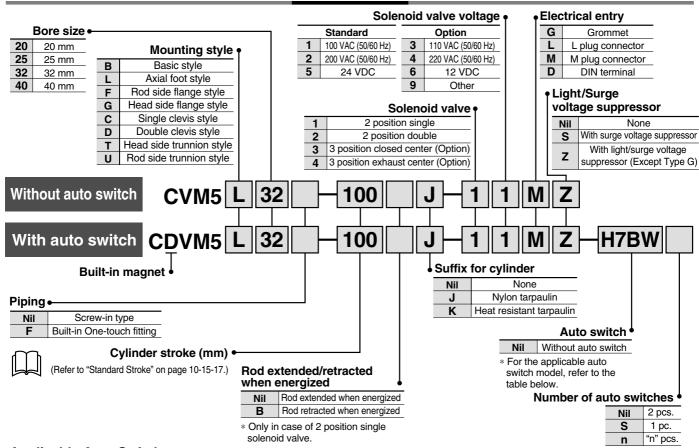


Valve Mounted Cylinder Double Acting, Single Rod Series CVIVI5

ø20, ø25, ø32, ø40

How to Order



Applicable Auto Switch/Refer to page 10-20-1 for further information on auto switches.

			ight	VA/: wine or		Load volta	age		Lead v	vire le	ngth	(m)*					
Туре	Special function	Electrical entry	Indicator light	Wiring (Output)		DC	AC	Auto switch model	0.5 (Nil)	3 (L)		None (N)	Pre-wire connector	Applica	ble load		
ا			_			3-wire (NPN equivalent)	_	5 V	_	C76	•	•	_	_	_	IC circuit	_
switch	_	Grommet	Ś				100 V	C73	•	•	•	_	_				
<u>8</u>				Yes	2-wire	24 V	12 V	100 V, 200 V	B54	•	•	•	_	_		Relay,	
Reed		Connector		2-10116 2	24 V		_	C73C	•	•	•	•	_	PLC			
	Diagnostic indication (2-color indication)	Grommet				_	_	B59W	•	•	_	_	_				
		Grommet	3-wire (NPN)	EV 10 V		H7A1	•	•	0	_	0	IC airearit					
등			Grommet	Grommet	Grommet	Grommet	3-wire (PNP)		5 V, 12 V		H7A2	•	•	0	_	0	IC circuit
switch	_			0		12 V		H7B	•	•	0	_	0				
Ę.		Connector	es	2-wire	24 V	12 V		H7C	•	•			_		Relay,		
state	Dia ama atia in dia atian		۶	3-wire (NPN)	24 V	5 V. 12 V	_	H7NW	•	•	0	_	0) ,, ,	PLC		
Solid	Diagnostic indication (2-color indication)	Grommot		3-wire (PNP) 5 V, 12 V	5 V, 12 V		H7PW	•	•	0	_	0	IC circuit				
လိ	[` ′	Giorilliet		2-wire		12 V		H7BW	•	•	0	_	0	_			
	With diagnostic output (2-color indication)			4-wire (NPN)		5 V, 12 V		H7NF	•	•	0	_	0	IC circuit			

* Solid state switches marked with "O" are produced upon receipt of order.

* Lead wire length symbols: 0.5 m Nil (Example) C73C

3 m----- L (Example) C73CL 5 m---- Z (Example) C73CZ

None ········ N (Example) C73CN

• For details about auto switches with pre-wire connector, refer to page 10-20-66.



[•] Since there are other applicable auto switches than listed, refer to Best Pneumatics Vol. 6 for details.

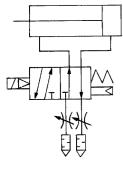
Valve Mounted Cylinder Double Acting, Single Rod Series CVM5

Operation type can be changed to rod extended when energized or rod retracted when energized.

An auto switch cylinder with the switch installed can also be manufactured.



JIS Symbol



Made to Order Specifications (For details, refer to page 10-21-1.)

