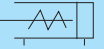




SINGLE ACTING ..... **D7Z-2S** .....



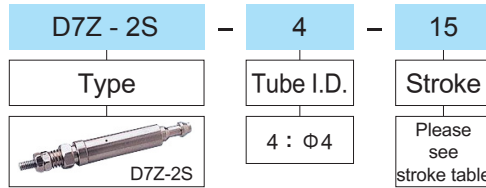
### Features

- Piston without magnet is standard accessory in the D7Z-2 series cylinders.

### Specification

Type	D7Z-2S
Tube I.D.	Φ4
Power fluid	Filtered air with or without lubrication
The range of pressure	3 ~ 7 kgf/cm <sup>2</sup>
Proof pressure	10 kgf/cm <sup>2</sup>
The range of temperature	-5 ~ +60 °C (No freeze)
Material of cylinder barrel	Stainless steel

### How to order



### Theoretic force

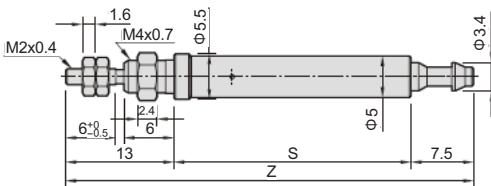
1N = 0.1kgf  
1MPa = 10.2kgf/cm<sup>2</sup>    Unit : kgf

Tube I.D.	Opertation direction	Operating pressure (kgf/cm <sup>2</sup> )				
		3	4	5	6	7
Φ4	OUT	0.37	0.5	0.63	0.75	0.88
	IN	0.15				

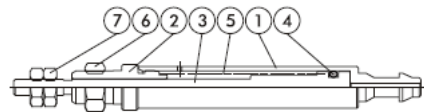
### Stroke table

Tube I.D.	Stroke (mm)
Φ4	5,10,15,20

### D7Z-2S Single acting / Dimensional features



### D7Z-2S Inside structure



### Dimensional Talbe

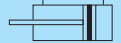
Mark Stroke Tube I.D.	S				Z			
	5	10	15	20	5	10	15	20
Φ4	19.5	28.5	37.5	46.5	40	49	58	67

### Part List

No.	Part name	Material
1	Body	Copper
2	Rod cover	Copper
3	Piston rod	Stainless steel
4	Piston gasket	NBR
5	Spring	Stainless steel
6	Lock nut	Copper
7	Adjustable nut	Copper



DOUBLE ACTING ..... **D7Z-2D** .....



SINGLE ACTING ..... **D7Z-2S** .....





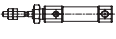
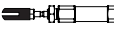


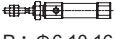
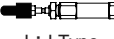


**Features**

- Special housing and bushing enables self lubrication of piston rod.
- High quality long service life.
- Cylinder mountings, available with a comprehensive range of accessories for rigid or flexible mounting.

**Specification**

Type	D7Z-2D		D7Z-2S
Tube I.D.	6	10	16
Power fluid	Filtered air with or without lubrication		
The range of pressure	Single acting	normally extended	2.5 ~ 7 kgf/cm <sup>2</sup>
		normally returned	2.0 ~ 7 kgf/cm <sup>2</sup>
	Double acting		1.2 ~ 7 kgf/cm <sup>2</sup>
Proof pressure	10 kgf/cm <sup>2</sup>		
The range of temperature	-5 ~ +60 °C ( Don't freeze )		
Sensor switch band	—	—	BM16
	BJ6	BJ10	BJ16
Material of cylinder barrel	Stainless steel		

**How to order**

<b>D7Z - 2D</b>	—	<b>FA</b>	<b>6</b>	—	<b>15</b>	<b>K</b>	<b>Y</b>	—	<b>A</b>
Type		Holder	Tube I.D.		Stroke	End Cover	Accessories		Sensor Switch
 D7Z-2D		 FA	6 : Φ6 10 : Φ10 16 : Φ16	Please see stroke table	 K : Φ10,16	 Y : Y Type		A : RCS B : RCM	
 D7Z-2S		 LB			 P : Φ6,10,16	 I : I Type			
		 CB : Φ10,16				 BK : BK Type			

