



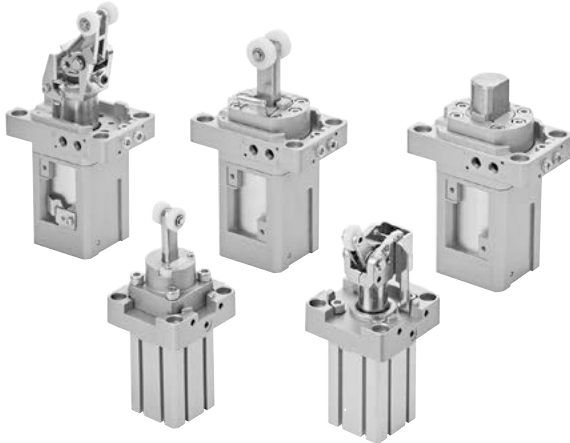
Functions



Technical data



Caution for safety  
(Read before installing)



### Specification

Model	MSB*				
Tube I.D. (mm)	20	32	40	50	63,80
Port size	M5×0.8	Rc1/8		Rc1/4	
Medium	Air				
Operating pressure range	0.2~1 MPa				
Proof pressure	1.5 MPa				
Ambient temperature	-5~+60°C (No freezing)				
Lubrication	Not required				
Cushion	With rubber cushion pad				
Sensor switch	RCB , RCE , RCE1 , RDEP , RCA for ø50				
Sensor switch holder	HS (for RCA)				

### Order example

**MSBD – 32 – 20 – (L – K – L) – G – V – 4E2 – AC110**

SHOCK ABSORBERS GRADE		
<b>L</b>	Light	Red
<b>M</b>	Standard	Yellow
<b>H</b>	Powerful	Green

Only for ø50

MODEL

Type of cylinder	Operation type	Standard stroke	Magnet	Sensor switch	Weight
<b>MSBD</b>	Shockless stopper (Double acting with spring)	ø32-20	○	RCE, RCE1, RDEP	740 g
		ø50-30	○	RCA	1800 g
		ø63-30	○	RCB, RCE, RCE1, RDEP	3680 g
		ø80-40	○	RCA	6820 g

\* MVSC1-150 specification

**MSBR – 40 – 30 – G**

TUBE I.D. STROKE

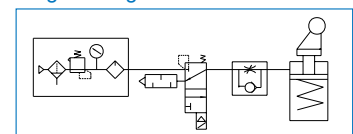
PORT THREAD  
Blank: M5×0.8 (for ø20)  
Blank: Rc thread  
**G**: G thread  
**NPT**: NPT thread (for ø32~ø50)

MODEL

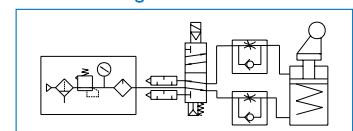
Type of cylinder	Operation type	Standard stroke	Magnet	Sensor switch	Weight
<b>MSBR</b>	Stopper with roller (Double acting)	ø20-20	○	RCB	250 g
	Stopper with roller (Single acting-Spring extended)	ø32-20	○	RCE, RCE1, RDEP	740 g
		ø40-30	×	–	1400 g
		ø50-30	×	–	1800 g
<b>MSBS</b>	Direct stopper (Double acting)	ø20-10	○	RCB	192 g
		ø32-20	○	RCE, RCE1, RDEP	720 g
		ø50-30	○	RCA	1850 g

### Piping diagram

Single acting

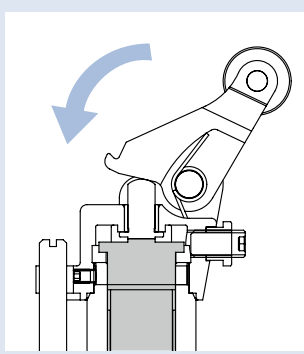


Double acting



### Pallet control stopper type

#### Shock absorber built-in



Absorbs the shock when the carried object stops, and stops the object softly on the right Position. There is an adapter between the lever and shock absorber, which straightens the inclined load on the lever and transmits it to the lever.

#### Lever lock mechanism

With this optional feature, the carried object is not pushed back by the lever. Also the Object returns to the right position after being lifted up. The lock is released by supplying air and lowering the rod.

