

## Features:

Body machined from extruded aluminum that mounts directly to equipment for rigidity, ensure mounting in a min. of sapce.

The direction of rollers are adjustable for different applications.

Cushions by shock absorbers are available to serve as safety stops.

Reed switches can be mounted on cylinder's body as input signals to controllers.

Multi styles for options to meet different requirements.



## Specifications:

<b>Action</b>	Double acting with magnetic Piston, Double acting with built-in spring		
<b>Series</b>	ME		
<b>Bore size</b>	32	40	50
<b>Operating fluid</b>	Compressed air		
<b>Max operating pressure</b>	1.0MPa (10.2kgf/cm <sup>2</sup> )		
<b>Proof pressure</b>	1.5MPa (15kgf/cm <sup>2</sup> )		
<b>Piston speed</b>	50~100 mm/sec		
<b>Temperature range</b>	-10°C~+70°C		
<b>Lubrication</b>	Not required		
<b>Cushion</b>	PU bumpers at both ends		
<b>Overall stroke tolerance</b>	+1.4 0		
<b>Reed switch</b>	TA-22		

## Weight Table:

Acting type	Bore	Rod end styles	Stroke (mm)				
			10	15	20	25	30
Single acting Double acting Double acting with built-in spring	ø32	Round bar, Anti-rotary, Roller	0.42	0.44	0.46	-	-
		Lever	0.51	0.53	0.55	-	-
	ø40	Round bar, Anti-rotary, Roller	-	-	0.74	0.80	0.86
		Lever	-	-	0.97	1.01	1.05
	ø50	Round bar, Anti-rotary, Roller	-	-	1.03	1.07	1.11
		Lever	-	-	1.26	1.30	1.34

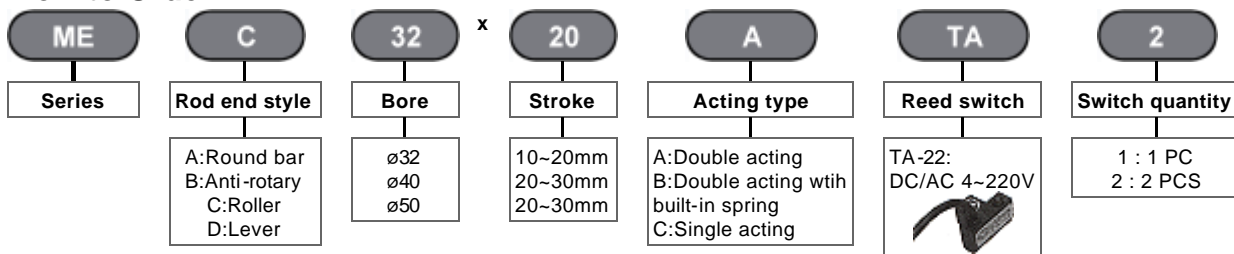
## Standard Stroke Table:

Bore\Stroke	10	15	20	25	30
ø32					
ø40					
ø50					

Standard type

Special type

## How to Order:



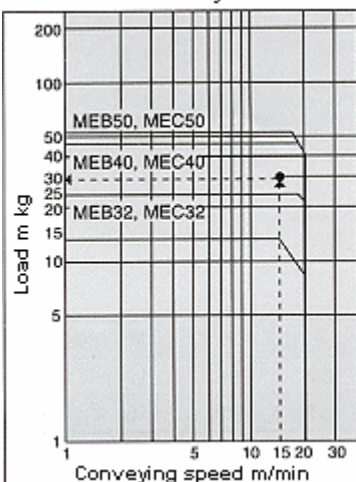
## Selection Guide:

(Ex.): Conveying speed 15m/min, Load 30Kg, using roller type.

