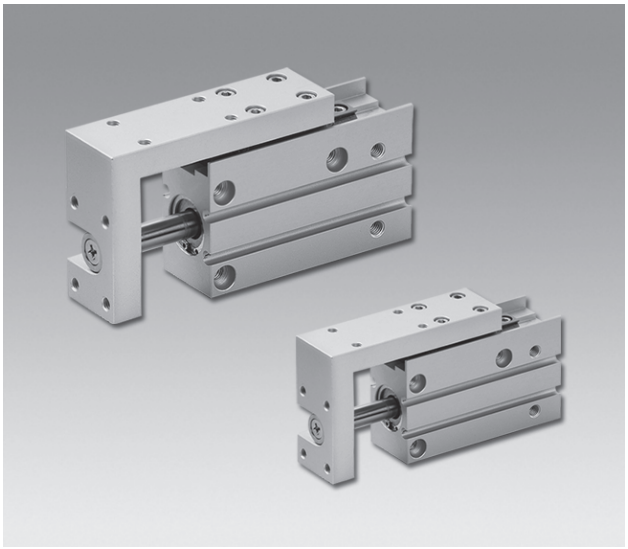
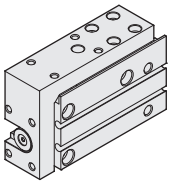


MQX series
Provide CAD external dimension.

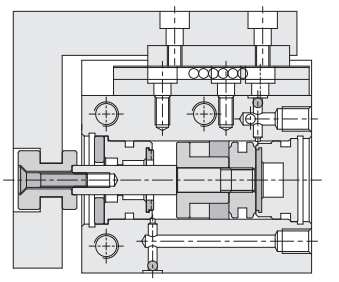


MQX series Compact Slide

Product features/ Code of order

CHELIC

Internal structure



Specification

Unit: mm

Item / Bore size	Ø6	Ø10	Ø16	Ø20
Action	Double acting			
Fluid	Air			
Mounting type	Horizontal mounting, Slide mounting, Vertical mounting			
Pressure range Kgf/cm² (kPa)	1.5 ~ 7 (150 ~ 700)			
Ambient and fluid temperature ℃	0 ~ 60			
Piston speed mm/s	100 ~ 500			
Body material	Aluminum alloy			
Cushion	Rubber washer			
Lubrication	Lubrication free type			
Port size	M5x0.8P			
Sensing device	With magnet			

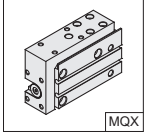
Standard stroke (MQX series)

Unit: mm

Bore siz	Stroke
Ø6	5, 10, 15, 20, 25, 30, 40, 50, 60
Ø10	5, 10, 15, 20, 25, 30, 40, 50, 60
Ø16	5, 10, 15, 20, 25, 30, 40, 50, 60
Ø20	5, 10, 15, 20, 25, 30, 40, 50, 60

Code of order

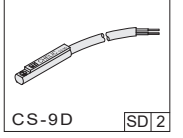
MQX	20	×	30	–	SD	2
Model	Bore size		Stroke		Sensor switch	



MQX :
Compact Slide

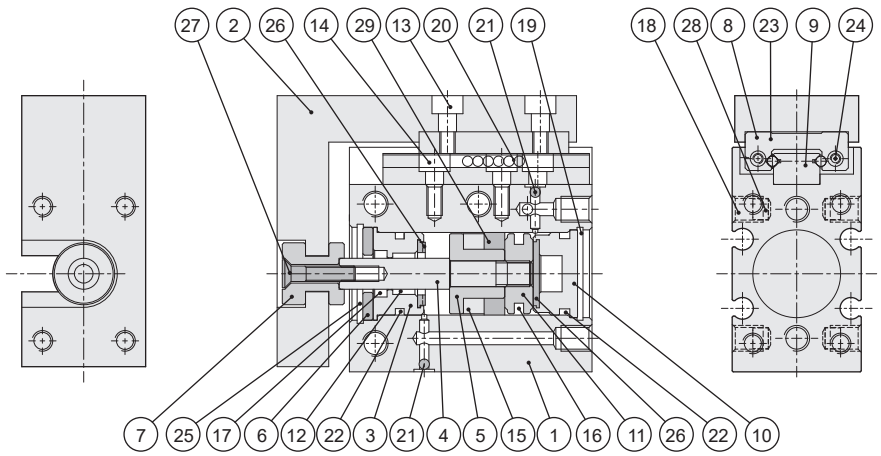
6 – Ø6 mm
10 – Ø10 mm
16 – Ø16 mm
20 – Ø20 mm