#### Stopper mechanism

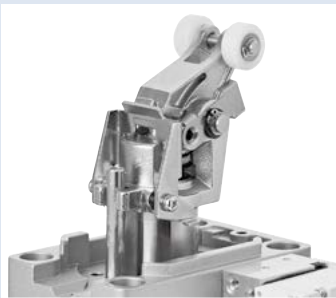
Guide bar equipped for fixing the direction of the roller lever.

#### Light aluminum

Main cylinder part, shock absorber, and roller lever are integrated in the aluminum die cast body. The best cylinder for the light and space-saving conveyor line.

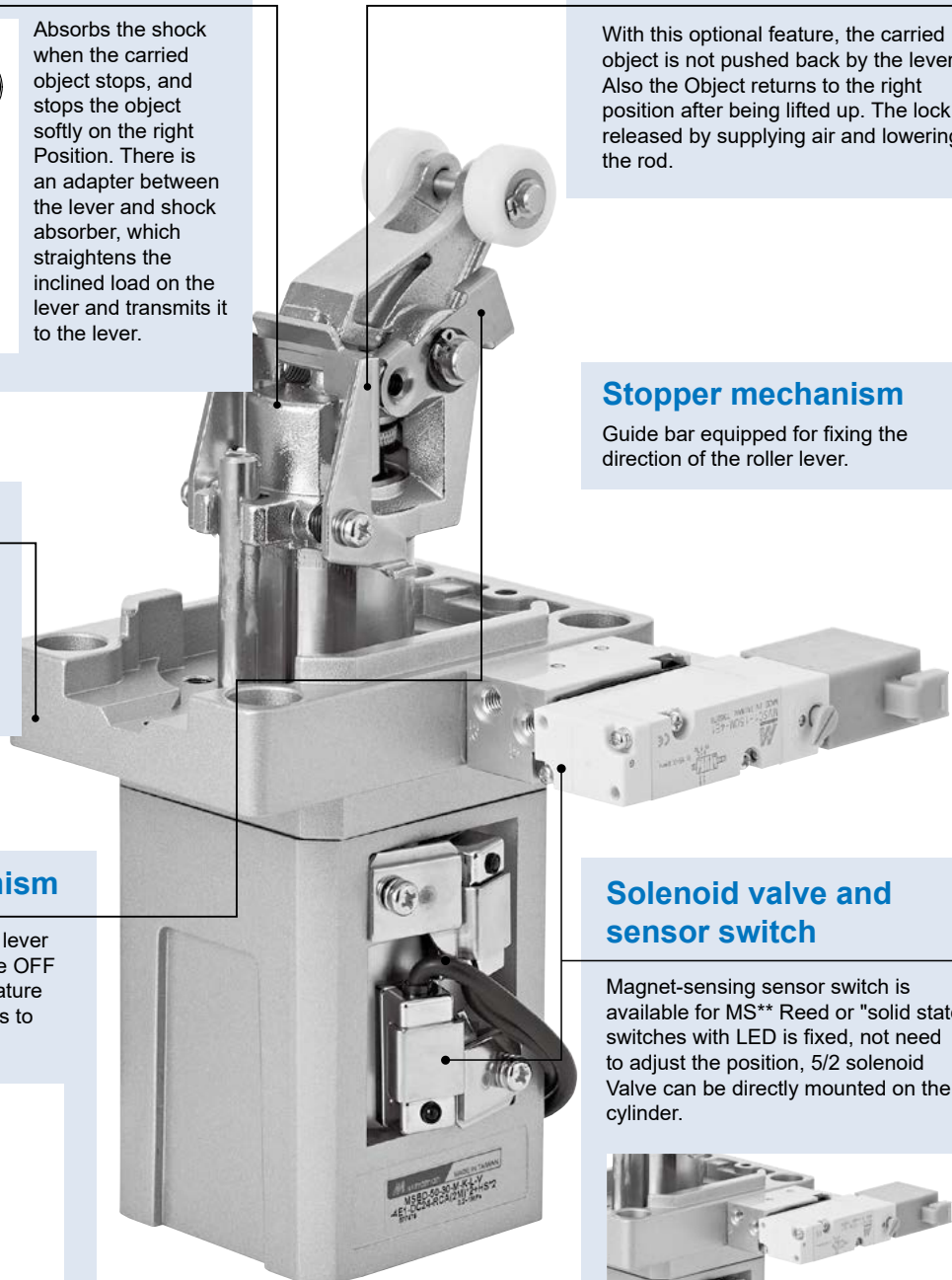
#### Free pass mechanism

Setting the pass-plate on the lever holder, the lever is fixed in the OFF position. Use the optional feature when the carried object needs to pass over the cylinder.