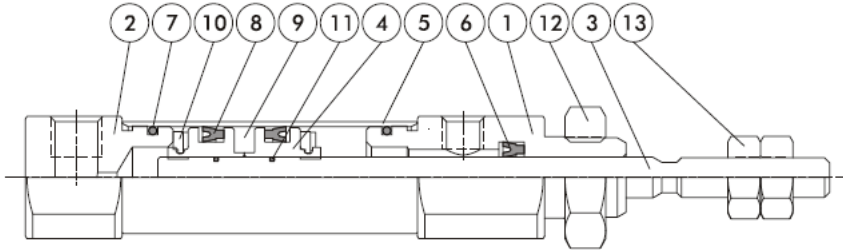
**Stroke table**

Type	Tube I.D.	Stroke (mm)
Single Acting	Φ6	15,30,45,60
	Φ10	15,30,45,60
	Φ16	15,30,45,60,75,100,125,150
Double Acting	Φ6	15,30,45,60
	Φ10	15,30,45,60,75,100,125,150
	Φ16	15,30,45,60,75,100,125,150,175,200

### Points in usage

- ① During installation, secure the rod cover and tighten by applying an appropriate tightening force to the retaining nut or to the rod cover body. If the head cover is secured or the head cover body is tightened.
- ② Tighten the retaining screws to an appropriate tightening torque within the range given below.  
 $\Phi 6 : 2.1 \sim 2.5\text{Nm}$  ,  $\Phi 10 : 5.9 \sim 6.4\text{Nm}$  ,  $\Phi 16 : 10.8 \sim 11.8\text{Nm}$

### D7Z-2D Inside structure

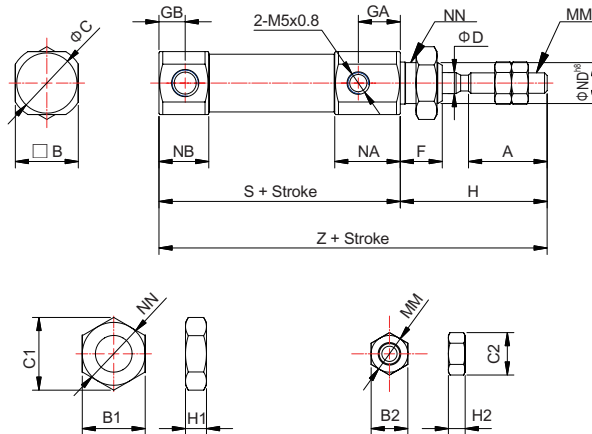


### Part List

No.	Part name	Material	No.	Part name	Material
1	Rod cover	Aluminium alloy	8	Piston packing	NBR
2	Head cover	Aluminium alloy	9	Magnet ring	Magnet material
3	Piston rod	Stainless steel	10	Cushion gasket	NBR
4	Piston	Aluminium alloy	11	Piston gasket	NBR
5	Tube	Stainless steel	12	Cover nut	Carbon steel
6	Rod packing	NBR	13	Rod front nut	Copper
7	Cover ring	NBR			

### K Double acting / End cover dimensional features

● Tube I.D.  $\Phi 10 \sim \Phi 16$

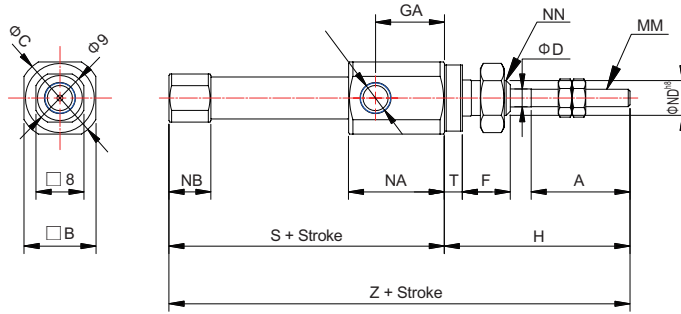


### Dimensional Table

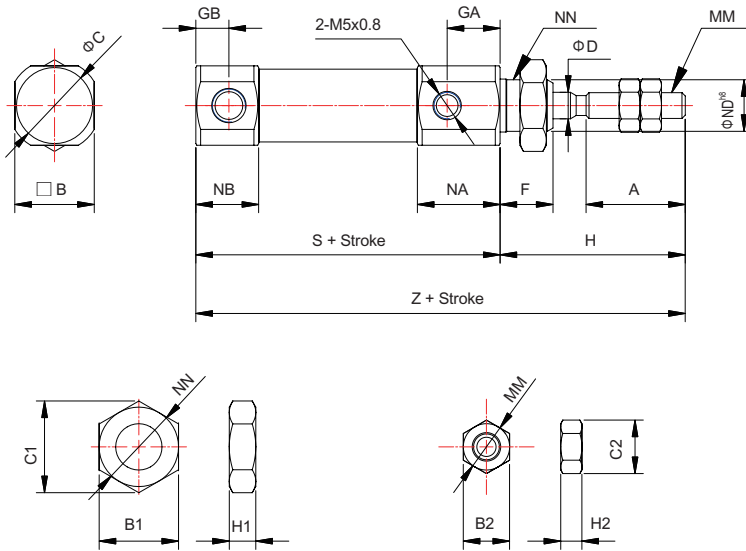
Mark Tube I.D.	A	B	B1	B2	C	C1	C2	D	F	GA	GB	H	H1	H2	MM	NA	NB	ND <sup>h8</sup>	NN	S	Z
$\Phi 10$	15	12	11	7	14	11.5	8.1	4	8	8	5	28	4	3.2	M4x0.7	12.5	9.5	$8^{+0}_{-0.022}$	M8x1.0	46	74
$\Phi 16$	15	18	14	8	20	16.2	9.2	5	8	8	5	28	4	4	M5x0.8	12.5	9.5	$10^{+0}_{-0.022}$	M10x1.0	47	75

