting Brackets for 90-series/Part No.

ou	ng Brackete it	,, 00 001100/1 a	
Bore size (mm)	Foot (1)	Flange	Double clevis
12	90-CQS-L012	90-CQS-F012	90-CQS-D012
16	90-CQS-L016	90-CQS-F016	90-CQS-D016
20	90-CQS-L020	90-CQS-F020	90-CQS-D020
25	90-CQS-L025	90-CQS-F025	90-CQS-D025

Mounting Brackets for 91-series/Part No.

Bore size (mm)	Foot (1)	Flange	Double clevis
12	91-CQS-L012	91-CQS-F012	90-CQS-D012
16	91-CQS-L016	91-CQS-F016	90-CQS-D016
20	91-CQS-L020	91-CQS-F020	90-CQS-D020
25	91-CQS-L025	91-CQS-F025	90-CQS-D025



Note1) When ordering foot bracket, order 2 pieces per cylinder.

Note2) Parts belonging to each bracket are as follows. Foot or Flange style: Body mounting bolt

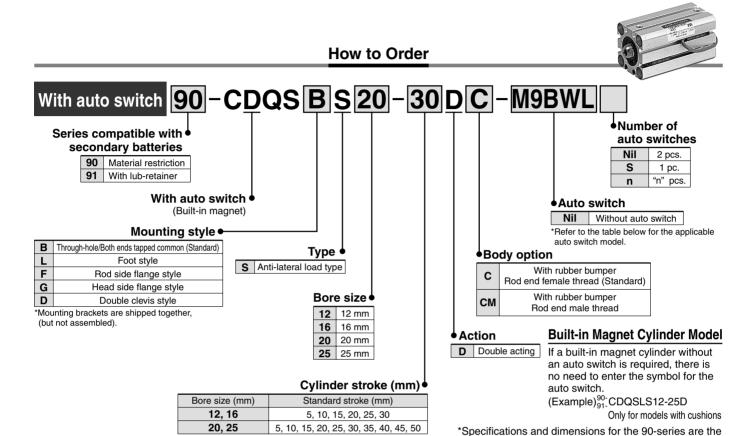
Double clevis style: Clevis pin, Type C snap ring for axis, Body mounting bolt



^{*}Order part numbers for auto switches alone are D-M9BW(V)L-900, D-M9BW(V)SDPC-900 and D-A90L-900.

^{*}The auto switch is shipped together but not assembled.

Compact Cylinder: Anti-lateral Load Type 90-CDQS Series 91-CDQS Series 912, Ø16, Ø20, Ø25



Applicable Auto Switch/Refer to pages 62 to 65 for further information on auto switches.

Time	Special function	Electrical	Indicator	Wiring	I	Load v	oltage	Auto swit	ch model	Lead wire length (m)	Pre-wired connector	Applical	ble load
Туре	Special function	entry	light	(Output)	D	C	AC	Perpendicular	In-line	3(L)	SDPC	Applical	bie ibau
Solid state switch	Diagnostic indication (2-color indication)	- Grommet	Yes	2-wire	24 V	12 V	_	M9BWV	M9BW	•	•	_	Relay,
Reed switch	_	Giorninet	No	z-wire	24 V	12 V	100 V or less	_	A 90	•	_	IC circuit	PLĆ

^{*}Additional symbols for auto switch: Lead wire length 3 m------L Example: M9BWL With pre-wired connector-----SDPC M9BWSDPC

Note) Auto switches of models D-M9BWVL-900 or M9BWVSDPC-900 cannot be mounted on the port depending on cylinder stroke and fitting size. Consult SMC.

Mounting Brackets for 90-series/Part No.

Bore size (mm)	Foot (1)	Flange	Double clevis
12	90-CQS-L012	90-CQS-F012	90-CQS-D012
16	90-CQS-L016	90-CQS-F016	90-CQS-D016
20	90-CQS-L020	90-CQS-F020	90-CQS-D020
25	90-CQS-L025	90-CQS-F025	90-CQS-D025

Mounting Brackets for 91-series/Part No.

same as standard products.

Bore size (mm)	Foot (1)	Flange	Double clevis
12	91-CQS-L012	91-CQS-F012	90-CQS-D012
16	91-CQS-L016	91-CQS-F016	90-CQS-D016
20	91-CQS-L020	91-CQS-F020	90-CQS-D020
25	91-CQS-L025	91-CQS-F025	90-CQS-D025



Note1) When ordering foot bracket, order 2 pieces per cylinder.

Note2) Parts belonging to each bracket are as follows. Foot or Flange style: Body mounting bolt

Double clevis style: Clevis pin, type C retaining ring for axis, Body mounting bolt

^{*}Order part numbers for auto switches alone are D-M9BW(V)L-900, D-M9BW(V)SDPC-900 and D-A90L-900.

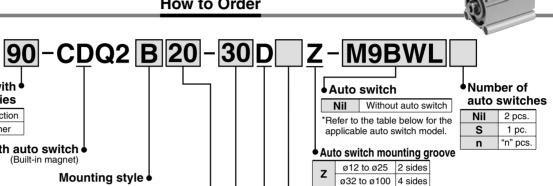
^{*}The auto switch is shipped together but not assembled.

Compact Cylinder: Standard Type Double Acting, Single Rod

CDQ2 Series

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





Action **D** Double acting Body option Nil Standard (Rod end female thread) With rubber bumper Rod end male thread *Combination of body options is available.

Cylinder stroke (mm)

	,
12, 16	5, 10, 15, 20, 25, 30
20, 25	5, 10, 15, 20, 25, 30, 35, 40, 45, 50
32, 40	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100
50 to 100	10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100

^{*}Specifications and dimensions for the 90-series are the same as standard products.

Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch.

(Example) 90-CDQ2L32-25DZ

With auto switch

Series compatible with

secondary batteries

90 Material restriction

Through-hole (Standard)

Both ends tapped style

Foot style

With auto switch

G

D

*Mounting brackets are shipped together, (but not assembled).

