



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

TUBE I.D.
(mm)

STROKE
(mm)

FREE
PASS

LEVER LOCK
MECHANISM

SOLENOID VALVE
LINK SEATS
for **MVSC1-150** valve (*)
(Only for MSBD-ø32, ø50)

VOLTAGE
AC220V(50/60)Hz
AC110V(50/60)Hz
DC24V

SHOCK ABSORBERS GRADE

	Light	Red	Only for ø50
L			
M	Standard	Yellow	
H	Powerful	Green	

PORT THREAD
Blank: Rc thread
G: G thread
NPT: NPT thread

4E1: 4way / Single solenoid
4E2: 4way / Double solenoid

MODEL

Type of cylinder	Operation type	Standard stroke	Magnet	Sensor switch	Weight
MSBD 	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	○		6820 g

* MVSC1-150 specification 

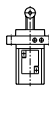
MSBR — 40 — 30 — G

TUBE I.D.

STROKE

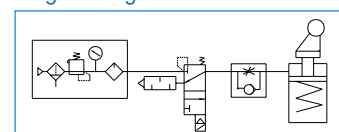
PORT THREAD
Blank: M5×0.8
(for ø20)
Blank: Rc thread
G: G thread
NPT: NPT thread
(for ø32~ø50)

MODEL

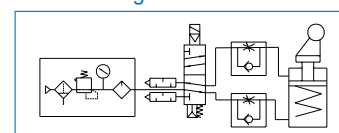
Type of cylinder	Operation type	Standard stroke	Magnet	Sensor switch	Weight
MSBR 	Stopper with roller (Double acting)	ø20-20	○	RCB	250 g
	Stopper with roller (Single acting-Spring extended)	ø32-20	○	RCE, RCE1, RDEP	740 g
		ø40-30	×	—	1400 g
		ø50-30	×	—	1800 g
MSBS 	Direct stopper (Double acting)	ø20-10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

Piping diagram

Single acting

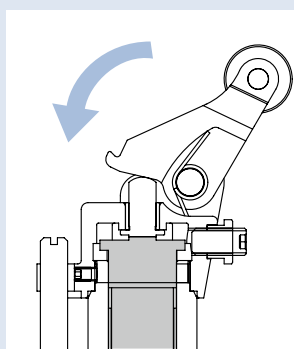


Double acting



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.



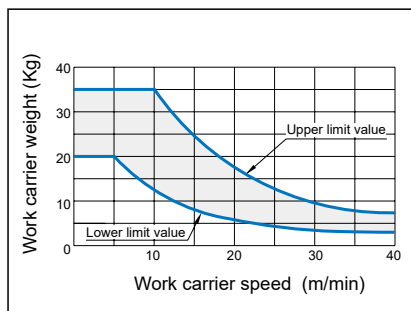
Solenoid valve and sensor switch

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.



