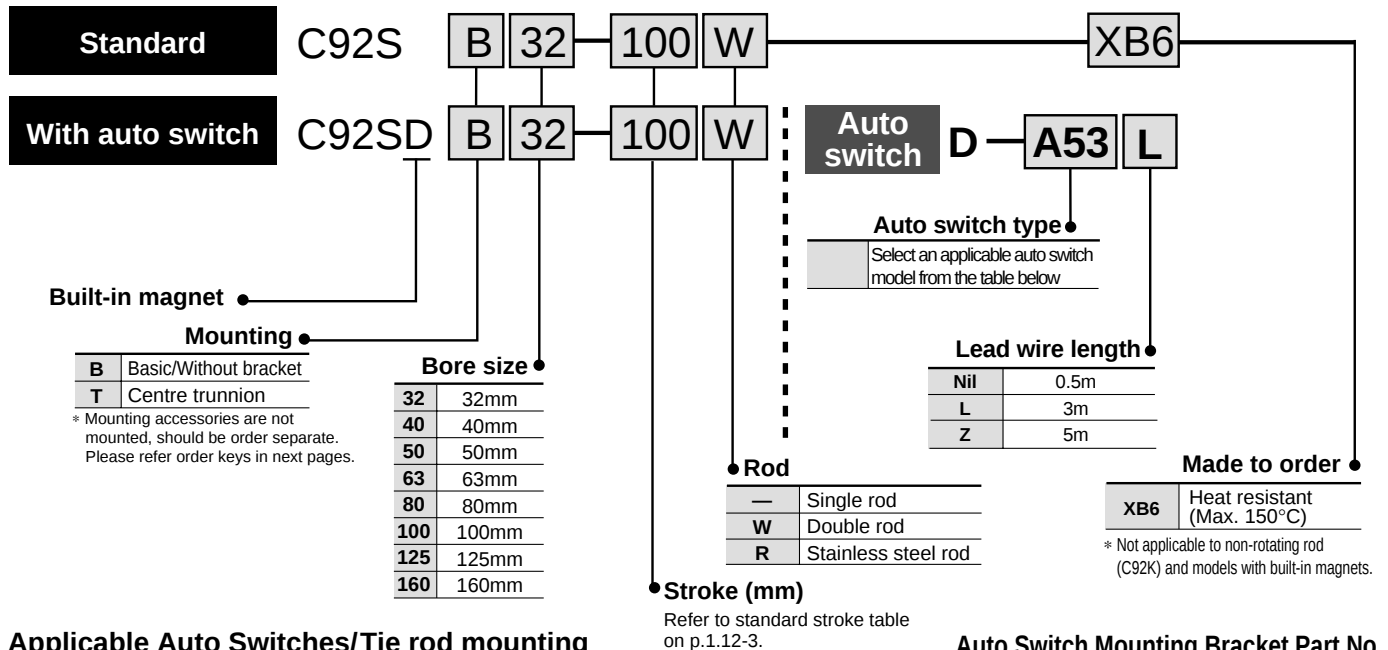


ISO Cylinder/Standard: Double Acting Series C92

ø32, ø40, ø50, ø63, ø80, ø100, ø125, ø160

How to Order



Applicable Auto Switches/Tie rod mounting

Style	Special function	Electrical entry	Indicator	Load voltage			Auto switch model	Lead wire (m)*			Applicable load	
				Wiring (Output)	DC	AC		0.5 (—)	3 (L)	5 (Z)		
Reed switch	—	Grommet	Yes	3 wire (Equiv. to NPN)	—	5V	A56	●	●	—	IC	—
				2 wire	12V	—	A53	●	●	●	—	—
					5V, 12V	100V, 200V	A54	●	●	●	—	—
					5V, 12V	—	A67	●	●	—	—	—
Solid state switch	Diagnosis indication (2 colour)	Grommet	Yes	12V	200V or less	—	A64	●	●	—	IC	—
				—	—	—	A59W	●	●	—	—	—
				3 wire (NPN)	24V	5V, 12V	F59	●	●	○	IC	—
				3 wire (PNP)	—	100V, 200V	F5P	●	●	○	—	—
				2 wire	12V	—	J51	●	●	○	—	—
				3 wire (NPN)	5V, 12V	—	J59	●	●	○	—	—
				3 wire (PNP)	—	—	F59W	●	●	○	IC	—
				2 wire	12V	—	F5PW	●	●	○	—	—
				3 wire (NPN)	5V, 12V	—	J59W	●	●	○	IC	—
				4 wire (NPN)	—	—	F5BA	—	●	○	—	—
				—	—	—	F5NT	—	●	○	IC	—
				—	—	—	F59F	●	●	○	—	—
				—	—	—	F5LF	●	●	○	—	—

* Lead wire length 0.5m..... — (Example: A53)
3m..... L (Example: A53L)
5m..... Z (Example: A53Z)

○: Manufactured upon receipt of order.