(Built-in magnet)

91 With lub-retainer

Annlicable Auto Switch/Pofor to

Rod side flange style

Head side flange style

Double clevis style

12

16

25

12 mm

16 mm

20 mm

25 mm

32 mm

7	licable Auto	OWITCH	I/I TEIEI T	o pages										
Typo	Special	Electrical			Load voltage			Auto swite	ch model	Lead wire length (m)	Pre-wired connector	Applical	blo lood	
Туре	function	entry	light	(Output)	DC		AC	Perpendicular	In-line	3(L)	SDPC	Applical	Applicable load	
Solid state switch	Diagnostic indication (2-color indication)	Crommot	Yes	2-wire	24.1/	12 V	_	M9BWV	M9BW	•	•		Relay,	
Reed switch	_	Grommet	No	z-wire	e 24 V		100 V or less	_	A 90	•	_	IC circuit	PLĆ	

Bore size

50

63

80

100

40 mm

50 mm

63 mm

80 mm

100 mm

Mounting Brackets for 90-series/Part No

DIACKELS IOI	90-361163/Pai	i NO.
Foot (1)	Flange	Double clevis
90-CQ-L012	90-CQ-F012	90-CQ-D012
90-CQ-L016	90-CQ-F016	90-CQ-D016
90-CQ-L020	90-CQ-F020	90-CQ-D020
90-CQ-L025	90-CQ-F025	90-CQ-D025
90-CQ-L032	90-CQ-F032	90-CQ-D032
90-CQ-L040	90-CQ-F040	90-CQ-D040
90-CQ-L050	90-CQ-F050	90-CQ-D050
90-CQ-L063	90-CQ-F063	90-CQ-D063
90-CQ-L080	90-CQ-F080	90-CQ-D080
90-CQ-L100	90-CQ-F100	90-CQ-D100
	Foot (1) 90-CQ-L012 90-CQ-L016 90-CQ-L020 90-CQ-L025 90-CQ-L032 90-CQ-L040 90-CQ-L050 90-CQ-L063 90-CQ-L080	90-CQ-L012 90-CQ-F012 90-CQ-L016 90-CQ-F016 90-CQ-L020 90-CQ-F020 90-CQ-L025 90-CQ-F025 90-CQ-L032 90-CQ-F032 90-CQ-L040 90-CQ-F040 90-CQ-L050 90-CQ-F050 90-CQ-L063 90-CQ-F063 90-CQ-L080 90-CQ-F080

Mounting Brackets for 91-series/Part No.

Bore size (mm)	Foot (1)	Flange	Double clevis
12	91-CQ-L012	91-CQ-F012	90-CQ-D012
16	91-CQ-L016	91-CQ-F016	90-CQ-D016
20	91-CQ-L020	91-CQ-F020	90-CQ-D020
25	91-CQ-L025	91-CQ-F025	90-CQ-D025
32	90-CQ-L032	90-CQ-F032	90-CQ-D032
40	90-CQ-L040	90-CQ-F040	90-CQ-D040
50	90-CQ-L050	90-CQ-F050	90-CQ-D050
63	90-CQ-L063	90-CQ-F063	90-CQ-D063
80	90-CQ-L080	90-CQ-F080	90-CQ-D080
100	90-CQ-L100	90-CQ-F100	90-CQ-D100

Note 1) When ordering foot bracket, order 2 pieces per cylinder.

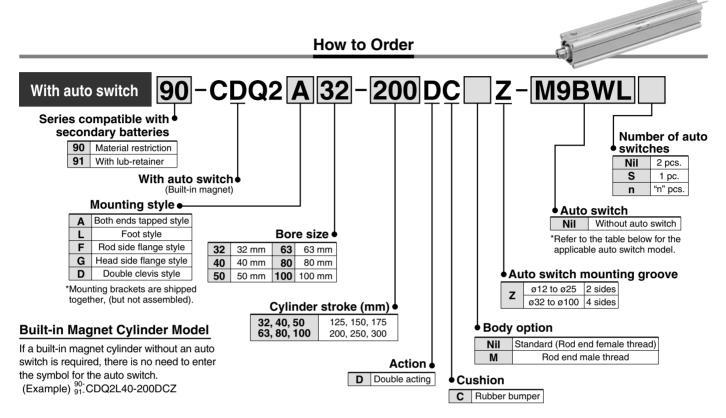
Note 2) Parts belonging to each bracket are as follows. Foot, Flange: Body mounting bolt/Double clevis: Clevis pin, Type C retaining ring for axis, body mounting bolt

Example: M9BWL *Additional symbols for auto switch: Lead wire length 3 m.-With pre-wired connectorSDPC

^{*}Order part numbers for auto switches alone are D-M9BW(V)L-900, D-M9BW(V)SDPC-900 and D-A90L-900.

^{*}When mounting the D-M9BW(V)L-900, D-M9BW(V)SDPC-900 or A90L-900 on cylinders with ø32 to ø50 other than on the port face, order the auto switch mounting bracket separately. Refer to pages 66 to 68 for details

Compact Cylinder: Long Stroke Type Double Acting, Single Rod 90-CDQ2 Series 91-CDQ2 Series 932, Ø40, Ø50, Ø63, Ø80 Ø100



^{*}Specifications and dimensions for the 90-series are the same as standard products.

Applicable Auto Switch/Refer to pages 62 to 65 for further information on auto switches

- 17-1	ilicable Auto	<u> </u>	1,110101 1	o pagee	02 10 00	ioi iaitai	or minorini	allori ori aalo	OWITOI 100.				
Туре	Special	Electrical			Load voltage		ge	Auto switch model		Lead wire length (m)	Pre-wired connector	Applical	ble load
туре	function	entry	light	(Output)	D	С	AC	Perpendicular	In-line	3(L)	SDPC	Applical	ole load
Solid state switch	Diagnostic indication (2-color indication)	Grommet	Yes	2-wire	24 V	12 V	_	M9BWV	M9BW	•	•		Relay,
Reed switch	_	dioninet	No	Z-WIIE	24 V	12 V	100 V or less	_	A 90	•	_	IC circuit	PLC

^{*}Additional symbols for auto switch: Lead wire length 3 m------L Example: M9BWL With pre-wired connector-----SDPC M9BWSDPC

Mounting Brackets for 90- and 91-series/Part No.

	nounting Endonote for our data of contest district											
Bore size (mm)	Foot (1)	Flange	Double clevis									
32	90-CQ-L032	90-CQ-F032	90-CQ-D032									
40	90-CQ-L040	90-CQ-F040	90-CQ-D040									
50	90-CQ-L050	90-CQ-F050	90-CQ-D050									
63	90-CQ-L063	90-CQ-F063	90-CQ-D063									
80	90-CQ-L080	90-CQ-F080	90-CQ-D080									
100	90-CQ-L100	90-CQ-F100	90-CQ-D100									



Note 1) When ordering foot bracket, order 2 pieces per cylinder.