**P** Double acting / End cover dimensional features

● Tube I.D.  $\Phi 6$



● Tube I.D.  $\Phi 10 \sim \Phi 16$

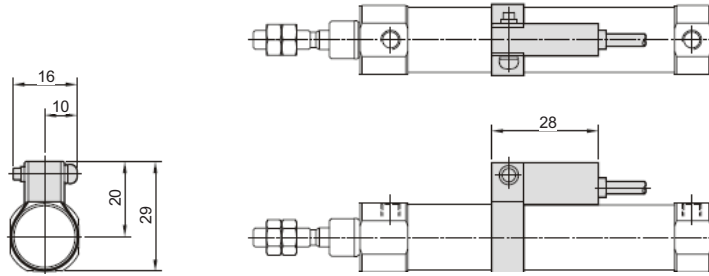


**Dimensional Table**

Mark Tube I.D.	A	B	B1	B2	C	C1	C2	D	F	GA	H	H1	H2	MM	NA	NB	ND <sup>h8</sup>	NN	S	T	Z
$\Phi 6$	15	12	8	5.5	14	9.2	6.4	3	8	14.5	28	4	2.4	M3x0.5	16	7	6 <sup>+0</sup> <sub>-0.022</sub>	M6X1.0	49	3	77
$\Phi 10$	15	12	11	7	14	12.7	8.1	4	8	8	28	4	3.2	M4x0.7	12.5	9.5	8 <sup>+0</sup> <sub>-0.022</sub>	M8x1.0	46		74
$\Phi 16$	15	18	14	8	20	16.2	9.2	5	8	8	28	4	4	M5x0.8	12.5	9.5	10 <sup>+0</sup> <sub>-0.022</sub>	M10x1.0	47		75

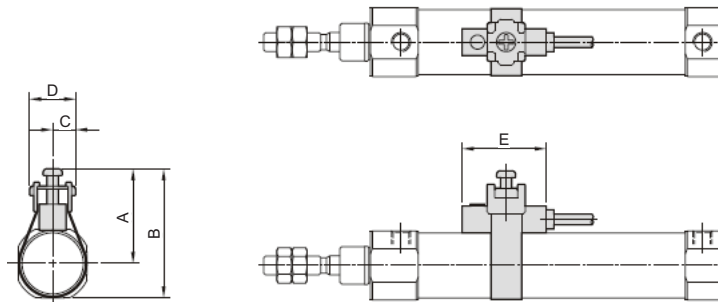
D7Z-2

**DI106** Sensor switch band : BM16 / Dimensional features



Sensor switch band : BJ \* \* / Dimensional features

**DI106**

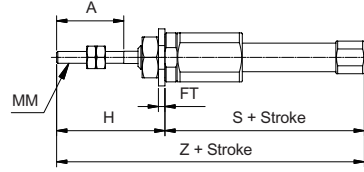


**Dimensional Table**

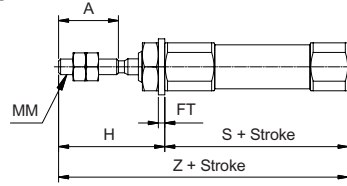
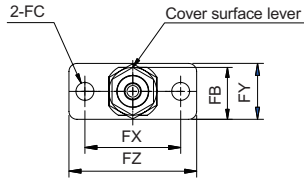
Mark Tube I.D.	A	B	C	D	E
Φ6	18.1	24.1	6	12	22
Φ10	20.1	26.1	6	12	22
Φ16	23.4	32.4	6	12	22