Mounting Bracket Part No.

Bore size	ø32	ø40	ø50	ø63	ø80	ø100	ø125	ø160
Foot ⁽¹⁾	L32	L40	L50	L63	L80	L100	L125	L160
Flange	F32	F40	F50	F63	F80	F100	F125	F160
Single rear clevis	C32	C40	C50	C63	C80	C100	C125	C160
Double rear clevis	D32	D40	D50	D63	D80	D100	D125	D160

Note 1) Two foot brackets required for one cylinder.

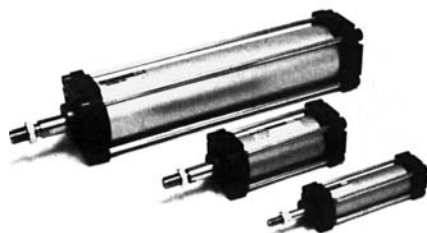
Auto Switch Mounting Bracket Part No.

Bore size	Mounting bracket
ø32	BT-03
ø40	BT-03
ø50	BT-04
ø63	BT-04
ø80	BT-06
ø100	BT-06
ø125	BT-08
ø160	BT-16

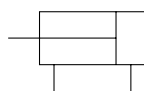
ISO Cylinder/Standard: Double Acting **Series C92**

Specifications

Bore size	ø32	ø40	ø50	ø63	ø80	ø100	ø125	ø160
Action	Double acting							
Fluid	Air							
Proof pressure	1.5MPa							
Max. operating pressure	1.0MPa							
Min. operating pressure	0.05MPa							
Ambient and fluid temperature	Without magnet -10 to 70°C (No freezing)							
	With magnet -10 to 60°C (No freezing)							
Lubrication	Not required (Non-lube)							
Operating piston speed	50 to 500 mm/s							
Allowable stroke tolerance	to 250: $^{+1.0}_0$, 251 to 1000: $^{+1.4}_0$, 1001 to 1500: $^{+1.8}_0$							
Cushion	Both ends (Air cushion)							
Thread tolerance	JIS class 2							
Port size	G1/8	G1/4	G1/4	G3/8	G3/8	G1/2	G1/2	G3/4
Mounting	Basic, axial foot, front flange, rear flange, single rear clevis, double rear clevis, centre trunnion							



JIS Symbol
Double acting



Minimum Strokes for Auto Switch Mounting

Refer to p.1.12-12 for "Minimum Strokes for Auto Switch Mounting".

Standard Stroke

Bore size (mm)	Standard stroke (mm)	Max. * stroke
32	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500	1900
40	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500	1900
50	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500	1900
63	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500	1900
80	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500	1900
100	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500	1900
125	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500	2900
160	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500	2900

Intermediate strokes are available.

* Consult SMC for longer strokes.

Applicable Auto Switches

Style	Auto switch model	Electrical entry (function)
Reed switch	D-A5□/A6□	Grommet
	D-A59W	Grommet (2 colour indication)
Solid state switch	D-F5□/J5□	Grommet
	D-F5□W/J59W□	Grommet (2 colour indication)
	D-F5BA	Grommet (2 colour, Water resistant)
	D-F5□F	Grommet (2 colour, diagnosis output)
	D-F5NT	Grommet (Timer)

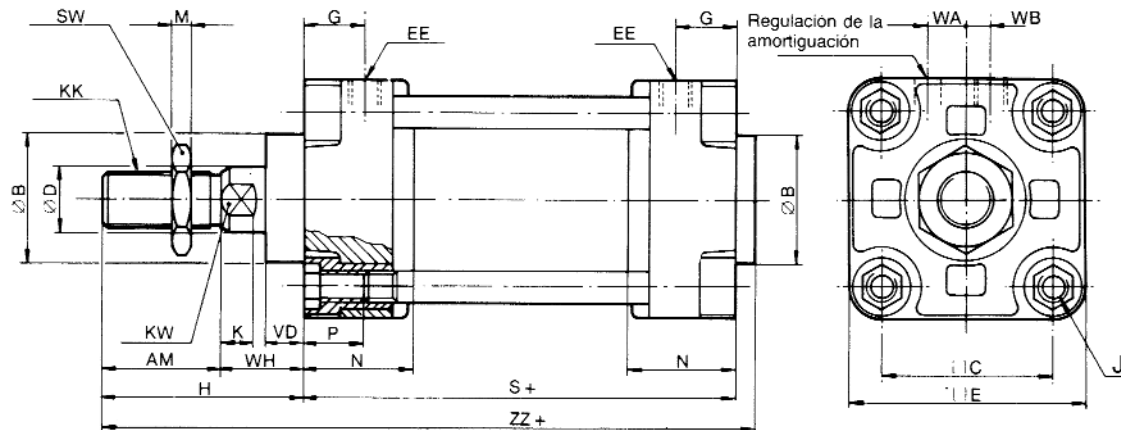
Accessories

Mounting		Basic	Foot	Front flange	Rear flange	Single rear clevis	Double rear clevis	Center trunnion
Standard	Rod end nut	●	●	●	●	●	●	●
	Clevis pin	—	—	—	—	—	●	—
Option	Single rod clevis	●	●	●	●	●	●	●
	Double rod clevis (with pin)	●	●	●	●	●	●	●
	Rod boot	●	●	●	●	●	●	●