Note 2) Parts belonging to each bracket are as follows.

Foot or Flange style: Body mounting bolt, Double clevis/Clevis pin,
Type C retaining ring for axis, Body mounting bolt

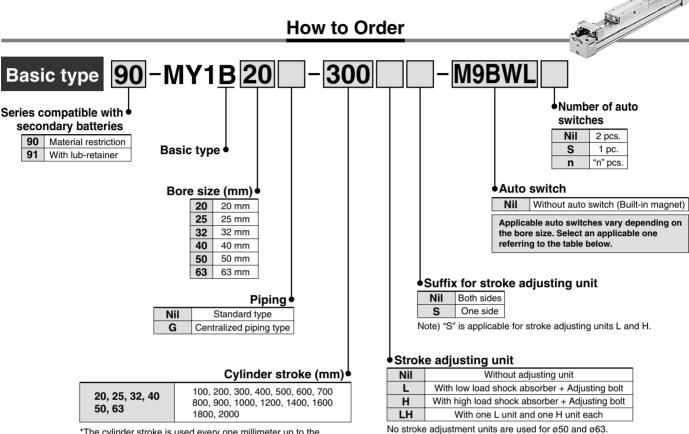


^{*}Order part numbers for auto switches alone are D-M9BW(V)L-900, D-M9BW(V)SDPC-900 and D-A90L-900.

^{*}When mounting the D-M9BW(V)L-900, D-M9BW(V)SDPC-900 or A90L-900 on cylinders with ø32 to ø50 other than on the port face, order the auto switch mounting bracket separately. Refer to pages 66 to 68 for details.

Mechanically Jointed Rodless Cylinder Basic Type 90-MY1B Series

Ø20, Ø25, Ø32, Ø40, Ø50, Ø63



^{*}The cylinder stroke is used every one millimeter up to the maximum stroke. When exceeding 2,000 mm, consult SMC.

Applicable Auto Switch Patents and cottons

<u>, , , p p</u>	ilcable Auto	0111101	I/Heler ic	pages o	2 10 00 10	i iuitiici	mormanc	ni on auto swi	iciico.				
Туре	Special function	Electrical	Indicator	r Wiring	Load voltage			Auto swit	ch model	Lead wire length (m)	Pre-wired connector	Applical	blo load
Type	Special fullclion	entry	light	(Output)	DC		AC	Perpendicular	In-line	3(L)	SDPC	Applica	bie ibau
Solid state switch	Diagnostic indication (2-color indication)	Crammat	Yes	2-wire	24 V	12 V	_	M9BWV** [Y7BWV]	M9BW** [Y7BW]	•	•		Relay,
Reed switch	_	Grommet	No	∠-wire	24 V		100 V or less	-	Z80	•	_	IC circuit	PLC"

^{*}Additional symbols for auto switch: Lead wire length 3 m-----L With pre-wired connector-----SDPC

Select auto switches from those specified in brackets [].

^{*}Specifications and dimensions for the 90-series are the same as standard products.

Example: M9BWL M9BWSDPC

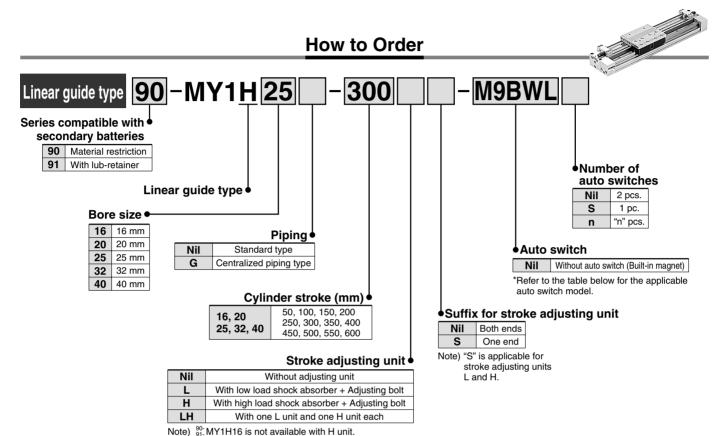
^{*}Models D-M9BW(V)L-900 or D-M9BW(V)SDPC-900 cannot be mounted

^{*}Order part numbers for auto switches alone are D-M9BW(V)L-900, D-M9BW(V)SDPC-900, D-Y7BW(V)L-900, D-Y7BW(V)SDPC-900 and D-Z80L-900.

^{*}The auto switch is shipped together but not assembled.

^{*}Refer to pages 66 to 68 for details on the auto switch mounting brackets.

Mechanically Jointed Rodless Cylinder Linear Guide Type 90-MY1H Series 91-MY1H Series 916, Ø20, Ø25, Ø32, Ø40



^{*}Specifications and dimensions for the 90-series are the same as standard products.

Applicable Auto Switch/Refer to pages 62 to 65 for further information on auto switches.

	Special function	Electrical	Indicator	Wiring	Load voltage		ge	Auto swite	ch model	Lead wire length (m)	Pre-wired connector	Applical	ble lead
Туре	Special function	entry	light	(Output)	D	DC		Perpendicular	In-line	3(L)	SDPC	Applical	bie ibau
Solid state switch	Diagnostic indication (2-color indication)	Grommet	Yes	Quire	04.1/	10.1/	_	M9BWV	M9BW	•	•		Relay, PLC
Reed switch	_	dioninier	No	- 2-wire	24 V	12 V	100 V or less	_	A 90	•	_	IC circuit	PLC

^{*}Additional symbols for auto switch: Lead wire length 3 m-------L Example: M9BWL With pre-wired connector-----SDPC M9BWSDP

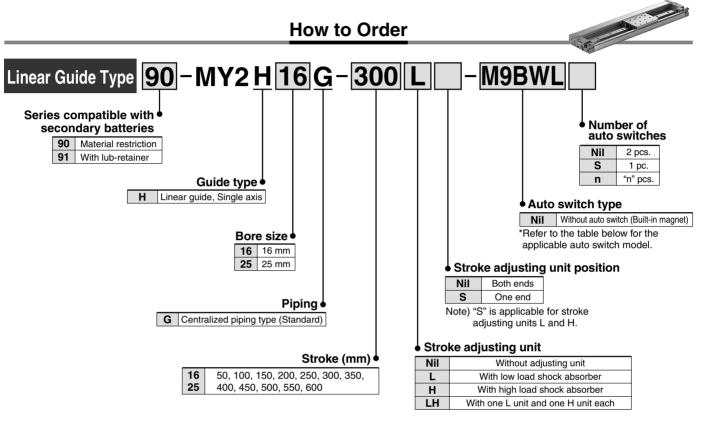


^{*}Order part numbers for auto switches alone are D-M9BW(V)L-900, D-M9BW(V)SDPC-900 and D-A90L-900.

