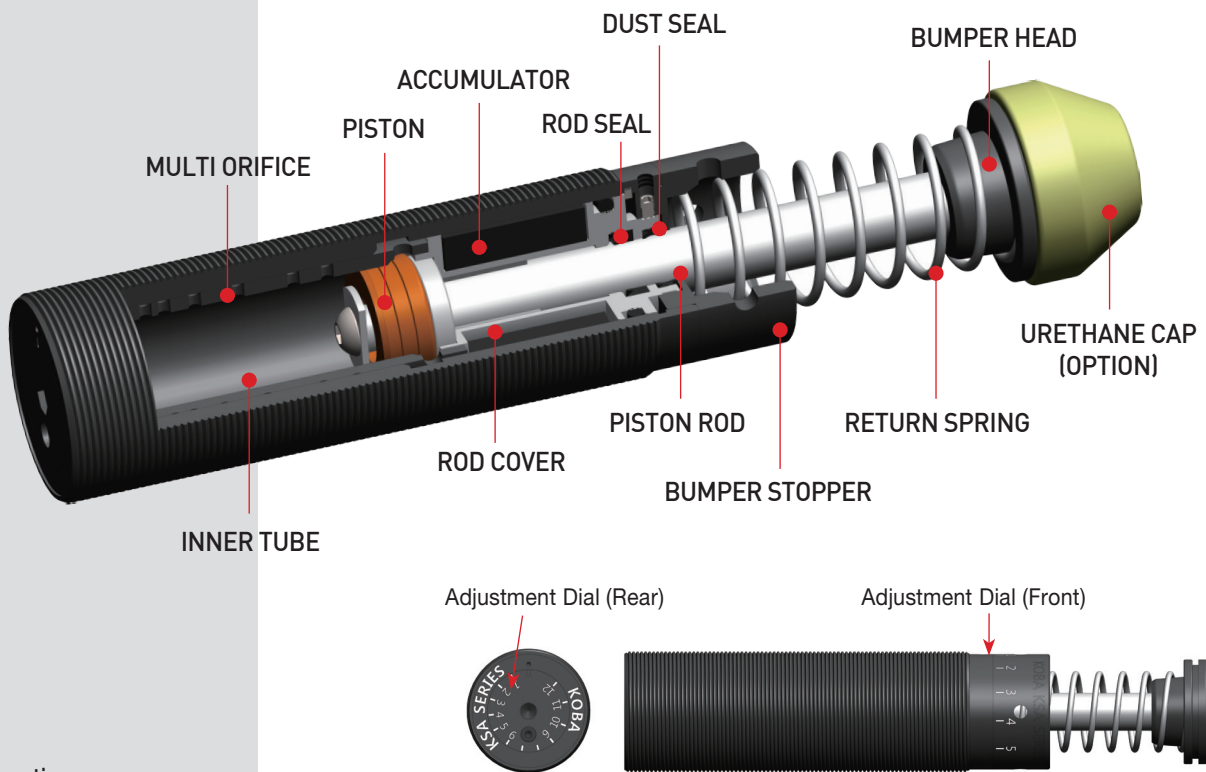


KSA Series



KOBA
Best Energy Absorption

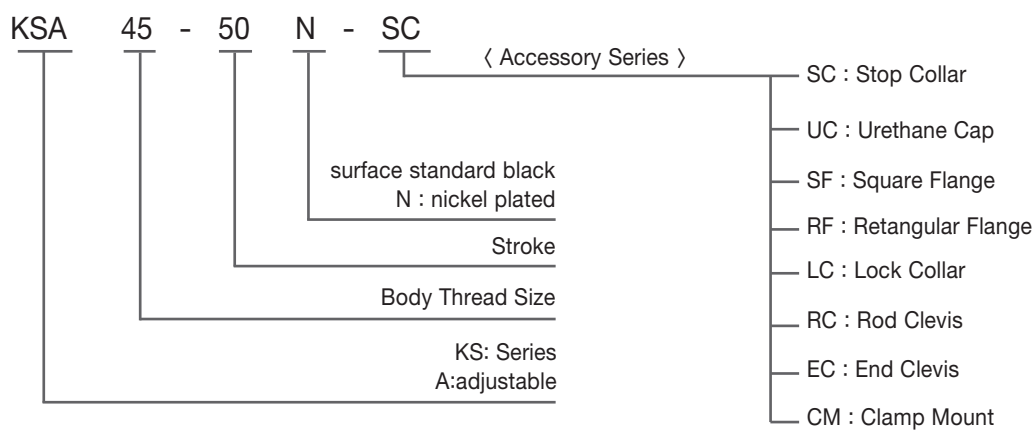
KSA - adjustable high energy series



properties

- New designed full body structure for highest energy capacity
- both sided adjustment
- Fully threaded body for more flexibility of installation
- Piston Rod special heat treated, Rod Cover, double lip seal and dust whipper
- Body black zinc plated for highest corrosion resistance up to 320 hours salt spray test
- Urethane Cap for soft impact and low noise,
- impact velocity 0,3~5,0 m/s
- Standard temperature range -10~80 °C
- option -40 ~120 °C
- Application : Robotic, linear movement technology, emergency stop, turntable and corner composer,