**FA** Double acting / Mounting dimension

● Tube I.D.  $\Phi 6$



● Tube I.D.  $\Phi 10 \sim \Phi 16$

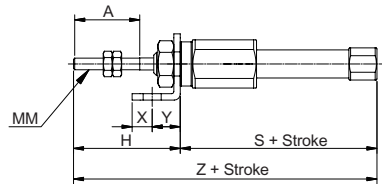


**Dimensional Table**

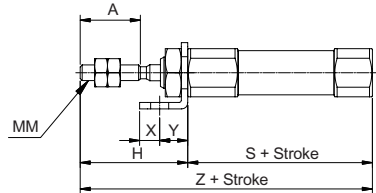
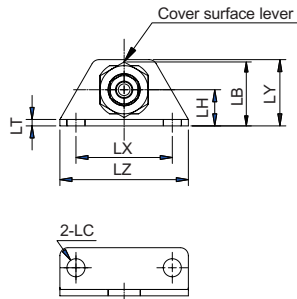
Mark Tube I.D.	A	FB	FC	FT	FX	FY	FZ	H	MM	S	Z
$\Phi 6$	15	13	4.5	1.6	24	14	32	28	M3x0.5	49	77
$\Phi 10$	15	13	4.5	1.6	24	14	32	28	M4x0.7	46	74
$\Phi 16$	15	19	5.5	2.3	33	20	42	28	M5x0.8	47	75

**LB** Double acting / Mounting dimension

● Tube I.D.  $\Phi 6$



● Tube I.D.  $\Phi 10 \sim \Phi 16$

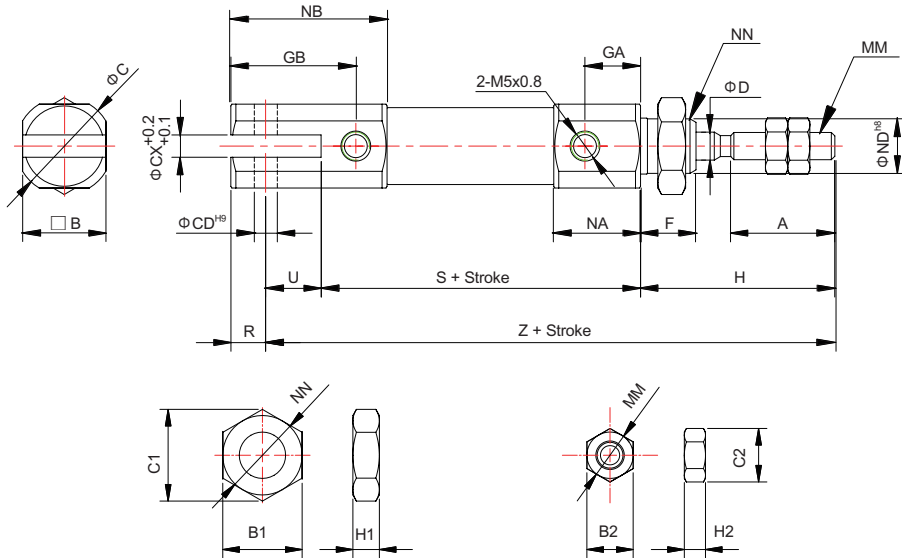


**Dimensional Table**

Mark Tube I.D.	A	H	LB	LC	LH	LT	LX	LY	LZ	MM	S	X	Y	Z
$\Phi 6$	15	28	15	4.5	9	1.6	24	16.5	32	M3x0.5	49	5	7	77
$\Phi 10$	15	28	15	4.5	9	1.6	24	16.5	32	M4x0.7	46	5	7	74
$\Phi 16$	15	28	23	5.5	14	2.3	33	25	42	M5x0.8	47	6	9	75

## CB Double acting / Mounting dimension

● Tube I.D.  $\Phi 10 \sim \Phi 16$



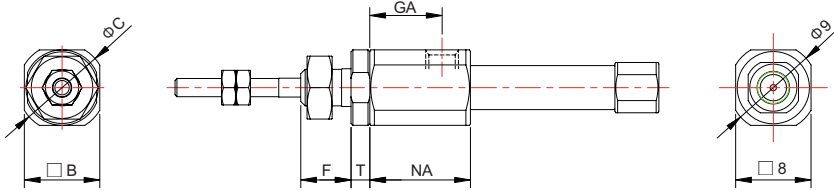
## Dimensional Table

Mark Tube I.D.	A	B	B1	B2	C	CD	CX	C1	C2	D	F	GA	GB	H	H1	H2	MM	NA	NB	ND <sup>h8</sup>	NN	R	S	U	Z
$\Phi 10$	15	12	11	7	14	3.3	3.2	12.7	8.1	4	8	8	18	28	4	3.2	M4x0.7	12.5	22.5	8 <sup>0</sup> <sub>-0.022</sub>	M8x1.0	5	46	8	82
$\Phi 16$	15	18	14	8	20	5	6.5	16.2	9.2	5	8	8	23	28	4	4	M5x0.8	12.5	27.5	10 <sup>0</sup> <sub>-0.022</sub>	M10x1.0	8	47	10	85

