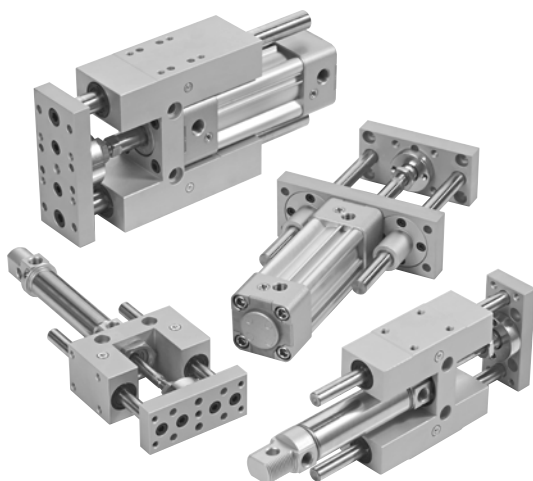


TWIN-GUIDE CYLINDER

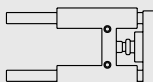


HZ16K Light duty type

HZ16X Light duty flange type

HZ16B Heavy duty (bush) type

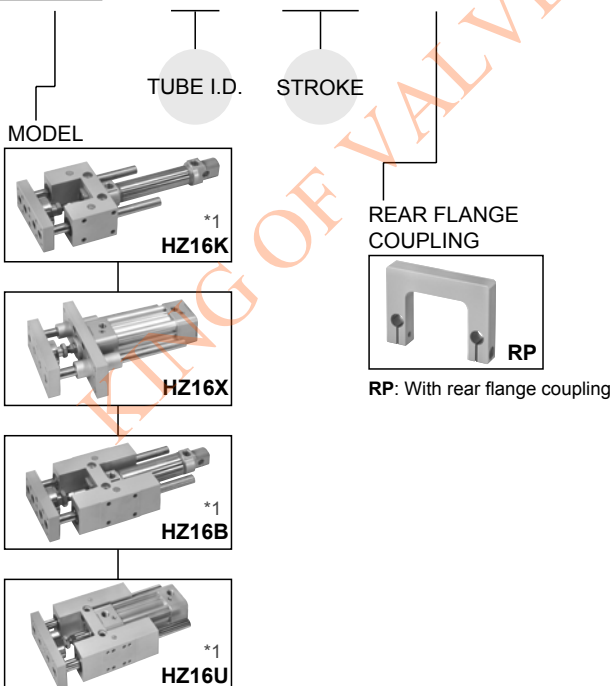
HZ16U Heavy duty (linear bearing)



type

Order example

HZ16B — 40 — 100 — RP



*1. For precautions, please refer to page 3-2.

*2. Order example for special specification, refer to page 0-7.

Features

- The guide units can be assembled to cylinders that then conform to ISO6432.
- Anti rotation guaranteed by use of external guide rods.
- Four self lube bushes or linear bearings enable high loadings and consistent movement.
- Simple to install by universal mounting holes.
- For $\phi 32 \sim \phi 63$ MGTB / U / X is standard with adjustable cushion.
- Flush fitting reed switch.
- Magnetic as standard.

Specification

Model	HZ16B, HZ16U					
	HZ16K		HZ16X			
Tube I.D. (mm)	20	25	32	40	50	63
Port size	G1/8		G1/8	G1/4		G3/8
The range of stroke (mm)	Stroke by request					
Medium	Air					
Operating pressure range	2~7 Bar					
Ambient temperature	-5~+60°C (No freezing)					
Lubrication	Cylinder		Not required			
	Guide (*)		Lubricating grease			
Available speed range	50~500 mm/sec					
Sensor switch	RCM		RCI			
Sensor switch holder	BM20	BM25	—			

* Periodically refill of the Lubricating grease is required to enhance the lubricative grade and its lifetime.

RCM sensor switch specification

Model	RCM	RDM	RNM	RPM
Switch type	Reed switch	Without contact	NPN current sinking	PNP current sourcing
Voltage range	5~240V DC/AC	10~30V DC	5~28V DC	
Current range	100mA max.	50mA max.		
Shock resistance	30G	50G		

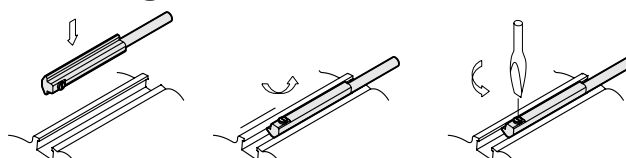
* RCM specification, please refer to page 8-13.

RCI sensor switch specification

Model	RCI	RCI-N	RCI-P	RNI	RPI
Switch type	Reed switch	NPN Reed switch	PNP Reed switch	NPN current sinking	PNP current sourcing
Voltage range	5~240V DC/AC	10 ~ 30V DC			
Current range	100mA max.	500mA max.		200mA max.	
Shock resistance	30G			50G	

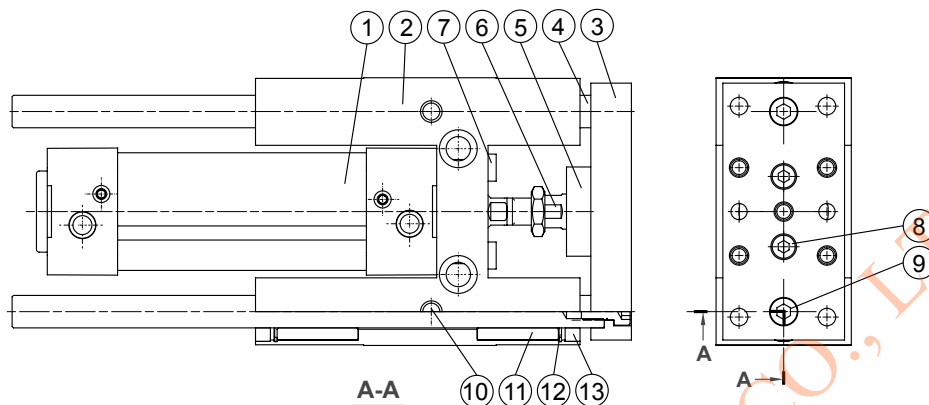
* RCI specification, please refer to page 8-11.