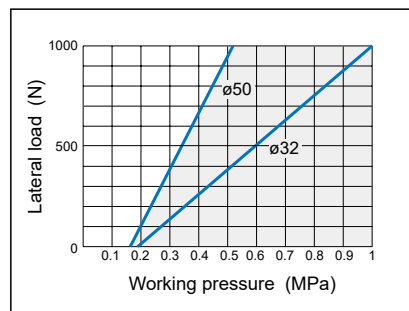
MSBD $\phi 32-20$

Capacity



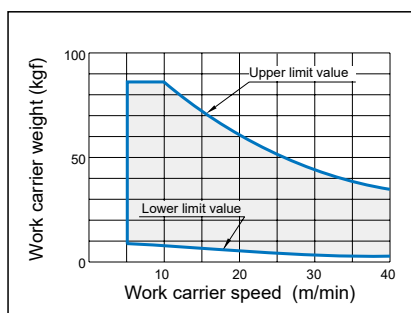
MSBD $\phi 32-20, \phi 50-30$

Normal lateral load

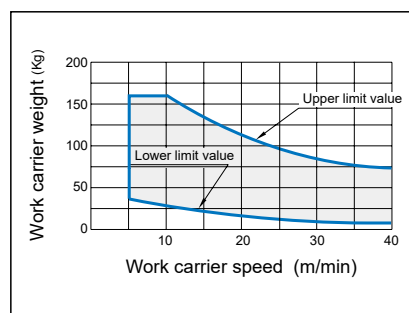


MSBD $\phi 50-30$

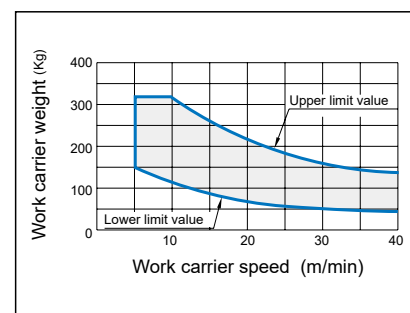
Capacity Light weight type



Capacity Standard type

