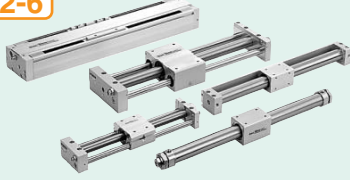


Speciality Cylinders

Sine Rodless Cylinder: *REA*

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Series	Type	Bore size (mm)
REA	Basic type	25, 32, 40, 50, 63
REAR	Direct mount type	
REAS	Slider type (Slide bearing)	10, 15, 20
REAL	Slider type (Ball bushing bearing)	25, 32, 40
REAH	High precision guide type	10, 15, 20, 25, 32
Features	Allows rapid transfer of work with dramatically reduced shock/impact.	

Sine Rodless Cylinder: *REB*

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Series	Type	Bore size (mm)
REBR	Direct mount type	15, 25, 32
REBH	High precision guide type (Single axis)	15, 25
REBHT	High precision guide type (Double axis)	25, 32
Features	Allows rapid transfer of work with dramatically reduced shock/impact.	

Sine Cylinder: *REC*

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Series	Action	Bore size (mm)
REC	Double acting	20, 25, 32, 40
Features	Allows rapid transfer of work with dramatically reduced shock/impact.	

Low Speed Cylinder: *CJ2X/CUX/CQSX/CQ2X/CM2X*

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10-3-6



Series	Action	Bore size (mm)
CJ2X	Double acting	10, 16
CUX		10, 16, 20, 25, 32
CQSX		12, 16, 20, 25
CQ2X		32, 40, 50, 63, 80, 100
CM2X		20, 25, 32, 40

Smooth Cylinder: *CQSY/CQ2Y/CM2Y/CG1Y/CA2Y*

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Series	Action	Bore size (mm)
CQSY	Double acting	12, 16, 20, 25
CQ2Y		32, 40, 50, 63, 80, 100
CM2Y		20, 25, 32, 40
CG1Y		20, 25, 32, 40, 50, 63, 80, 100
CA2Y		40, 50, 63, 80, 100

Low Friction Cylinder : *MQQ/MQM*

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10-5-8



Series	Type	Bore size (mm)
MQQ	Compact type	10, 16, 20
MQM	Anti-lateral load type	25, 28

High Power Cylinder: *RHC*

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10-6-6



Series	Action	Bore size (mm)
RHC	Double acting	20, 25, 32, 40, 50, 63, 80, 100
Features	Provides 10 to 20 times the energy absorption capacity of a general purpose cylinder (SMC's Series CG1).	

Rotary Clamp Cylinder : *MK/MK2*

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10-7-4



Type	Series	Action	Bore size (mm)
Standard	MK	Double acting	12, 16, 20, 25
			32, 40, 50, 63
Heavy duty	MK2	Double acting	20, 25, 32, 40, 50, 63

Stopper Cylinder: *RSQ/RSG*

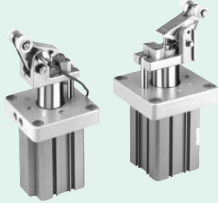
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Type	Series	Action	Bore size (mm)
Fixed mounting height	RSQ	Double acting	12, 16, 20, 32, 40, 50
		Double acting with spring	
		Single acting	
Adjustable mounting height	RSG	Double acting	40, 50
		Double acting with spring	
		Single acting	

Heavy Duty Stopper Cylinder : RSH/RS1H


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Series	Action	Mounting system	Bore size (mm)
RSH RS1H	Double acting	Flange style	20, 32
	Double acting with spring		50, 63
	Single acting		80
Features	Capable of stopping pallets softly. Lever rod end with built-in shock absorber Stopper cylinder, Fixed mounting height		

3 Position Cylinder: RZQ


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Series	Action	Bore size (mm)
RZQ	Double acting	32, 40 50, 63
Features	Provides intermediate stop mechanism. First-stage stroke can be specified without changing the overall length. ±0.02 or less repeatability in intermediate stop positioning. First-stage stroke can be freely specified. Large bore tube rod to withstand lateral load. Wide variations in mounting	

Escapements: MIW/MIS

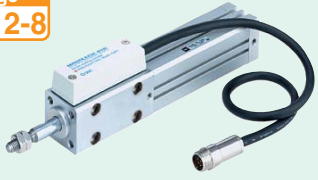
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Series	Type	Bore size (mm)
MIW	Double finger	8, 12, 20
MIS	Single finger	25, 32
Features	Ideal for separating and feeding industrial parts from vibratory feeders, magazines and hoppers. ø8, ø25, ø32, additionally released.	

