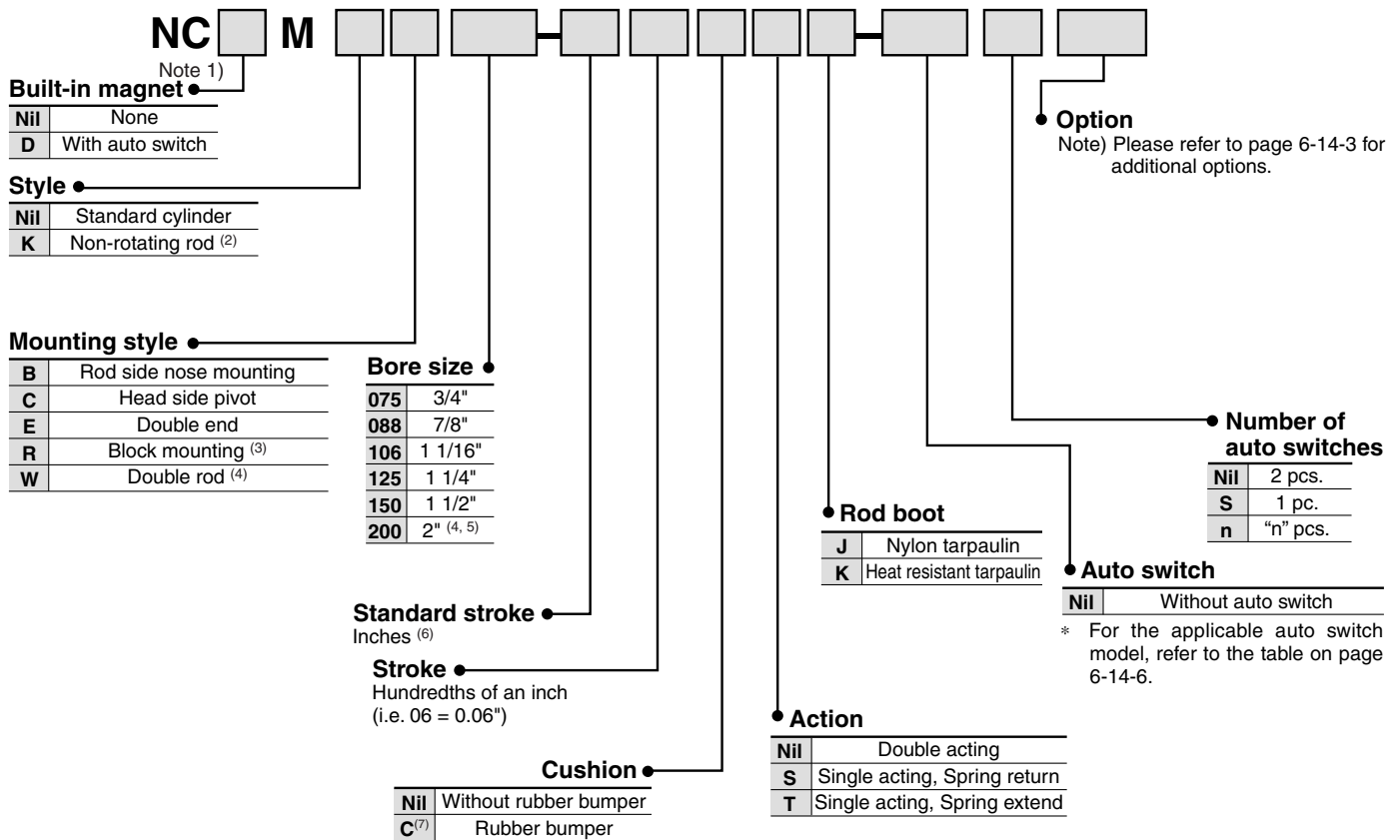


# Air Cylinder: Standard/Non-rotating Rod Double Acting/Single Acting, Single Rod/Double Rod Series *NCM*

Inch size:  $\varnothing 3/4"$ ,  $\varnothing 7/8"$ ,  $\varnothing 1\ 1/16"$ ,  $\varnothing 1\ 1/4"$ ,  $\varnothing 1\ 1/2"$ ,  $\varnothing 2"$

## How to Order



Note 1) Not available with block mount (R).

Note 2) Not available with spring extend (T), double rod (W), block mount (R), rod boot, or  $\varnothing 2"$ .

Note 3) Not offered in  $\varnothing 7/8"$ ,  $\varnothing 1\ 1/4"$ , or  $\varnothing 2"$  or with rod boot.

Note 4) Double acting only.

Note 5) Not available as standard with C, R mount, with rod boot.

Note 6) See specifications for standard and maximum stroke lengths.

Note 7) Rubber cushions are offered at no additional cost on  $\varnothing 7/8"$  and  $\varnothing 1\ 1/4"$ . They are options on the other bore sizes. The "C" after the bore size must be included in either case. Cushion affects cylinder overall length of some models. Refer to dimensional data.

## Auto Switch Specifications/Option Compatibility

**Applicable Auto Switch**/Refer to page 6-16-1 for further information on auto switches.

Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Auto switch model	Lead wire length (m)*				Pre-wire connector	Applicable load			
					DC	AC		0.5 (Nil)	3 (L)	5 (Z)	None (N)					
Reed switch	—	Grommet	Yes	2-wire	24 V	12 V	100 V	<b>C73</b>	●	●	●	—	—	—	Relay, PLC	
			No			5 V, 12 V	100 V or less	<b>C80</b>	●	●	—	—	—			IC circuit
			Yes			—	—	<b>B53</b>	●	●	●	—				
			No			12 V	100 V, 200 V 200 V or less	<b>B54</b> <b>B64</b>	●	●	●	—	—			—
		Connector	Yes			—	—	<b>C73C</b>	●	●	●	●		—	—	
			No			5 V, 12 V	24 V or less	<b>C80C</b>	●	●	●	●	—	IC circuit		
	Diagnostic indication (2-color indication)	Grommet	Yes			—	—	<b>B59W</b>	●	●	—	—	—	—	—	
Solid state switch	—	Grommet	Yes	3-wire (NPN)	24 V	—	5 V, 12 V	<b>H7A1</b>	●	●	○	—	○	—	IC circuit	
				3-wire (PNP)			5 V, 12 V	<b>H7A2</b>	●	●	○	—	○			—
	Connector	2-wire	12 V	<b>H7B</b>			●	●	○	—	○	—	—			
		3-wire (NPN)	5 V, 12 V	<b>H7C</b>			●	●	●	●	—			—	—	
	Grommet	3-wire (PNP)	5 V, 12 V	<b>H7NW</b>			●	●	○	—	○	—	—			
		2-wire	12 V	<b>H7PW</b>			●	●	○	—	○			—	—	
	Water resistant (2-color indication)	Grommet	Yes	2-wire			12 V	<b>H7BW</b>	●	●	○	—	○			—
				4-wire (NPN)			5 V, 12 V	<b>H7BA</b>	—	●	○	—	○	—	—	
	With diagnostic output (2-color indication)	Grommet	Yes	3-wire (NPN)			5 V, 12 V	<b>H7NF</b>	●	●	○	—	○			—
				2-wire			12 V	<b>G59</b>	●	●	○	—	○	—	—	
—	—	—	—	—	—	—	—	<b>K59</b>	●	●	○	—	○			—

\* Lead wire length symbols: 0.5 m ..... Nil (Example) C73C  
 3 m ..... L (Example) C73CL  
 5 m ..... Z (Example) C73CZ  
 None ..... N (Example) C73CN

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

• For details about auto switches with pre-wire connector, refer to page 6-16-60.