^{*}The auto switch is shipped together but not assembled.

^{*}Refer to pages 66 to 68 for details on the auto switch mounting brackets.

Mechanically Jointed Rodless Cylinder Linear Guide Type 90-MY2H Series ø16, ø25



^{*}Specifications and dimensios for the 90-series are the same as standard products.

Applicable Auto Switch/Refer to pages 62 to 65 for the detailed specifications of auto switches

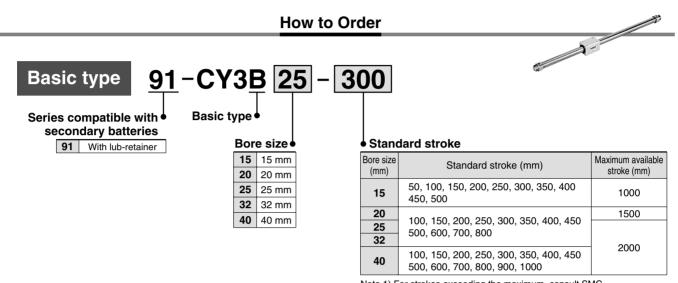
Type	Special function	Electrical	Indicator	Wiring	Lo	oad volta	ge	Auto swite	ch model	Lead wire length (m)	Pre-wired connector	Applica	bla laad
٠.	Special function	entry	light	(Output)	D	С	AC	Perpendicular	In-line	3(L)	SDPC	Applica	DIE IOAU
Solid state switch	Diagnostic indication (2-color indication)	Crommet	Yes	2-wire	24 V	12 V	_	M9BWV	M9BW	•	•	_	Relay,
Reed switch	_	Grommet	No	2-wire	24 V	12 V	100 Vor less	_	A90	•	_	IC circuit	PLC

Example: M9BWL *Additional symbols for auto switch: Lead wire length 3 m-----L With pre-wired connector SDPC M9BWSDPC

^{*}Order part numbers for auto switches alone are D-M9BW(V)L-900, D-M9BW(V)SDPC-900 and D-A90L-900.

^{*}The auto switch is shipped together but not assembled.

Magnetically Coupled Rodless Cylinder/Basic Type 91-CY3B Series ø15, ø20, ø25, ø32, ø40



^{*}Specifications and dimensions for the 91-series are the same as standard products.

Note 1) For strokes exceeding the maximum, consult SMC.

Note 2) The longer the stroke, the larger the amount of deflection in a cylinder tube. Pay attention to the mounting bracket and clearance value.

Note 3) Intermediate stroke is available by the 1 mm interval.

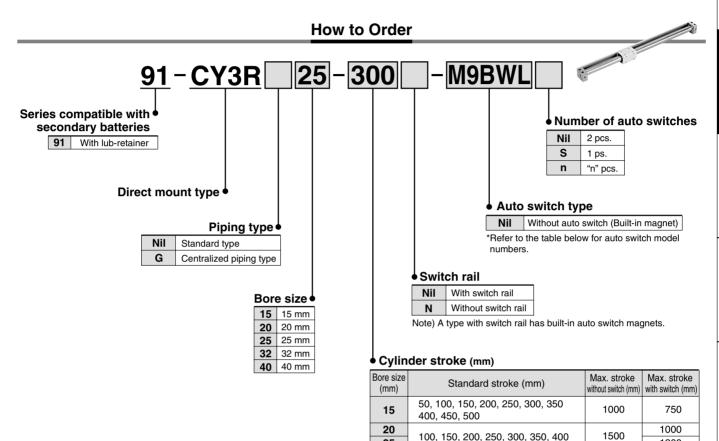
1200

1500

Magnetically Coupled Rodless Cylinder/ Direct Mount Type

91-CY3R Series

Ø15, Ø20, Ø25, Ø32, Ø40



25

32

Note 1) The longer the stroke, the larger the amount of deflection in a cylinder tube. Pay attention to the mounting bracket and clearance value.

Note 2) Intermediate stroke is available by the 1 mm interval.

100, 150, 200, 250, 300, 350, 400

450, 500, 600, 700, 800

Applicable Auto Switches/Refer to pages 62 to 65 for further information on auto switches.

Applio	ubic Auto O	11101100/110	oloi to pa	.gcs 02 t	0 00 101 1	artifici iiii	omation of	Tadio Switches.				
Type	Special function	Electrical	Indicator	Wiring		Load volta	age	Auto switch model	Lead wire length (m)	Pre-wired connector	Applica	ble load
Type	Special function	entry	light	(output)	D	С	AC	Auto Switch model	3(L)	SDPC	Applica	bie ioau
Solid state switch	Diagnostic indication (2-color display)	Grommet	Yes	2-wire	24 V	12 V	_	M9BW	•	•	l	Relay,
Reed switch	-	Groninet	No	Z-wile	24 V	12 V	100 V or less	A90	•		IC circuit	PLC

^{*}Additional symbols for auto switch: Lead wire length 3 m------L Example: M9BWL With pre-wired connector-----SDPC M9BWSDPC

^{*}Refer to pages 66 to 68 for details on the auto switch mounting brackets.



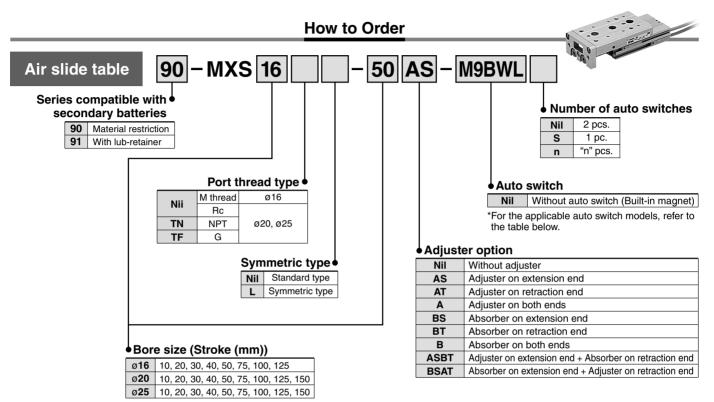
^{*}Specifications and dimensions for the 91-series are the same as standard products.