Ø 6 – 5 ~ 60 mm
Ø10 – 5 ~ 60 mm
Ø16 – 5 ~ 60 mm
Ø20 – 5 ~ 60 mm



None : Without sensor switch
SD : Sensor switch mark (CS-9D)
SB : Sensor switch mark (CS-9B)
2 : Quantity of sensor switch
1 = 1 PCS
2 = 2 PCS
(option)

Internal structure



Components and material list

No.	Item	Material	No.	Item	Material
01	Body	Aluminum alloy	16	Piston Packing	NBR
02	Slider	Aluminum alloy	17	Shaft packing	NBR
03	Front cover	Aluminum alloy	18	Set screw	Alloy steel
04	Shaft	Stainless steel	19	Rear cover C clip	Alloy steel
05	Wear ring base	Aluminum alloy	20	Roller	Bearing steel
06	Packing plate	Aluminum alloy	21	Steel ball	Stainless steel
07	Shaft connector	Aluminum alloy	22	Front/ Rear cover O-ring	NBR
08	Slide base	Stainless steel	23	Roller block	Stainless steel
09	Rail	Stainless steel	24	Roller block set screw	Stainless steel
10	Rear cover	Aluminum alloy	25	Front cover C clip	Alloy steel
11	Piston	Stainless steel	26	Cushion rubber lining	NBR
12	Oiless bearing	Teflon	27	Shaft connector set screw	Alloy steel
13	Slider set screw	Alloy steel	28	Packing lining	NBR
14	Slide base set screw	Alloy steel	29	Wear ring	Teflon
15	Magnet	Plastic magnet			

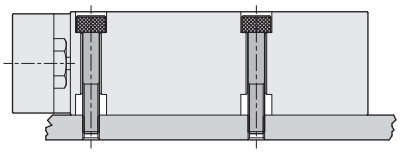
Note: The body surface processed with anodizing.

Packing and O-ring material list

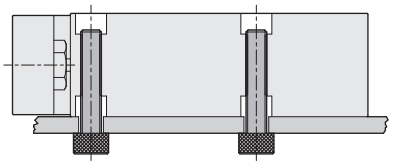
Unit: mm

Item / Quantity / Bore size	Piston packing	Shaft packing	Front/ Rear cap O-ring
	1	1	2
Ø6	MYA-3 (2pcs)	MYA-3	5 × 1.0
Ø10	MYA-7 (2pcs)	EM-4	8 × 1.5
Ø16	COP-16	EM-6	13.2 × 1.5
Ø20	COP-20	EM-10	17.5 × 2.0