	· · · · · · · · · · · · · · · · · · ·
Symbol	Specifications
-XA□	Change of rod end shape
-XC4	With heavy duty scraper
-XC6	Piston rod and rod end nut made of stainless steel

Specifications

Applicable	bore size (mm)	20 25 32 40				
Туре	Non-lube type					
Fluid			А	ir		
Action			Double actin	g, Single roo	I	
Cushion			Rubber	bumper		
Proof pressure			1.05	MPa		
Maximum operating p		0.7	MPa			
Minimum operating pr		0.15	MPa			
Ambient and fluid tem	−10 to 50°C (No freezing)					
Lubrication		Not required (Non-lube)				
Thread tolerance		JIS Class 2				
Stroke length tolerand	e	+ 1.4 0				
Effective area of valve	e (Cv factor)	4.5 mm² (0.25)				
Port size	Screw-in type	Rc 1/8				
1 OIT SIZE	Built-in One-touch fitting	O.D.: ø6/l.D.: ø4				
Piston speed (mm/s)	Piston speed (mm/s) Note)			50 to 590*	50 to 420*	
Mounting	Basic style, Axial foot style, Rod side flange style, Head side flange style, Single clevis style, Double clevis style, Head side trunnion style, Rod side trunnion style					

No

Note) The figures marked with "*" represent the values of the cylinder with the silencer type exhaust throttle valve removed. To operate the cylinder at these values, prevent dust from entering by installing an AN120-M5 silencer on the EXH port.

Allowable Kinetic Energy

Bore size (mm)	20	25	32	40
Allowable kinetic energy	0.27	0.4	0.65	1.2

Solenoid Valve Specifications

Applicable solenoid valve model			Series VZ3□90		
Applicable solelic	Jiu vaive	HIOUEI	Selles VZSLIBO		
Coil rated voltage			Standard: 100/200 VAC (50/60 Hz), 24 VDC Option: 110/220 VAC, 12 VDC		
Allowable voltage			-15 to 10%		
Coil insulation			Class B or equivalent (130°C)		
Electrical entry	Electrical entry		Grommet, L plug connector, M plug connector, DIN terminal		
Power Note) consumption (W)	D	Ö	1.8 (With indicator light: 2.1)		
Apparent Note)	AC	Inrush	4.5/50 Hz, 4.2/60 Hz		
power (VA)		Holding	3.5/50 Hz, 3.0/60 Hz		

Note) At the rated voltage.

Standard Stroke

Bore size (mm)	Standard stroke (mm) Note)	Maximum stroke (mm)		
20				
25	25, 50, 75, 100, 125, 150,			
32	200, 250, 300	1000		
40				

 \bigcirc

Note) Other intermediate strokes can be manufactured upon receipt of order. When exceeding 300 stroke, the allowable maximum stroke length is determined by the stroke selection table.

Rod Boot Material

Symbol	Rod boot material	Maximum ambient temperature
J	Nylon tarpaulin	70°C
K	Heat resistant tarpaulin	110°C*

^{*} Maximum ambient temperature for the rod boot itself.

RE A

REC

C□X C□Y

MQ Q

RHC

...

MK(2)

RS^Q_G

RZQ

MI®

CEP1

CE1

CE2

ML2B

C_G5-S

CV MVGQ

IVIVAG

CC RB

.

D-

-X

20-

Minimum Stroke for Auto Switch Mounting

(mm)

Auto switch	2	2	r		
model	Different sides	Same side	Different sides	Same side	1
D-C7□/C80	15	50	45 . 45 (n-2)	50 + 45 (n – 2)	10
D-H7□/H7□W D-H7NF	15	60	$15 + 45 \left(\frac{n-2}{2}\right)$ (n = 2, 4, 6···)	60 + 45 (n – 2)	10
D-C73C/C80C D-H7C	15	65	$15 + 50 \left(\frac{n-2}{2}\right)$ $(n = 2, 4, 6\cdots)$	65 + 50 (n – 2)	10
D-B5□ D-B64 D-G5NTL	15	75	$15 + 50 \left(\frac{n-2}{2}\right) \\ (n = 2, 4, 6\cdots)$	75 + 55 (n – 2)	10
D-B59W	20	75	$20 + 50 \left(\frac{n-2}{2}\right)$ (n = 2, 4, 6···)	70 + 00 (II - 2)	15

Weight

(kg)

- 3					(0,
	Bore size (mm)	20	25	32	40
Basic weight	Basic style	0.25	0.32	0.39	0.67
	Axial foot style	0.40	0.48	0.55	0.94
	Flange style	0.31	0.41	0.48	0.79
	Single clevis style	0.29	0.36	0.43	0.76
	Double clevis style	0.30	0.38	0.44	0.80
	Trunnion style	0.29	0.39	0.45	0.77
Additional weight per each 50 mm of stroke		0.05	0.07	0.09	0.14
Option	Single knuckle joint	0.06	0.06	0.06	0.23
bracket	Double knuckle joint (With pin)	0.07	0.07	0.07	0.20

Calculation: (Example) CVM5L32-100-11G

- Basic weight ----- 0.55 (kg) (Axial foot ø32)
- Additional weight ····· 0.09/50 (kg/50 st)
- Cylinder stroke 100 (st) $0.55 + 0.09 \times 100 \div 50 = 0.73 \text{ kg}$

Mounting Style and Accessory

(For details about accessory brackets, refer to Best Pneumatics Vol. 6.)