Mounting

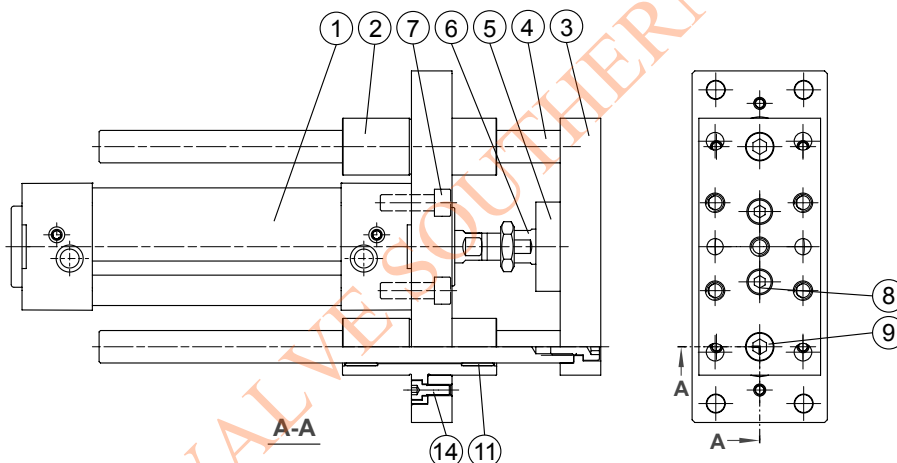


TWIN-GUIDE CYLINDER

HZ16B, HZ16U, HZ16K



HZ16X



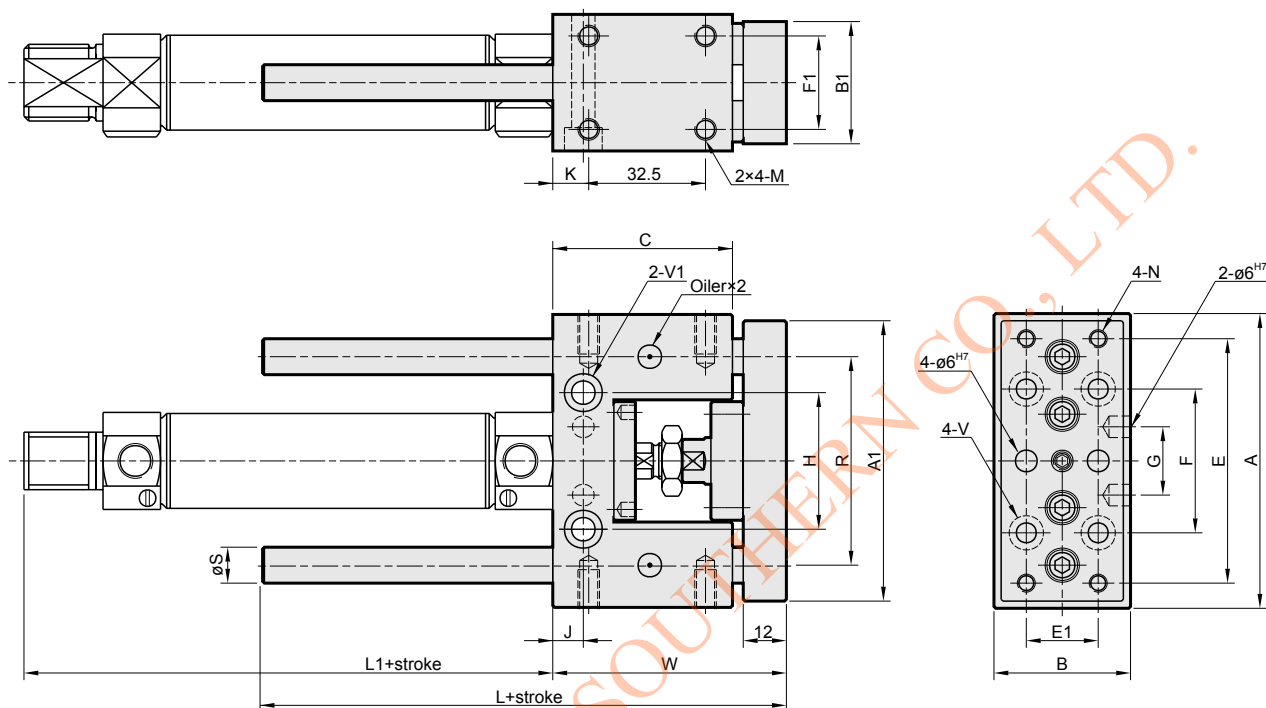
Material

No.	Part name	Material	Note
1	Cylinder	—	ø20, ø25: HZ02 series
			ø32~ø63: HZ22 series
2	Guide holder	Aluminum alloy	
3	Plate	Aluminum alloy	
4	Guide rod	Medium carbon steel	for HZ16B, HZ16K, HZ16X series
		Bearing steel	for HZ16U series
5	Piston rod holder	Carbon steel	
6	Floating connector	Carbon steel	
7	Bolt	SCM	
8	Bolt	SCM	
9	Bolt	SCM	
10	Oiler	Copper	
11	Rod bush	Copper	for HZ16B, HZ16K, HZ16X series
	Linear bearing	—	for HZ16U series
12	Snap ring	Spring steel	
13	Wiper seal	NBR	
14	Bolt	SCM	

TWIN-GUIDE CYLINDER

HZ16K (Oilless bush guide)

$\varnothing 20$, $\varnothing 25$

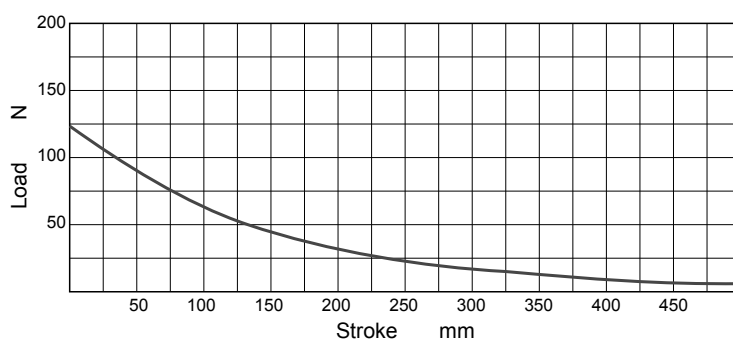
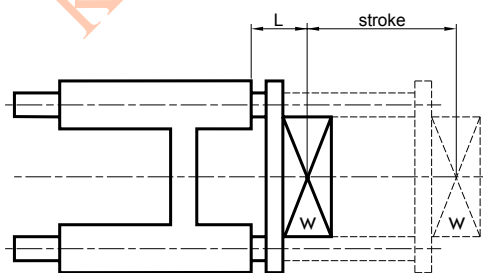


Code Tube I.D.	A	A1	B	B1	C	E	E1	F	F1	G	H	J	K	L	L1	M	N	R	S	V	V1	W
20	82	78	38	34	50	68	20	40	26	19	38	8.5	5	85	88	M6,(D)11	M5×0.8 thru	58	10	ø5.5,ø9.5(D)5.4	ø6.5,ø10.5(D)6.5	65
25	82	78	38	34	50	68	20	40	26	19	38	8.5	5	85	89	M6,(D)11	M5×0.8 thru	58	10	ø5.5,ø9.5(D)5.4	ø6.5,ø10.5(D)6.5	65