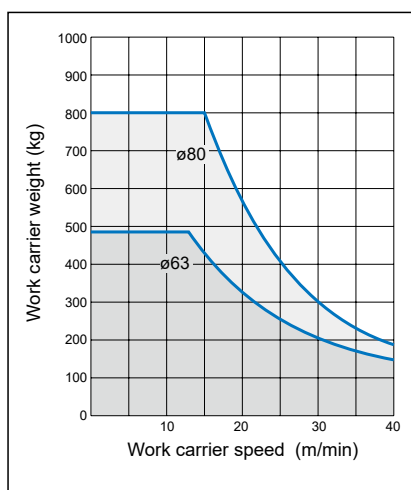


Capacity Heavy duty type

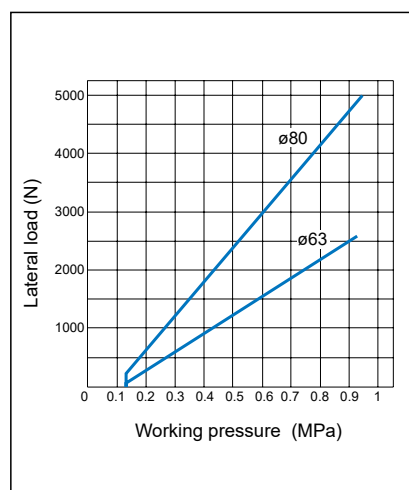


MSBD $\phi 63-30, \phi 80-40$

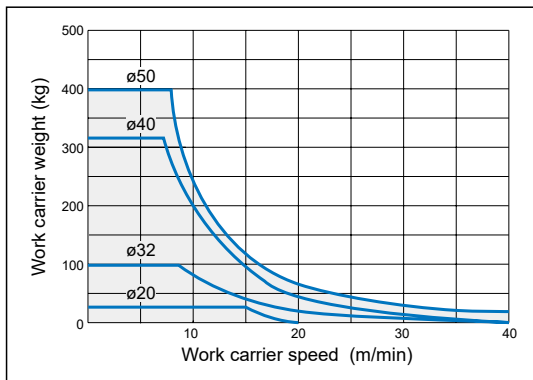
Capacity



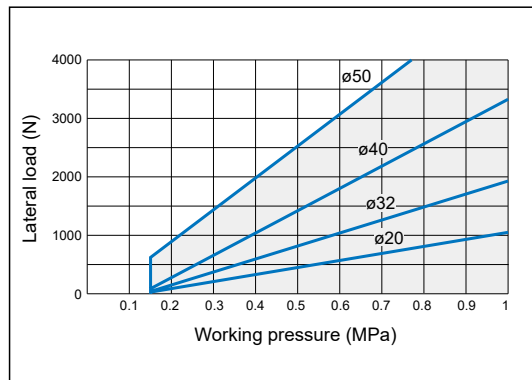
Normal lateral load



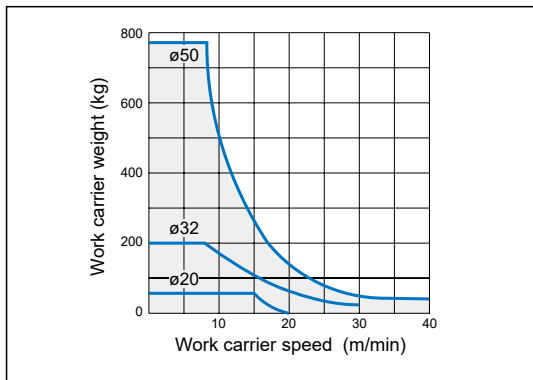