## Option Compatibility

	Description	Note	NCM - Standard	NCDM	NCMW	NCMK	NCM-*J	NCM-*K	S	T	C	XB6	XB7	XB9	XC6
<b>NCM</b>	Standard		—												
<b>NCDM</b>	Auto switch capable		○	—											
<b>NCMW</b>	Double rod		○	○	—										
<b>NCMK</b>	Non-rotating	1	○	○	S	—									
<b>NCM-*J</b>	Nylon rod boot	1	○	○	S	S	—								
<b>NCM-*K</b>	Neoprone rod boot	1	○	○	S	S	N	—							
<b>S</b>	Spring return	1	○	○	S	S	S	S	—						
<b>T</b>	Spring extend	1	○	○	S	S	S	S	N	—					
<b>C</b>	Rubber bumper	2	○	○	○	S	S	O	N	O	—				
<b>XB6</b>	Heat resistant	1	○	S	O	N	S	S	O	N	N	—			
<b>XB7</b>	Cold resistant	1	○	S	O	N	S	S	O	N	N	N	—		
<b>XB9</b>	Low speed	1	○	○	S	N	S	S	N	N	O	N	N	—	
<b>XC6</b>	Stainless steel rod	3, 4	○	○	○	○	○	○	N	O	O	O	O	O	—
<b>B</b>	Rod side nose mounting		○	○	○	○	○	○	○	○	○	○	○	○	○
<b>C</b>	Head side pivot mounting	1	○	○	N	○	○	○	○	○	○	○	○	○	○
<b>E</b>	Double end mounting		○	○	N	○	○	○	○	○	○	○	○	○	○
<b>R</b>	Block mounting	1, 5, 6	○	○	S	S	N	N	O	O	O	S	S	O	O

○ ..... Combination available to order  
 S ..... Available with special request  
 N ..... Not available

Note 1) This table is not applicable for ø200.  
 Note 2) Rubber cushion no additional charge on ø088 and ø125.  
 Note 3) Stainless steel rod standard on ø075 and ø088. Use XC6 option to get stainless steel rod nut.  
 Note 4) Non-rotating rod is stainless steel. Use XC6 option to get stainless steel rod nut.  
 Note 5) Block mount not available in ø088 and ø125.  
 Note 6) Block, Auto switch capable, S and T only available as special.

CJ1

CJP

CJ2

CM2

CG1

MB

MB1

CA2

CS1

C76

C85

C95

CP95

NCM

NCA

D-

-X

20-

Data

# Series NCM

## Specifications: Double Acting, Single Rod/Double Rod

### Specifications

Bore size (in)	075 (3/4")	088 (7/8")	106 (1 1/16")	125 (1 1/4")	150 (1 1/2")	200 (2")
Fluid	Air					
Maximum operating pressure	250 PSI/1.7 MPa					
Minimum operating pressure	8 PSI/0.06 MPa					
Ambient and fluid temperature	40 to 140°F/5 to 60 °F					
Piston speed	No bumper: 2 to 20 in/sec (50 to 500 mm/sec) Rubber bumper: 2 to 30 in/sec (50 to 750 mm/sec)					
Rubber bumper	Option (No additional charge on 7/8" and 1 1/4" bore)					
Lubrication	Not required (Pre-lubricated at Factory)					
Mounting	B, C, E, R					

Note) R mount available on ø3/4", ø1 1/16", and ø1 1/2" only.

### Standard Stroke

(in)

Mounting	Standard stroke	Max. stroke as standard	Long stroke
Rod side nose (B)	1/2, 1, 2, 3, 4, 5, 6	12	40
Double end (E)	1/2, 1, 2, 3, 4, 5, 6	32	40
Head side pivot (C)	7, 8, 10, 12		
Double rod (W)	1/2, 1, 2, 3, 4, 5, 6	12	20
Block mount (R)	1/2, 1, 1 1/2, 2, 3, 4, 5, 6	12	40

Note) Minimum stroke for mounting auto switches: 0.6 inch for 2 switches, 0.4 inch for one switch.

## Specifications: Double Acting, Single Rod, Non-rotating Rod

### Specifications

Bore size (in)	075 (3/4")	088 (7/8")	106 (1 1/16")	125 (1 1/4")	150 (1 1/2")
Fluid	Air				
Maximum operating pressure	250 PSI/1.7 MPa				
Minimum operating pressure	8 PSI/0.06 MPa				
Ambient and fluid temperature	40 to 140°F/5 to 60 °F				
Piston speed	2 to 20 in/sec/50 to 500 mm/sec				
Rod material	Stainless steel 304 (JIS)				
Rubber bumper	Option (No additional charge on 7/8" and 1 1/4" bore)				
Non-rotating accuracy	±2.0°		± 1.4°		
Maximum allowable torque	0.04 ft·Lbf (0.06 N·m)	0.09 ft·Lbf (0.13 N·m)	0.12 ft·Lbf (0.16 N·m)		

### Standard Stroke

(in)

Mounting	Standard stroke	Max. stroke as standard	Long stroke
Rod side nose (B)	1/2, 1, 2, 3, 4, 5, 6	12	40
Double end (E)	1/2, 1, 2, 3, 4, 5, 6	32	40
Head side pivot (C)	7, 8, 10, 12		

Note 1) Minimum stroke for mounting auto switches: 0.6 inch for 2 switches, 0.4 inch for one switch.

Note 2) Spring return up to 18" available as special request

# Series NCM

## Specifications: Rod Boot

### Rod Boot Material

Symbol	Material	Maximum ambient temperature
<b>J</b>	Nylon tarpaulin	140°F (60°C)
<b>K</b>	Heat resistant tarpaulin	230°F (110°C)*

\* Maximum ambient temperature is for the rod boot only.

### Maximum Stroke

Bore size (in)	Maximum stroke
3/4, 7/8, 1 1/16	12 STD.—16 Max.
1 1/4, 1 1/2, 2	12 STD.—26 Max.