Maximum allowable torque moment

Max. allowable load

HZ16K $\varnothing 20$, $\varnothing 25$

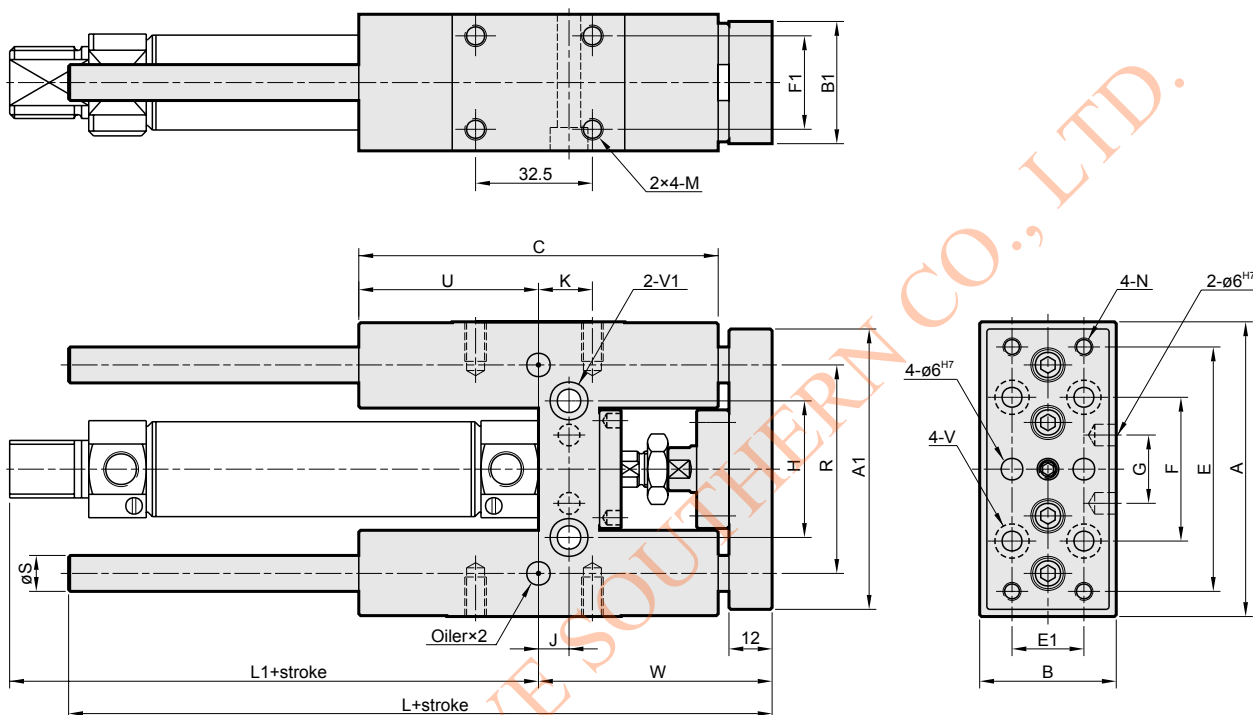


TWIN-GUIDE CYLINDER

HZ16B (Brass bush guide)

HZ16U (Linear bearing guide)

$\varnothing 20$, $\varnothing 25$

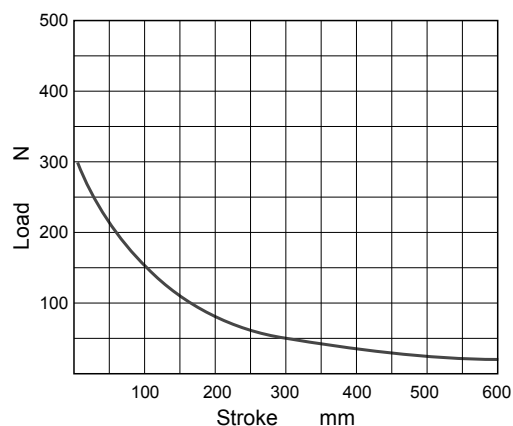
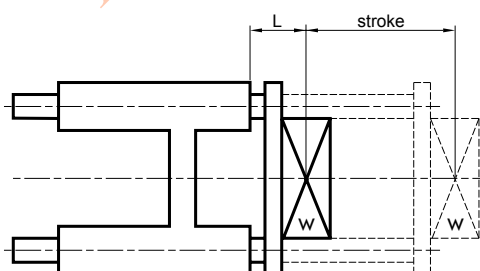


Code Tube I.D.	A	A1	B	B1	C	E	E1	F	F1	G	H	J	K	L	L1	M	N	R	S	U	V	V1	W
20	82	78	38	34	100	68	20	40	26	19	38	8.5	15	135	88	M6,(D)11	M5×0.8 thru	58	10	50	ø5.5,ø9.5(D)5.4	ø6.5,ø10.5(D)6.5	65
25	82	78	38	34	100	68	20	40	26	19	38	8.5	15	135	89	M6,(D)11	M5×0.8 thru	58	10	50	ø5.5,ø9.5(D)5.4	ø6.5,ø10.5(D)6.5	65

Maximum allowable torque moment

Max. allowable load

HZ16B.HZ16U $\varnothing 20$, $\varnothing 25$



TWIN-GUIDE CYLINDER

Installation of sensor switch $\varnothing 20, \varnothing 25$

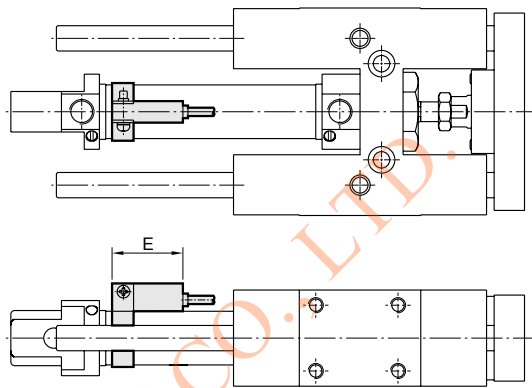
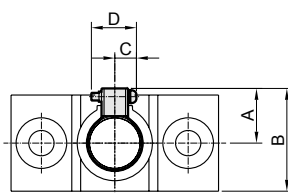
Sensor switch: RCM

Sensor switch band: BM**

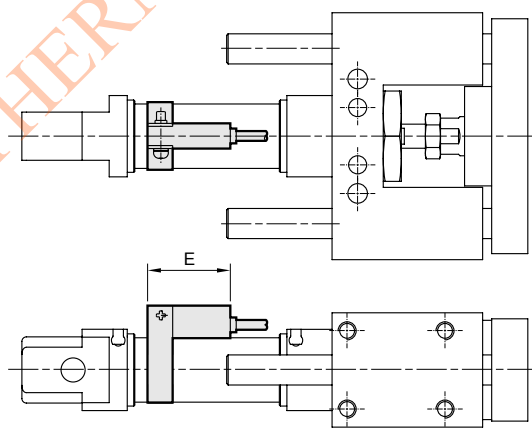
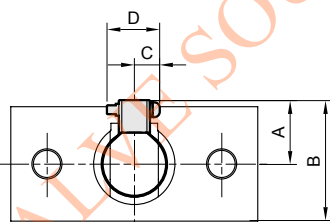
Code Tube I.D.	A	B	C	D	E
20	22	41	10	16	28
25	25	44	10	16	28