^{*}Order part numbers for auto switches alone are D-M9BWL-900, D-M9BWSDPC-900 and D-A90L-900.

 $^{^\}star \text{Models}$ D-M9BWVL-900 or M9BWVSDPC-900 cannot be mounted.

^{*}The auto switch is shipped together but not assembled.

Air Slide Table 90-MXS Series



^{*}Specifications and dimensions for the 90-series are the same as standard products.

Applicable Auto Switches/Refer to pages 62 to 65 for further information on auto switches.

Туре	Special	Electrical	Indicator	Wiring	Lo	ad volta	ge	Auto swite	ch model	Lead wire length (m)	Pre-wired connector	Applica	ble load
	function	entry	light	(Output)	D	DC		Perpendicular	In-line	3(L)	SDPC	Аррііса	ole load
Solid state switch	Diagnostic indication (2-color indication)	Grommet	Yes	2-wire	24 V	12 V	_	M9BWV	M9BW	•	•		Relay,
Reed switch	-	Gionine	No	Z-wile	24 V	12 V	100 V or less	_	A 90	•	_	IC circuit	PLC

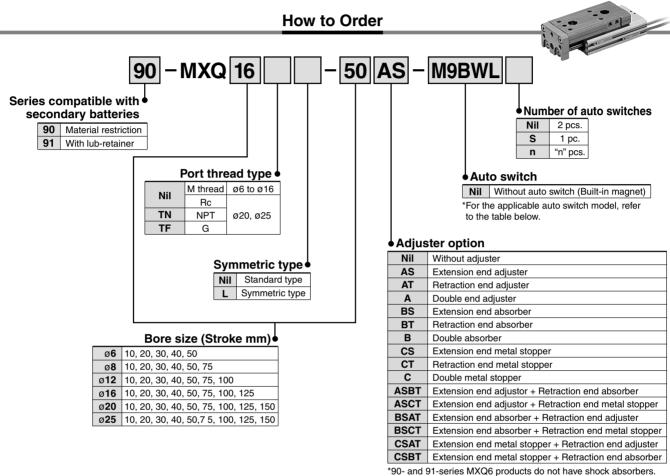
^{*}Additional symbols for auto switch: Lead wire length 3 m------L Example: M9BWL With pre-wired connector-----SDPC M9BWSDPC



^{*}Order part numbers for auto switches alone are D-M9BW(V)L-900, D-M9BW(V)SDPC-900 and D-A90L-900.

^{*}The auto switch is shipped together but not assembled.

Air Slide Table 90-**MXQ** Series 91-**MXQ** Series 96, Ø8, Ø12, Ø16, Ø20, Ø25



⁻ and 91-series MAQ6 products do not have shock absorbers

Applicable Auto Switch/Refer to pages 62 to 65 for the detailed specifications of auto switches.

Туре	Special	Electrical	Indicator	Wiring	Lo	ad volta	ge	Auto swite	ch model	Lead wire length (m)	Pre-wired connector	Appli	cable
туре	function	entry	light	(Output)	D	С	AC	Perpendicular	In-line	3(L)	SDPC	loa	ad
Solid state switch	Diagnostic indication (2-color indication)	Grommet	Yes	2-wire	24 V	12 V	_	M9BWV	M9BW	•	•	_	Relay,
Reed switch	_	Gionine	No	Z-wile	24 V	12 V	100 V or less	_	A 90	•	_	IC circuit	PLC

^{*}Additional symbols for auto switch: Lead wire length 3 m······L

With pre-wired connector······SDPC

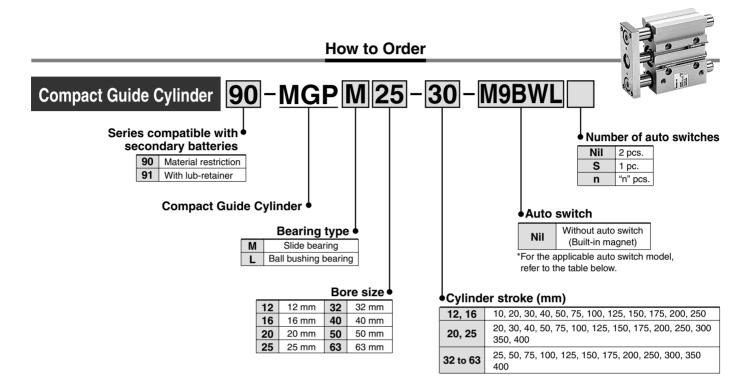
Example: M9BWL M9BWSDPC

^{*}Specifications and dimensions for the 90-series are the same as standard products.

^{*}Order part numbers for auto switches alone are D-M9BW(V)L-900, D-M9BW(V)SDPC-900 and D-A90L-900.

^{*}The auto switch is shipped together but not assembled.

Compact Guide Cylinder 90-MGP Series Ø12, Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63



^{*}Specifications and dimensions for the 90-series are the same as standard products.

Applicable Auto Switch/Refer to pages 62 to 65 for further information on auto switches

4	, ibbii	Cable Aut	5 0 1111101	1/1 toloi t	o pageo	02 10 00	ioi iai tiit	JI 1111011111	ation on auto	OWITOTIOO.				
	Туре	Special	Electrical	Indicator	Wiring	Lo	ad volta	ge	Auto swite	ch model	Lead wire length (m)	Pre-wired connector	Applica	ble load
	Type	function	entry	light	(Output)	D	DC		Perpendicular	In-line	3(L)	SDPC	Аррііса	DIE IUAU
	Solid state switch	Diagnostic indication (2-color indication)	Grommet	Yes	2-wire	24 V	12 V	_	M9BWV	M9BW	•	•		Relay,
	Reed switch	_	Gionnie	No	Z-WIIE	24 V		100 V or less	-	A 90	•		IC circuit	PLC

^{*}Additional symbols for auto switch: Lead wire length 3 m-------L Example: M9BWL With pre-wired connector-----SDPC M9BWSDPC

Minimum Operating Pressure for Products for 91-series Specifications

Bore size (mm)	12, 16, 20, 25	32, 40, 50, 63
Minimum operating pressure	0.2MPa	0.15MPa