#### Solenoid valve and sensor switch

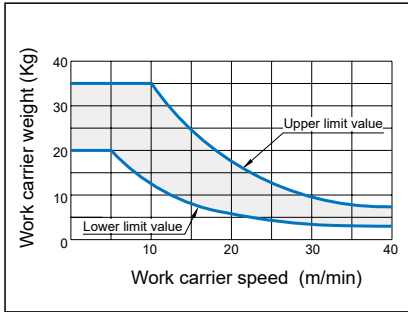
Magnet-sensing sensor switch is available for MS\*\* Reed or "solid state" switches with LED is fixed, not need to adjust the position, 5/2 solenoid Valve can be directly mounted on the cylinder.



## STOPPER CYLINDER

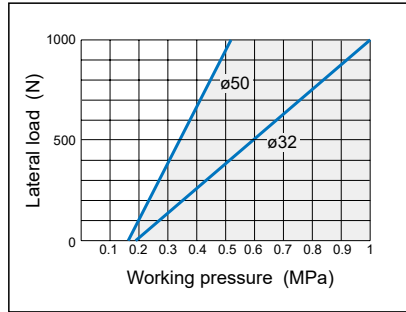
### MSBD $\phi 32-20$

#### Capacity



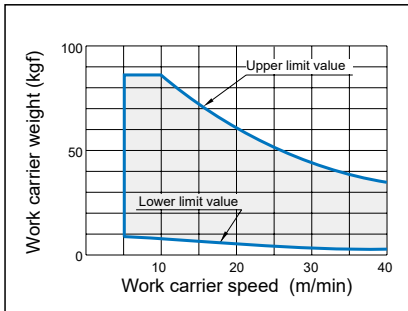
