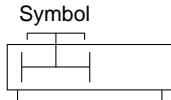


Cam Follower Guide Series MY1C

Mechanical Joint Rodless Cylinder



Specifications

Bore size (mm)		16	20	25	32	40	50	63	
Fluid		Air							
Operation		Double acting							
Operating pressure range		0.1 to 0.8MPa							
Proof pressure		1.2MPa							
Ambient and fluid temperature		5 to 60°C							
Operating piston speed		100 to 1500mm/s ⁽¹⁾							
Cushion		Air cushions (Standard)							
Lubrication		Non-lube							
Allowable stroke tolerance		Up to 1000 ^{+1.8} ₀ 1001 to 3000 ^{+2.8} ₀		Up to 2700 ^{+1.8} ₀ , 2701 to 5000 ^{+2.8} ₀					
Port size	Front/side port	M5 X 0.8			Rc(PT) ¹ / ₈		Rc(PT) ¹ / ₄	Rc(PT) ³ / ₈	
	Bottom port (for centralized piping only)	ø4			ø5	ø6	ø8	ø10	ø11

Note 1) The operating piston speed when the air cushion alone is used should not exceed 1000mm/sec., operating piston speed for centralized piping type is 100 to 1000mm/sec.

Note 2) Use within absorbing capacity. Refer to p.3.23-42.

Stroke Adjusting Unit Specifications

Bore size (mm)	16			20			25			32			40			50			63		
Unit symbol and contents	A	L	H	A	L	H	A	L	H	A	L	H	A	L	H	A	L	H	A	L	H
	With adjusting bolt	With low load shock absorber and adjusting bolt	With high load shock absorber and adjusting bolt	With adjusting bolt	With low load shock absorber and adjusting bolt	With high load shock absorber and adjusting bolt	With adjusting bolt	With low load shock absorber and adjusting bolt	With high load shock absorber and adjusting bolt	With adjusting bolt	With low load shock absorber and adjusting bolt	With high load shock absorber and adjusting bolt	With adjusting bolt	With low load shock absorber and adjusting bolt	With high load shock absorber and adjusting bolt	With adjusting bolt	With low load shock absorber and adjusting bolt	With high load shock absorber and adjusting bolt	With adjusting bolt	With low load shock absorber and adjusting bolt	With high load shock absorber and adjusting bolt
Stroke adjusting range	Any position on the whole stroke (Refer to p.3.23-43 or adjustment procedures.)																				
Stroke line adjusting range (mm)	0 to -5.6			0 to -6			0 to -11.5			0 to -12			0 to -16			0 to -20			0 to -25		
Shock absorber	—	RB 0806	—	RB 0806	RB 1007	—	RB 1007	RB 1412	—	RB 1412	RB 2015	—	RB 1412	RB 2015	—	RB 2015	RB 2725	—	RB 2015	RB 2725	—
Max. absorbing energy (J)	—	2.9	—	2.9	5.9	—	5.9	19.6	—	19.6	58.8	—	19.6	58.8	—	58.8	147	—	58.8	147	—
Absorption stroke (mm)	—	6	—	6	7	—	7	12	—	12	15	—	12	15	—	15	25	—	15	25	—
Max. collision speed (mm/s)	200	1500	200	1500	200	1500	200	1500	200	1500	200	1500	200	1500	200	1500	200	1500	200	1500	200
Max. operating freq. (cycle/min)	—	80	—	80	70	—	70	45	—	45	25	—	45	25	—	25	10	—	25	10	—
Spring force (N)	Extended	—	1.96	—	1.96	4.22	—	4.22	6.86	—	6.86	8.34	—	6.86	8.34	—	8.34	8.83	—	8.34	8.83
	Retracted	—	4.22	—	4.22	6.86	—	6.86	15.98	—	15.98	20.50	—	15.98	20.50	—	20.50	20.01	—	20.50	20.01
Operating temp. range (°C)	5 to 60																				

Theoretical Force

Unit: N

Bore (mm)	Piston area (mm ²)	Operating pressure (MPa)						
		0.2	0.3	0.4	0.5	0.6	0.7	0.8
16	200	40	60	80	100	120	140	160
20	314	62	94	125	157	188	219	251
25	490	98	147	196	245	294	343	392
32	804	161	241	322	402	483	563	643
40	1256	251	377	502	628	754	879	1005
50	1962	392	588	784	981	1177	1373	1569
63	3115	623	934	1246	1557	1869	2180	2492

Note) Theoretical force (N)=Pressure (MPa) X Piston area (mm²)

Standard Stroke

Bore size (mm)	Standard stroke*(mm)	Max. manufacturable stroke (mm)
16	100, 200, 300, 400, 500, 600, 700, 800 900, 1000, 1200, 1400, 1600, 1800, 2000	3000
20, 25, 32, 40 50, 63		5000

*Suffix "-XB11" for models with a stroke exceeding the standard stroke.

Refer to made to order specifications (P.5.4-18).

Weight

Unit: kg

Bore size (mm)	Basic weight	Additional weight per 50mm of stroke	Side support weight (per set)	Stroke adjusting unit weight (per unit)		
			Type A, B	Unit A	Unit L	Unit H
16	0.67	0.12	0.01	0.03	0.04	—
20	1.06	0.15	0.02	0.04	0.05	0.08
25	1.58	0.24	0.02	0.07	0.11	0.18
32	3.14	0.37	0.04	0.14	0.23	0.39
40	5.60	0.52	0.08	0.25	0.34	0.48
50	10.14	0.76	0.08	0.36	0.51	0.81
63	16.67	1.10	0.17	0.68	0.83	1.08

Calculation example: **MY1C25-300A**

Basic weight.....1.58kg
 Extra weight.....0.24/50st
 Weight of unit A.....0.07kg
 Cylinder stroke.....300st
 1.33+0.24 x 300+50+0.07 x 2=3.16kg



Made to Order

Refer to p.5.4-1 for specifications of made to order for series MY1C.

CL

MLGC

CNA

CB

CV/MVG

CXW

CXS

CXT

MX

MXU

MXS

MXQ

MXF

MXW

MXP

MG

MGP

MGQ

MGG

MGC

MGF

CY1

MY1