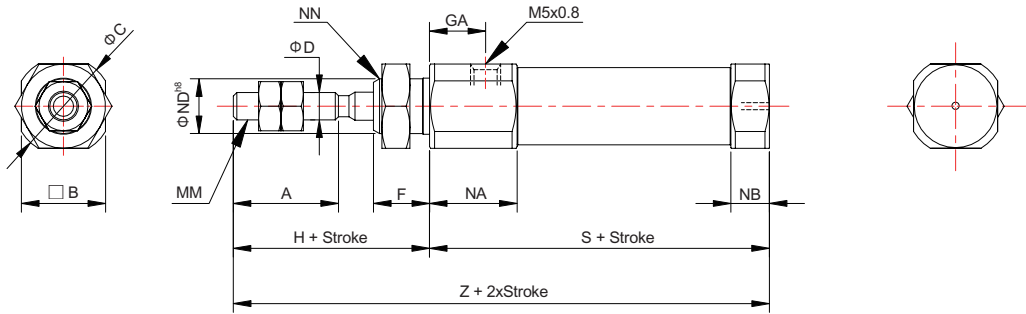
D7Z-2

**D7Z-2S** Single acting / Mounting dimension

● Tube I.D.  $\Phi 6$



● Tube I.D.  $\Phi 10 \sim \Phi 16$



**Dimensional Table**

Mark Tube I.D.	A	B	C	D	F	GA	H	MM	NA	NB	ND <sup>h8</sup>	NN	T
$\Phi 6$	15	12	14	3	8	14.5	28	M3x0.5	16	3	6 <sup>0</sup> <sub>-0.018</sub>	M6x1.0	3
$\Phi 10$	15	12	14	4	8	8	28	M4x0.7	12.5	5.5	8 <sup>0</sup> <sub>-0.022</sub>	M8x1.0	—
$\Phi 16$	15	18	20	5	8	8	28	M5x0.8	12.5	5.5	10 <sup>0</sup> <sub>-0.022</sub>	M10x1.0	—

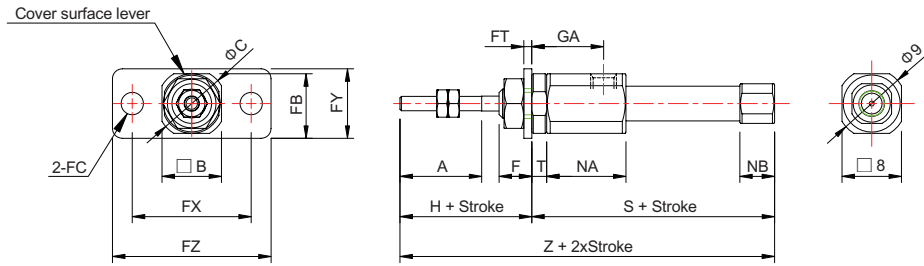
Mark Stroke Tube I.D.	※S								※Z							
	5~15	16~30	31~45	46~60	61~75	76~100	101~125	126~150	5~15	16~30	31~45	46~60	61~75	76~100	101~125	126~150
$\Phi 6$	46.5 (51.5)	55.5 (60.5)	59.5 (64.5)	73.5 (78.5)	—	—	—	—	74.5 (79.5)	83.5 (88.5)	87.5 (92.5)	101.5 (106.5)	—	—	—	—
$\Phi 10$	48.5	56	68	80	—	—	—	—	76.5	84	96	108	—	—	—	—
$\Phi 16$	48.5	57	69	81	87	111	129	141	76.5	85	97	109	115	139	157	169

※(S)(Z) ( ) indicate the size of the that with magnet ring.