### Parts No. of Auto Switch Mounting Band

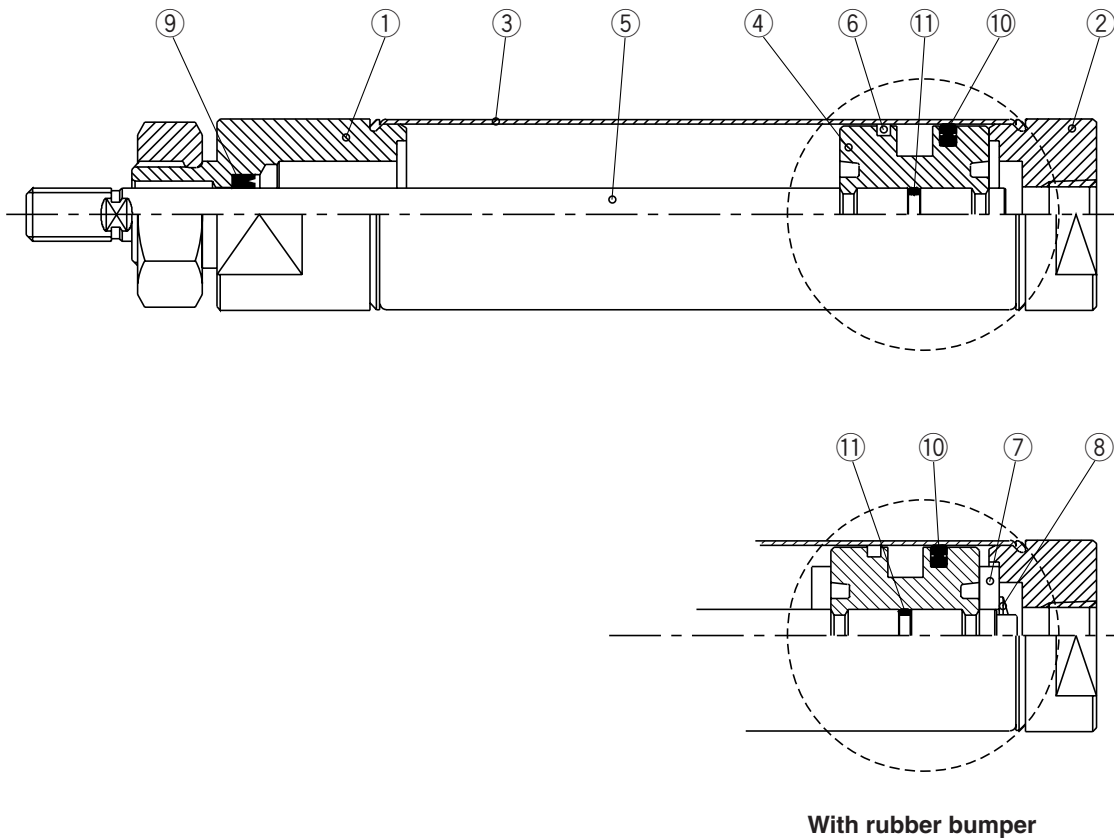
Auto switch part number	Bore size				
	075	088	106	125	150
<b>D-G59, D-B54, D-B64, D-K59, D-B53</b>	NBA-075	NBA-088	NBA-106	NBA-125	NBA-150
<b>D-C73 D-H7A1</b>	NBM2-075	NBM2-088	NBM2-106	NBM2-125	NBM2-150

### Minimum Stroke for Auto Switches Mounting (NCDM)

(in)

Auto switch model	Number of switches				1
	2		n		
	On different surfaces	On the same surfaces	On different surfaces	On the same surfaces	
<b>D-C7 D-C8</b>	0.6	2.3	$0.6 + 1.8\left(\frac{n-2}{2}\right)$ (n = 2, 4, 6...)	$2.3 + 1.8(n - 2)$	0.4
<b>D-H7□ D-H7□W D-H7BAL D-H7NF</b>	0.6	2.3			0.4
<b>D-C73C C-C80C D-H7C</b>	0.6	3.1	$0.6 + 2\left(\frac{n-2}{2}\right)$ (n = 2, 4, 6...)	$3.1 + 2(n - 2)$	0.4
<b>D-H7LF</b>	0.8	2.8	$0.8 + 2\left(\frac{n-2}{2}\right)$ (n = 2, 4, 6...)	$2.8 + 2(n - 2)$	0.4
<b>D-B5 D-B6</b>	0.6	2.7	$0.6 + 2\left(\frac{n-2}{2}\right)$ (n = 2, 4, 6...)	$2.7 + 2.2(n - 2)$	0.4
<b>D-B59W</b>	0.8	2.9	$0.8 + 2\left(\frac{n-2}{2}\right)$ (n = 2, 4, 6...)	$2.9 + 2.2(n - 2)$	0.6
<b>D-G59 D-K59</b>	0.6	2.8	$0.6 + 2\left(\frac{n-2}{2}\right)$ (n = 2, 4, 6...)	$2.8 + 2(n - 2)$	0.4

## Construction: Double Acting, Single Rod, Non-rotating



### Component Parts

No.	Description	Material	Note
①	Rod cover	Aluminum alloy	Clear anodized
②	Head cover	Aluminum alloy	Clear anodized
③	Cylinder tube	Stainless steel	Stainless steel 304
④	Piston	Aluminum alloy	Chromated
⑤	Piston rod	Stainless steel	—
⑥	Wear ring	Phenolic resin	—
⑦	Rubber bumper	Urethane	—
⑧	Snap ring	Spring steel	—
⑨	Rod seal	NBR	—
⑩	Piston seal	NBR	—
⑪	Piston gasket	NBR	—

