MCQN series

STANDARD CYLINDERS





Table for standard stroke

Tube I.D.(inch)	Stroke (inch)
φ 1 1/2"	1, 2, 3, 4, 5, 6, 8, 10, 12, 14, 16, 18, 20
φ 2", 2 1/2"	1, 2, 3, 4, 5, 6, 8, 10, 12, 14, 16, 18, 20, 24
φ 3 1/4", 4"	1, 2, 3, 4, 5, 6, 8, 10, 12, 14, 16, 18, 20, 24

Features:

■ Non lubrication:

Special housing and bushing enables self lubrication of piston rod.

■ High quality long service life:

Hard anodised aluminium cylinder tubes offer a high resistance to corrosion and low internal friction.

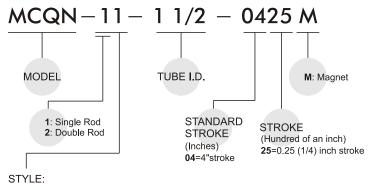
■ Full range of NFPA interchangable mounting configurations

Mounting dimensions are in accordance with ANSI (NFPA) T3.6.7 R2-1996, fluid power systems and products-square head industrial cylinders-mounting dimensions.

Specification:

Model	MCQN							
Tube I.D. (inch)	1 1/2"	2"	2 1/2"	3 1/4"	4"			
Tube I.D. (mm)	40	50	63	80	100			
Port size	١	NPTF 3/8	8	NPT	F 1/2			
Medium	Air							
Max. operating pressure	9.9 kgf/cm ²							
Min. operating pressure		0	.5 kgf/cn	n²				
Proof pressure	15 kgf/cm²							
Ambient temperature	-5~+60°C (No freezing)							
Sensor switch	RCA							
Sensor switch holder	HV1	H	V2	H	/ 3			

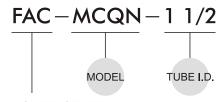
Order example:



C	ode	Symbol	Description
1	1		Double acting / Male thread
2	1		Double rod / Male thread
2	7		Double rod / Adjustable male thread (Please mark "adjustable distance(in)" at order list)

* Order example for special specification, refer to page **H-03**.

Mounting accessories:



MOUNTING TYPE:

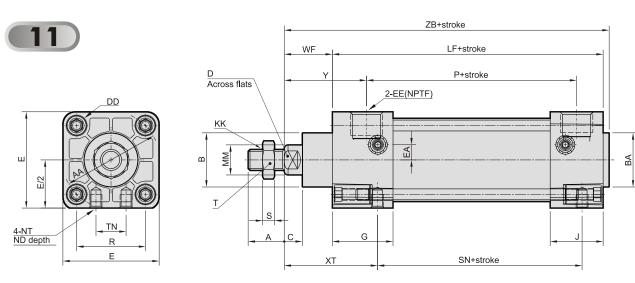
LB
FAC
FBC
I

MCQN Dimensions ϕ 1 1/2"~ ϕ 4"



STANDARD CYLINDERS

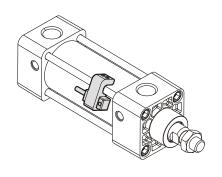


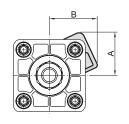


Code Tube I.D.	Α	AA	В	ВА	С	D	DD	Е	EA	EE	G	J	KK	LF	ММ	ND	NT	Р	R	S	SN
1 1/2"	3/4	2.02	1 1/8	1 1/8	3/8	9/16	1/4-28	2	0.32	3/8	1.26	1.01	7/16-20	3 5/8	5/8	9/32	1/4-20	2.36	1.43	0.26	2 1/4
2"	3/4	2.6	1 1/8	1 1/8	3/8	9/16	5/16-24	2 1/2	0.43	3/8	1.26	1.06	7/16-20	3 5/8	5/8	7/16	5/16-18	2.4	1.84	0.26	2 1/4
2 1/2"	3/4	3.1	1 1/8	1 1/8	3/8	9/16	5/16-24	3	0.47	3/8	1.3	1.06	7/16-20	3 3/4	5/8	19/32	3/8-16	2.48	2.19	0.26	2 3/8
3 1/4"	1 1/8	3.9	1 1/2	1 1/2	1/2	7/8	3/8-24	3 3/4	0	1/2	1.57	1.18	3/4-16	4 1/4	1	5/8	1/2-13	2.72	2.76	0.42	2 5/8
4"	1 1/8	4.7	1 1/2	1 1/2	1/2	7/8	3/8-24	4 1/2	0	1/2	1.57	1.18	3/4-16	4 1/4	1	5/8	1/2-13	2.72	3.32	0.42	2 5/8

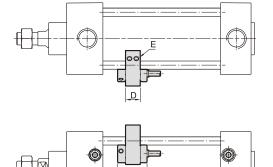
Code Tube I.D.	Т	TN	WF	XT	Υ	ZB
1 1/2"	0.69	0.625	1	1 15/16	1.71	4 3/4
2"	0.69	0.875	1	1 15/16	1.71	4 3/4
2 1/2"	0.69	1.25	1	1 15/16	1.75	4 7/8
3 1/4"	1.12	1.5	1 3/8	2 7/16	2.34	5 53/64
4"	1.12	2.0625	1 3/8	2 7/16	2.34	5 53/64