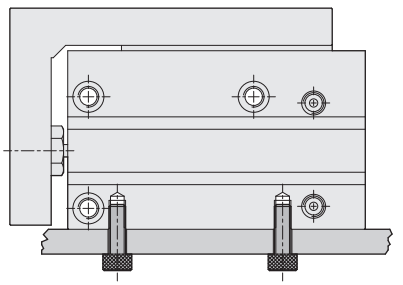
Mounting type



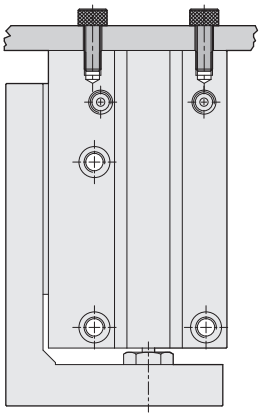
Side mounting



Side mounting



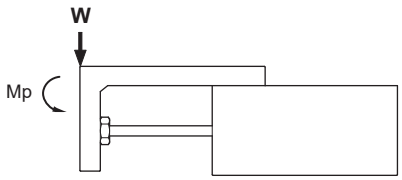
Bottom mounting



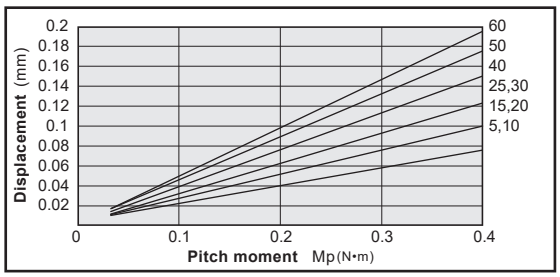
Bottom mounting

Slide base displacement due to pitch moment load

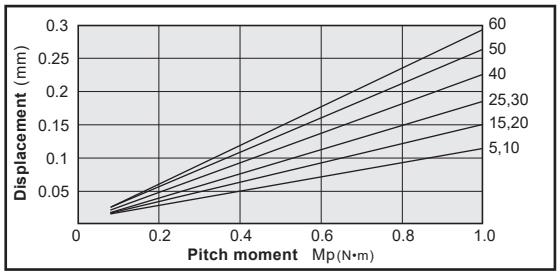
- Slide base displacement when a load acts upon the section marked with the arrow at the full stroke of the compact side (outer)



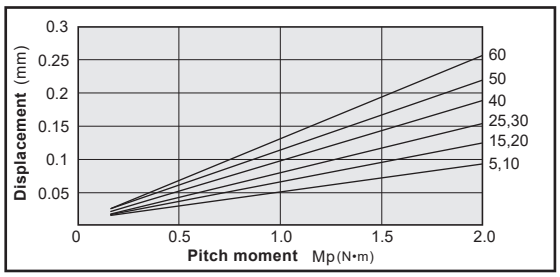
MQX Ø6



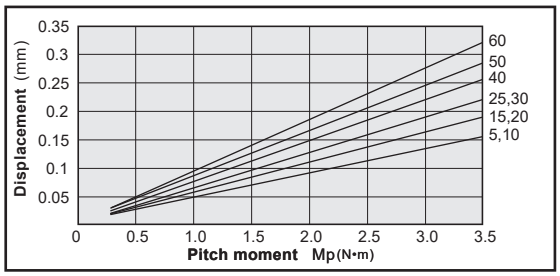
MQX Ø10



MQX Ø16

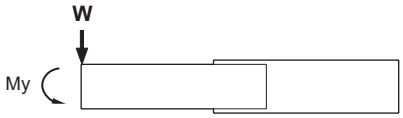


MQX Ø20

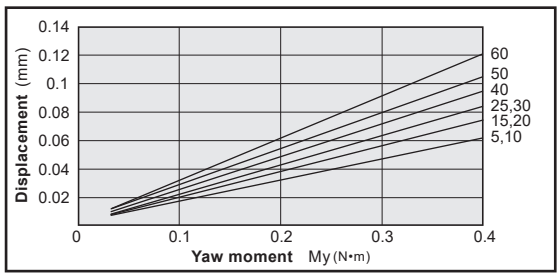


Slide base displacement due to yaw moment load

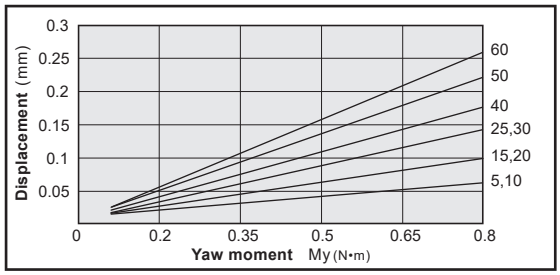
- Slide base displacement when a load acts upon the section marked with the arrow at the full stroke of the compact side (outer)