HZ16B

HZ16U



HZ16K

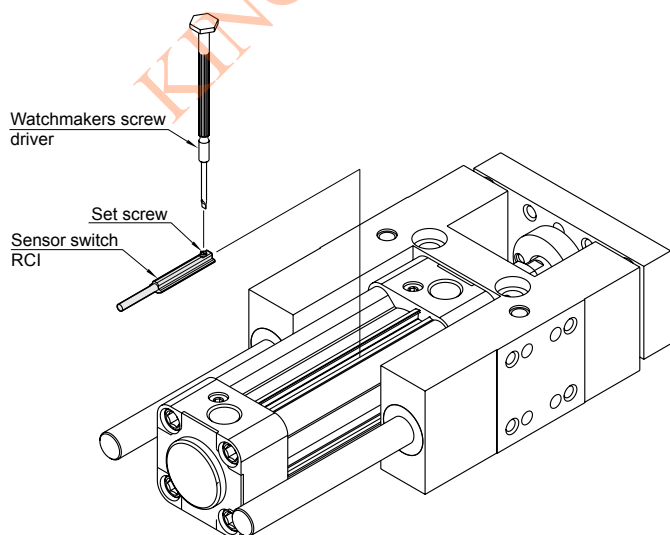


Installation of sensor switch $\varnothing 32 \sim \varnothing 63$

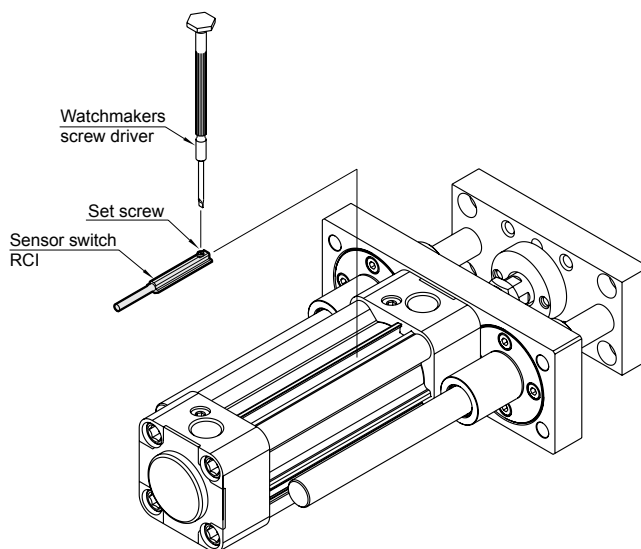
Sensor switch: RCI

HZ16B

HZ16U



HZ16X



TWIN-GUIDE CYLINDER

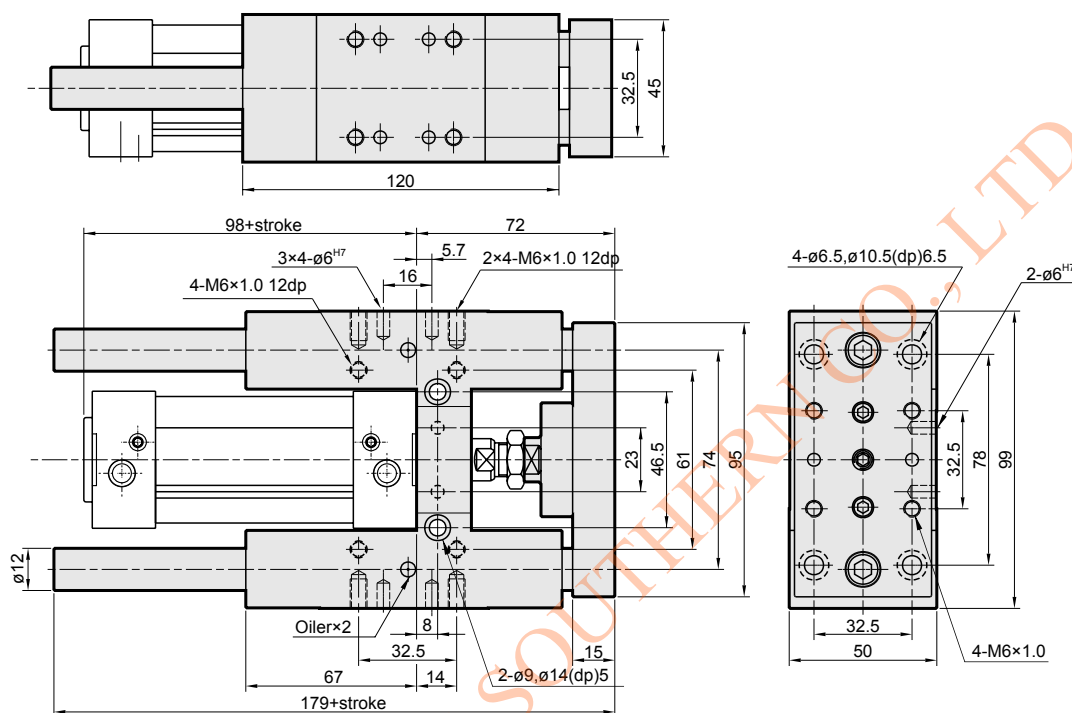
Dimensions $\phi 32$

HZ16B (Brass bush guide)

$\phi 32$

HZ16U (Linear bearing guide)

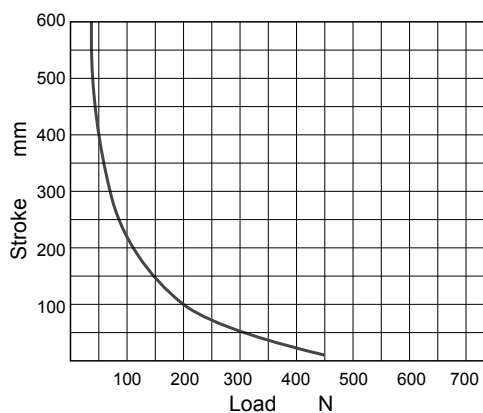
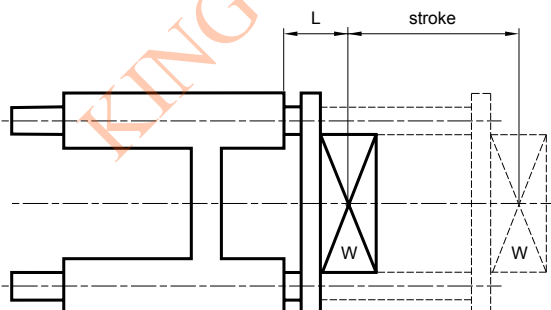
$\phi 32$



