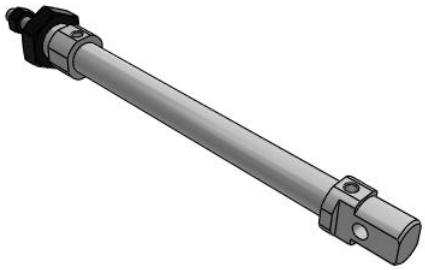

C(D)85, ISO Standard Cylinder, Double Acting, Single Rod

C85N12-100

Datasheet

General series information

- Double acting, single rod, crimped cylinder
- Conforms to ISO 6432 and CETOP RP52P
- Bore sizes (mm): 8, 10, 12, 16, 20, 25
- Standard strokes up to 300mm
- Auto switch capable

Double-acting, single-rod cylinder

Standard specifications

Low Speed	None
Stroke	100
Long Stroke	None
Magnet	None
Rod End Options	None
Auto Switch	No Switch
Cushion	Rubber Cushion
Mounting	N (Basic Integrated Clevis)
Bore Size	Ø12 mm
Rod Boot	None
Lead Wire or Prewired Connector	0.5m (Or None in the Case of No Switch)
Number	2 pcs. (Or None in the Case of No Switch)
Stainless Steel	None
Temperature Resistance	None
Auto Switch Mounting Type	None
Pressure medium	Compressed Air
Maximum temperature of pressure medium	80 °C
Maximum temperature of pressure medium with magnet	60 °C

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Minimum temperature of pressure medium	-20 °C [without condensation]
Minimum temperature of pressure medium with magnet	-10 °C [without condensation]
Maximum operating pressure	1 MPa
Minimum operating pressure	0.08 MPa
Proof pressure	1.5 MPa
Maximum ambient temperature	80 °C
Maximum ambient temperature with magnet	60 °C
Minimum ambient temperature	-20 °C
Minimum ambient temperature with magnet	-10 °C
Number of pneumatic connections	2 pcs.
Pneumatic input connection	M5
Pneumatic output connection	M5
Mode of operation of drive	Double acting
Theoretical cylinder force, advance stroke (at 0.5 MPa)	56.6 N
Theoretical cylinder force, return stroke (at 0.5 MPa)	42.4 N
Maximum piston speed	1,500 mm/s
Type of cushioning	Rubber bumper
Piston rod end	External thread
Geometric form of the piston rod	Single rod
Male thread of rod end	M6
Usable tubing material	Soft nylon;Nylon;Polyurethane
Minimum piston speed	50 mm/s
Weight	0.158 Kg

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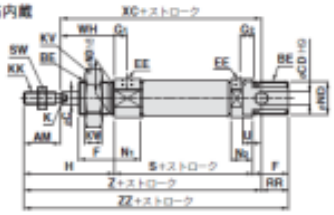
Dimensions

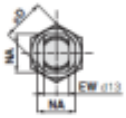
複動・片ロッド

ラバークッション：C□85N チューブ内径 − ストローク − □

磁石なし／磁石内蔵



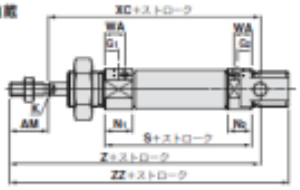
レール取付(A)



●バンド取付(B)
●磁石なし

エアクッション：C□85N チューブ内径 − ストローク C − □

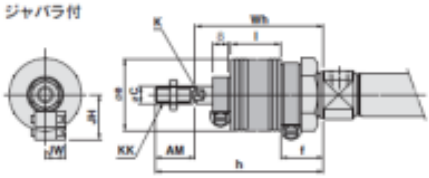
磁石なし／磁石内蔵



レール取付(A)

●バンド取付(B)
●磁石なし

ジャバラ付



寸法表 (mm)