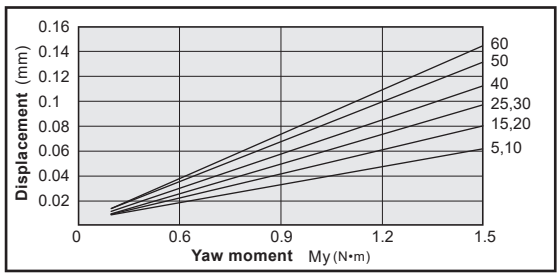
MQX Ø6



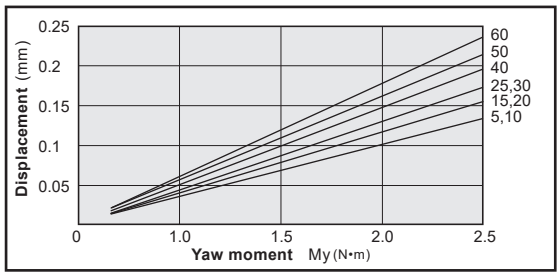
MQX Ø10



MQX Ø16

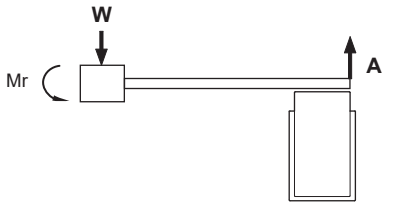


MQX Ø20

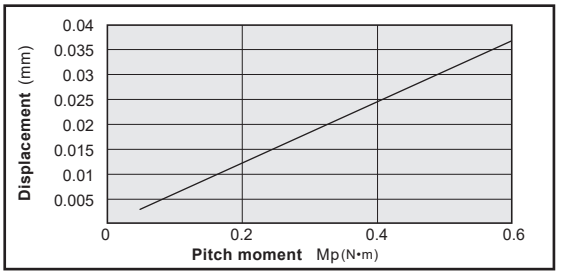


Slide base displacement due to pitch moment load

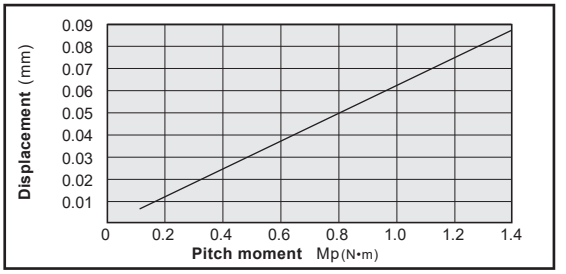
- Slide base displacement when load acts upon section W at the full stroke of the compact slide.