CJ1

CJP

CJ2

CM2

CG1

MB

MB1

CA2

CS1

C76

C85

C95

CP95

**NCM**

NCA

D-

-X

20-

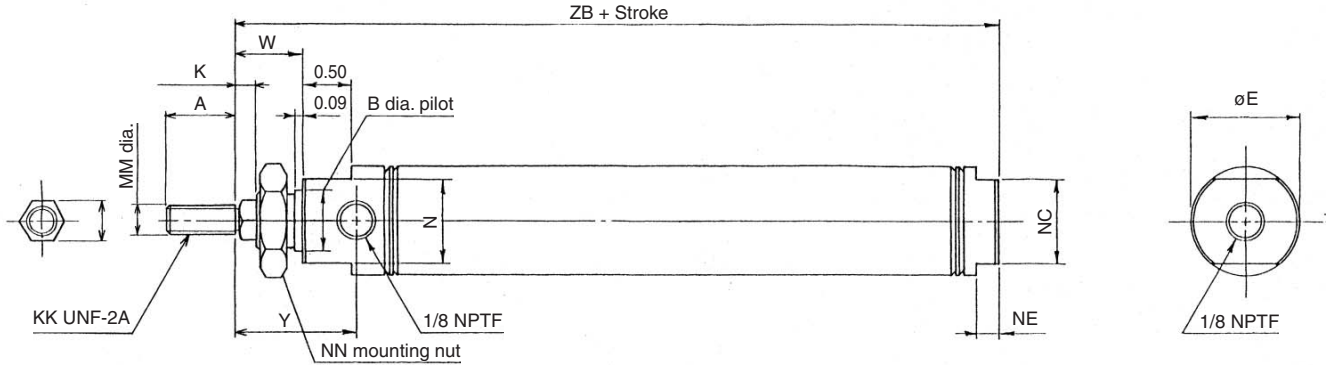
Data

# Series NCM

## Dimensions: Non-rotating Rod, Double Acting, Single Rod

### Non-rotating rod

#### Rod side nose mounting: NC(D)MKB

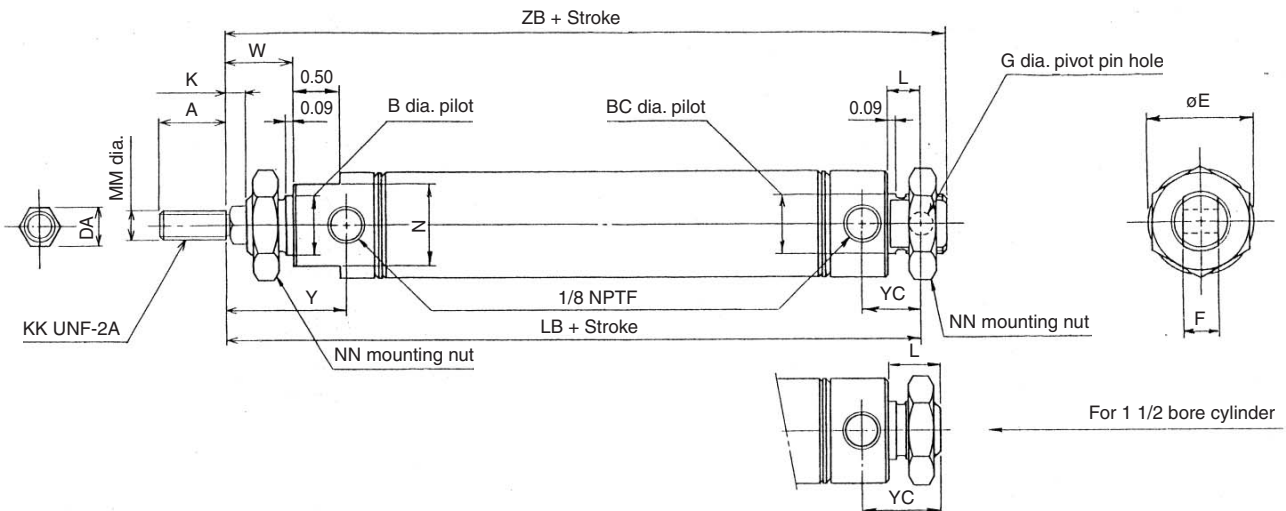


(in)

Bore size (in)	MM	KK	A	B	DA	E	K	N	NC	NE	NN	W	Y	ZB	
														No bumper	Bumper
075 (3/4")	0.250	1/4-28	0.50	0.624	0.25	0.86	0.25	0.75	0.62	0.12	5/8-18	0.75	1.20	3.22	3.32
088 (7/8")	0.250	1/4-28	0.50	0.624	0.25	0.93	0.25	0.75	0.75	0.18	5/8-18	0.75	1.20	2.94	3.19
106 (1 1/16")	0.312	5/16-24	0.50	0.624	0.38	1.12	0.25	0.88	0.88	0.24	5/8-18	0.75	1.30	3.38	3.52
125 (1 1/4")	0.375	3/8-24	0.88	0.749	0.44	1.32	0.25	1.06	1.06	0.25	3/4-16	0.88	1.62	3.75	4.00
150 (1 1/2")	0.375	3/8-24	0.88	0.874	0.44	1.56	0.38	1.25	1.25	0.25	7/8-14	1.12	1.81	4.00	4.13

### Non-rotating rod

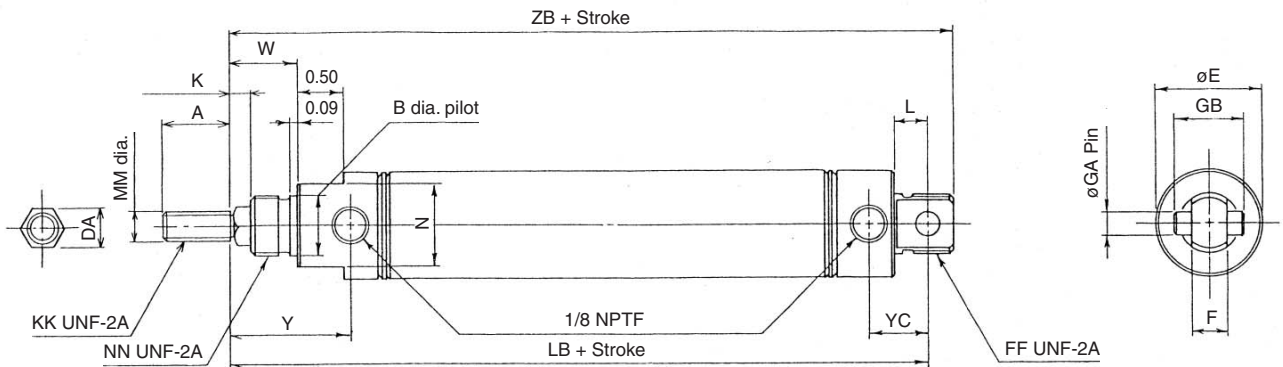
#### Double end mounting: NC(D)MKE



Bore size (in)	MM	KK	A	B	BC	DA	E	F	G	K	L	N	NN	W	Y	YC	Bumper			
																	LB	ZB	LB	ZB
075 (3/4")	0.250	1/4-28	0.50	0.624	0.624	0.25	0.86	0.38	0.251	0.25	0.34	0.75	5/8-18	0.75	1.20	0.62	4.00	4.28	4.00	4.28
088 (7/8")	0.250	1/4-28	0.50	0.624	0.624	0.25	0.93	0.38	0.251	0.25	0.34	0.75	5/8-18	0.75	1.20	0.62	3.55	3.83	3.81	4.09
106 (1 1/16")	0.312	5/16-24	0.50	0.624	0.624	0.38	1.12	0.38	0.251	0.25	0.34	0.88	5/8-18	0.75	1.30	0.62	3.97	4.25	4.11	4.39
125 (1 1/4")	0.375	3/8-24	0.88	0.749	0.749	0.44	1.32	0.50	0.251	0.25	0.41	1.06	3/4-16	0.88	1.62	0.78	4.46	4.86	4.72	5.12
150 (1 1/2")	0.375	3/8-24	0.88	0.874	0.749	0.44	1.56	—	—	0.38	0.63	1.25	7/8-14	1.12	1.81	0.91	—	4.81	—	4.94