### MSBD $\phi 32-20, \phi 50-30$

#### Normal lateral load

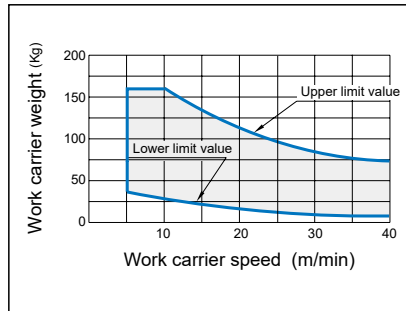


### MSBD $\phi 50-30$

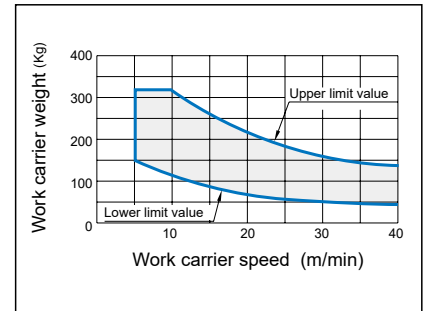
#### Capacity Light weight type



#### Capacity Standard type

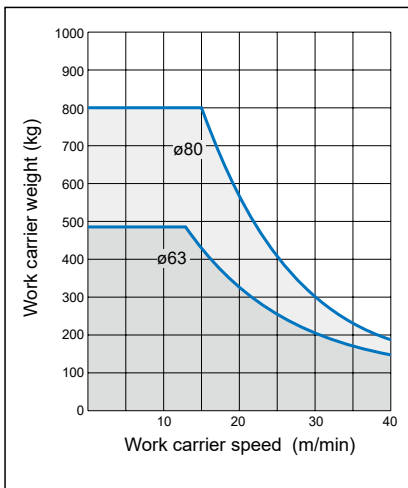


#### Capacity Heavy duty type

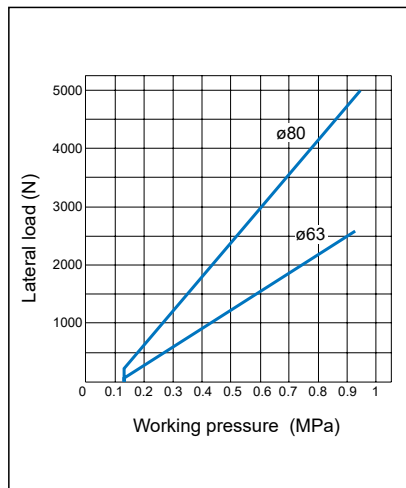


### MSBD $\phi 63-30, \phi 80-40$

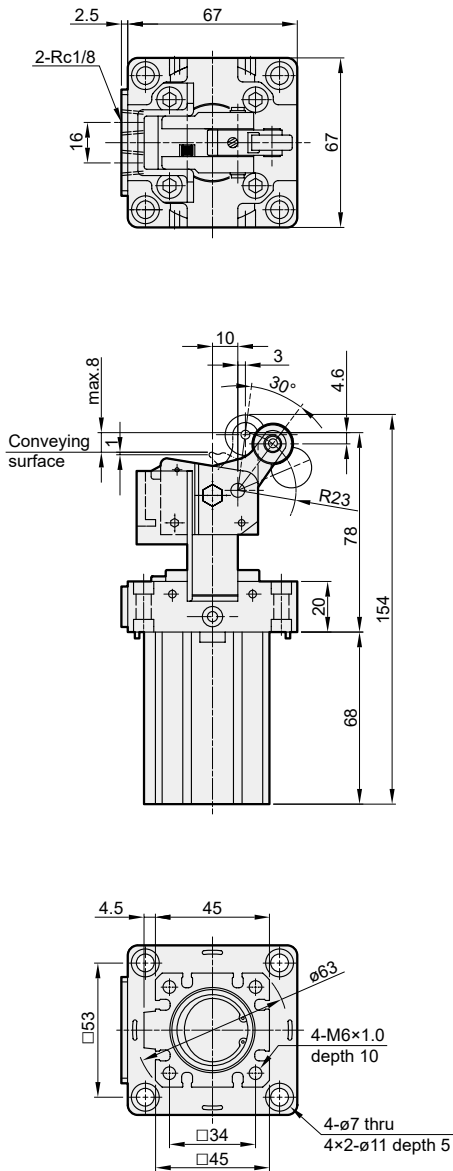