MSBR Capacity



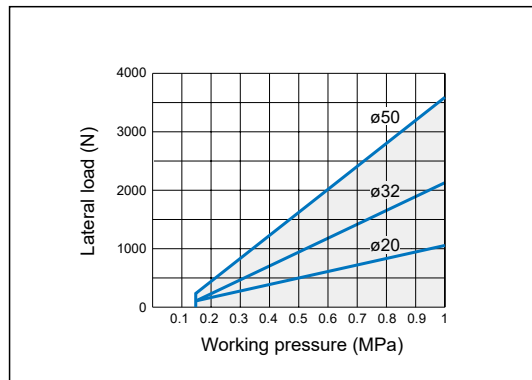
MSBR Normal lateral load



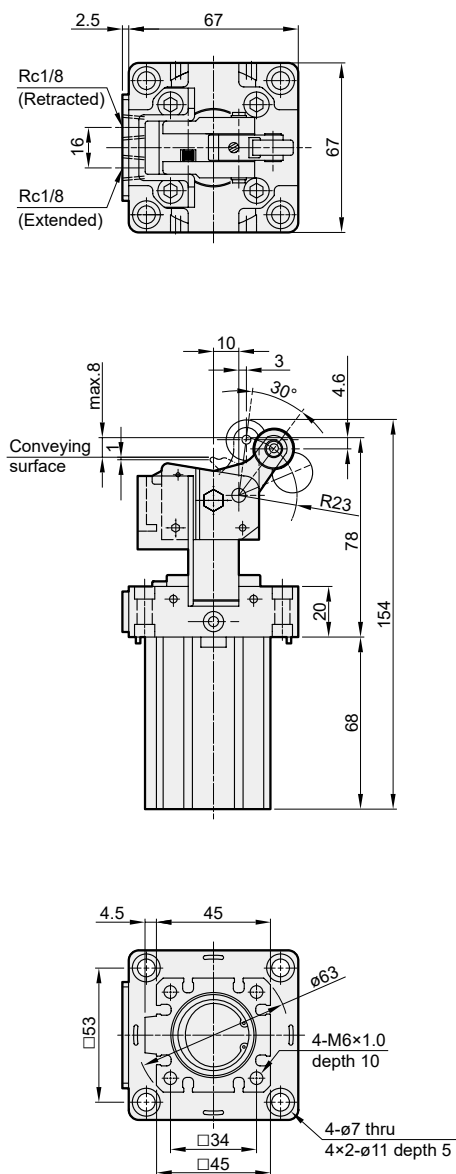
MSBS Capacity



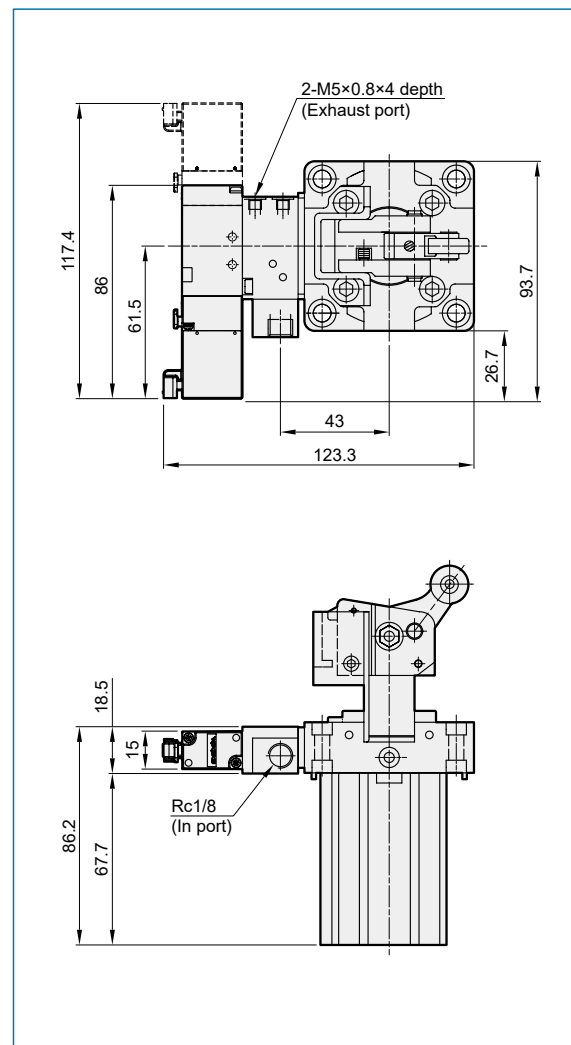
MSBS Normal lateral load



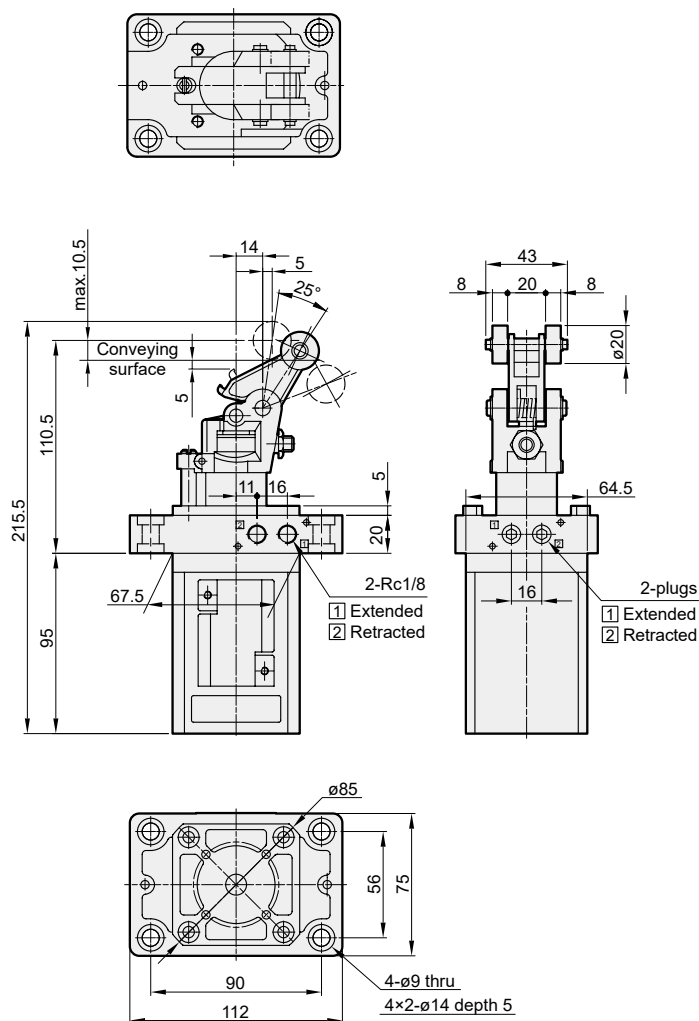
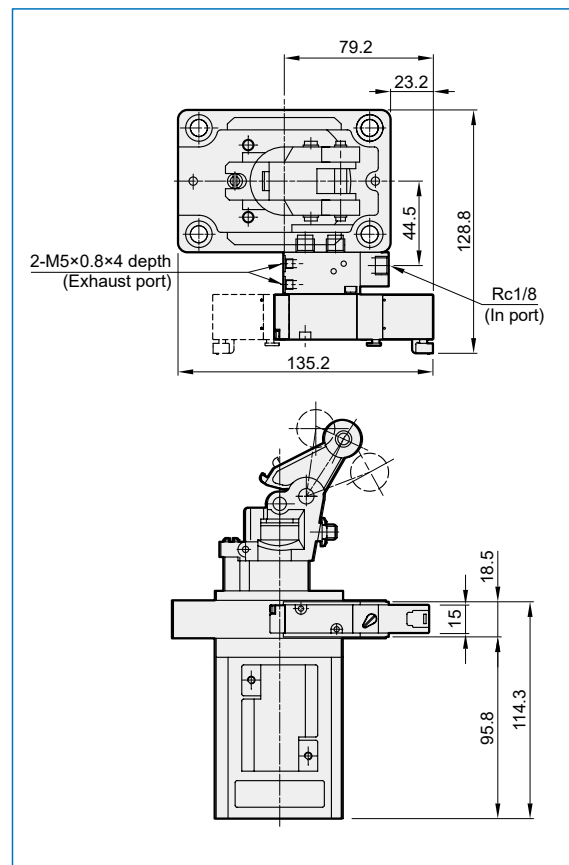
MSBD $\phi 32-20$