Maximum allowable torque moment

Max. allowable load

HZ16B.HZ16U $\phi 32$

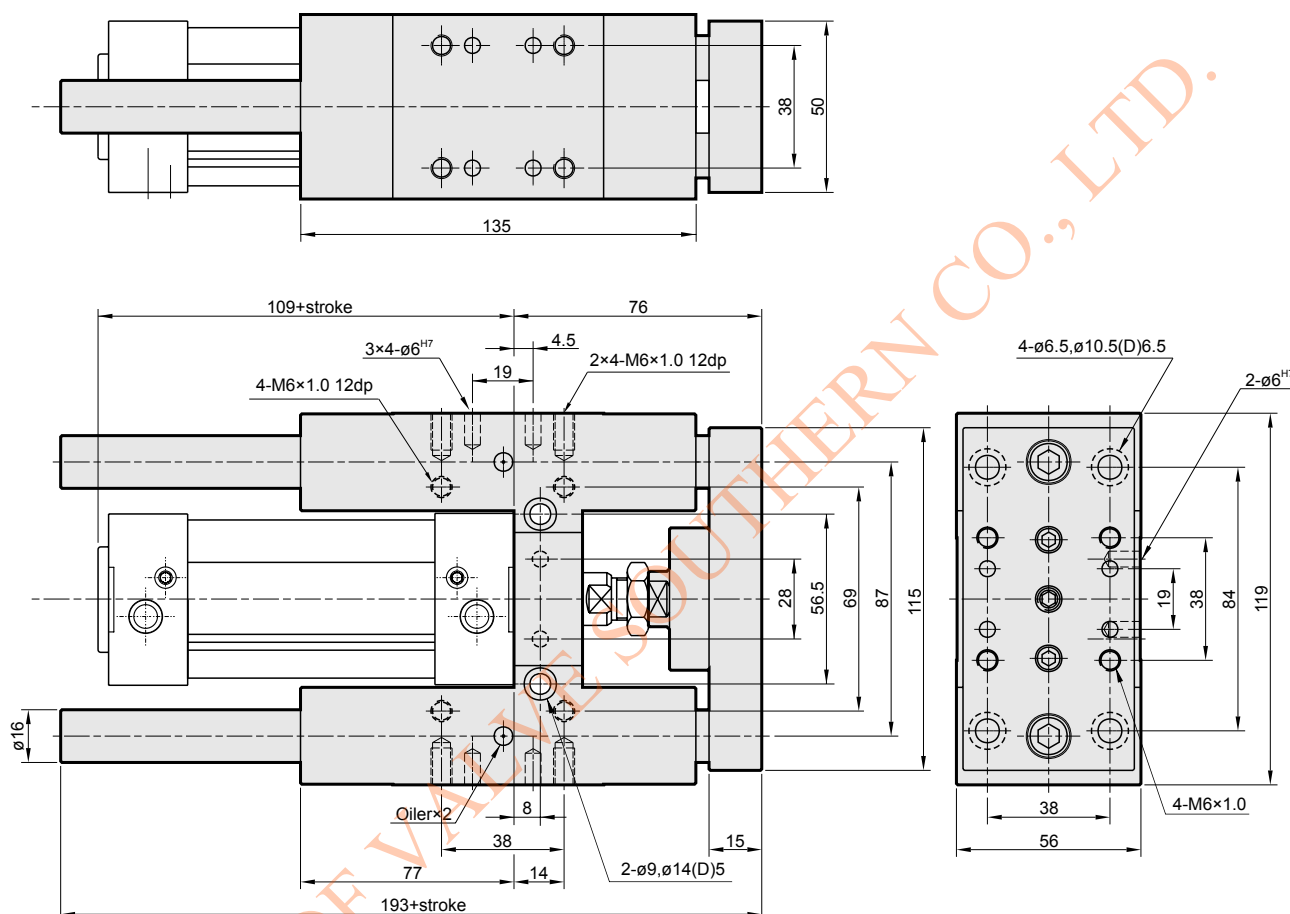


TWIN-GUIDE CYLINDER

HZ16B (Brass bush guide)

HZ16U (Linear bearing guide)

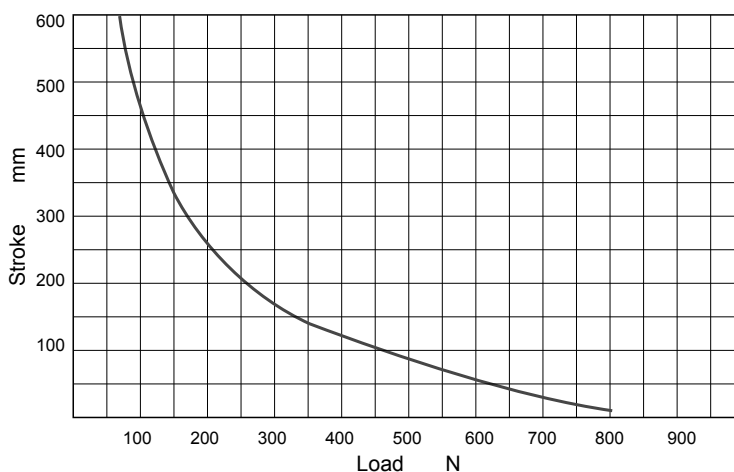
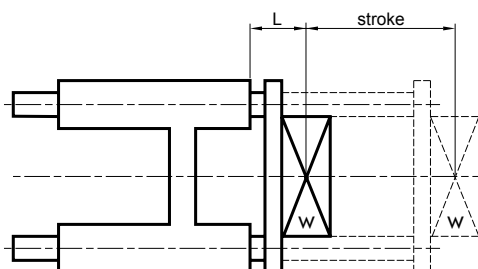
ø40



Maximum allowable torque moment

Max. allowable load

HZ16B, HZ16U ø40

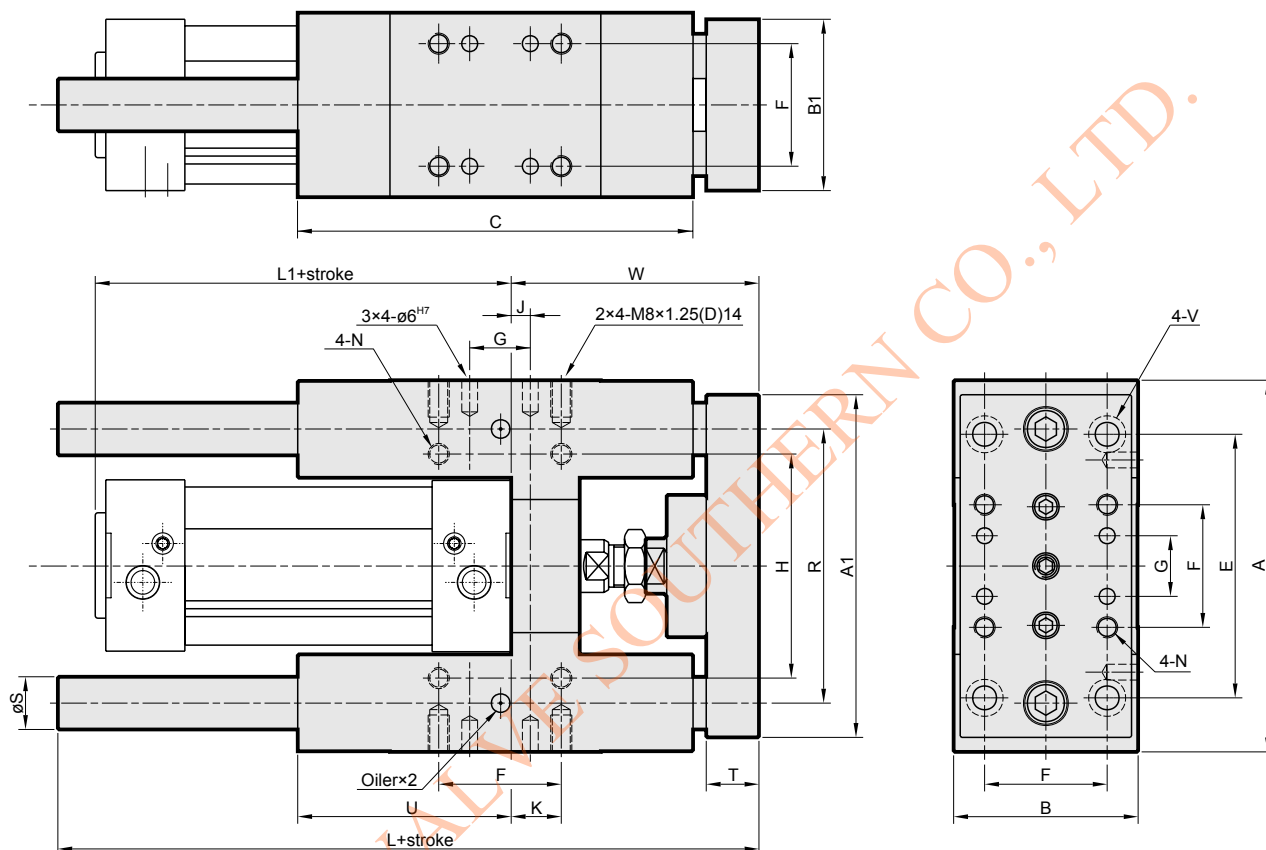


TWIN-GUIDE CYLINDER

HZ16B (Brass bush guide)