Accessory	Sta	ındard equipm	Option		
Mounting	Mounting nut	Rod end nut	Clevis pin	Single knuckle joint	Double knuckle joint
Basic style	● (1 pc.)	•	_	•	•
Axial foot style	• (2)	•	_	•	•
Rod side flange style	● (1)	•	_	•	•
Head side flange style	● (1)	•	_	•	•
Single clevis style	(1)	•	-	•	•
Double clevis style (3)	(1)	•	•	•	•
Head side trunnion style	● (1) ⁽²⁾	•	_	•	•
Rod side trunnion style	● (1) ⁽²⁾	•	_	•	•

Note 1) Mounting nut is not equipped with single clevis style and double clevis style.

Note 2) Trunnion nuts are equipped for head side trunnion and rod side trunnion.

Note 3) Pin and set ring are shipped together with double clevis and double knuckle joint.

Mounting Bracket Part No.

Bore size (mm)	20	25	32	40		
Axial foot*	CM-L020B	CM-L032B		CM-L032B CM-L		CM-L040B
Flange	CM-F020B	CM-F032B		CM-F032B CM-F040		CM-F040B
Single clevis	CM-C020B	CM-C	CM-C032B			
Double clevis**	ouble clevis** CM-D020B CM-D032B		CM-D040B			
Trunnion (With nut)	CM-T020B	CM-T032B		CM-T040B		

- Two foot brackets and a mounting nut are attached. When ordering the foot bracket, order 2 pcs. per cylinder.
- * Clevis pin and snap ring (cotter pin for ø40) are packaged together.

Be sure to read before handling. For [Safety Instructions and Actuator] Precautions, refer to pages 10-24-3 to 10-24-6.

Mounting

1. Do not rotate the cover.

If a cover is rotated when installing a cylinder or screwing a fitting into the port, it is likely to damage the junction part with cover.

∕ Caution

1. Not able to disassemble.

Cover and cylinder tube are connected to each other by caulking method, thus making it impossible to disassemble. Therefore, internal parts of a cylinder other than rod seal are not replaceable.

2. Use caution to the popping of a snap ring. When replacing rod seals and removing and mounting a snap ring, use a proper tool (snap ring plier: tool for installing type C snap ring). Even if a proper tool is used, it is likely to inflict damage to a human body or peripheral equipment, as a snap ring may be flown out of the tip of a plier. Be much careful with the popping of a snap ring. Besides, be certain that a snap ring is placed firmly into the groove of rod cover before supplying air at the time of installment

3. Do not touch the cylinder during operation. Use caution when handling a cylinder, which is running at a high speed and a high frequency, because the surface of a cylinder tube could get so hot enough as to cause you aet burns.

4. Do not use an air cylinder as an airhydro cylinder.

If it uses turbine oil in place of fluids for cylinder, it may result in oil leakage.

5. Conjoin the rod end part, so that rod boot might not be twisted.

If a rod boot is installed with being twisted when installing a cylinder, it will cause a rod boot to fail during operation.

Auto Switch Mounting Bracket Part No.

Bore (mm)	20	25	32	40
D-C7□/C80 D-H7□	BM2-020	BM2-025	BM2-032	BM2-040
D-B5□/B64 D-G5NTL	BA2-020	BA2-025	BA2-032	BA2-040



Built-in One-touch Fitting

CVM5 Mounting style Bore size F— For "How to Order", refer to page 10-15-16.

Built-in One-touch fitting

One-touch fittings are installed on cylinders.



Application/Tubing O.D.