MSBD $\phi 32-20-V$



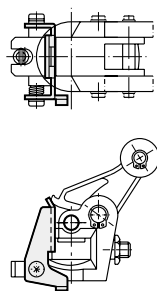
MSBD ø50-30

**MSBD ø50-30-V**

Option accessories

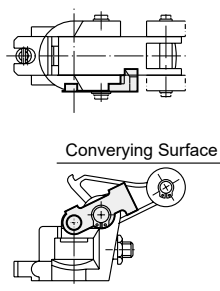
MSBD-ø50×30-K

Lever lock mechanism



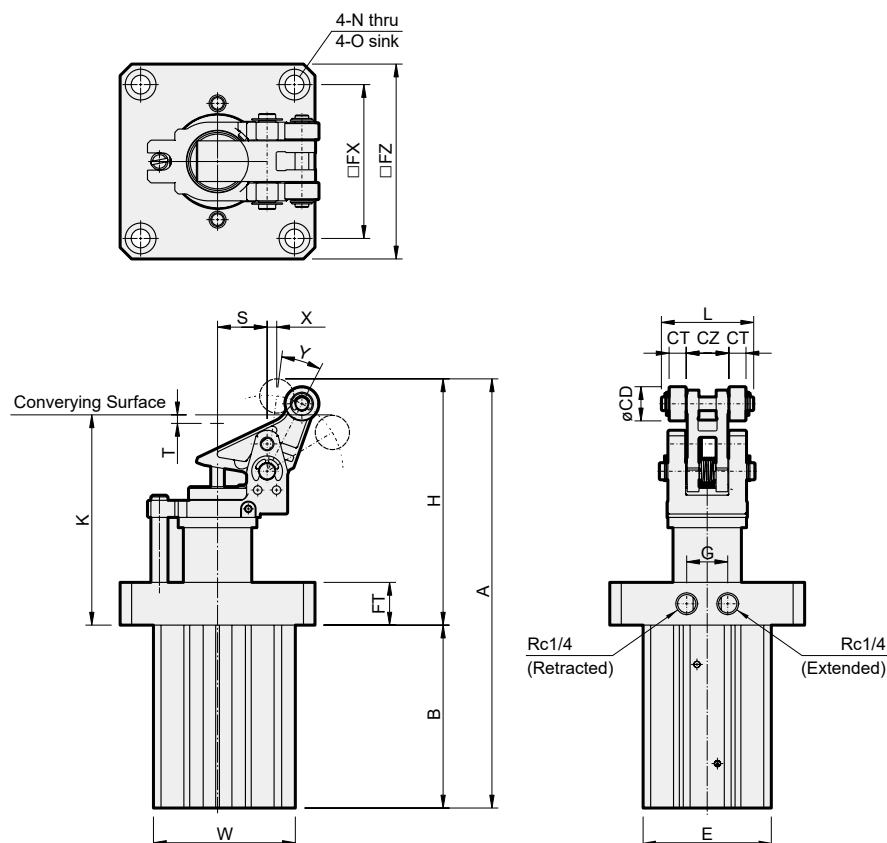
MSBD-ø50×30-L

Free pass mechanism



MSBD $\varnothing 63$ -30

MSBD $\varnothing 80$ -40

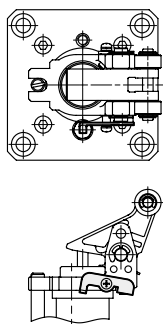


Option accessories

MSBD- $\varnothing 63$ -30-K

MSBD- $\varnothing 80$ -40-K

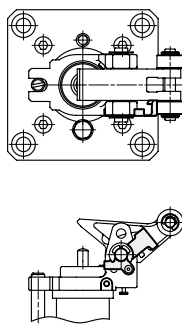