HZ16U (Linear bearing guide)

ø50, ø63

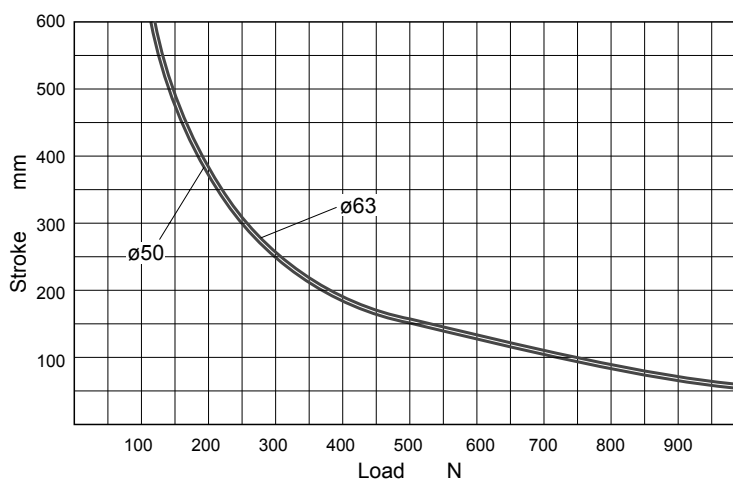
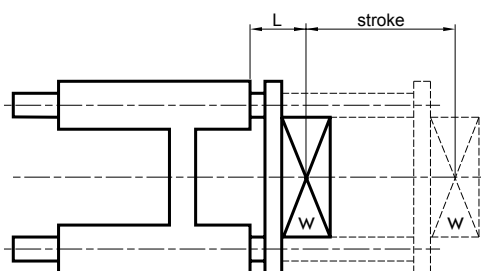


Code Tube I.D.	A	A1	B	B1	C	E	F	G	H	J	K	L	L1	N	R	S	T	U	V	W
50	141	135	70	65	150	100	46.5	23	85	7.5	19	216	110	M8x1.25 thru	104	20	20	81	ø9, ø14(D)8.5	94
63	156	150	80	75	150	105	56.5	28	100	5	19	230	125	M8x1.25 thru	119	20	20	96	ø9, ø14(D)8.5	94

Maximum allowable torque moment

Max. allowable load

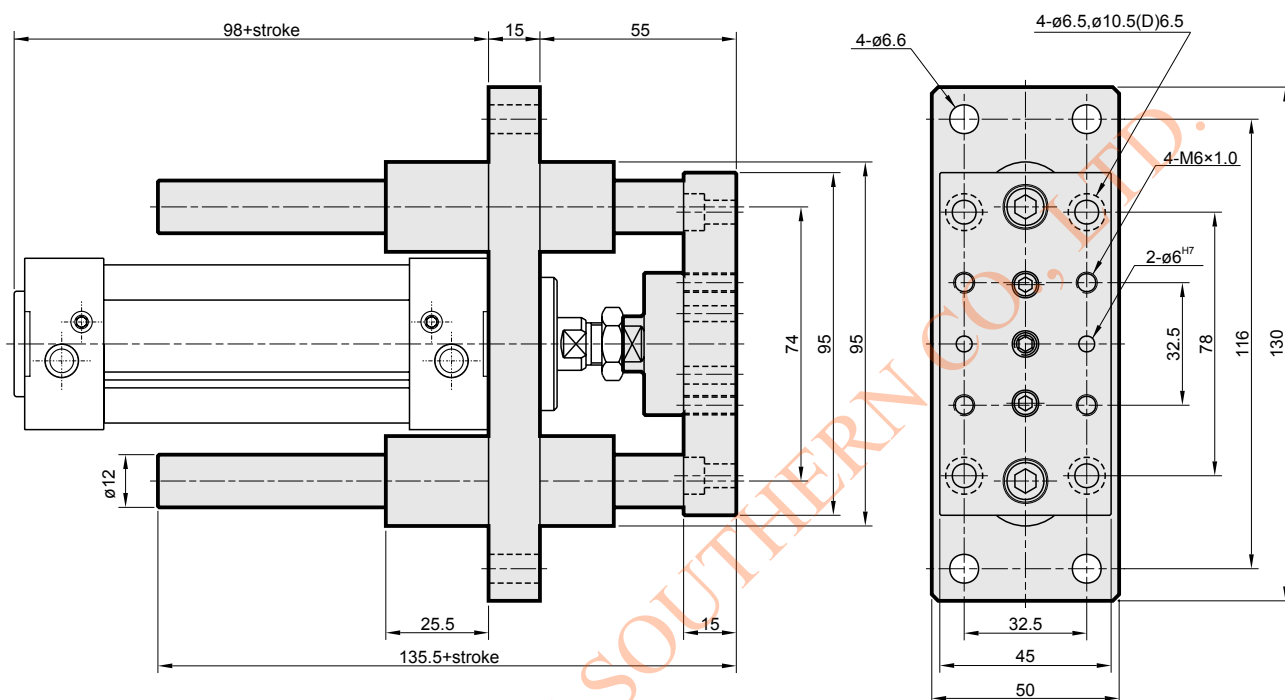
HZ16B, HZ16U ø50, ø63



TWIN-GUIDE CYLINDER

HZ16X (Flange type)

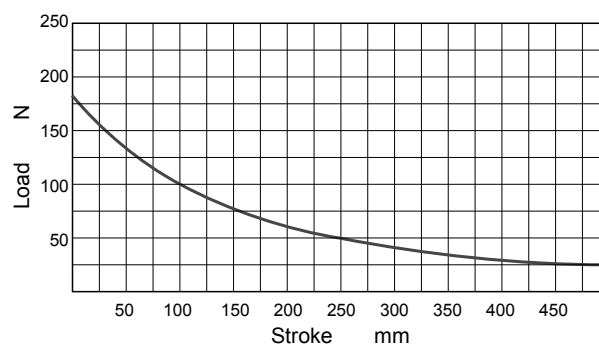
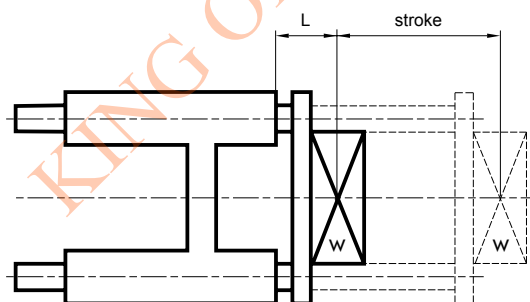
$\phi 32$