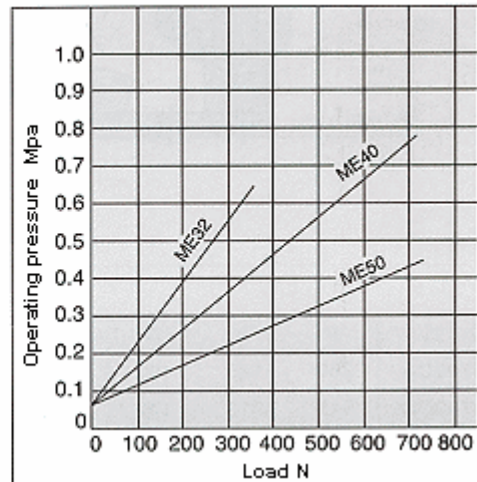
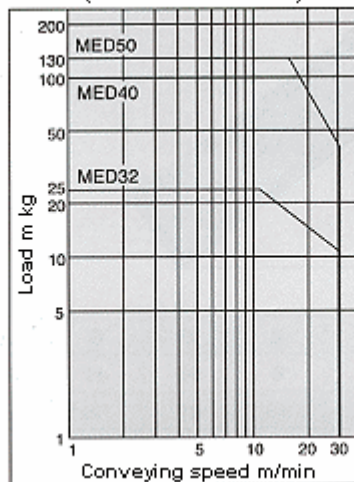
[Sol]: Locate the intersection of the conveying speed and load in the chart, choose the nearest type - MEC40 is suitable for this case.

Sizing adequate unit, based on moving load given to piston rod and operating pressure applied, see below

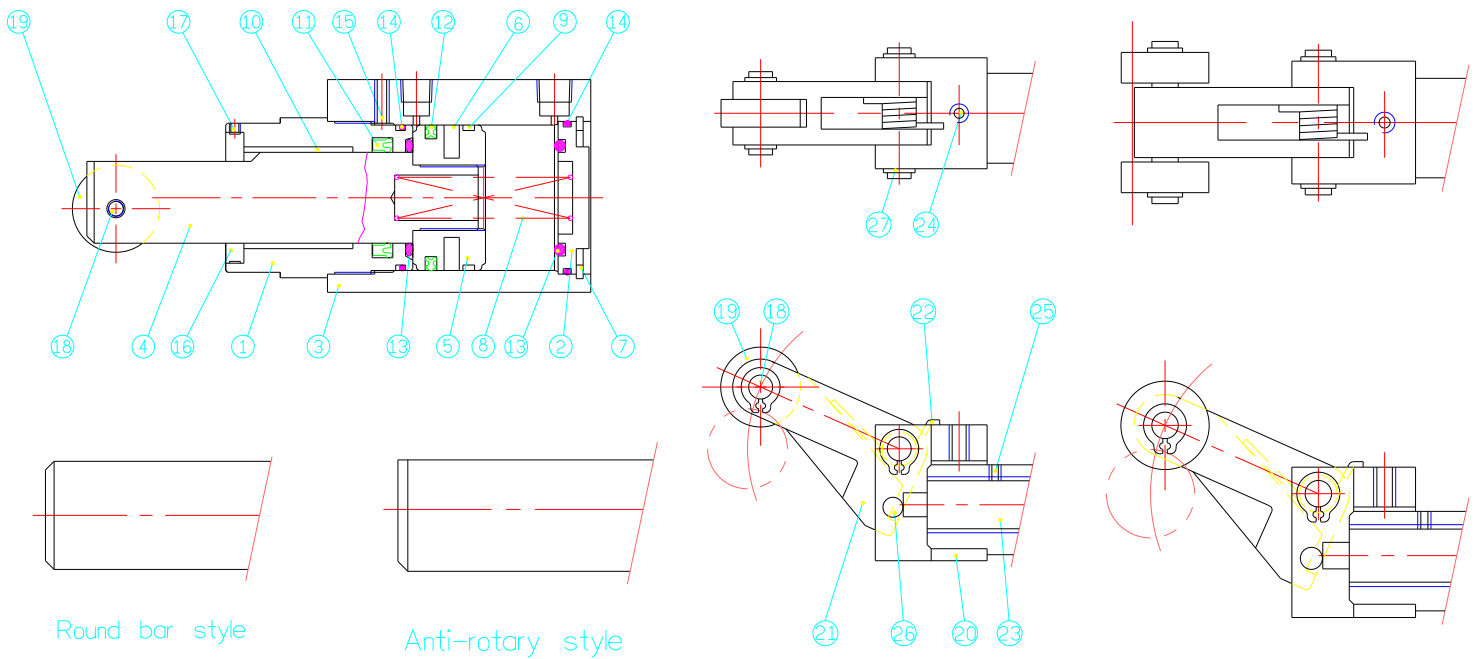
Round bar / Anti-rotary / Roller



Lever (with shock absorber)