Lever lock mechanism



MSBD- $\varnothing 63$ -30-L

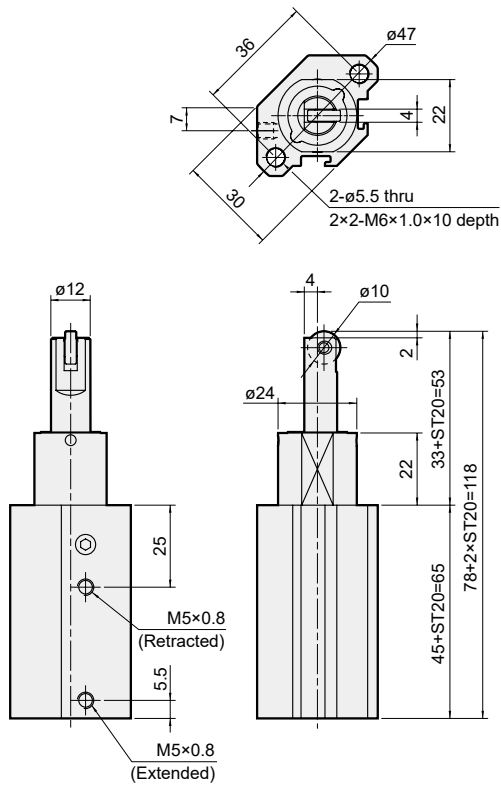
MSBD- $\varnothing 80$ -40-L

Free pass mechanism

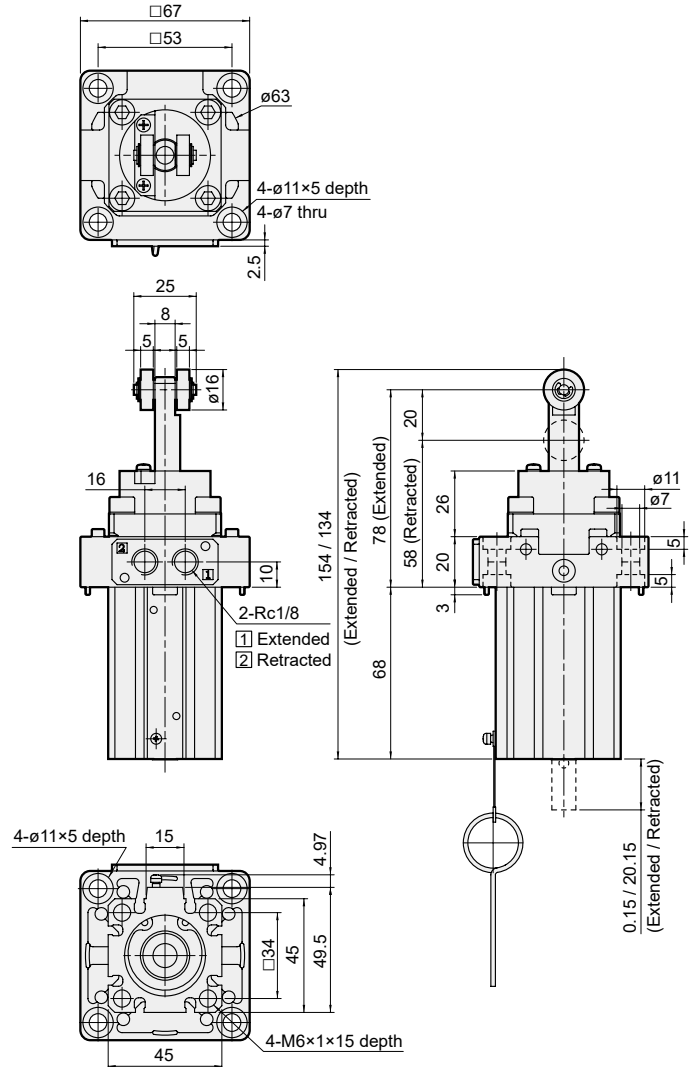


Tube I.D.	Stroke	A	B	CD	CT	CZ	E	FT	FX	FZ	G	H	K	L	N	O	S	T	W	X	Y
63	30	251	107	20	10	25	75	25	90	114	24	144	123	54	$\varnothing 11$	$\varnothing 18 \times 6$ depth	29	5	83	6	20°
80	40	322.5	145	25	12	30	94	25	110	140	24	177.5	150	63	$\varnothing 13$	$\varnothing 20 \times 6$ depth	36	4	102	8	22°