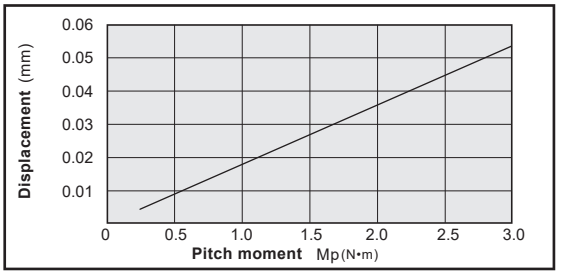
MQX Ø6



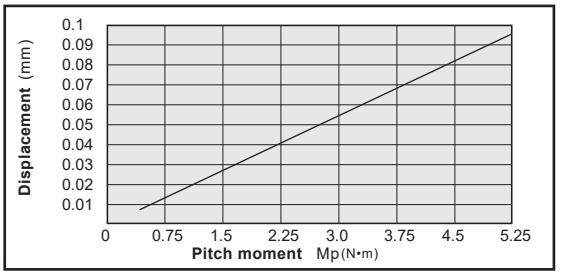
MQX Ø10



MQX Ø16

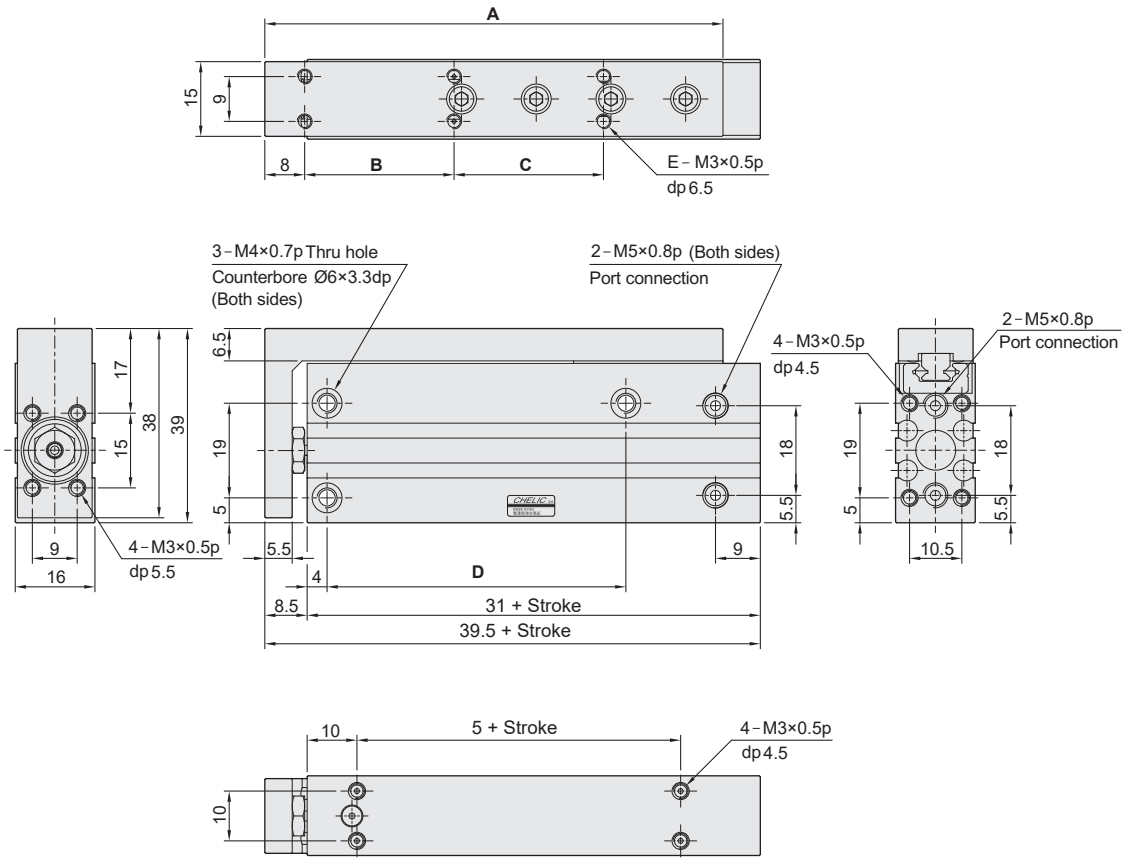


MQX Ø20



MQX Ø6 × □

MQX 6 × □ ST