KSA Series Ordering Information



Accessory Series Charts

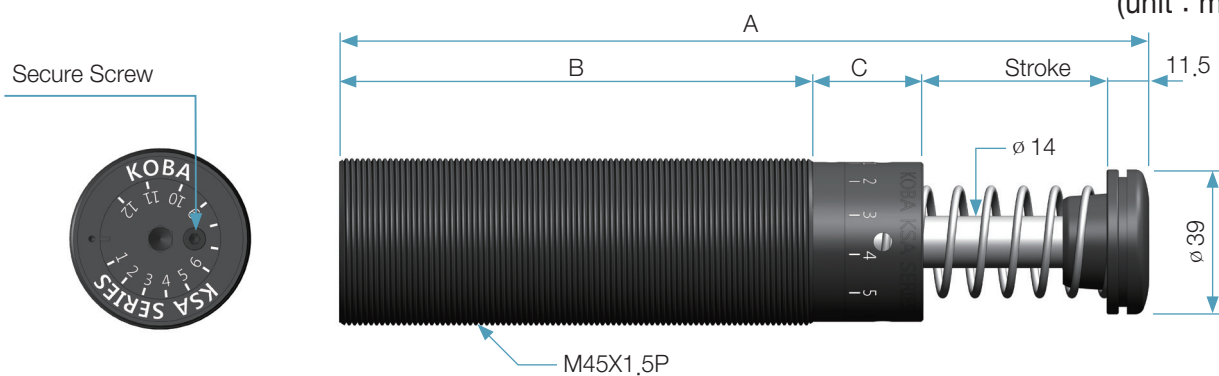
Accessories	Urethane Cap	Square Flange	Rectangular Flange	Lock Collar	Stop Collar	Rod Clevis	End Clevis	Clamp Mount
Model	UC	SF	RF	LC	SC	RC	EC	CM
KSA 45 Series	•	•	•	•	•	•	•	•
KSA 64 Series	•	•	•	•	•	•	•	•
KSA 85 Series	•	•		•	•	•	•	•

KSA 45 Series

Engineering Data

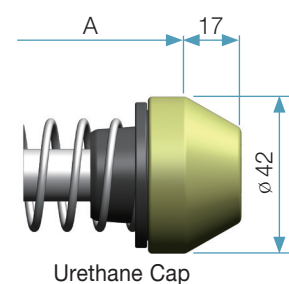
Model	Stroke (mm) S	Max.Energy / Cycle (Nm) E _T	Max.Energy /Hour (Nm/h) E _T C	Effective Weight (kg) We	Recoil Force (N)		Weight (kg)
					Ext.	Comp.	
KSA45-25	25	650	195,000	50-13,354	49.7	82.8	1.13
-50	50	1,300	260,000	99-26,700	45.6	84	1.3
-75	75	2,000	300,000	148-39,060	44.3	86.3	1.52