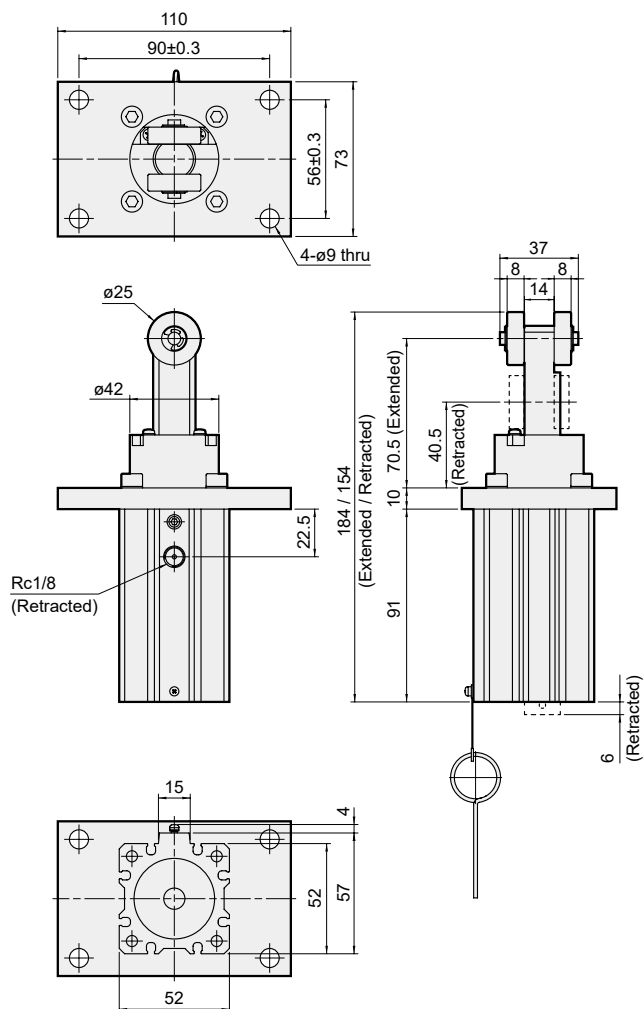
MSBR $\varnothing 20$ -20



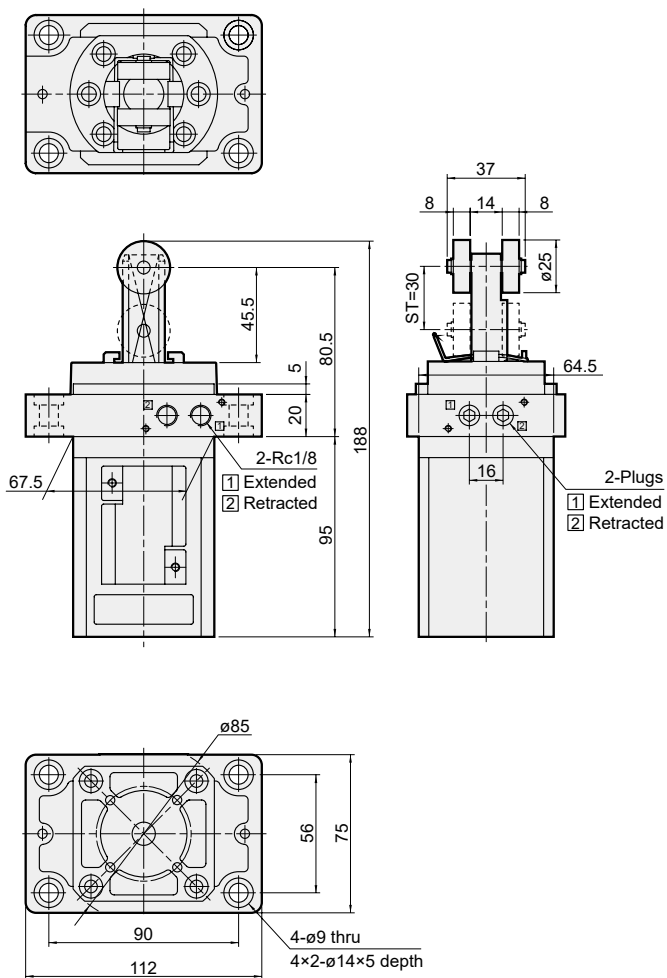
MSBR $\varnothing 32$ -20



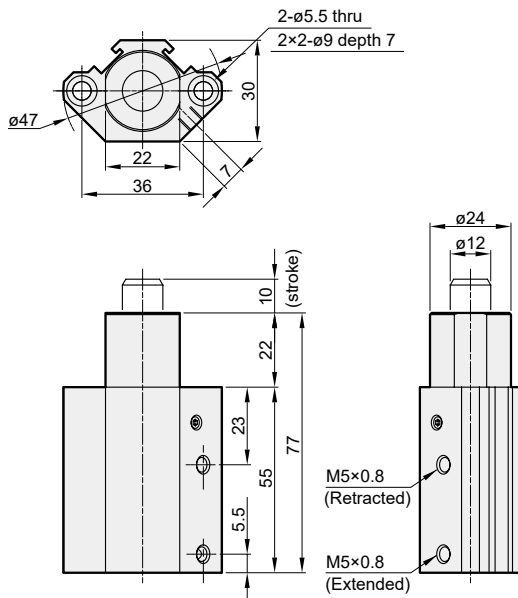