## Dimensions: Non-rotating Rod, Double Acting, Single Rod

Non-rotating rod  
Head side pivot mounting: NC(D)MKC



Bore size (in)	MM	KK	A	B	DA	E	F	FF	GA	GB	K	L	N	NN	W	Y	YC	No bumper		Bumper	
																		LB	ZB	LB	ZB
075 (3/4")	0.250	1/4-28	0.50	0.624	0.25	0.86	0.38	5/8-18	0.250	0.75	0.25	0.34	0.75	5/8-18	0.75	1.20	0.62	4.00	4.28	4.00	4.28
088 (7/8")	0.250	1/4-28	0.50	0.624	0.25	0.93	0.38	5/8-18	0.250	0.75	0.25	0.34	0.75	5/8-18	0.75	1.20	0.62	3.55	3.83	3.81	4.09
106 (1 1/16")	0.312	5/16-24	0.50	0.624	0.38	1.12	0.38	5/8-18	0.250	0.75	0.25	0.34	0.88	5/8-18	0.75	1.30	0.62	3.97	4.25	4.11	4.39
125 (1 1/4")	0.375	3/8-24	0.88	0.749	0.44	1.32	0.50	5/8-18	0.250	0.75	0.25	0.41	1.06	3/4-16	0.88	1.62	0.78	4.46	4.86	4.72	5.12
150 (1 1/2")	0.375	3/8-24	0.88	0.874	0.44	1.56	0.62	—	0.375	1.00	0.38	0.50	1.25	7/8-14	1.12	1.81	0.78	4.68	5.06	4.82	5.20

CJ1

CJP

CJ2

CM2

CG1

MB

MB1

CA2

CS1

C76

C85

C95

CP95

**NCM**

NCA

D-

-X

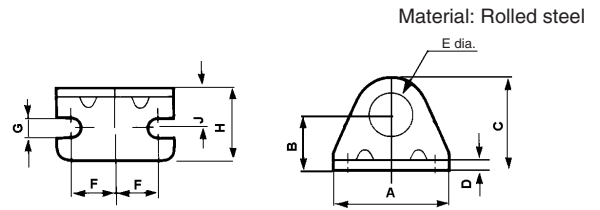
20-

Data

# Series NCM

## Mounting Bracket Accessory

### Foot bracket

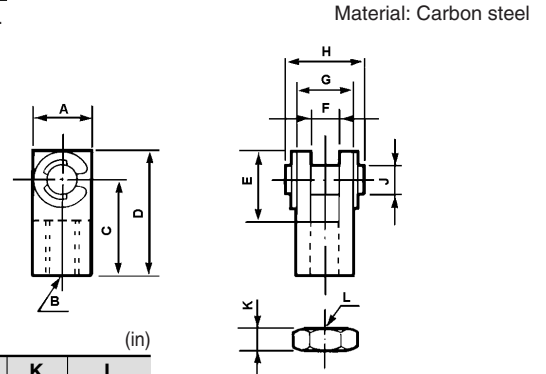


(in)

Part no.	Applicable bore	A	B	C	D	E	F	G	H	J
NCM-L075*	3/4", 7/8", 1 1/16"	1.89	0.81	1.36	0.12	0.63	0.75	0.27	0.98	0.56
NCM-L150	1 1/4", 1 1/2"	2.52	1.00	1.75	0.12	0.75	0.94	0.27	1.50	0.75
NCMK-L150	1 1/4", 1 1/2"	2.52	1.00	1.75	0.12	0.88	0.94	0.27	1.50	0.75
NCM-L200	2"	3.126	1.5	2.5	0.25	1.38	1.13	0.34	1.63	1.00

Note) NCM-L075 will not fit NCM\*075\*S (Single Acting). For this option use: NCM075-19-51046.  
(F dimension=0.51")

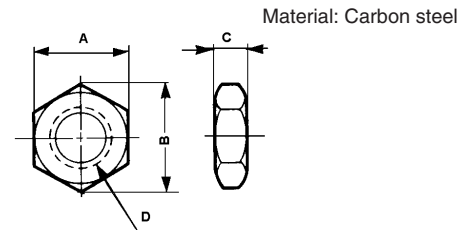
### Rod clevis



(in)

Part no.	Applicable bore	A	B	C	D	E	F	G	H	J	K	L
NY-075	3/4", 7/8"	0.51	1/4-28	0.94	1.18	0.69	0.25	0.51	0.71	0.25	0.16	1/4-28
NY-106	1 1/16"	0.51	5/16-24	0.94	1.18	0.69	0.25	0.51	0.71	0.25	0.19	5/16-24
NY-125	1 1/4", 1 1/2"	0.75	7/16-20	1.31	1.69	0.94	0.38	0.75	1.02	0.38	0.25	7/16-20
NY-G050	2"	0.75	1/2-20	1.32	1.69	0.94	0.38	0.75	1.02	0.38	0.31	1/2-20

### Jam nut (Rod thread)



(in)

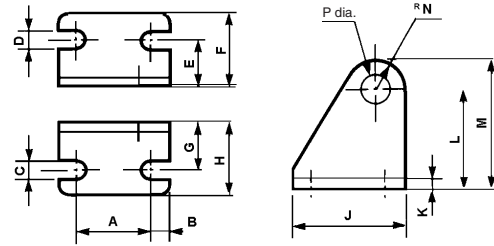
Part no.	Applicable bore	A	B	C	D
JM-025	3/4", 7/8"	0.44	0.51	0.16	1/4-28 UNF
JM-03	1 1/16"	0.50	0.50	0.19	5/16-24 UNF
JM-045	1 1/4", 1 1/2"	0.69	0.79	0.26	7/16-20 UNF
JM-04	1 1/4", 1 1/2" (Non-rotating)	0.56	0.65	0.23	3/8-24 UNF
JM-05	2"	0.75	0.87	0.32	1/2-20 UNF



## Mounting Bracket Accessory

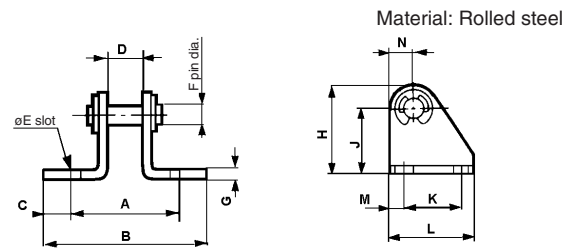
Material: Rolled steel

### Pivot bracket (Head side pivot): NCMC



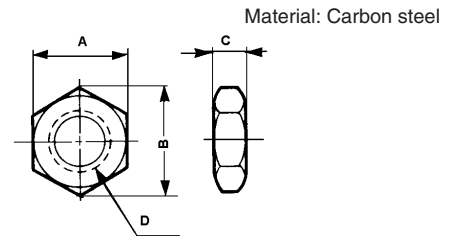
Part no.	Applicable bore	A	B	C	D	E	F	G	H	J	K	L	M	N	øP
NCM-PC075	3/4", 7/8", 1 1/16", 1 1/4"	0.75	0.18	0.27	0.27	0.44	0.79	0.44	0.79	1.101	0.12	0.88	1.18	0.31	0.255
NCM-PC150	1 1/2"	1	0.25	0.27	0.27	0.62	0.98	0.62	0.98	0.50	0.12	1.38	1.75	0.38	0.38