High Precision Stroke Reading Cylinder : CEP1


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Series	Action	Bore size (mm)
CEP1	Double acting	12, 20
Features	Movable scale cylinder	

Stroke Reading Cylinder : CE1

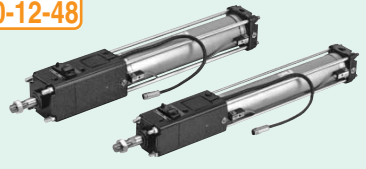
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Series	Action	Bore size (mm)
CE1	Double acting	12, 20, 30, 40, 50, 63
Features	Movable scale cylinder	

Stroke Reading Cylinder with Brake : CE2

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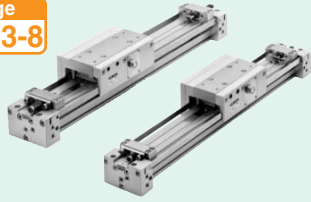


Series	Action	Bore size (mm)
CE2	Double acting	40, 50, 63, 80, 100
Features	Movable scale cylinder with brake	

Speciality Cylinders

Stroke Reading Rodless Cylinder with Brake : **ML2B**

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Series	Action	Bore size (mm)
ML2B	Double acting (Cylinder)	25, 32, 40
Features	Mechanical joint rodless cylinder with brake mechanism and stroke sensor incorporated	

Stainless Steel : **CJ5-S/CG5-S** Cylinder

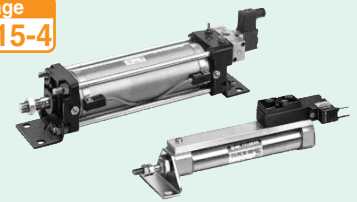
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Series	Action	Bore size (mm)
CJ5-S	Double acting	10, 16
CG5-S		20, 25, 32, 40, 50, 63, 80, 100

Valve Mounted Cylinder : **CV**

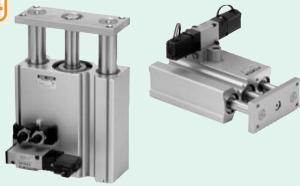
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Type	Series	Action	Bore size (mm)	Components	
				Cylinder	Valve
Standard	CVJ5	Double acting	10 16	CJ2	SYJ3190
	CVJ3	Single (Spring return/extend)		CJ2	SYJ319
	CVM5	Double acting	20 25	CM2	VZ390
	CVM3	Single (Spring return/extend)	32	CM2	VZ319
			40		
	CV3	Double acting	40 50 60	CA1	VZ308
CVS1	Double acting	80 100	CS1	VS424	
Non-rotating rod	CVM5K	Double acting	20 25	CM2K	VZ390
	CVM3K	Single (Spring return/extend)	32	CM2K	VZ319
			40		
	CV3K	Double acting	40 50	CA1K	VZ308
CVS1K	Double acting	63	CS1K	VZ424	

Valve Mounted Guide Cylinder : **MVGQ**

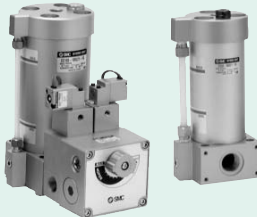
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Type	Series	Bore size (mm)	Applicable valve
Slide bearing	MVGQM	12, 16, 20	SYJ3000
		25, 32, 40	VZ3000
Ball bushing bearing	MVGQL	50, 63	VZ5000
		80, 100	VF3000
Features	Valve, speed controller and cylinder combined in one unit		

Air-hydro Unit: **CC**

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10-17-6



Type	Series	Nominal size (mm)
Air-hydro unit	CC	63, 100, 160
Converter	CCT	40, 63, 100, 160
Valve unit	CCV	—
Features	By converting air pressure into hydraulic pressure, the same function of a hydraulic unit can be obtained while using pneumatic equipment.	

Related Products

Shock Absorber: *RB*

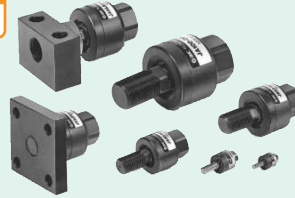
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Type	Series	Stroke absorption (mm)
Standard	RB	5, 6, 7, 11, 12, 25
Coolant resistant	RBL	6, 7, 11, 12, 15, 25
Short type	RBQ	4, 7, 8, 8.5, 13
Features	Impact absorption Noise damping	

Floating Joint: *J*

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10-19-1



Type	Series	Applicable cylinder bore size (mm)
Standard	JA	6, 10, 15, 20, 25, 30, 40, 50 63, 80, 100, 125, 140, 160
Heavy duty	JAH	40, 50, 63, 80, 100
Special for compact cylinder	JB	12, 16, 20, 25, 32, 40, 50 63, 80, 100, 125, 140, 160
Features	This joint absorbs the misalignment of the driven cylinder, thus making centering unnecessary.	

Floating Joint (Stainless steel type) : *JS*

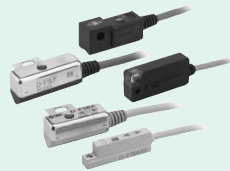
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Type	Series	Applicable cylinder bore size (mm)
Standard	JS	10, 15, 16, 20, 25 32, 40, 50, 63

Auto Switch: *D-*

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10-20-1



Type	Features
Reed switch	General purpose type 2-color indication type
Solid state switch	General purpose 2-color indication type
	2-color indication type with diagnostic output
	Water resistant (2-color indication type)
	With timer, Magnetic field resistant
	Heat resistant 2-color indication type
	Wide range detection type

Made to Order Specifications/-X

- Simple Specials..... P. 10-21-3
- Made to Order Common Specifications..... P. 10-21-19
- Made to Order Individual Specifications..... P. 10-21-111

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..... P. 10-22-1

Technical Data/Data

1. Bore Size Selection..... P. 10-23-2
2. Air Consumption and Required Air Volume..... P. 10-23-6
3. Theoretical Output Table..... P. 10-23-7