#### Capacity



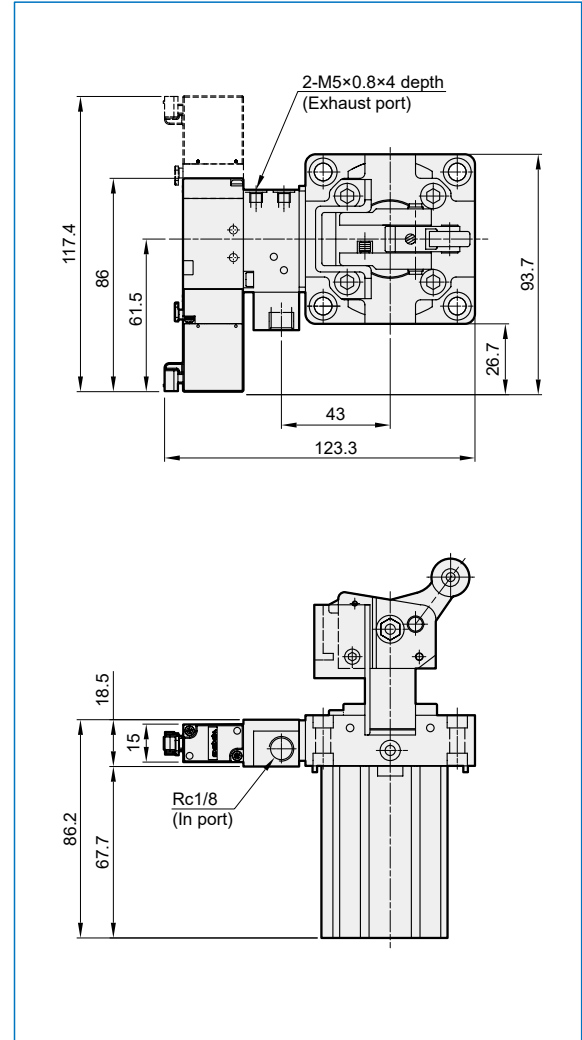
#### Normal lateral load



### MSBD $\phi 32-20$



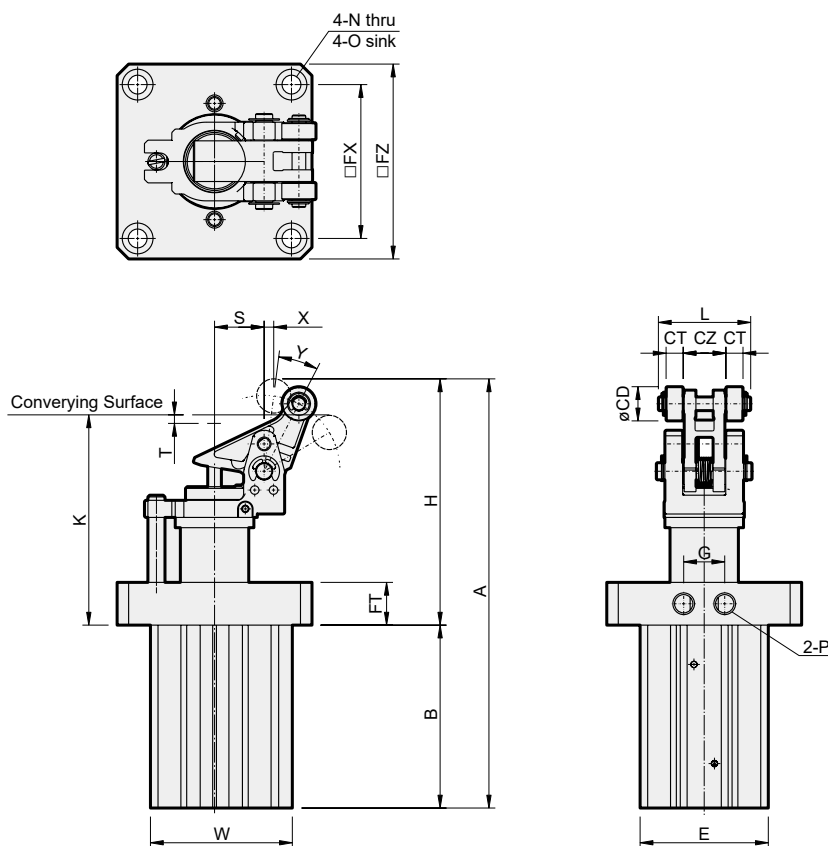
### MSBD $\phi 32-20-V$





## STOPPER CYLINDER

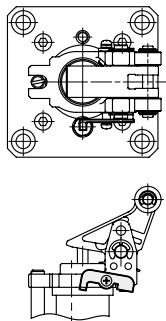
MSBD  $\varnothing 63-30$   
MSBD  $\varnothing 80-40$



### Option accessories

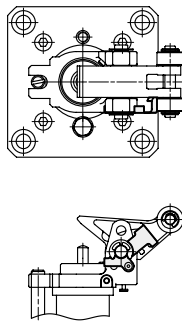
MSBD- $\varnothing 63-30-K$   
MSBD- $\varnothing 80-40-K$