(unit : mm)

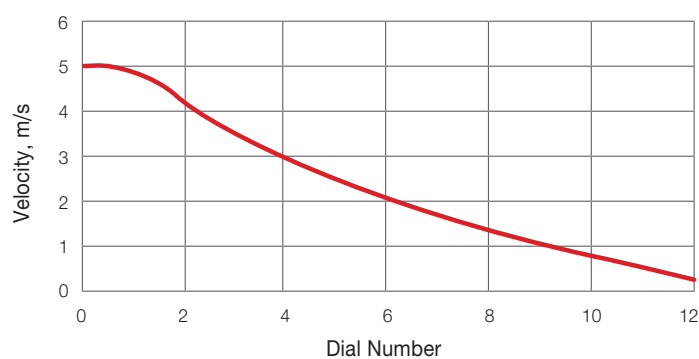


Dimensions (unit : mm)

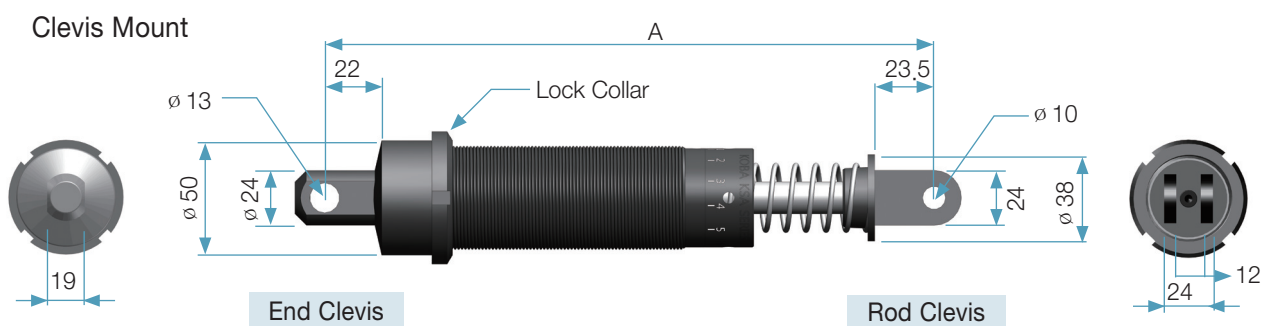
Model	St	A	B	C
KSA45-25	25	159.5	93	30
-50	50	220.5	129	30
-75	75	292.5	168.5	37.5



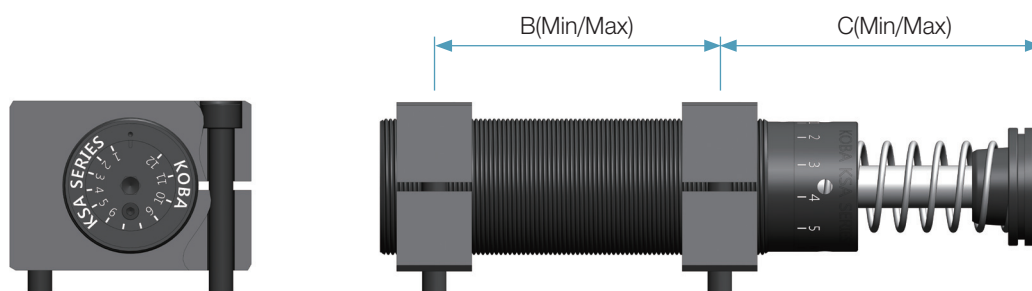
Adjustment Diagram



Accessory (unit : mm)