### Pivot bracket (End mount): NCME



Part no.	Applicable bore	A	B	C	D	øE	F	G	H	J	K	L	M	N
NCM-PE075	3/4", 7/8", 1 1/16"	1.25	1.95	0.35	0.38	0.27	0.25	0.12	1.18	0.88	0.75	1.10	0.18	0.31
NCM-PE125	1 1/4", 1 1/2"	1.38	2.08	0.35	0.50	0.27	0.25	0.12	1.18	0.88	0.75	1.10	0.18	0.31
NCG-PC050	2"	2.12	3.00	0.44	0.75	0.27	0.38	0.24	1.75	1.38	1.00	1.50	0.25	0.37

### Mounting nut (Nose mount thread)



Part no.	Applicable bore	A	B	C	D
JM-08	3/4", 7/8", 1 1/16"	0.94	1.08	0.38	5/8-18 UNF
JM-10	1 1/4", 1 1/2"	1.12	1.30	0.42	3/4-16 UNF
JM-14	2"	1.61	1.86	0.43	1 1/4 -12 UNF

CJ1

CJP

CJ2

CM2

CG1

MB

MB1

CA2

CS1

C76

C85

C95

CP95

NCM

NCA

D-

-X

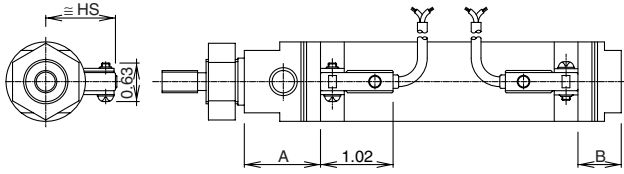
20-

Data

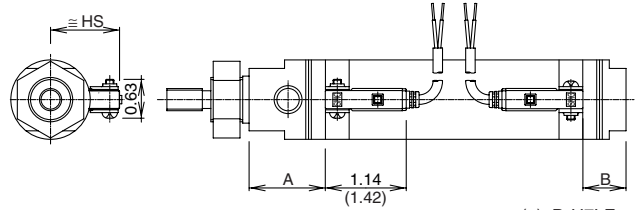
# Series NCM

## Double Acting/Single Rod/Band Mounting Auto Switch Mounting Position and Mounting Height

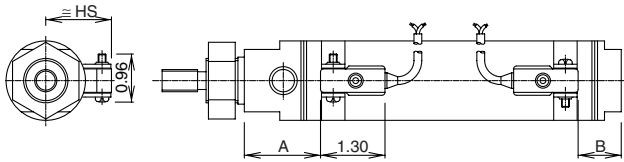
### D-C7/C8



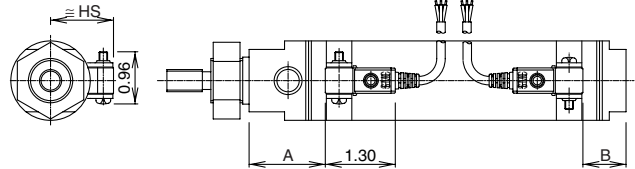
### D-H7□/H7□W/H7□F/H7BAL□



### D-B5/B6/B59W

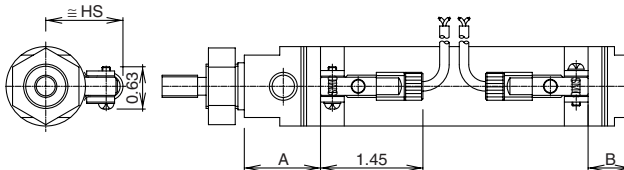


### D-G59/K59

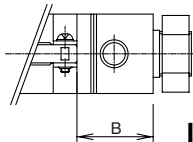
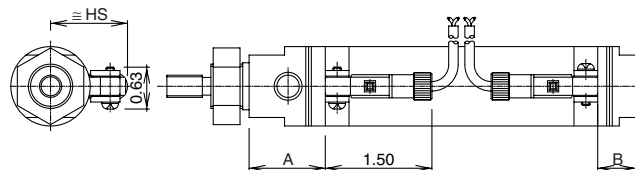


\* ( ) : D-H7LF

### D-C73C/C80C



### D-H7C



In case of NCDMC, NCDME

### Auto Switch Mounting Position (NCDMB) (in)

Auto switch model	D-B5 D-B6		D-C7□ D-C80 D-C73C D-C80C		D-B59W		D-H7□ D-H7C D-H7□W D-H7BAL D-H7NF		D-H7LF		D-G59 D-K59	
	A	B	A	B	A	B	A	B	A	B	A	B
075 (3/4")	0.88	0.37	1.12	0.60	1.00	0.48	1.08	0.56	1.02	0.50	0.94	0.42
088 (7/8")	0.72	0.25	0.96	0.49	0.84	0.37	0.92	0.45	0.86	0.39	0.78	0.31
106 (1 1/16")	0.94	0.46	1.18	0.70	1.06	0.58	1.14	0.66	1.08	0.60	1.00	0.52
125 (1 1/4")	1.17	0.46	1.41	0.69	1.29	0.57	1.37	0.65	1.31	0.59	1.23	0.51
150 (1 1/2")	1.07	0.50	1.31	0.74	1.19	0.61	1.27	0.70	1.21	0.64	1.13	0.56
200 (2")	1.52	0.77	1.75	1.01	1.63	0.88	1.72	0.97	1.66	0.91	1.58	0.83

### Auto Switch Mounting Position (NCDMC, NCDME) (in)

Auto switch model	D-B5 D-B6		D-C7□ D-C80 D-C73C D-C80C		D-B59W		D-H7□ D-H7C D-H7□W D-H7BAL D-H7NF		D-H7LF		D-G59 D-K59	
	A	B	A	B	A	B	A	B	A	B	A	B
075 (3/4")	0.88	0.80	1.12	1.03	1.00	0.91	1.08	1.00	1.02	0.94	0.94	0.86
088 (7/8")	0.72	0.53	0.96	0.76	0.84	0.64	0.92	0.72	0.86	0.66	0.78	0.59
106 (1 1/16")	0.94	0.70	1.18	0.94	1.06	0.81	1.14	0.90	1.08	0.84	1.00	0.76
125 (1 1/4")	1.17	0.79	1.41	1.02	1.29	0.90	1.37	0.98	1.31	0.92	1.23	0.85
150 (1 1/2")	1.07	0.70	1.31	0.93	1.19	0.81	1.27	0.89	1.21	0.83	1.13	0.75
200 (2")	1.52	1.14	1.75	1.38	1.63	1.25	1.72	1.34	1.66	1.28	1.58	1.20