Lever lock mechanism



MSBD- $\varnothing 63-30-L$   
MSBD- $\varnothing 80-40-L$

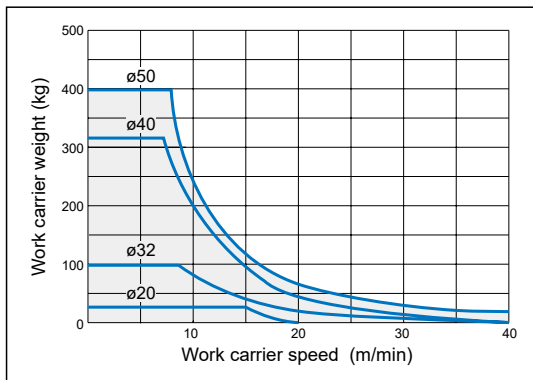
Free pass mechanism



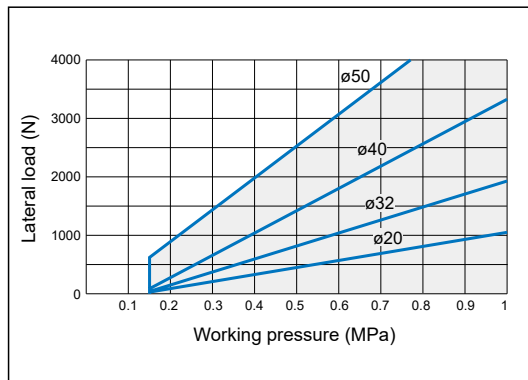
Tube I.D.	Stroke	A	B	CD	CT	CZ	E	FT	FX	FZ	G	H	K	L	N	O	P	S	T	W	X	Y
63	30	251	107	20	10	25	75	25	90	114	24	144	123	54	$\varnothing 11$	$\varnothing 18 \times 6$ depth	Rc1/4	29	5	83	6	20°
80	40	322.5	145	25	12	30	94	25	110	140	24	177.5	150	63	$\varnothing 13$	$\varnothing 20 \times 6$ depth	Rc1/4	36	4	102	8	22°

**STOPPER CYLINDER**

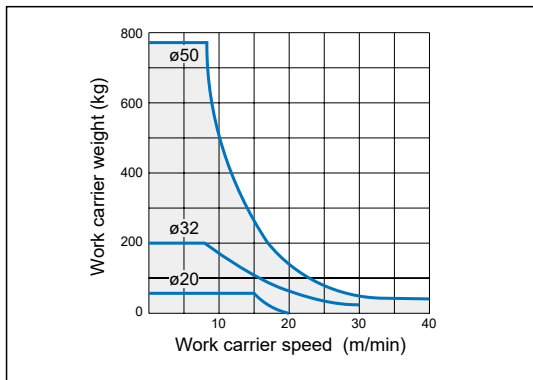
**MSBR**  
Capacity



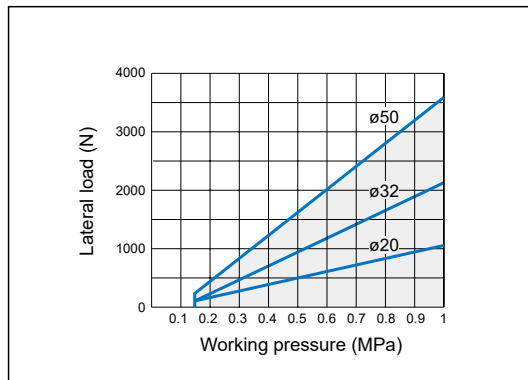
**MSBR**  
Normal lateral load



**MSBS**  
Capacity

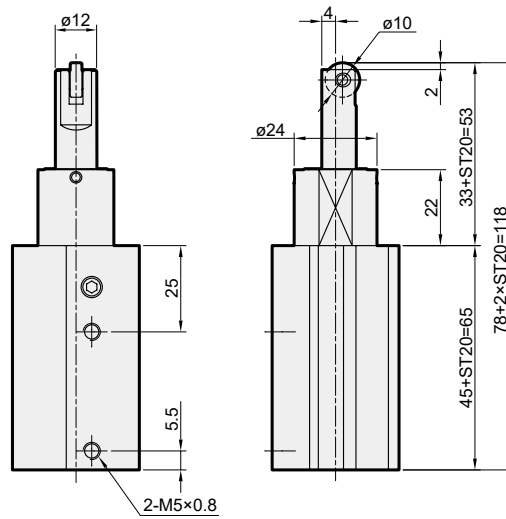
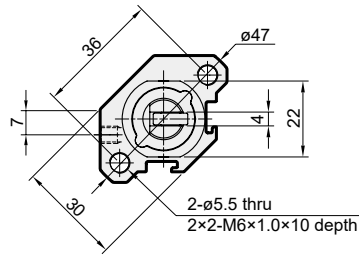