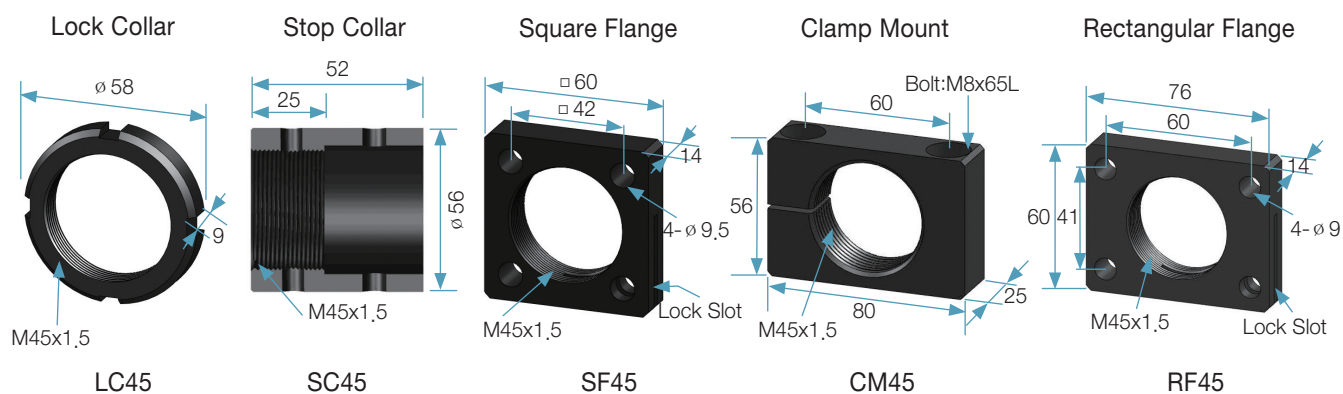


Clamp Mount



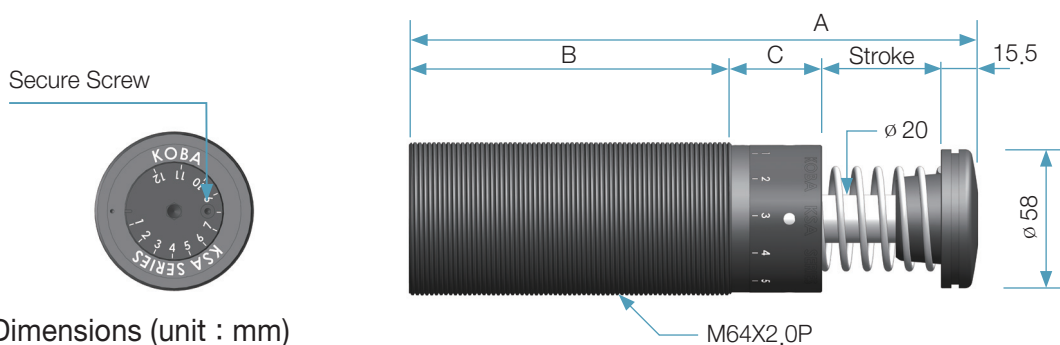
Dimensions (unit : mm)

Model	KSA45-25	KSA45-50	KSA45-75
A	210	271	343
B(Min/Max)	25/68	25/104	25/143,5
C(Min/Max)	79,5/100,5	104/143,5	129/170,75



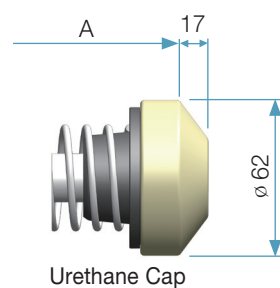
KSA 64 Series Engineering Data

Model	Stroke (mm) S	Max.Energy / Cycle (Nm) E _T	Max.Energy /Hour (Nm/h) E _T C	Effective Weight (kg) We	Recoil Force (N)		Weight (kg)
					Ext.	Comp.	
KSA64-25	25	1,250	152,000	92-24,400	61.8	110	2.9
-50	50	2,500	248,000	185-48,800	60.8	133.2	3.3
-75	75	3,750	265,000	277-73,240	61.4	148.3	3.8
-100	100	5,000	360,000	370-97,650	59.4	160.1	4
-125	125	6,250	413,000	462-122,000	57.1	160.4	7.7
-150	150	7,500	450,000	555-146,480	51	166.8	8.9