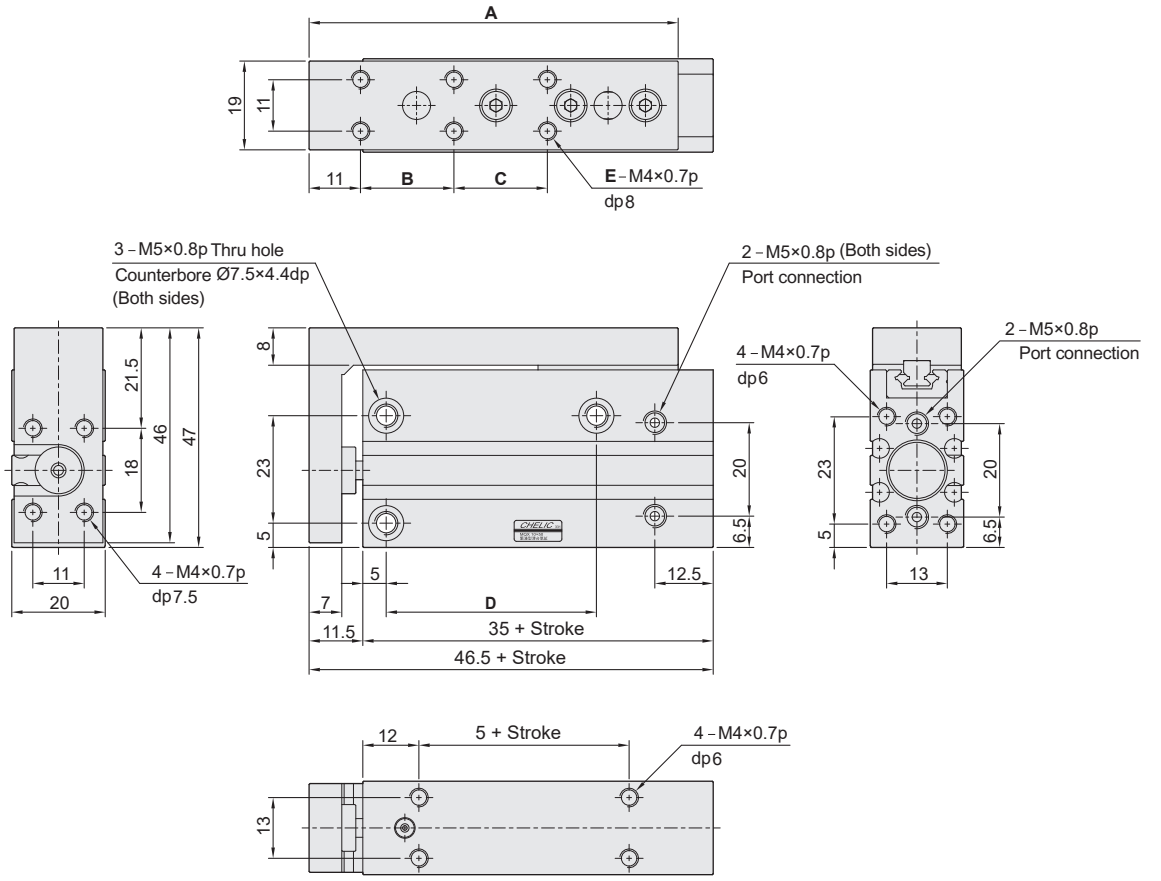
Dimension

Unit: mm

Mark / Stroke	A	B	C	D	E
5	42	10	–	14	4
10	42	10	–	14	4
15	52	20	–	24	4
20	52	20	–	24	4
25	62	30	–	30	4
30	62	30	–	30	4
40	72	20	20	45	6
50	82	25	25	55	6
60	92	30	30	60	6