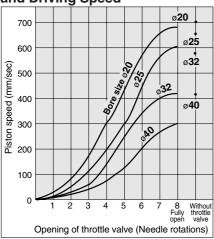
Bore size (mm)	20	25	32	40
Applicable tubing O.D. (mm)	ø6/4	ø6/4	ø6/4	ø6/4
Applicable tubing material		sed for eitl or polyuret		

Specifications

Action	D	ouble actin	g, Single ro	d
Bore size (mm)		20, 25,	32, 40	
Maximum operating pressure		0.7	ИРа	
Minimum operating pressure		0.15	MPa	
Cushion		Rubber	bumper	
Piping	Е	Built-in One-	touch fitting	
Piston speed	ø20	ø25	ø32	ø40
(mm/s)	50 to 700	50 to 650	50 to 590	50 to 420
Mounting	Head si	de flange styl clevis style, R	/le, Rod side le, Single clev od side trunn runnion style	is style,

For the dimensions of mounting bracket, refer to pages 10-15-22 to 25.

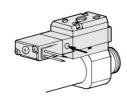
Opening Range of Throttle Valve and Driving Speed



Measuring conditions: Operating pressure 0.5 MPa Mounting: horizontal Load: no load on the return side The speeds indicated above are for reference.

Manual Operation

Manual operation is possible by pushing the manual button indicated with the arrow.



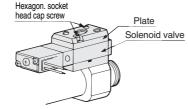
Piston Speed Adjustment

- To slow down the piston speed, screw in the needle of the silencer type exhaust throttle valve clockwise, which reduces the amount of air that is discharged.
- To adjust the piston extension side, regulate the "R1" side silencer type exhaust throttle
 - To adjust the retraction side, regulate the "R2" side silencer exhaust throttle valve.
- The needle valve of the throttle valve can be fully opened by loosening it 8 turns from the fully closed position.
- The needle valve has a loosening prevention construction

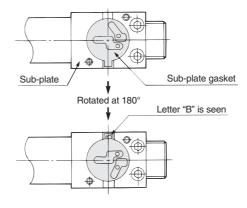
Changing between Rod Extended when Energized and Rod Retracted when Energized

Step [This procedure is for changing the rod extended when energized to the rod retracted when energized.]

 Using a tool, loosen the two hexagon socket bolts, and remove the plate and the solenoid valve. At this time, instead of removing the plate and the solenoid valve separately, remove them together, with the hexagon socket bolts remaining inserted.

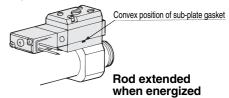


2. A sub-plate gasket is inside the sub-plate. Invert this sub-plate gasket 180° and install it with its letter "B" visible. (A portion that protrudes is provided on the periphery of the sub-plate gasket, and the letter "B" is on one side of this protrusion.)

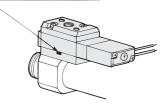


 Install the solenoid valve and the plate, and tighten the hexagon socket bolts with a tool. The tightening torque is between 0.6 and 0.8 N·m.

After tightening, press the manual button on the solenoid valve, check for any air leaks, and verify the operating conditions. Distinction between rod extended when energized and rod retracted when energized can be determined from the outside, by looking through the small window in the subplate.



Convex position of sub-plate gasket



Rod retracted when energized

RE A

REC

C□X C□Y

MO∂

MQ_M

RHC

MK(2)