チューブ内径	AM	BE	C	CD	D	EE	EW	F	G_1	G_2	H	HR	K	KA	KK	KV	KW	N_1	N_2	NA	ND	RR	S	SW	U	WA	WH	XC	Z	ZZ
8	12	M12×1.25	4	4	16.7	M5×0.8	8	12	7	5	28	10	—	4.2	M4×0.7	19	6	11.5	9.5	15	12	10	46	7	6	—	16	64	76	86
10	12	M12×1.25	4	4	16.7	M5×0.8	8	12	7 (6.5)	5 (5.5)	28	10.5	—	4.2	M4×0.7	19	6	11.5 (13.5)	9.5 (11.5)	15	12	10	46 (53)	7	6	10.5	16	64 (71)	76 (85.5)	86 (100.5)
12	16	M16×1.5	6	6	19.7	M5×0.8	12	17	8 (6.5)	6 (5.5)	38	14	5	6.2	M6×1	24	8	13.5 (12.5)	10.5 (12.5)	18.3	16	14	50 (54)	10	9	9.5	22	75 (79)	91 (95.5)	105 (109.5)
16	16	M16×1.5	6	6	19.7	M5×0.8	12	17	8 (6.5)	6 (5.5)	38	14	5	6.2	M6×1	24	8	13.5 (12.5)	10.5 (12.5)	18.3	16	14	50 (54)	10	9	9.5	22	85 (89)	98 (102.5)	111 (115.5)
20	20	M22×1.5	8	8	28	G 1/8	16	20	8	8	44	17	6	8.2	M8×1.25	30	11	19 (17)	15 (17)	24	22	11	62	13	12	13	24	95	115	126
25	20	M22×1.5	8	8	33.5	G 1/8	16	22	8	8	52	20	8	8.2	M10×1.25	30	11	19 (17)	15 (17)	30	22	11	66	17	12	13	28	104	126	137

（ ）内はエアクッションの場合。

ジャバラ付 (mm)

チューブ内径 ＼ ストローク	AM	C	e	f	K	KK	h 1～50	51～100	101～150	151～200	201～300	301～400	401～500
20	20	8	36	20	6	M8×1.25	71	84	96	109	134	159	—
25	22	10	36	20	8	M10×1.25	74	87	99	112	137	162	187

チューブ内径 ＼ ストローク	l 1～50	51～100	101～150	151～200	201～300	301～400	401～500	JH	JW	Wh 1～50	51～100	101～150	151～200	201～300	301～400	401～500
20	12.5	25	37.5	50	75	100	—	23.5	10.5	51	64	76	89	114	139	—
25	12.5	25	37.5	50	75	100	125	23.5	10.5	52	65	77	90	115	140	165

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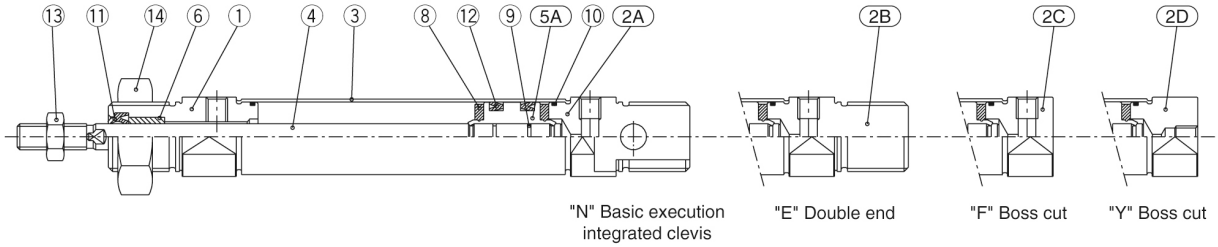
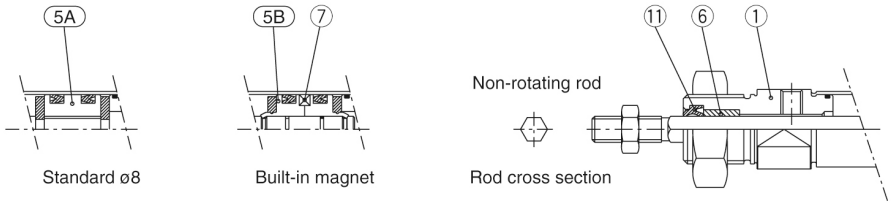
Constructions

Double acting: Single rod
C□85□8 to16 Rubber bumper (Disassembly is not possible)





Component Parts

No.	Description	Material	Quantity	Remarks
①	Rod cover	Aluminum alloy	1	White anodized
2A	Head cover N	Aluminum alloy	1	White anodized
2B	Head cover E	Aluminum alloy	1	White anodized
2C	Head cover F	Aluminum alloy	1	White anodized
2D	Head cover Y	Aluminum alloy	1	White anodized
③	Cylinder tube	Stainless steel	1	
④	Piston rod	Stainless steel	1	
5A	Piston A	Brass	1	
5B	Piston B	Brass	2	(Switch style piston)

No.	Description	Material	Quantity	Remarks
⑥	Bushing	Sintered bronze	1	
⑦	Magnet		1	(Switch style only)
⑧	Bumper	Urethane	2	
⑨	Piston gasket	NBR	1	(2 for switch style)
⑩	Tube gasket	NBR	2	
⑪	Rod seal	NBR	1	
⑫	Piston seal	NBR	2	
⑬	Rod end nut	Carbon steel	1	Nickel plated
⑭	Mounting nut	Carbon steel	1	Nickel plated

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Additional information

Catalogue	C85_C75-A_EU.pdf

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