### Auto Switch Mounting Position (NCDMB-\*C) (in)

Auto switch model	D-B5 D-B6		D-C7□ D-C80 D-C73C D-C80C		D-B59W		D-H7□ D-H7C D-H7□W D-H7BAL D-H7NF		D-H7LF		D-G59 D-K59	
	A	B	A	B	A	B	A	B	A	B	A	B
075 (3/4")	0.92	0.35	1.16	0.58	1.03	0.46	1.12	0.54	1.06	0.48	0.98	0.40
088 (7/8")	0.85	0.38	1.09	0.62	0.97	0.50	1.05	0.58	0.99	0.52	0.91	0.44
106 (1 1/16")	1.07	0.59	1.31	0.83	1.19	0.71	1.27	0.79	1.21	0.73	1.13	0.65
125 (1 1/4")	1.30	0.59	1.54	0.82	1.42	0.70	1.50	0.78	1.44	0.72	1.36	0.64
150 (1 1/2")	1.20	0.63	1.44	0.87	1.32	0.74	1.40	0.83	1.34	0.77	1.26	0.69
200 (2")	1.65	0.90	1.88	1.14	1.76	1.01	1.85	1.10	1.79	1.04	1.71	0.96

### Auto Switch Mounting Position (NCDMC-\*C, NCDME-\*C) (in)

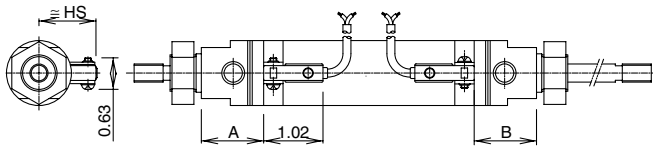
Auto switch model	D-B5 D-B6		D-C7□ D-C80 D-C73C D-C80C		D-B59W		D-H7□ D-H7C D-H7□W D-H7BAL D-H7NF		D-H7LF		D-G59 D-K59	
	A	B	A	B	A	B	A	B	A	B	A	B
075 (3/4")	0.92	0.78	1.16	1.01	1.03	0.89	1.12	0.98	1.06	0.92	0.98	0.84
088 (7/8")	0.85	0.66	1.09	0.89	0.97	0.77	1.05	0.85	0.99	0.79	0.91	0.72
106 (1 1/16")	1.07	0.83	1.31	1.07	1.19	0.94	1.27	1.03	1.21	0.97	1.13	0.89
125 (1 1/4")	1.30	0.92	1.54	1.15	1.42	1.03	1.50	1.11	1.44	1.05	1.36	0.98
150 (1 1/2")	1.20	0.83	1.44	1.06	1.32	0.94	1.40	1.02	1.34	0.96	1.26	0.88
200 (2")	1.65	1.27	1.88	1.51	1.76	1.38	1.85	1.47	1.79	1.41	1.71	1.33

### Mounting Height (NCDM) (in)

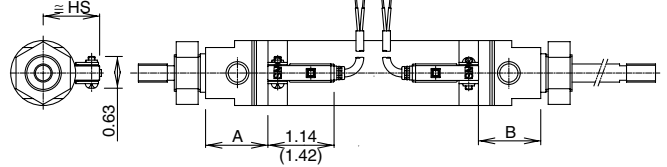
Auto switch model	D-B5 D-B6 D-B59W D-H7C D-G59 D-K59		D-C7□ D-C80 D-H7□ D-H7□W D-H7BAL D-H7□F		C-C73C D-C80C	
	≅ HS		≅ HS		≅ HS	
075 (3/4")	0.98		0.87		0.96	
088 (7/8")	1.04		0.93		1.02	
106 (1 1/16")	1.14		0.98		1.12	
125 (1 1/4")	1.24		1.08		1.22	
150 (1 1/2")	1.36		1.20		1.34	
200 (2")	1.61		1.46		1.59	

## Double Acting/Single Rod/Band Mounting Auto Switch Mounting Position and Mounting Height

### D-C7/C8

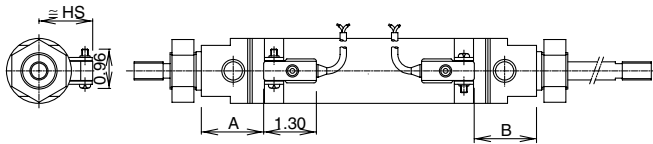


### D-H7□/H7□W/H7□F/H7BAL□

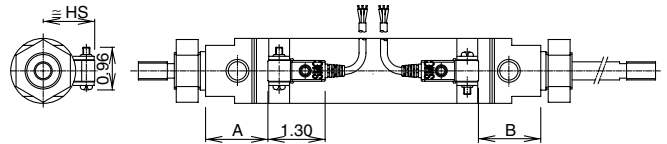


\* ( ) : D-H7LF

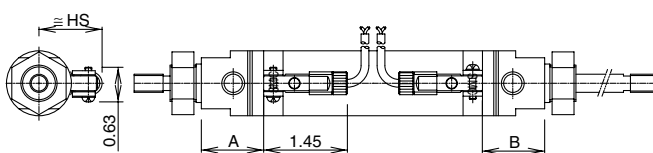
### D-B5/B6/B59W



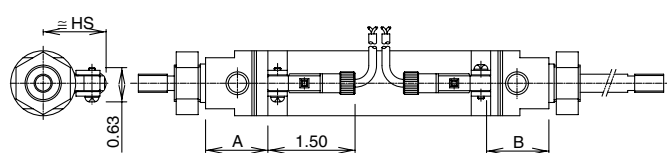
### D-G59/K59



### D-C73C/C80C



### D-H7C



### Auto Switch Mounting Position (NCDMW) (in)

Auto switch model	D-B5 D-B6		D-C7□ D-C80 D-C73C D-C80C		D-B59W		D-H7□ D-H7C D-H7□W D-H7BAL D-H7NF		D-H7LF		D-G59 D-K59	
	A	B	A	B	A	B	A	B	A	B	A	B
075 (3/4")	0.88	0.89	1.12	1.13	1.00	1.00	1.08	1.09	1.02	1.03	0.94	0.95
088 (7/8")	0.72	0.72	0.96	0.95	0.84	0.83	0.92	0.91	0.86	0.85	0.78	0.77
106 (1 1/16")	0.94	0.95	1.18	1.18	1.06	1.06	1.14	1.14	1.08	1.09	1.00	1.01
125 (1 1/4")	1.17	1.14	1.41	1.38	1.29	1.26	1.37	1.34	1.31	1.28	1.23	1.20
150 (1 1/2")	1.07	1.07	1.31	1.31	1.19	1.18	1.27	1.27	1.21	1.21	1.13	1.13
200 (2")	1.52	1.45	1.75	1.69	1.63	1.57	1.72	1.65	1.66	1.59	1.58	1.51