RS^Q_G

RS# RZQ

MI s

CEP1

CE1

ML2B

C_a5-S

CV

MVGQ

CC

RB

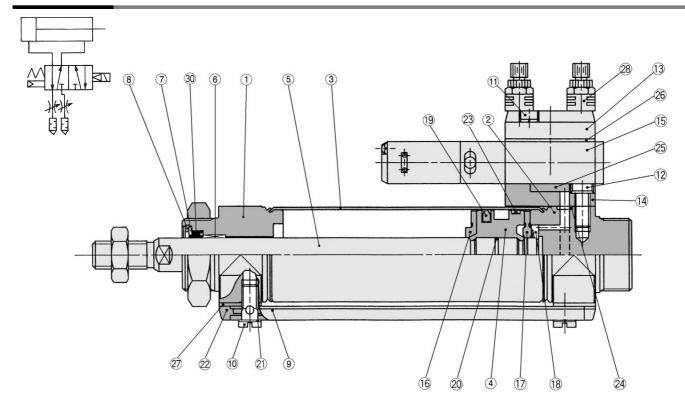
J

D-

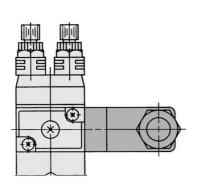
-X 20-

Series CVM5

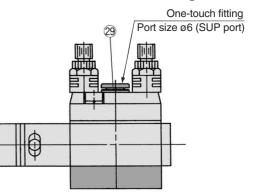
Construction



DIN terminal



Built-in One-touch fitting



Component Parts

No.	Description	Material	Note
1	Rod cover	Aluminum alloy	Clear anodized
2	Head cover	Aluminum alloy	Clear anodized
3	Cylinder tube	Stainless steel	
4	Piston	Aluminum alloy	Chromated
(5)	Piston rod	Carbon steel	Hard chrome plated
6	Bushing	Oil-impregnated sintered alloy	
7	Seal retainer	Rolled steel	Nickel plated
8	Snap ring	Carbon tool steel	Nickel plated
9	Pipe	Aluminum alloy	Clear anodized
10	Stud	Brass	Electroless nickel plated
11)	Hex. socket head cap screw with spring washer	Stainless steel	M3 x 28ℓ
12	Hex. socket head cap screw with spring washer	Stainless steel	M3 x 10ℓ
13	Plate	Aluminum alloy	Metallic painted
14)	Sub-plate	Aluminum alloy	Metallic painted
15)	Solenoid valve	_	Refer to the "How to order" below.*
16	Bumper A	Urethane	
17)	Bumper B	Urethane	

^{*} How to order solenoid valves Electrical entry VZ3 90- Voltage

No.	Description	Material	Note
18	Snap ring	Stainless steel	
19	Piston seal	NBR	
20	Piston gasket	NBR	
21)	Gasket	Resin	
22	Pipe gasket	Urethane rubber	
23	Wear ring	Resin	
24)	Head cover gasket	NBR	
25	Sub-plate gasket	NBR	
26	Gasket	NBR	
27)	Spacer gasket	Resin	Not for ø25
28	Exhaust throttle with silencer	_	ASN2-M5
29	One-touch fitting	_	Port size: Ø6

Replacement Parts

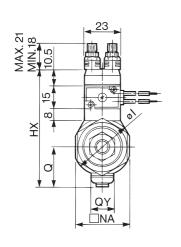
No.	Description	Material		Par	t no.	
INO.	Description	ivialeriai	20	25	32	40
30	Rod seal	NBR	PDU-8Z	PDU-10Z	PDU-12LZ	PDU-14LZ

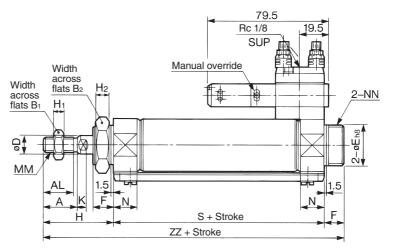


Valve Mounted Cylinder Double Acting, Single Rod Series CVM5

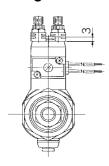
Basic Style (B)

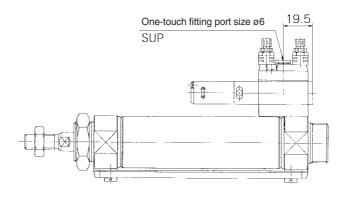
CVM5B Bore size - Stroke



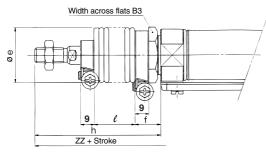


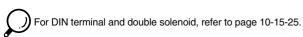
Built-in One-touch fitting





With rod boot





Bore size (mm)	Stroke range	Α	AL	B₁	B ₂	D	Eh₃	F	Q	QY	Н	H₁	H ₂	нх	ı	K	MM	N	NA	NN	S	ZZ
20	Up to 300	18	15.5	13	26	8	20-0.033	13	19.8	14	41	5	8	65.3	28	5	M8 x 1.25	15	24	M20 x 1.5	62	116
25	Up to 300	22	19.5	17	32	10	26-0.033	13	22	14	45	6	8	70.5	33.5	5.5	M10 x 1.25	15	30	M26 x 1.5	62	120
32	Up to 300	22	19.5	17	32	12	26-0.033	13	25.8	16	45	6	8	76.5	37.5	5.5	M10 x 1.25	15	34.5	M26 x 1.5	64	122
40	Up to 300	24	21	22	41	14	32-0.039	16	29.8	16	50	8	10	84.5	46.5	7	M14 x 1.5	21.5	42.5	M32 x 2	88	154

With Rod Boot

With Hou	D00																
Bore size (mm	Вз						h							l			
Bore Size (ITIII)	D3	е		1 to 50	51 to 100	101 to 150	151 to 200	201 to 300	301 to 400	401 to 500	1 to 50	51 to 100	101 to 150	151 to 200	201 to 300	301 to 400	401 to 500
20	30	36	17	68	81	93	106	131	156	_	12.5	25	37.5	50	75	100	_
25	32	36	17	72	85	97	110	135	160	185	12.5	25	37.5	50	75	100	125
32	32	36	17	72	85	97	110	135	160	185	12.5	25	37.5	50	75	100	125
40	41	46	19	77	90	102	115	140	165	190	12.5	25	37.5	50	75	100	125

^{*} Long stroke type includes ones for strokes more than 301 mm.