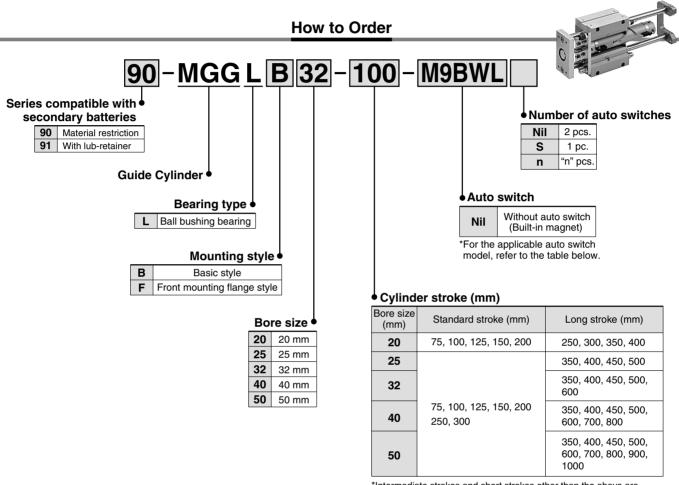


^{*}Order part numbers for auto switches alone are D-M9BW(V)L-900, D-M9BW(V)SDPC-900 and D-A90L-900.

^{*}The auto switch is shipped together but not assembled.

^{*}Refer to pages 66 to 68 for details on the auto switch mounting brackets.

Guide Cylinder 90-MGG Series Ø20, Ø25, Ø32, Ø40, Ø50



^{*}Intermediate strokes and short strokes other than the above are produced upon receipt of order.

Specifications for the 91-series are the same as standard products.

Applicable Auto Switch/Refer to pages 62 to 65 for further information on auto switches.

Туре	Special	Electrical				ad volta	ge	Auto switch model	Lead wire length (m)	Pre-wired connector		cable
Туре	function	entry	light	(Output)	D	С	AC	Auto Switch model	3(L)	SDPC	lo	ad
Solid state switch	Diagnostic indication (2-color indication)	Grommet	Yes	2-wire	24 V	12 V	_	M9BW	•	•		Relay,
Reed switch	_	CHOMIME	No	2-WII6	24 V	12 V	100 V or less	A90	•	_	IC circuit	PLC

^{*}Additional symbols for auto switch: Lead wire length 3 m-----Example: M9BWL With pre-wired connector-----SDPC

M9BWSDPC

^{*}Specifications and dimensions for the 90-series are the same as standard products.

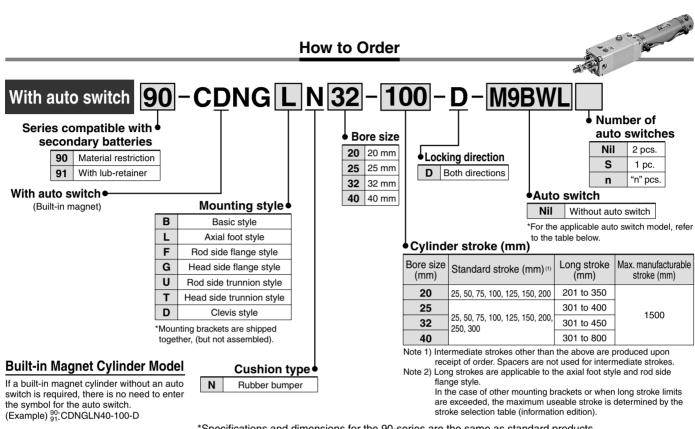
^{*}Order part numbers for auto switches alone are D-M9BWL-900, D-M9BWSDPC-900 and D-A90L-900.

^{*}Models D-M9BWVL-900 or M9BWVSDPC-900 cannot be mounted.

^{*}The auto switch is shipped together but not assembled. (Only auto switch mounting brackets are assembled before shipment.)

^{*}Refer to pages 66 to 68 for details on the auto switch mounting brackets.

Cylinder with Lock Double Acting, Single Rod 90-CDNG Series 91-CDNG Series 920, Ø25, Ø32, Ø40



*Specifications and dimensions for the 90-series are the same as standard products. Specifications for the 91-series are the same as standard products.

Applicable Auto Switch/Refer to pages 62 to 65 for further information on auto switches

Туре	Special	Electrical				ad volta	ge AC	Auto switch model	Lead wire length (m)	Pre-wired connector	Applical	ole load
1900	function	entry	light	(Output)	D	DC		Auto ownon model	3(L)	SDPC		
Solid state switch	Diagnostic indication (2-color indication)	Grommet	Yes	2-wire	24 V	12 V	_	M9BW	•	•		Relay,
Reed switch	_	Gioiliffiet	No	Z-WIFE	24 V	12 V	100 V or less	A90	•	_	IC circuit	PLĆ

^{*}Additional symbols for auto switch: Lead wire length 3 m------L Example: M9BWL With pre-wired connector-----SDPC M9BWSDPC

Mounting Bracket Part No.

Mounting bracket		Bore siz	ze (mm)	
Woulding bracket	20	25	32	40
Axial foot *	91-CNG-L020	91-CNG-L025	91-CNG-L032	91-CNG-L040
Flange	91-CNG-F020	91-CNG-F025	91-CNG-F032	91-CNG-F040
Trunnion pin	90-CG-T020	90-CG-T025	90-CG-T032	90-CG-T040
Clevis **	90-CG-D020	90-CG-D025	90-CG-D032	90-CG-D040
Rod side pivot bracket	91-CNG-020-24	91-CNG-025-24	91-CNG-032-24	91-CNG-040-24
Head side pivot bracket	90-CG-020-24A	90-CG-025-24A	90-CG-032-24A	90-CG-040-24A

^{*}When ordering foot bracket, order 2 pieces per cylinder.

^{*}Order part numbers for auto switches alone are D-M9BWL-900, D-M9BWSDPC-900 and D-A90L-900.

^{*}Models D-M9BWVL-900 or M9BWVSDPC-900 cannot be mounted.

^{*}The auto switch is shipped together but not assembled. (Only auto switch mounting brackets are assembled before shipment.)

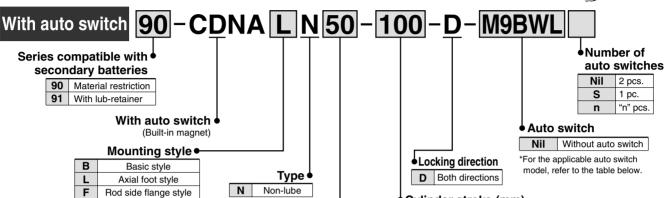
^{*}Refer to pages 66 to 68 for details on the auto switch mounting brackets.