MQX Ø10 × ▭

MQX 10 × ▭ ST



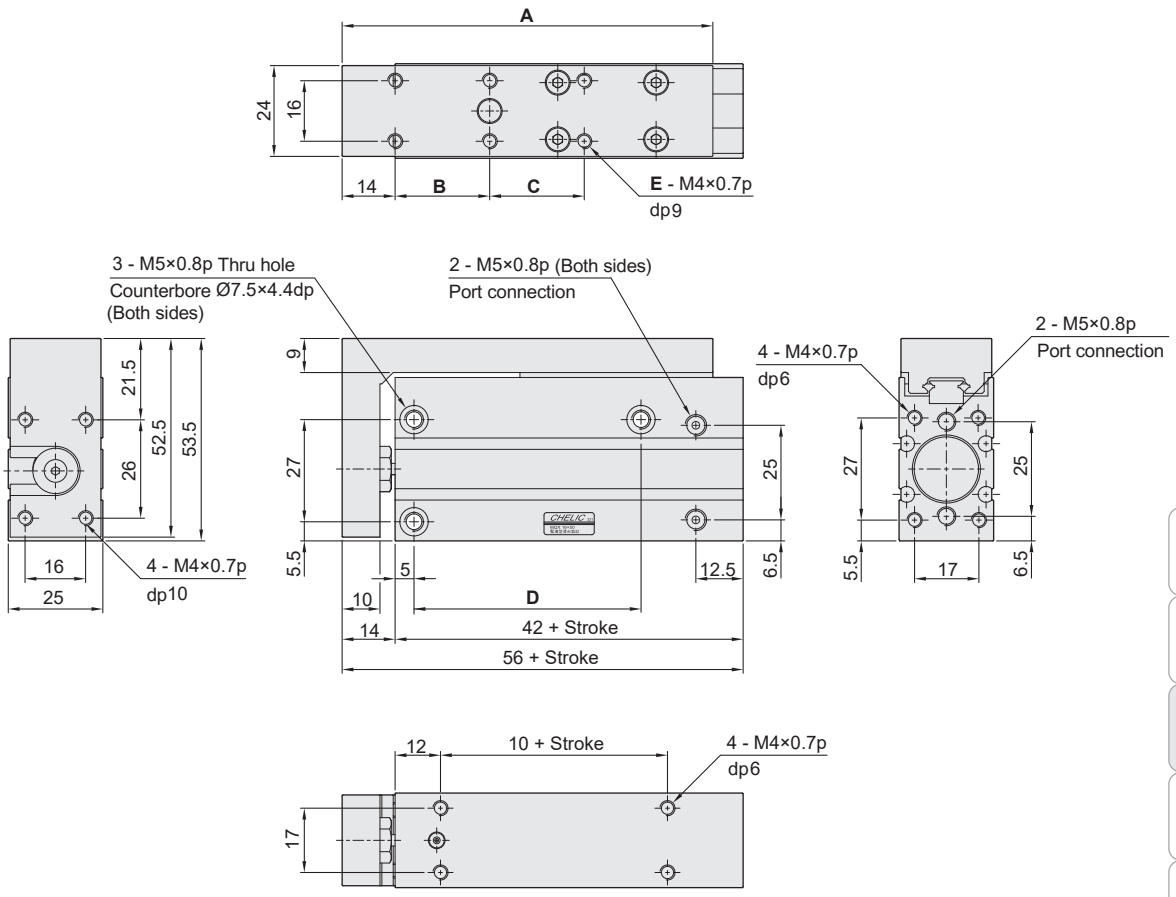
Dimension

Unit: mm

Stroke \ Mark	A	B	C	D	E
5	49	10	–	14	4
10	49	10	–	14	4
15	59	20	–	24	4
20	59	20	–	24	4
25	69	30	–	30	4
30	69	30	–	30	4
40	79	20	20	45	6
50	89	25	25	55	6
60	99	30	30	60	6