RE^AB

REC

C□X C□Y

MQ Q

RHC

MK(2)

WIT(Z)

RS^Q_G

RS^H_A

RZQ

MI w CEP1

CE1

CE2

ML2B

C_GJ5-S

CV

MVGQ

CC

RB

J

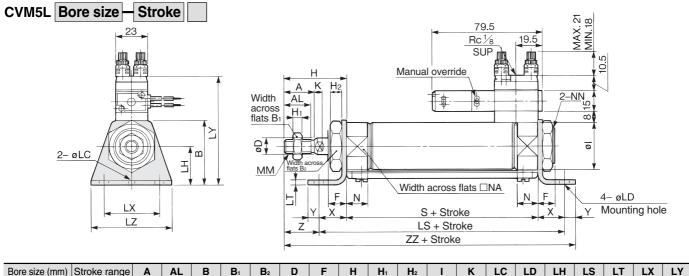
D-

-X

20-

Series CVM5

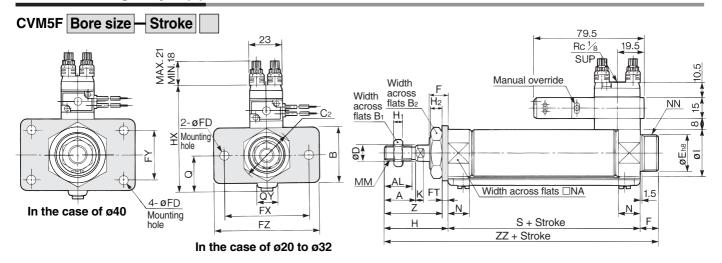
Axial Foot Style (L)



Bore size (mm)	Stroke range	Α	AL	В	B ₁	B ₂	D	F	Н	H₁	H ₂	ı	K	LC	LD	LH	LS	LT	LX	LY
20	Up to 300	18	15.5	40	13	26	8	13	41	5	8	28	5	4	6.8	25	102	3.2	40	70.5
25	Up to 300	22	19.5	47	17	32	10	13	45	6	8	33.5	5.5	4	6.8	28	102	3.2	40	76.5
32	Up to 300	22	19.5	47	17	32	12	13	45	6	8	37.5	5.5	4	6.8	28	104	3.2	40	78.8
40	Up to 300	24	21	54	22	41	14	16	50	8	10	46.5	7	4	7	30	134	3.2	55	84.8

Bore size (mm)	LZ	ММ	N	NA	NN	S	Х	Υ	Z	ZZ
20	55	M8 x 1.25	15	24	M20 x 1.5	62	20	8	21	131
25	55	M10 x 1.25	15	30	M26 x 1.5	62	20	8	25	135
32	55	M10 x 1.25	15	34.5	M26 x 1.5	64	20	8	25	137
40	75	M14 x 1.5	21.5	42.5	M32 x 2	88	23	10	27	171

Rod Side Flange Style (F)

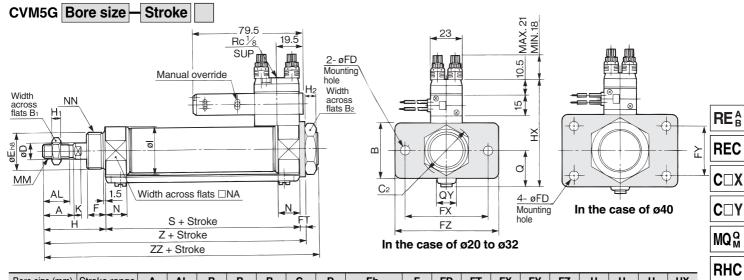


Bore size (mm)	Stroke range	Α	AL	В	B ₁	B ₂	C ₂	D	Eh₃	F	FD	FT	FX	FY	FZ	Н	H₁	H ₂	НХ
20	Up to 300	18	15.5	34	13	26	30	8	20 -0.033	13	7	4	60	_	75	41	5	8	65.3
25	Up to 300	22	19.5	40	17	32	37	10	26 -0.033	13	7	4	60	_	75	45	6	8	70.5
32	Up to 300	22	19.5	40	17	32	37	12	26 -0.033	13	7	4	60	_	75	45	6	8	76.5
40	Up to 300	24	21	52	22	41	47.3	14	32 0 0 0 0 0	16	7	5	66	36	82	50	8	10	84.5