^{**}Clevis pin, retaining ring, and mounting bolt are shipped together with clevis style.

^{***}Mounting bolts are included with the foot and flange styles.

Cylinder with Lock **Double Acting, Single Rod** 90-CDNA Series Ø40, Ø50, Ø63, Ø80, Ø100





Bore size

50

63

80

100

40 mm

50 mm

63 mm

80 mm

100 mm

Built-in Magnet Cylinder Model

G

C

D

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch (Example) 90-CDNALN40-100-D

Head side flange style

Single clevis style

Double clevis style Center trunnion style

Specifications for the 91-series are the same as standard products.

Cylin	der stroke (mm)	
Bore siz (mm)	Standard stroke (mm) (1)	Long stroke (mm) (2)
40	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500	800
50, 63	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600	1000
80, 100	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600, 700	ø80: ø100:

Note 1) Intermediate strokes other than the above are produced upon receipt of order. Spacers are not used for intermediate strokes Note 2) Long stroke applies to the axial foot style and the rod side flange

> When exceeding the stroke range for each bracket, determine the maximum strokes referring to the Selection Table (front matter 29 in Best Pneumatics No. 2).

Applicable Auto Switch/Refer to pages 62 to 65 for further information on auto switches.

Туре	Special	Electrical	Indicator	Wiring	Lo	ad volta	ge	Auto swite	ch model	Lead wire length (m)	Pre-wired connector	Applical	ble load
Type	function	entry	light	(Output)	D	C AC		Perpendicular	In-line	3(L)	SDPC	Арріісаі	bie ibau
Solid state switch	Diagnostic indication (2-color indication)	0	Yes	O win-	041/	10.1/	_	M9BWV	M9BW	•	•	_	Relay,
Reed switch	_	Grommet	No	2-wire	24 V	12 V	100 V or less	_	A90**	•	_	IC circuit	PLĆ

M9BWSDPC

Mounting Bracket Part No.

Bore size (mm)	40	50	63	80	100
Foot *	90-CA1-L04	90-CA1-L05	90-CA1-L06	90-CA1-L08	90-CA1-L10
Flange	90-CA1-F04	90-CA1-F05	90-CA1-F06	90-CA1-F08	90-CA1-F10
Single clevis	90-CA1-C04	90-CA1-C05	90-CA1-C06	90-CA1-C08	90-CA1-C10
Double clevis **	90-CA1-D04	90-CA1-D05	90-CA1-D06	90-CA1-D08	90-CA1-D10

When ordering foot bracket, order 2 pieces per cylinder.

**Models D-A90L-900 cannot be mounted on cylinders of ø50.

^{**}Clevis pin, plain washer, and cotter pin are shipped together with double clevis style.



^{*}Specifications and dimensions for the 90-series are the same as standard products.

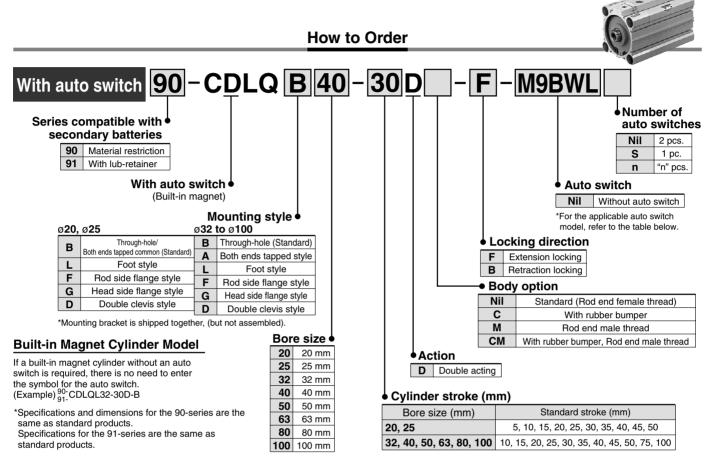
^{*}Additional symbols for auto switch: Lead wire length 3 m-----L Example: M9BWL With pre-wired connector-----SDPC

^{*}Order part numbers for auto switches alone are D-M9BW(V)L-900, D-M9BW(V)SDPC-900 and D-A90L-900.

^{*}The auto switch is shipped together but not assembled. (Only auto switch mounting brackets are assembled before shipment.)

^{*}Refer to pages 66 to 68 for details on the auto switch mounting brackets

Compact Cylinder with Lock Double Acting, Single Rod 90-CDLQ Series 91-CDLQ Series 920, Ø25, Ø32, Ø40, Ø50, Ø63, Ø80, Ø100



Applicable Auto Switch/Refer to pages 62 to 65 for detailed specifications of auto switches.

Туре	Special	Electrical	Indicator	Wiring	Lo	oad volta	ge	Auto switch model		Lead wire length (m)	Pre-wired connector	Applica	ble load
Type	function	entry	light	(Output)	DC		AC	Perpendicular	In-line	3(L)	SDPC	Applica	DIE IUAU
Solid state switch	Diagnostic indication (2-color indication)	Grommet	Yes	- 2-wire	24 V	12 V	_	M9BWV	M9BW	•	•	— Bela	Relay,
Reed switch	_		No				100 V or less	_	A 90	•	_	IC circuit	PLC

^{*}Additional symbols for auto switch: Lead wire length 3 m------L Example: M9BWL With pre-wired connector-----SDPC M9BWSDPC

Mounting Bracket Part No.

Bore size (mm)	Foot (1)	Flange	Double clevis (3)	Bore size (mm)	Foot (1)	Flange	Double clevis (3)	
20	91-CLQ-L020	91-CLQ-F020	91-CLQ-D020	50	91-CLQ-L050	91-CLQ-L050 91-CLQ-F050		
25	91-CLQ-L025	91-CLQ-F025	91-CLQ-D025	63	91-CLQ-L063	91-CLQ-F063	91-CLQ-D063	
32	91-CLQ-L032	91-CLQ-F032	91-CLQ-D032	80	91-CLQ-L080	91-CLQ-F080	91-CLQ-D080	
40	91-CLQ-L040	91-CLQ-F040	91-CLQ-D040	100	91-CLQ-L100	91-CLQ-F100	91-CLQ-D100	

Note1) When ordering foot bracket, order 2 pieces per cylinder.