Maximum allowable torque moment

Max. allowable load

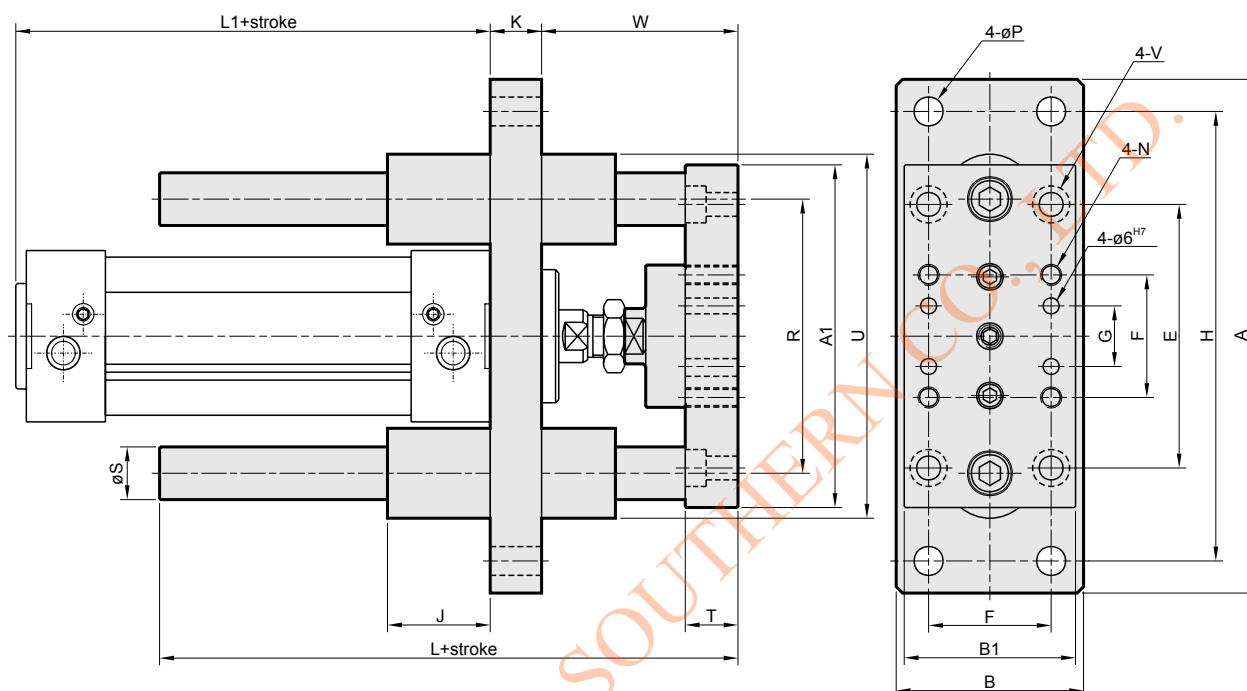
HZ16X $\phi 32$



TWIN-GUIDE CYLINDER

HZ16X (Flange type)

ø40~ø63

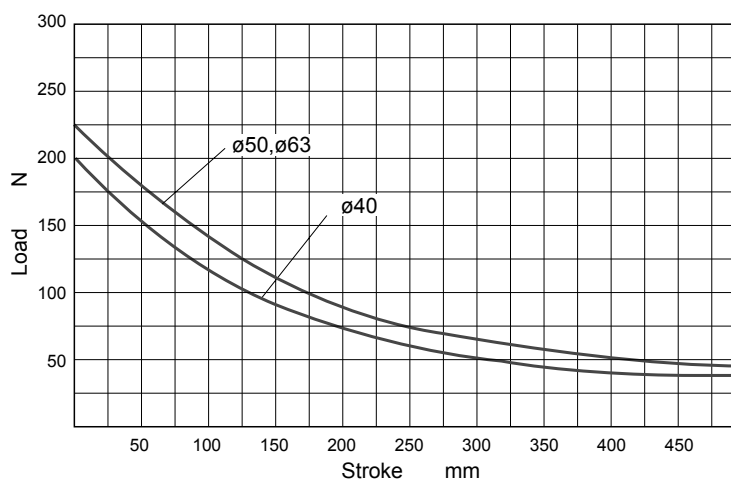
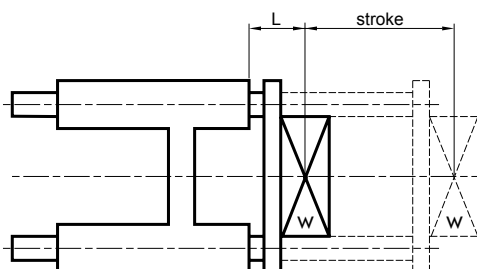


Code Tube I.D.	A	A1	B	B1	E	F	G	H	J	K	L	L1	N	P	R	S	T	U	V	W
40	160	115	55	50	84	38	19	140	32	15	148	109	M6×1.0 thru	ø9	87	16	15	115	ø6.5, ø10.5(D)6.5	61
50	180	135	70	65	100	46.5	23	160	36	20	170	110	M8×1.25 thru	ø9	104	20	20	136	ø9, ø14(D)8.5	74
63	195	150	80	75	105	56.5	28	175	36	20	170	125	M8×1.25 thru	ø9	119	20	20	151	ø9, ø14(D)8.5	74

Maximum allowable torque moment

Max. allowable load

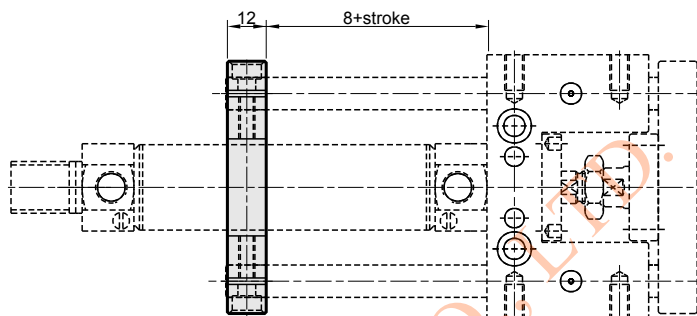
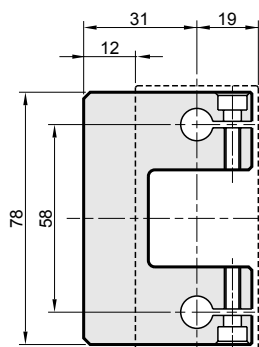
HZ16X ø40~ø63