20 28 5 M8 x 1.25 15 24 M20 x 1.5 19.8 14 62 37 116 25 33.5 5.5 M10 x 1.25 15 30 M26 x 1.5 22 14 62 41 120 32 37.5 5.5 M10 x 1.25 15 34.5 M26 x 1.5 25.8 16 64 41 122 40 46.5 7 M14 x 1.5 21.5 42.5 M32 x 2 29.8 16 88 45 154	Bore size (mm)	ı	K	MM	N	NA	NN	Q	QY	S	Z	ZZ
32 37.5 5.5 M10 x 1.25 15 34.5 M26 x 1.5 25.8 16 64 41 122	20	28	5	M8 x 1.25	15	24	M20 x 1.5	19.8	14	62	37	116
	25	33.5	5.5	M10 x 1.25	15	30	M26 x 1.5	22	14	62	41	120
40 46.5 7 M14 x 1.5 21.5 42.5 M32 x 2 29.8 16 88 45 154	32	37.5	5.5	M10 x 1.25	15	34.5	M26 x 1.5	25.8	16	64	41	122
10 1010 / MITTA NO 2110 1210 MISE X 2 2010 10 00 10 101	40	46.5	7	M14 x 1.5	21.5	42.5	M32 x 2	29.8	16	88	45	154

Valve Mounted Cylinder Double Acting, Single Rod Series CVM5

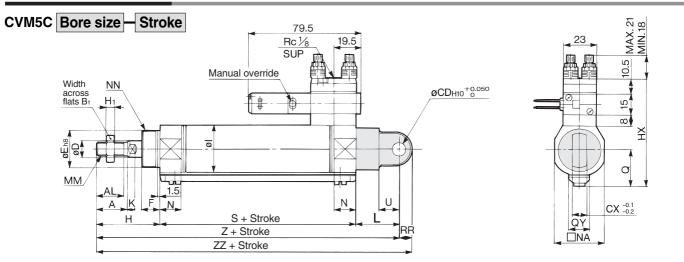
Head Side Flange Style (G)



Bore size (mm)	Stroke range	Α	AL	В	B ₁	B ₂	C ₂	D	Eh₃	F	FD	FT	FX	FY	FZ	Н	H₁	H ₂	нх
20	Up to 300	18	15.5	34	13	26	30	8	20 0 0 0 0	13	7	4	60	_	75	41	5	8	65.3
25	Up to 300	22	19.5	40	17	32	37	10	26 -0.033	13	7	4	60	_	75	45	6	8	70.5
32	Up to 300	22	19.5	40	17	32	37	12	26 -0.033	13	7	4	60	_	75	45	6	8	76.5
40	Up to 300	24	21	52	22	41	47.3	14	32 -0.039	16	7	5	66	36	82	50	8	10	84.5

Bore size (mm)	- 1	K	ММ	N	NA	NN	Q	QY	S	Z	ZZ
20	28	5	M8 x 1.25	15	24	M20 x 1.5	19.8	14	62	107	116
25	33.5	5.5	M10 x 1.25	15	30	M26 x 1.5	22	14	62	111	120
32	37.5	5.5	M10 x 1.25	15	34.5	M26 x 1.5	25.8	16	64	113	122
40	46.5	7	M14 x 1.5	21.5	42.5	M32 x 2	29.8	16	88	143	154

Single Clevis Style (C)



Bore size (mm)	Stroke range	Α	AL	B₁	CD	СХ	D	Eh₃	F	Н	H₁	ı	нх	K	L	ММ	N	NA
20	Up to 300	18	15.5	13	9	10	8	20 -0.033	13	41	5	28	65.3	5	30	M8 x 1.25	15	24
25	Up to 300	22	19.5	17	9	10	10	26 0 -0.033	13	45	6	33.5	70.5	5.5	30	M10 x 1.25	15	30
32	Up to 300	22	19.5	17	9	10	12	26 -0.033	13	45	6	37.5	76.5	5.5	30	M10 x 1.25	15	34.5
40	Up to 300	24	21	22	10	15	14	32 -0.039	16	50	8	46.5	84.5	7	39	M14 x 1.5	21.5	42.5