Note3) Clevis pin and retaining ring are included with the double clevis style.



^{*}Order part numbers for auto switches alone are D-M9BW(V)L-900, D-M9BW(V)SDPC-900 and D-A90L-900.

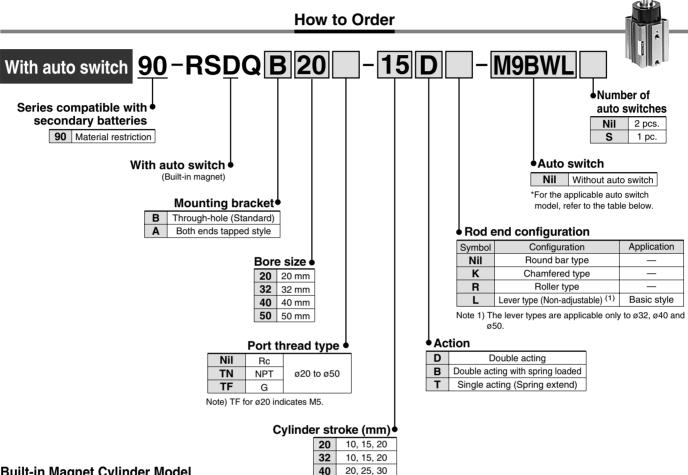
^{*}When mounting the D-M9BW(V)L-900, M9BW(V)SDPC-900, or A90L-900 on cylinders with ø32 to ø50 other than on the port face, order the auto switch mounting brackets separately. Refer to page 66 for details.

^{*}When using mounting brackets (foot, head side flange, or double clevis), an auto switch may or may not be mounted later. Confirm specifications.

Note2) Parts belonging to each bracket are as follows. Foot, Flange: Body mounting screws, Double clevis: Clevis pin, type C retaining ring for shaft, Body mounting screws, Flat washer.

Stopper Cylinder / Fixed Mounting Height 90-RSDQ Series

Ø20, Ø32, Ø40, Ø50



Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example) 90-RSDQB32-15D

*Specifications and dimensions for the 90-series are the same as standard products.

Applicable Auto Switch/Refer to pages 62 to 65 for further information on auto switches.

Type	Special E function	Electrical entry	Indicator	Wiring	Load voltage			Auto switch model		Lead wire length (m)	Pre-wired connector	Applica	ble lead
Type			light	(Output)	DC		AC	Perpendicular	In-line	3(L)	SDPC	Applicable load	
Solid state switch	Diagnostic indication (2-color indication)	Grommet	Yes		24 V 1	12 V	_	M9BWV	M9BW	•	•		Relay,
Reed switch	_		No	2-wire		1	100 V or less	_	A 90	•	_		PLC

20, 25, 30

50

^{*}When mounting the D-M9BW(V)L-900, M9BW(V)SDPC-900, or A90L-900 on cylinders with ø32 to ø50 other than on the port face, order the auto switch mounting brackets separately. Refer to page 66 for details.

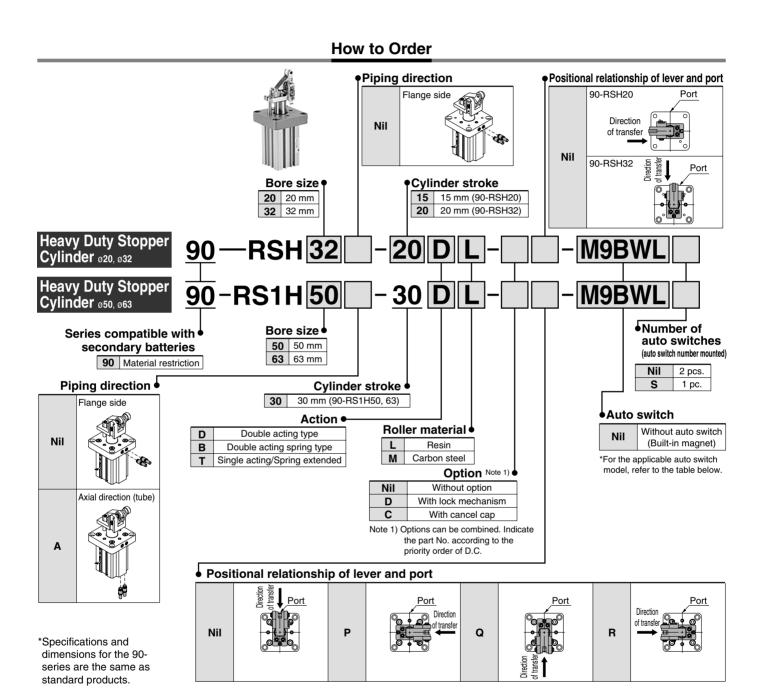


^{*}Additional symbols for auto switch: Lead wire length 3 m-----L Example: M9BWL With pre-wired connector-----SDPC

^{*}Order part numbers for auto switches alone are D-M9BW(V)L-900, D-M9BW(V)SDPC-900 and D-A90L-900.

Heavy Duty Stopper Cylinder 90-RSH/RS1H Series

Ø20, Ø32 Ø50, Ø63



Applicable auto switches/Refer to pages 62 to 65 for detailed auto switch specifications.

-	Applicable date of the left to pages of to do for detailed auto switch specifications.													
Туре	Special	Electrical	Indicator	Wiring	Lo	oad volta	ge Auto switch model		ch model	Lead wire length (m)	Pre-wired connector	Applicat	ble load	
		function	entry	light	(Output)	D	DC AC Perpendicular In-line 3(L	3(L)	SDPC	Applical	Jie Ioau			
	Solid state switch	Diagnostic indication (2-color indication)		Yes		24 V	12 V	_	M9BWV	M9BW	•	•	_	Relay,
	Reed switch	_	Grommet	No	2-wire	24 V	12 V	100 V or less		Z80	•	_	IC circuit	PLC

^{*}Additional symbols for auto switch: Lead wire length 3 m------L Example: M9BWL With pre-wired connector-----SDPC M9BWSDPC

^{*}Refer to pages 66 to 68 for details on the auto switch mounting brackets.



^{*}Order part numbers for auto switches alone are D-M9BW(V)L-900, D-M9BW(V)SDPC-900 and D-Z80L-900.

 $^{{}^\}star \text{The}$ auto switch is shipped together but not assembled.