## Internal Constructions:



## Parts List:

No.	Description	Material	Qty
1	Front end cover	Anodized aluminium alloy	1
2	Rear end cover	Anodized aluminium alloy	1
3	Housing	Anodized aluminium alloy	1
4	Piston rod	Hard chrome plated carbon steel	1
5	Piston	Aluminium alloy	1
6	Magnet	Resinous magnet	1
7	Spring	Carbon steel	1
8	Snap ring	Carbon steel	1
9	Wear ring	Piano wire	1
10	Bush	Oil filled, sintered bronze	1
11	Seal	NBR	1
12	Seal	NBR	1
13	O-Ring	NBR	2
14	O-Ring	NBR	1

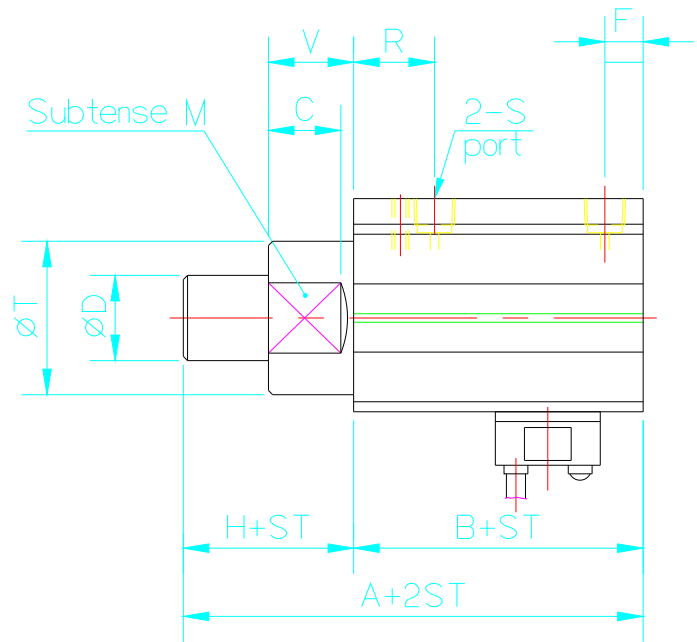
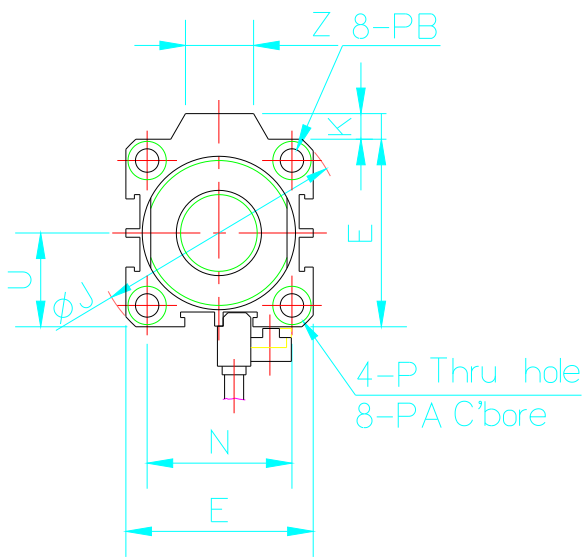
No.	Description	Material	Qty
15	Set screw	Carbon steel	1
16	Anti-rotating plate	POM	1
17	Set screw	Carbon steel	2
18	Pin	Hardened steel alloy	2
19	Roller	POM	1
20	Connector	Cast iron	1
21	Driven block	Carbon steel	1
22	Spring	Piano wire	1
23	Shock absorber	-	1
24	Set screw	Carbon steel	2
25	Set screw	Carbon steel	1
26	Steel ball	Carbon steel	1
27	Snap ring	Carbon steel	4