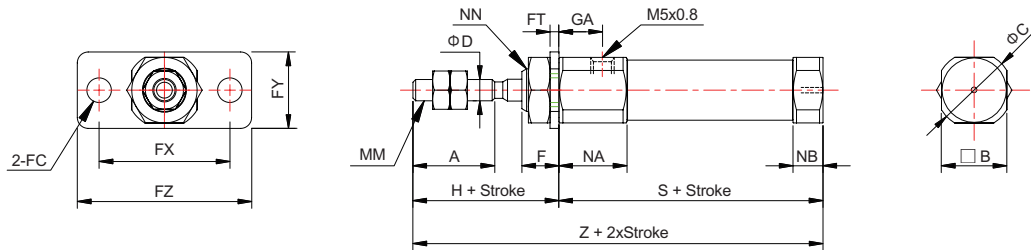


## FA Single acting / Mounting dimension

- Tube I.D.  $\Phi 6$



- Tube I.D.  $\Phi 10 \sim \Phi 16$



## Dimensional Table

Mark Tube I.D.	A	B	C	D	F	FB	FC	FT	FX	FY	FZ	GA	H	MM	NA	NB	NN	T	X	Y
$\Phi 6$	15	12	14	3	8	11	4.5	1.6	24	14	32	14.5	28	M3x0.5	16	3	M6x1.0	3	5	7
$\Phi 10$	15	12	14	4	8	13	4.5	1.6	24	14	32	8	28	M4x0.7	12.5	5.5	M8x1.0	—	5	7
$\Phi 16$	15	18	20	5	8	19	5.5	2.3	33	20	42	8	28	M5x0.8	12.5	5.5	M10x1.0	—	6	9

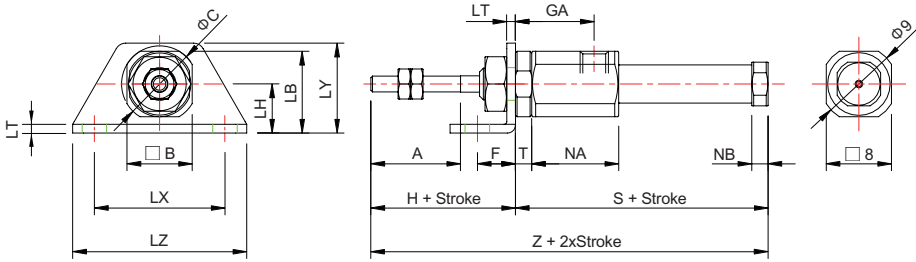
Mark Stroke Tube I.D.	※S								※Z							
	5~15	16~30	31~45	46~60	61~75	76~100	101~125	126~150	5~15	16~30	31~45	46~60	61~75	76~100	101~125	126~150
$\Phi 6$	46.5 (51.5)	55.5 (60.5)	59.5 (64.5)	73.5 (78.5)	—	—	—	—	74.5 (79.5)	83.5 (88.5)	87.5 (92.5)	101.5 (106.5)	—	—	—	—
$\Phi 10$	48.5	56	68	80	—	—	—	—	76.5	84	96	108	—	—	—	—
$\Phi 16$	48.5	57	69	81	87	111	129	141	76.5	85	97	109	115	139	157	169

※(S)(Z) ( ) indicate the size of the that with magnet ring.

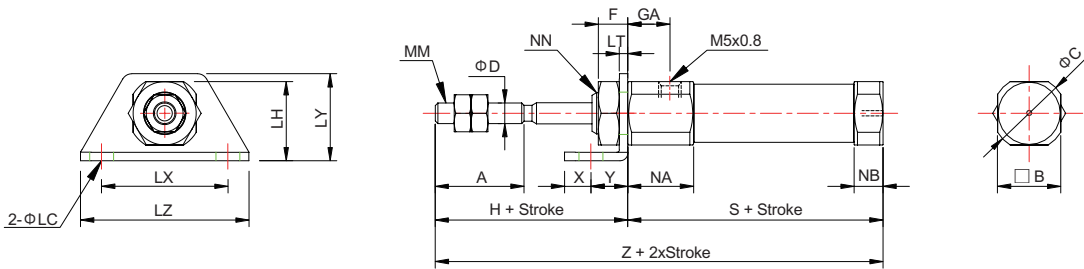
D7Z-2

**LB** Single acting / Mounting dimension

● Tube I.D.  $\Phi 6$



● Tube I.D.  $\Phi 10 \sim \Phi 16$



**Dimensional Table**

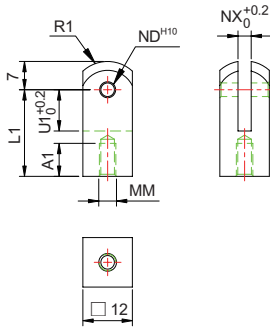
Mark Tube I.D.	A	B	C	D	F	GA	H	LB	LC	LH	LT	LX	LY	LZ	MM	NA	NB	NN	T	X	Y
$\Phi 6$	15	12	14	3	8	14.5	28	15	4.5	9	1.6	24	16.5	32	M3x0.5	16	3	M6x1.0	3	5	7
$\Phi 10$	15	12	14	4	8	8	28	15	4.5	9	1.6	24	16.5	32	M4x0.7	12.5	5.5	M8x1.0	—	5	7
$\Phi 16$	15	18	20	5	8	8	28	23	5.5	14	2.3	33	25	42	M5x0.8	12.5	5.5	M10x1.0	—	6	9