MSBR $\varnothing 40$ -30



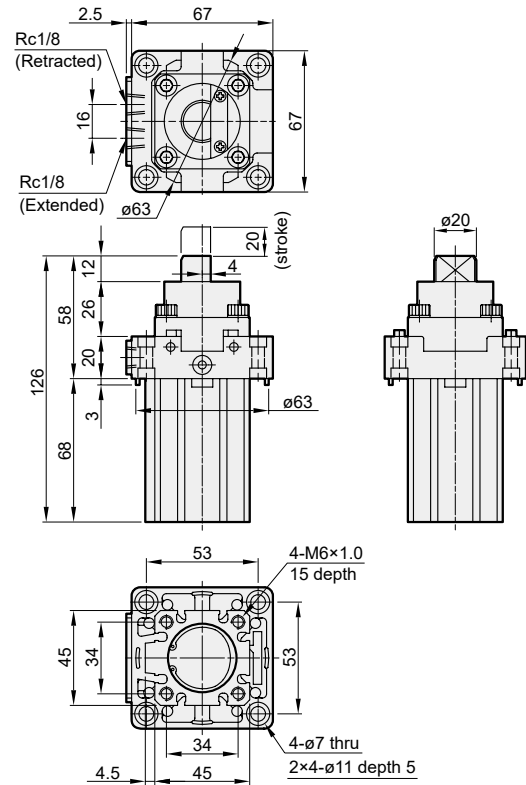
MSBR $\varnothing 50$ -30



MSBS $\phi 20-10$



MSBS $\phi 32-20$



MSBS $\phi 50-30$