**MSBS**  
Normal lateral load

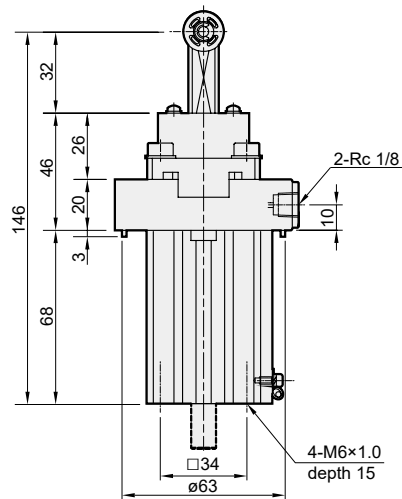
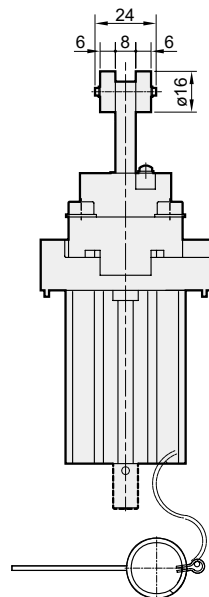
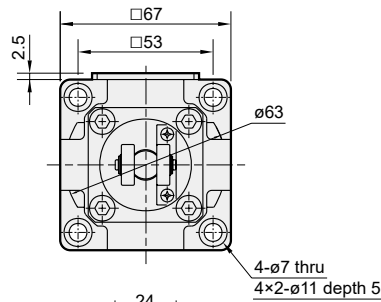


## STOPPER CYLINDER

### MSBR $\phi 20-20$



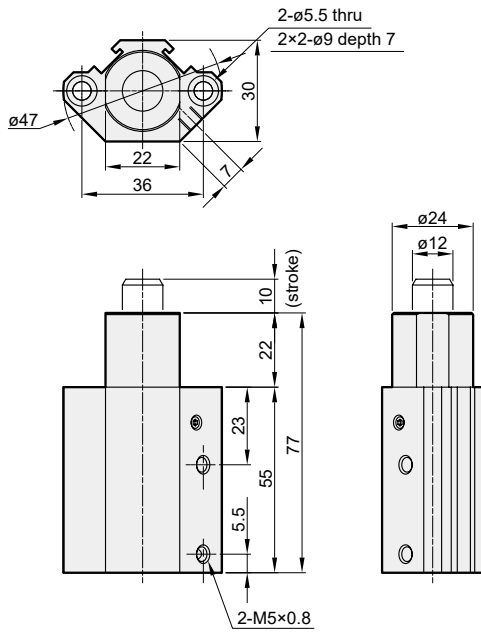
### MSBR $\phi 32-20$



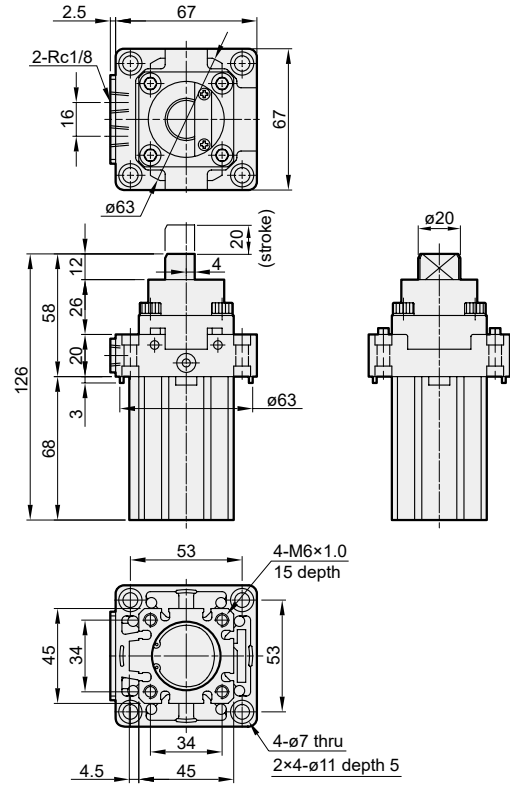


## STOPPER CYLINDER

### MSBS $\phi 20-10$



### MSBS $\phi 32-20$



### MSBS $\phi 50-30$