Mark Stroke Tube I.D.	※S								※Z							
	5~15	16~30	31~45	46~60	61~75	76~100	101~125	126~150	5~15	16~30	31~45	46~60	61~75	76~100	101~125	126~150
$\Phi 6$	46.5 (51.5)	55.5 (60.5)	59.5 (64.5)	73.5 (78.5)	—	—	—	—	74.5 (79.5)	83.5 (88.5)	87.5 (92.5)	101.5 (106.5)	—	—	—	—
$\Phi 10$	48.5	56	68	80	—	—	—	—	76.5	84	96	108	—	—	—	—
$\Phi 16$	48.5	57	69	81	87	111	129	141	76.5	85	97	109	115	139	157	169

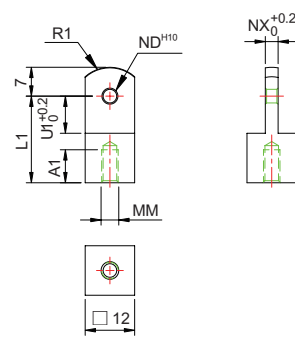
※(S)(Z) ( ) indicate the size of the that with magnet ring.

D7Z-2

### Y Rod clevis / Accessories



### I Rod end mounting / Accessories



### Dimensional Table

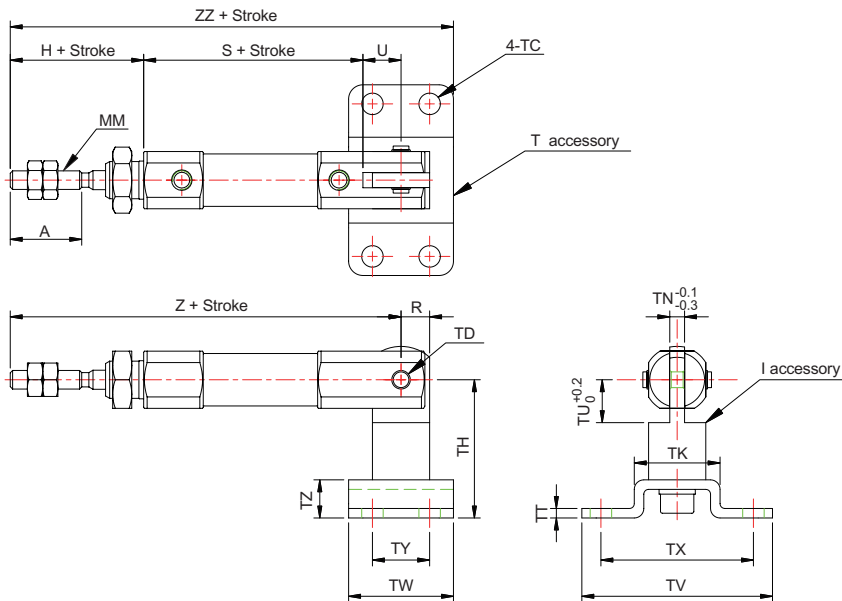
Mark Tube I.D.	A1	L1	MM	ND <sup>H10</sup>	NX	R1	U1
Φ 10	8	21	M4x0.7	3.3 <sub>0</sub> <sup>+0.048</sup>	3.2	8	10
Φ 16	11	21	M5x0.8	5.0 <sub>0</sub> <sup>+0.048</sup>	6.5	12	10

### Dimensional Table

Mark Tube I.D.	A1	L1	MM	ND <sup>H10</sup>	NX	R1	U1
Φ 10	8	21	M4x0.7	3.3 <sub>0</sub> <sup>+0.048</sup>	3.1	8	9
Φ 16	8	25	M5x0.8	5.0 <sub>0</sub> <sup>+0.048</sup>	6.4	12	14

### BK BK Type / Accessories

- Double acting ( I + pin extra purchase )