## Seals List:

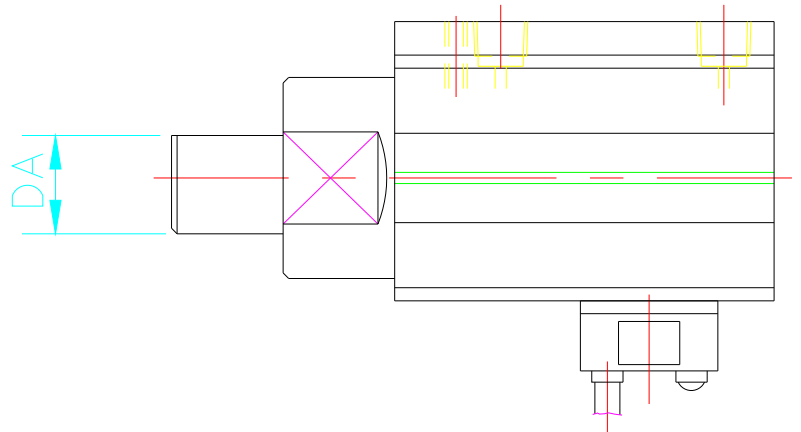
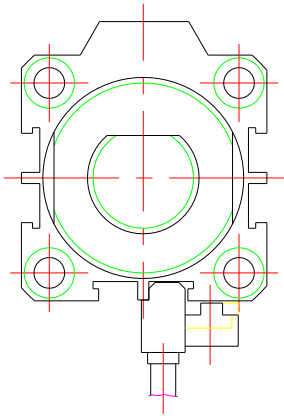
Description	Material	Double acting, Double acting with built-in spring		
		ø32	ø40	ø50
11 Piston rod seal	NBR	DYR20	UHS25	Y2525
12 Piston seal	NBR	PZ32	PZ40	PZ50
13 Cushion seal	NBR	P20	P25	P25
14 Cover seal	NBR	SM28	SM36	SM46

## External Dimensions:

### • Round bar style (MEA)



### • Anti-rotation style (MEB)

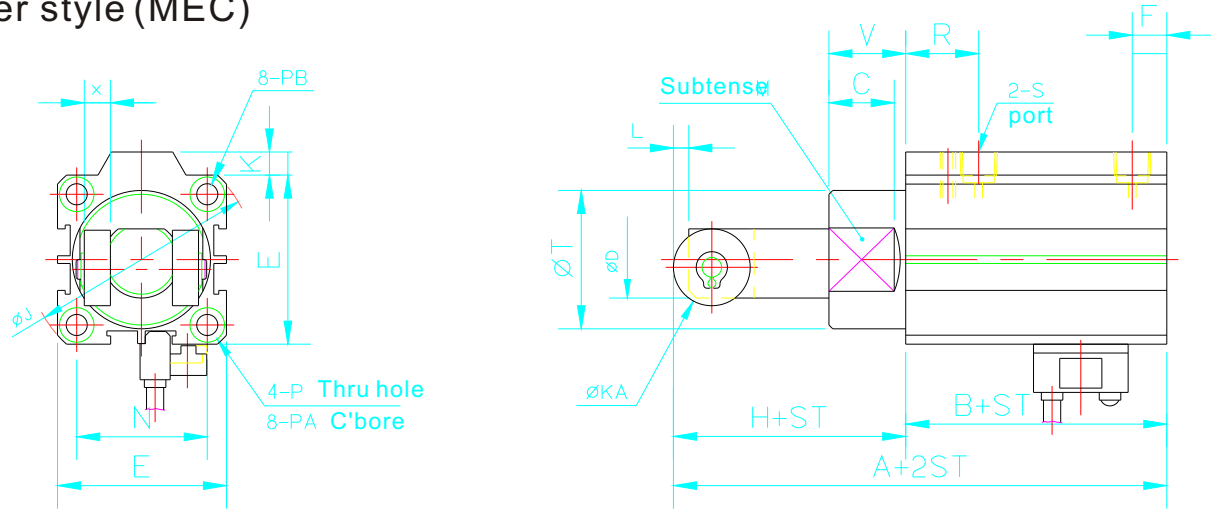


Bore	A	B	C	D	E	F	H	J	K	M	N	R
32	68	48	13	20	45	9	20	60	4.5	32	34	20
40	80.5	52.5	15	25	52	10	28	69	5	41	40	24.5
50	82	54	15	25	64	10	28	86	7	50	50	24.5