MQX Ø16 × ▭

MQX 16 × ▭ ST



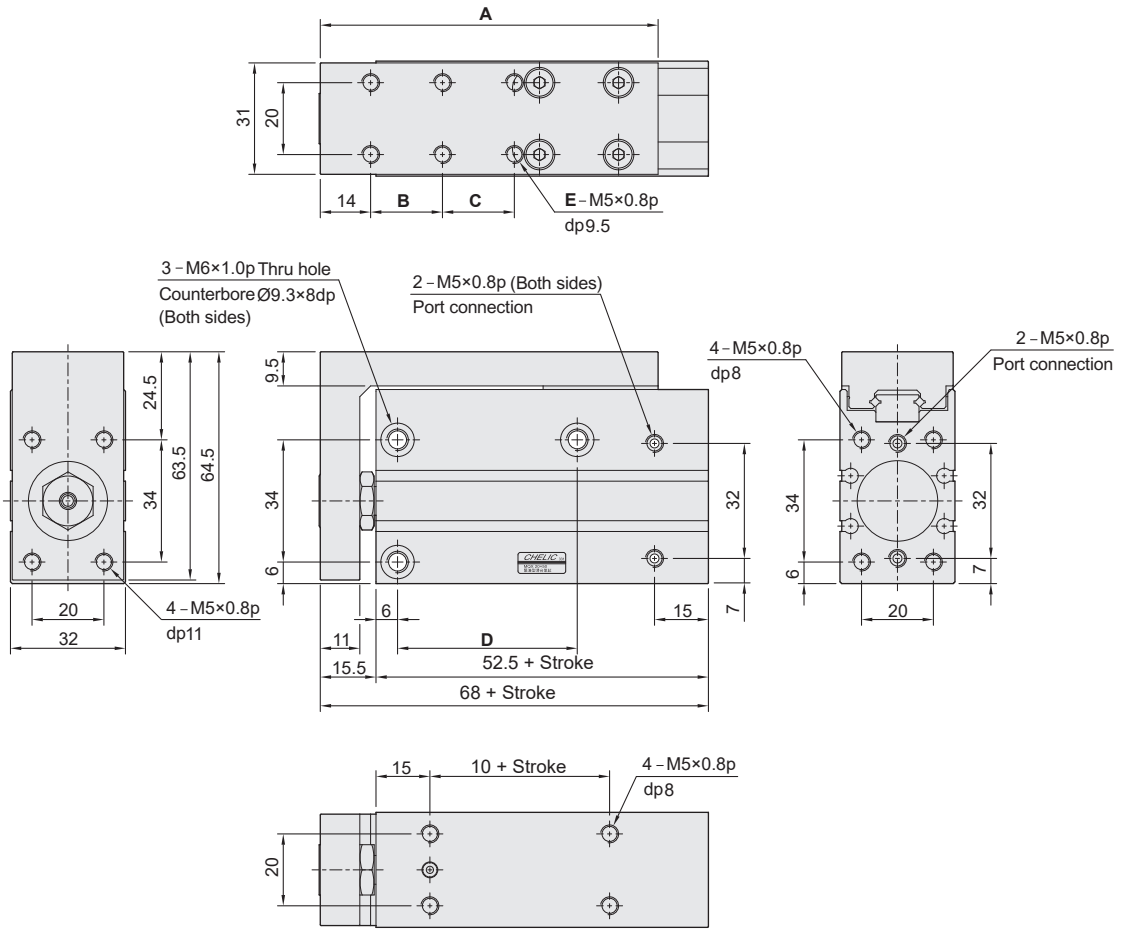
Dimension

Unit: mm

Stroke \ Mark	A	B	C	D	E
5	58	10	–	20	4
10	58	10	–	20	4
15	68	20	–	30	4
20	68	20	–	30	4
25	78	30	–	40	4
30	78	30	–	40	4
40	88	20	20	50	6
50	98	25	25	60	6
60	108	30	30	60	6

MQX Ø20 × ▭

MQX 20 × ▭ ST

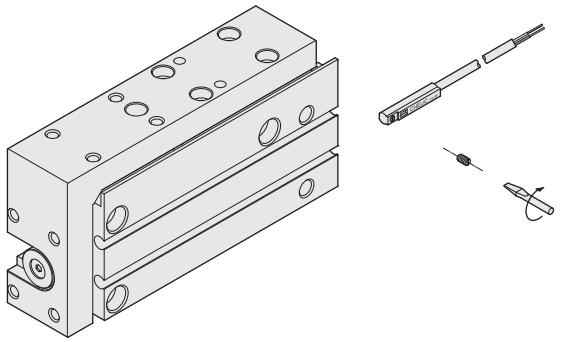


Dimension

Unit: mm

Stroke \ Mark	A	B	C	D	E
5	64	10	–	20	4
10	64	10	–	20	4
15	74	20	–	25	4
20	74	20	–	25	4
25	84	30	–	40	4
30	84	30	–	40	4
40	94	20	20	50	6
50	104	25	25	70	6
60	114	30	30	70	6

Sensor switch mounting type



Sensing range

Sensor switch is fixed on the cylinder body.The magnetic piston head will activate the Sensor switch when it enters the operating range. It has 0.5mm differential.

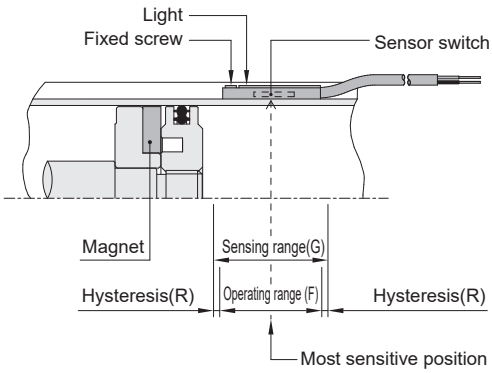
Operating range

When piston head moves the switch setting and adjustment will be based on the responding range generated by the magnetic field and the switch.(Please refer to the below table)

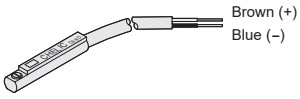
Unit: mm

Model	CS-9D(B)	
Bore size	Operating range (F)	Hysteresis(R)
Ø6	5	1
Ø10	5	1
Ø16	5	1
Ø20	8	1

Sensor switch setting and operating range

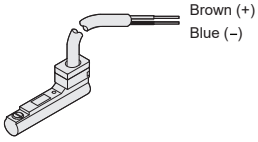


Sensor switch introduction



CS-9D

Voltage: DC 5~120V
AC 5~120V



CS-9B

Voltage: DC 5~120V
AC 5~120V