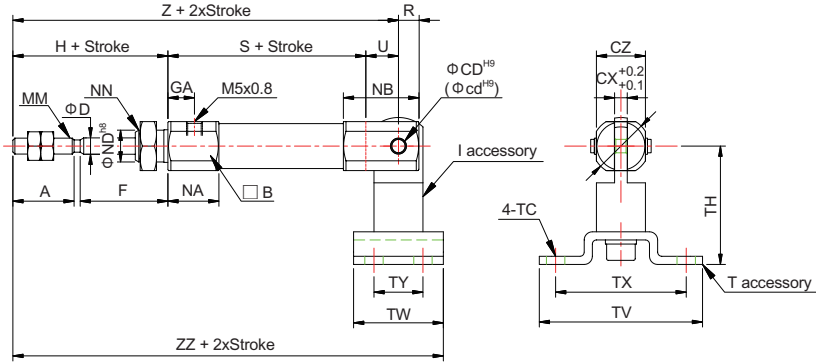
### Dimensional Table

Mark Tube I.D.	A	H	MM	R	S	TC	TD <sup>H10</sup>	TH	TK	TN	TT	TU	TV	TW	TX	TY	TZ	U	Z	ZZ
Φ 10	15	28	M4x0.7	5	46	4.5	3.3 <sub>0</sub> <sup>+0.048</sup>	29	18	3.1	2	9	40	22	32	12	8	8	8	93
Φ 16	15	28	M5x0.8	8	47	4.5	5.0 <sub>0</sub> <sup>+0.048</sup>	35	20	6.4	2.3	14	48	28	38	16	10	10	10	99

D7Z-2

**BK** BK Type / Accessories

- Single acting ( I + Pin extra purchase)

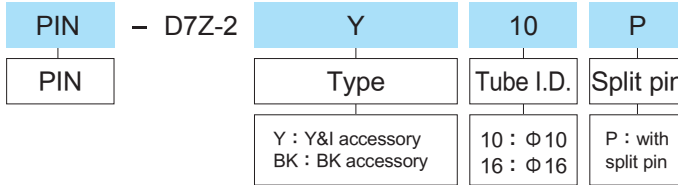


**Dimensional Table**

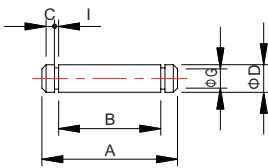
Mark Tube I.D.	A	B	C	CD (cd)	CX	CZ	D	F	GA	H	MM	NA	NB	ND	NN	R	TC	TH	TV	TW	TX	TU	U
Φ 10	15	12	14	3.3	3.2	12	4	8	8	28	M4x0.7	12.5	18.5	8 <sup>0</sup> <sub>-0.022</sub>	M8x1.0	5	4.5	29	40	22	32	12	8
Φ 16	15	18	20	5	6.5	18	5	8	8	28	M5x0.5	12.5	23.5	10 <sup>0</sup> <sub>-0.022</sub>	M10x1.0	8	5.5	35	48	28	38	16	10

Mark Stroke Tube I.D.	S												Z						ZZ					
	5-15	16-30	31-45	46-60	61-75	76-100	101-125	126-150	5-15	16-30	31-45	46-60	61-75	76-100	101-125	126-150	5-15	16-30	31-45	46-60	61-75	76-100	101-125	126-150
Φ 10	48.5	56	68	80	—	—	—	—	84.5	92	104	116	—	—	—	—	95.5	103	115	127	—	—	—	—
Φ 16	48.5	57	69	81	87	111	129	141	86.5	95	107	119	125	149	167	179	100.5	109	121	133	139	163	181	193

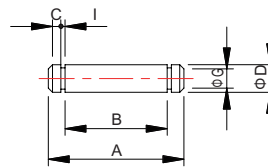
**How to order**



**Y** Rod clevis / Accessories



**I** I Rod end mounting / Accessories



**Dimensional Table**

Mark Tube I.D.	A	B	C	D <sup>d9</sup>	G	I	Ring
Φ 10	16.2	12.2	1.5	3.3 <sup>-0.03</sup> <sub>-0.06</sub>	2.5	0.5	E-2.5
Φ 16	16.2	12.2	1.5	5.0 <sup>-0.03</sup> <sub>-0.06</sub>	4	0.7	E-4

**Dimensional Table**

Mark Tube I.D.	A	B	C	D <sup>d9</sup>	G	I	Ring
Φ 10	15.2	12.2	1	3.3 <sup>-0.03</sup> <sub>-0.06</sub>	2.5	0.5	E-2.5
Φ 16	22.7	18.3	1.5	5.0 <sup>-0.03</sup> <sub>-0.06</sub>	4	0.7	E-4