### Auto Switch Mounting Position (NCDMW-\*C) (in)

Auto switch model	D-B5 D-B6		D-C7□ D-C80 D-C73C D-C80C		D-B59W		D-H7□ D-H7C D-H7□W D-H7BAL D-H7NF		D-H7LF		D-G59 D-K59	
	A	B	A	B	A	B	A	B	A	B	A	B
075 (3/4")	0.92	0.87	1.16	1.11	1.03	0.98	1.12	1.07	1.06	1.01	0.98	0.93
088 (7/8")	0.85	0.85	1.09	1.08	0.97	0.96	1.05	1.04	0.99	0.98	0.91	0.90
106 (1 1/16")	1.07	1.08	1.31	1.31	1.19	1.19	1.27	1.27	1.21	1.22	1.13	1.14
125 (1 1/4")	1.30	1.27	1.54	1.51	1.42	1.39	1.50	1.47	1.44	1.41	1.36	1.33
150 (1 1/2")	1.20	1.20	1.44	1.44	1.32	1.31	1.40	1.40	1.34	1.34	1.26	1.26
200 (2")	1.65	1.58	1.88	1.82	1.76	1.70	1.85	1.78	1.79	1.72	1.71	1.64

### Mounting Height (NCDM) (in)

Auto switch model	D-B5 D-B6 D-B59W D-H7C D-G59 D-K59		D-C7□ D-C80 D-H7□ D-H7□W D-H7BAL D-H7□F		C-C73C D-C80C	
	≅ HS		≅ HS		≅ HS	
075 (3/4")	0.98		0.87		0.96	
088 (7/8")	1.04		0.93		1.02	
106 (1 1/16")	1.14		0.98		1.12	
125 (1 1/4")	1.24		1.08		1.22	
150 (1 1/2")	1.36		1.20		1.34	
200 (2")	1.61		1.46		1.59	

CJ1

CJP

CJ2

CM2

CG1

MB

MB1

CA2

CS1

C76

C85

C95

CP95

NCM

NCA

D-

-X

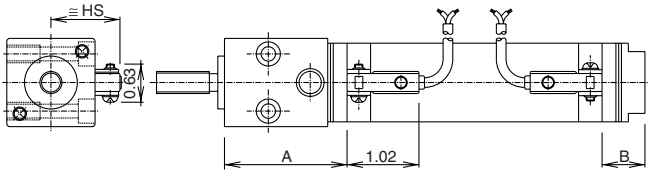
20-

Data

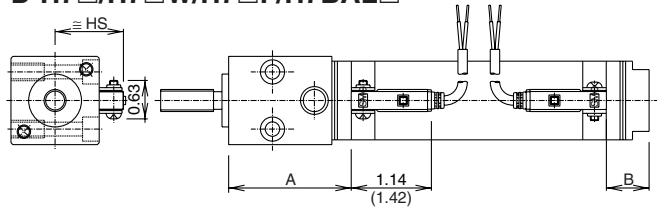
# Series NCM

## Double Acting/Single Rod/Band Mounting Auto Switch Mounting Position and Mounting Height

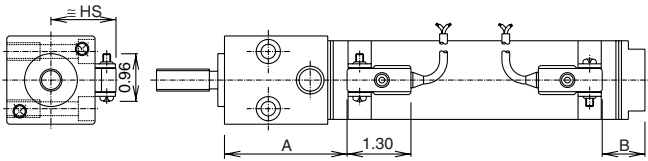
### D-C7/C8



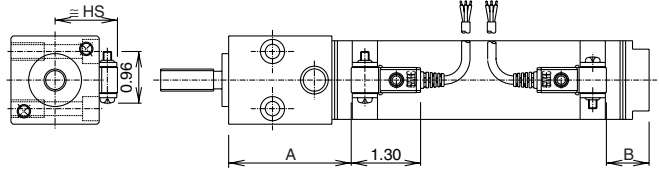
### D-H7□/H7□W/H7□F/H7BAL□



### D-B5/B6/B59W

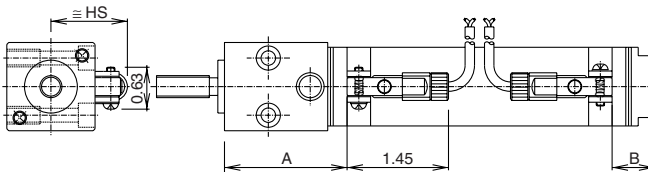


### D-G59/K59

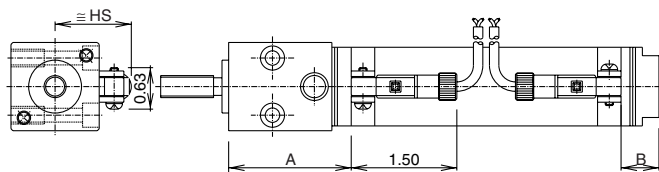


\* ( ): D-H7LF

### D-C73C/C80C



### D-H7C



### Auto Switch Mounting Position (NCDMR) (in)

Auto switch model	D-B5 D-B6		D-C7□ D-C80 D-C73C D-C80C		D-B59W		D-H7□ D-H7C D-H7□W D-H7BAL D-H7NF		D-H7LF		D-G59 D-K59	
	A	B	A	B	A	B	A	B	A	B	A	B
075 (3/4")	1.30	0.37	1.54	0.60	1.42	0.48	1.50	0.56	1.44	0.50	1.36	0.42
106 (1 1/16")	1.61	0.46	1.85	0.70	1.72	0.58	1.81	0.66	1.75	0.60	1.67	0.52
150 (1 1/2")	2.10	0.50	2.33	0.74	2.21	0.61	2.29	0.70	2.24	0.64	2.16	0.56

### Auto Switch Mounting Position (NCDMR-\*C) (in)

Auto switch model	D-B5 D-B6		D-C7□ D-C80 D-C73C D-C80C		D-B59W		D-H7□ D-H7C D-H7□W D-H7BAL D-H7NF		D-H7LF		D-G59 D-K59	
	A	B	A	B	A	B	A	B	A	B	A	B
075 (3/4")	1.30	0.37	1.54	0.60	1.42	0.48	1.50	0.56	1.44	0.50	1.36	0.42
106 (1 1/16")	1.61	0.46	1.85	0.70	1.72	0.58	1.81	0.66	1.75	0.60	1.67	0.52
150 (1 1/2")	2.10	0.50	2.33	0.74	2.21	0.61	2.29	0.70	2.24	0.64	2.16	0.56

### Mounting Height (NCDM) (in)

Auto switch model	D-B5 D-B6 D-B59W D-H7C D-G59 D-K59		D-C7□ D-C80 D-H7□ D-H7□W D-H7BAL D-H7□F		C-C73C D-C80C	
	≅ HS		≅ HS		≅ HS	
075 (3/4")	0.98		0.87		0.96	
088 (7/8")	1.04		0.93		1.02	
106 (1 1/16")	1.14		0.98		1.12	
125 (1 1/4")	1.24		1.08		1.22	
150 (1 1/2")	1.36		1.20		1.34	
200 (2")	1.61		1.46		1.59	