■ Installation of sensor switch





Code Tube I.D.	Sensor switch	Hold	Α	В	С	D	E
1 1/2"	RCA	HV1	1.10	1.47	1.02	0.51	M4×10L
2"	RCA	HV2	1.49	1.68	1.02	0.51	M4×10L
2 1/2"	RCA	HV2	1.66	1.86	1.02	0.51	M4×10L
3 1/4"	RCA	HV3	1.87	2.13	1.02	0.51	M4×10L
4"	RCA	HV3	2.15	2.42	1.02	0.51	M4×10L





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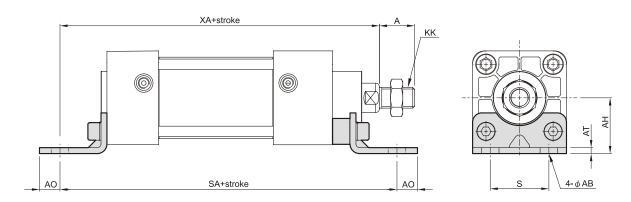
Cylinder weight

unit:kg

Model	Basic weight MCQN-11	Basic weight (magnet) MCQN-11	Stroke 1 inch MCQN-11		
Tube I.D.					
φ 1 1/2"	0.664	0.676	0.078		
φ2"	0.965	0.981	0.096		
φ2 1/2"	1.314	1.334	0.108		
φ3 1/4"	2.482	2.510	0.200		
φ4"	3.266	3.300	0.220		

Model	LB	LB FAC/FBC		PIN		
Tube I.D.			0	0 0		
φ 1 1/2"	0.160	0.246	0.150	0.065		
φ2"	0.240	0.403	0.150	0.065		
φ 2 1/2"	0.300	0.576	0.150	0.065		
φ 3 1/4"	0.633	1.408	0.522	0.175		
φ 4"	0.955	2.015	0.522	0.175		

LB



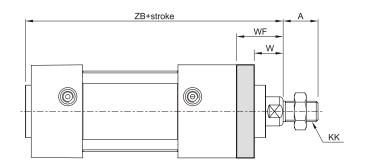
Code Tube I.D.	Α	AB	AH	AT	AO	KK	S	SA	XA
1 1/2"	3/4	3/8	1 3/16	1/8	7/16	7/16-20	1 1/4	6	5 5/8
2"	3/4	3/8	1 7/16	1/8	9/16	7/16-20	1 3/4	6	5 5/8
2 1/2"	3/4	3/8	1 5/8	1/8	9/16	7/16-20	2 1/4	6 1/8	5 3/4
3 1/4"	1 1/8	1/2	1 15/16	11/64	3/4	3/4-16	2 3/4	7 3/8	6 7/8
4"	1 1/8	1/2	2 1/4	15/64	3/4	3/4-16	3 1/2	7 3/8	6 7/8

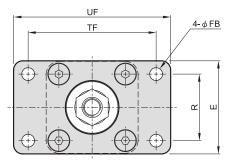
MCQN Mounting accessories ϕ 1 1/2"~ ϕ 4"



STANDARD CYLINDERS

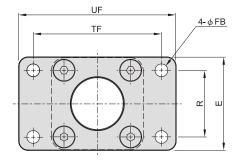
FAC

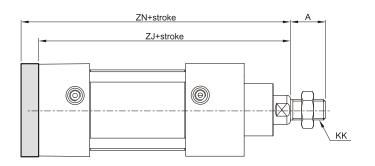




Code Tube I.D.	Α	Е	FB	KK	R	TF	UF	W	WF	ZB
1 1/2"	3/4	2	0.25	7/16-20	1.43	2.75	3.375	0.63	1	4 3/4
2"	3/4	2 1/2	0.31	7/16-20	1.84	3.375	4.13	0.63	1	4 3/4
2 1/2"	3/4	3	0.31	7/16-20	2.19	3.88	4.63	0.63	1	4 7/8
3 1/4"	1 1/8	3 3/4	0.38	3/4-16	2.76	4.68	5.5	0.75	1 3/8	5 53/64
4"	1 1/8	4 1/2	0.38	3/4-16	3.32	5.44	6.25	0.75	1 3/8	5 53/64

FBC





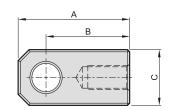
Code Tube I.D.	Α	Е	FB	KK	R	TF	UF	ZJ	ZN
1 1/2"	3/4	2	0.25	7/16-20	1.43	2.75	3.375	4.63	5
2"	3/4	2 1/2	0.31	7/16-20	1.84	3.375	4.13	4.63	5
2 1/2"	3/4	3	0.31	7/16-20	2.19	3.88	4.63	4.75	5.13
3 1/4"	1 1/8	3 3/4	0.38	3/4-16	2.76	4.68	5.5	5.63	6.25
4"	1 1/8	4 1/2	0.38	3/4-16	3.32	5.44	6.25	5.63	6.25

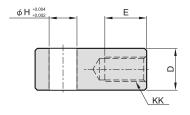
MCQN Mounting accessories ϕ 1 1/2"~ ϕ 4"



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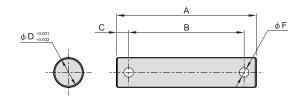
I connector





Code Tube I.D.	Α	В	С	D	Е	Н	KK
1 1/2" ~ 2 1/2"	2	1.5	1	0.75	0.75	0.5	7/16-20
3 1/4" ~ 4"	2.81	2.06	1.5	1.25	1.13	0.75	3/4-16

Pin



Code Tube I.D.	Α	В	С	D	F
1 1/2" ~ 2 1/2"	2.36	1.95	0.2	0.5	0.16
3 1/4" ~ 4"	3.13	2.74	0.19	0.75	0.2