Series C92

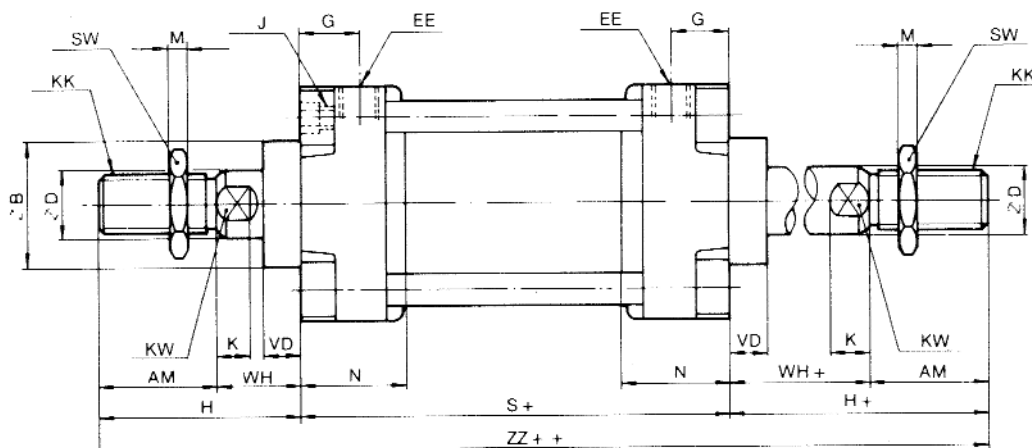
Without Mounting Bracket

C92S□Bø-Stroke



Bore (mm)	AM	øB	C	ØD	E	EE	G	KK	H	J	K	KW	M	N	P	S	SW	VD	WA	WB	WH	ZZ
32	22	30	33	12	46	G1/8	13,5	M10 X 1.25	58	M6	6	10	5	23	11	74	17	10	7	6	36	136
40	24	32	44	16	60	G1/4	15,5	M12 X 1.25	64,5	M6	6	14	7	27	11	84	19	10	10	6	40,5	153,5
50	32	40	52	20	70	G1/4	17	M16 X 1.5	77	M8	7	18	8	30	14	90	24	10	11	10	45	173
63	32	40	64	20	85	G3/8	17	M16 X 1.5	80,5	M8	7	18	8	31	14	98	24	10	11	10	48,5	184,5
80	40	52	78	25	103	G3/8	22	M20 X 1.5	92	M10	11	22	10	37	19	116	30	14	11	16	52	215
100	40	52	92	30	116	G1/2	19,5	M20 X 1.5	97	M10	11	26	10	40	19	126	30	14	12	20	57	231
125	54	60	110	32	140	G1/2	25	M27 X 2	119	M12	15	27	13	45	42	160	41	26	20	15	65	287
160	72	65	140	40	180	G3/4	30	M36 X 2	152	M16	17	36	16	55	52	180	55	31	25	15	80	340

C92S□Bø-Stroke W



Bore (mm)	AM	øB	ØD	EE	G	H	J	KK	K	KW	M	N	S	SW	VD	WH	ZZ
32	22	30	12	G1/8	13,5	58	M6	M10 X 1.25	6	10	5	23	74	17	10	36	190
40	24	32	16	G1/4	15,5	64,5	M6	M12 X 1.25	6	14	7	27	84	19	10	40,5	213
50	32	40	20	G1/4	17	77	M8	M16 X 1.5	7	18	8	30	90	24	10	45	244
63	32	40	20	G3/8	17	80,5	M8	M16 X 1.5	7	18	8	31	98	24	10	48,5	259
80	40	52	25	G3/8	22	92	M10	M20 X 1.5	11	22	10	37	116	30	14	52	300
100	40	52	30	G1/2	19,5	97	M10	M20 X 1.5	11	26	10	40	126	30	14	57	320
125	54	60	32	G1/2	25	119	M12	M27 X 2	15	27	13	45	160	41	26	65	398
160	72	65	40	G3/4	30	152	M16	M36 X 2	17	36	16	55	180	55	31	80	484