TWIN-GUIDE CYLINDER

HZ16K

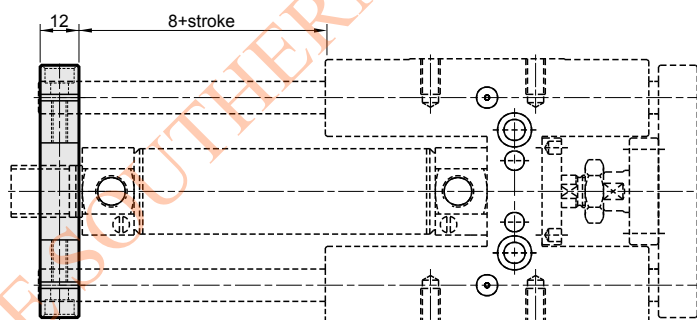
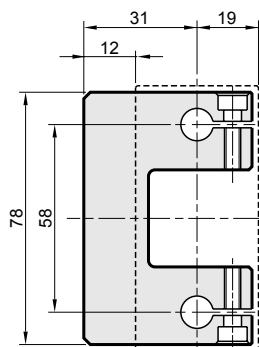
ø20, ø25



HZ16B

HZ16U

ø20, ø25



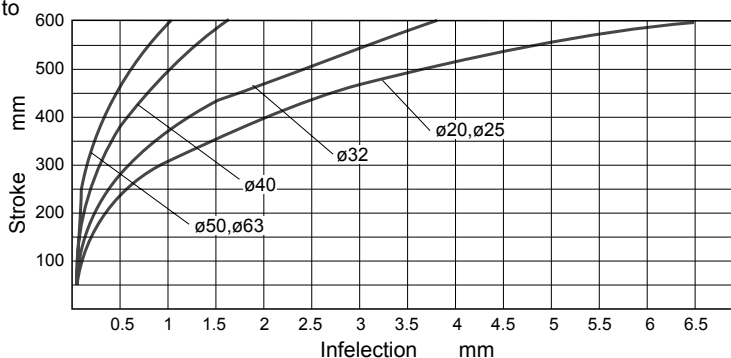
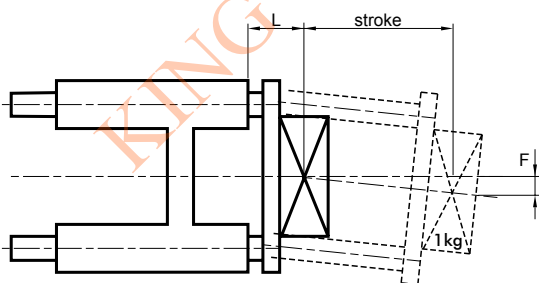
Building material: aluminum alloy
2 Clamps screws are included in the supply

Maximum allowable torque moment

Max. allowable load

HZ16B, HZ16U

Inflection of guide stems is due to their weight summed to the load of 1Kg. related to the stroke.



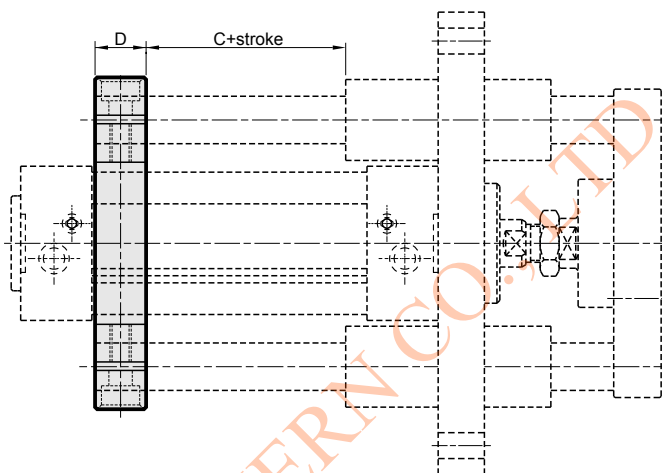
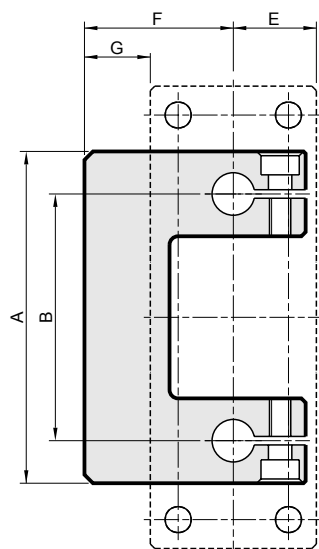
Weight

Unit: kg

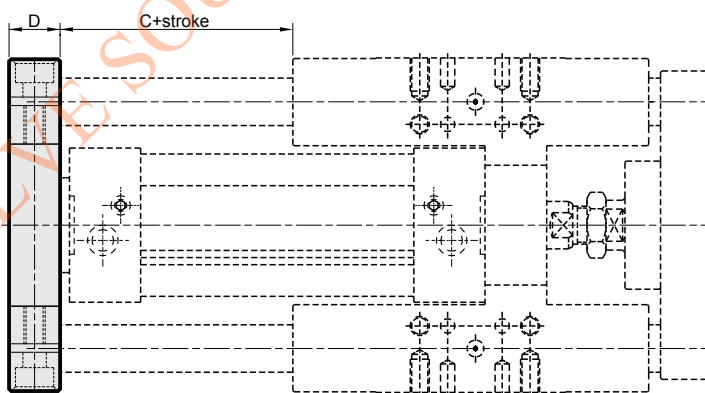
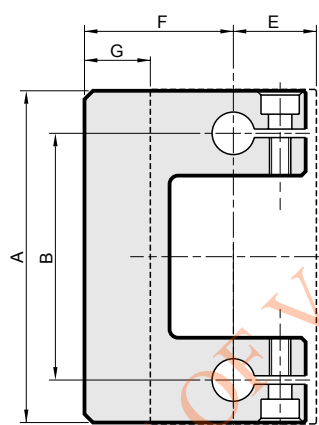
Tube I.D.	Basic weight	Stroke 25 mm	Basic weight	Stroke 25 mm	Basic weight	Stroke 25 mm
	HZ16K (Oilless bush guide)		HZ16B (Brass bush guide)		HZ16U (Linear bushing guide)	
20	0.690	0.050	1.090	0.050	0.967	0.050
25	0.716	0.058	1.137	0.058	1.015	0.058

TWIN-GUIDE CYLINDER

HZ16X $\phi 32 \sim \phi 63$



HZ16B HZ16U $\phi 32 \sim \phi 63$



Building material: aluminum alloy
2 Clamps screws are included in the supply

Code Tube I.D.	A	B	C	D	E	F	G
32	95	74	25	15	25	47	22
40	115	87	20	20	28	52.5	24.5
50	135	104	20	20	35	67.5	32.5
63	150	119	20	20	40	78	38

* HZ16X $\phi 40$: E=27.5, G=25

Weight

Unit: kg

Tube I.D.	Basic weight	Stroke 25 mm	Basic weight	Stroke 25 mm	Basic weight	Stroke 25 mm
	HZ16B (Brass bush guide)		HZ16U (Linear bushing guide)		HZ16X (Brass bush guide)	
32	2.060	0.100	1.918	0.100	1.274	0.100
40	3.423	0.159	3.113	0.159	2.082	0.159
50	5.584	0.240	5.162	0.240	3.440	0.240
63	6.816	0.250	6.390	0.250	4.221	0.250