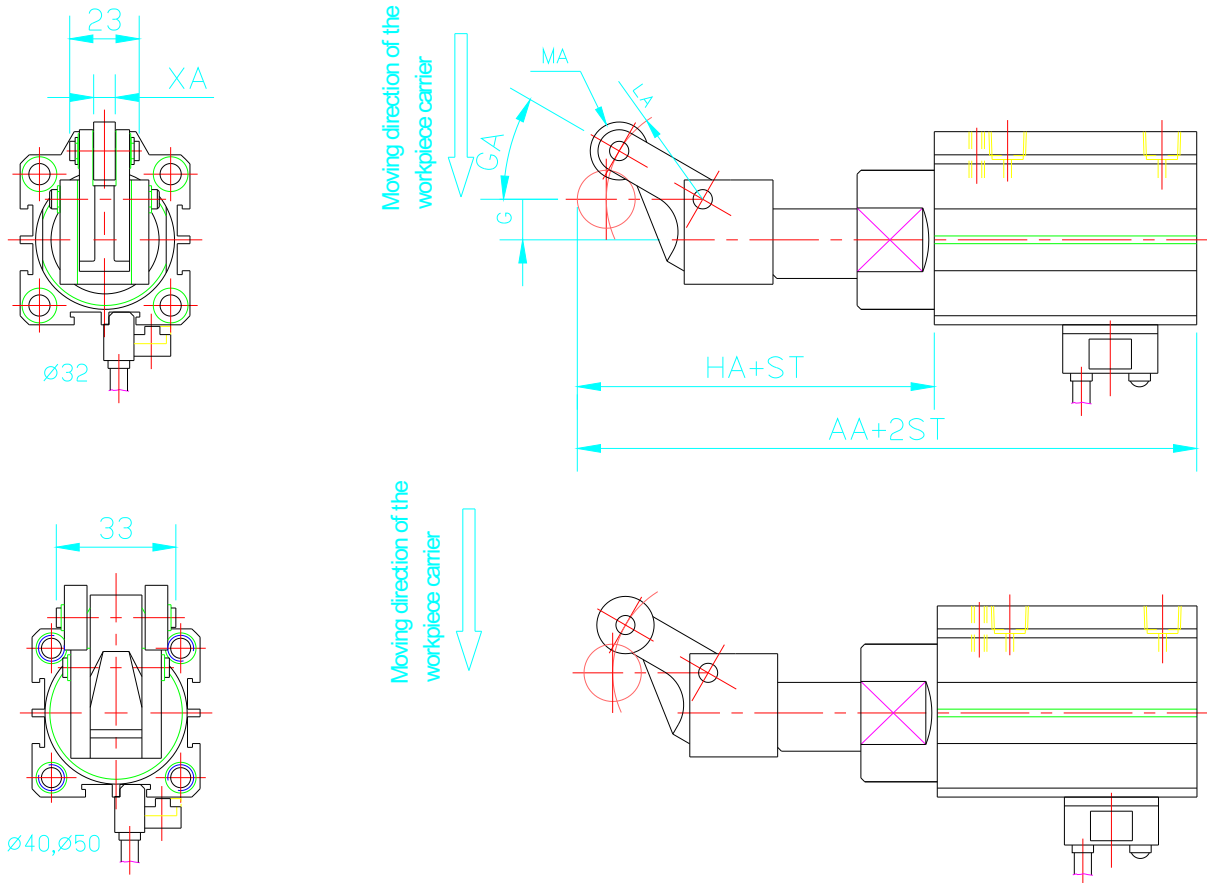
Bore	P	PA	PB	S	T	U	V	Z	DA
32	$\phi 5.5$	$\phi 9$ dp 7	M6x1.0 Thread dp 10	1/8" PT	36	22.5	20	18	18
40	$\phi 5.5$	$\phi 9$ dp 7	M6x1.0 Thread dp 10	1/8" PT	44	26	28	18	22.5
50	$\phi 6.6$	$\phi 11$ dp 8	M8x1.25 Thread dp 14	1/4" PT	56	32	28	22	22.5

# External Construction:

## • Roller style (MEC)



## • Lever style (MED)



Bore	A	B	C	D	E	F	H	J	K	L	M	N	R	S	T
32	88.5	48	13	20	45	9	40.5	60	4.5	4	32	34	20	1/8" PT	36
40	106	52.5	15	25	52	10	53	69	5	4	41	40	24.5	1/8" PT	44
50	107	54	15	25	64	10	53	86	7	4	50	50	24.5	1/4" PT	56

Bore	P	PA	PB	V	X	XA	AA	G	GA	HA	KA	LA	MA
32	ø5.5	ø9 dp 7	M6x1.0 Thread dp 10	20	6	6	120.5	10.5	30°	72.5	ø20	28	ø15
40	ø5.5	ø9 dp 7	M6x1.0 Thread dp 10	28	8	6	152.4	14	24°	100	ø24	38	ø20
50	ø6.6	ø11 dp 8	M8x1.25 Thread dp 14	28	8	6	154	14	24°	100	ø24	38	ø20