Bore size (mm)	NN	Q	QY	RR	S	U	Z	ZZ
20	M20 x 1.5	19.8	14	9	62	14	133	142
25	M26 x 1.5	22	14	9	62	14	137	146
32	M26 x 1.5	25.8	16	9	64	14	139	148
40	M32 x 2	29.8	16	11	88	18	177	188

SMC

10-15-23

MK(2)

RS^Q_G

RS# RZQ

MI®

CEP1

CE2 ML2B

C_GJ5-S

CV MVGQ

CC

RB

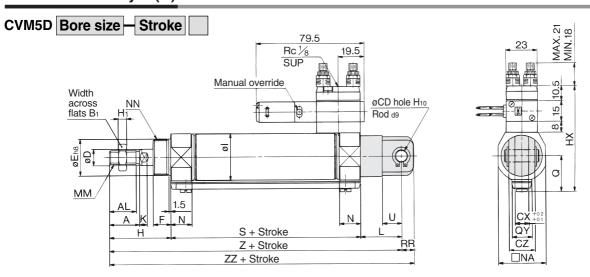
D-

J

-X 20-

Series CVM5

Double Clevis Style (D)

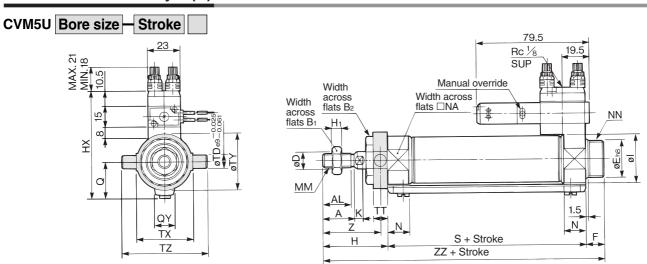


Bore size (mm)	Stroke range	Α	AL	B ₁	CD	СХ	CZ	D	Eh₃	F	Н	H₁	нх	ı	K	L	MM	N	NA
20	Up to 300	18	15.5	13	9	10	19	8	20 0 0 0 0	13	41	5	65.3	28	5	30	M8 x 1.25	15	24
25	Up to 300	22	19.5	17	9	10	19	10	26 -0.033	13	45	6	70.5	33.5	5.5	30	M10 x 1.25	15	30
32	Up to 300	22	19.5	17	9	10	19	12	26 -0.033	13	45	6	76.5	37.5	5.5	30	M10 x 1.25	15	34.5
40	Up to 300	24	21	22	10	15	30	14	32 0 0 0	16	50	8	84.5	46.5	7	39	M14 x 1.5	21.5	42.5

	Bore size (mm)	NN	Q	QY	RR	S	U	Z	ZZ
	20	M20 x 1.5	19.8	14	9	62	14	133	142
Ī	25	M26 x 1.5	22	14	9	62	14	137	146
	32	M26 x 1.5	25.8	16	9	64	14	139	148
Ī	40	M32 x 2	29.8	16	11	88	18	177	188

* Clevis pin and snap ring (cotter pin for ø40) are packaged together.

Rod Side Trunnion Style (U)



Bore size (mm)	Stroke range	Α	AL	B₁	B ₂	D	Eh₃	F	Н	H₁	НХ	ı	K	ММ	N	NA	NN	Q
20	Up to 300	18	15.5	13	26	8	20 -0.033	13	41	5	65.3	28	5	M8 x 1.25	15	24	M20 x 1.5	19.8
25	Up to 300	22	19.5	17	32	10	26 -0.033	13	45	6	70.5	33.5	5.5	M10 x 1.25	15	30	M26 x 1.5	22
32	Up to 300	22	19.5	17	32	12	26 -0.033	13	45	6	76.5	37.5	5.5	M10 x 1.25	15	34.5	M26 x 1.5	25.8
40	Up to 300	24	21	22	41	14	32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	16	50	8	84.5	46.5	7	M14 x 1.5	21.5	42.5	M32 x 2	29.8

Bore size (mm)	QY	S	TD	TT	TX	TY	TZ	Z	ZZ
20	14	62	8	10	32	32	52	36	116
25	14	62	9	10	40	40	60	40	120
32	16	64	9	10	40	40	60	40	122
40	16	88	10	11	53	53	77	44.5	154