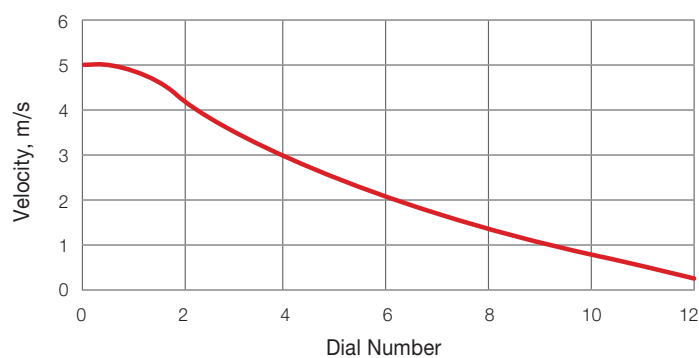


Dimensions (unit : mm)

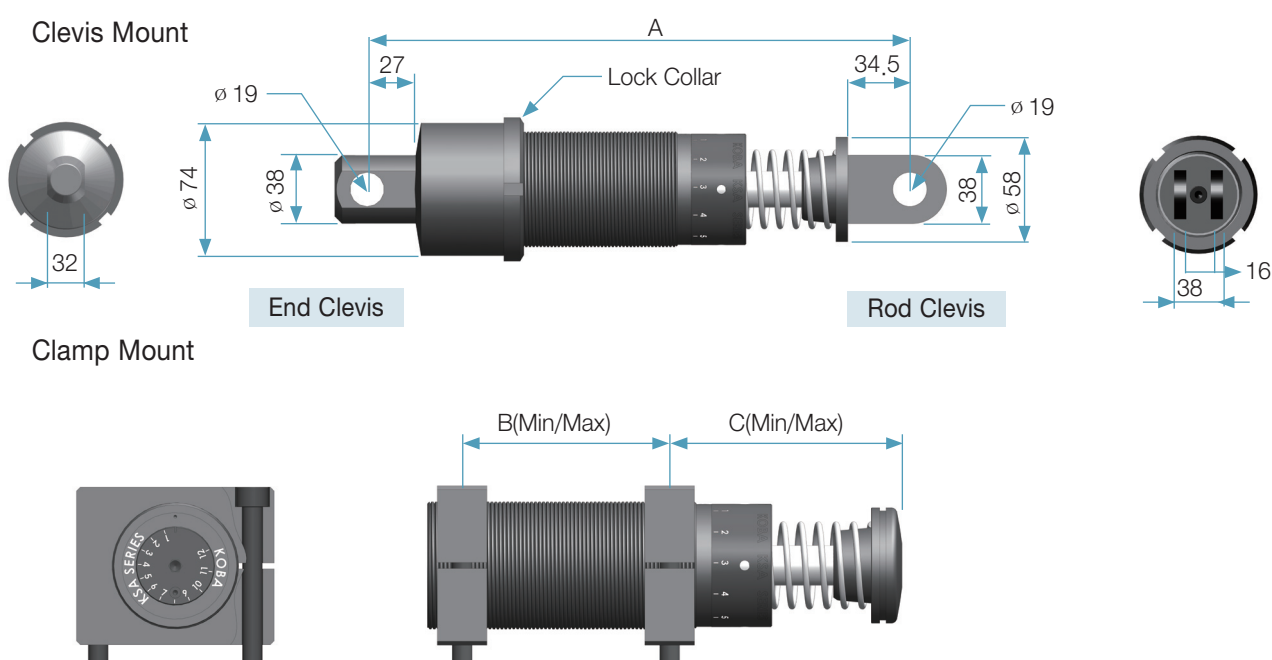
Model	St	A	B	C
KSA64-25	25	176	97,5	38
-50	50	239	135,5	38
-75	75	309	173,5	45
-100	100	375	214,5	45
-125	125	452	256,5	55
-150	150	518,5	294,5	58,5



Adjustment Diagram

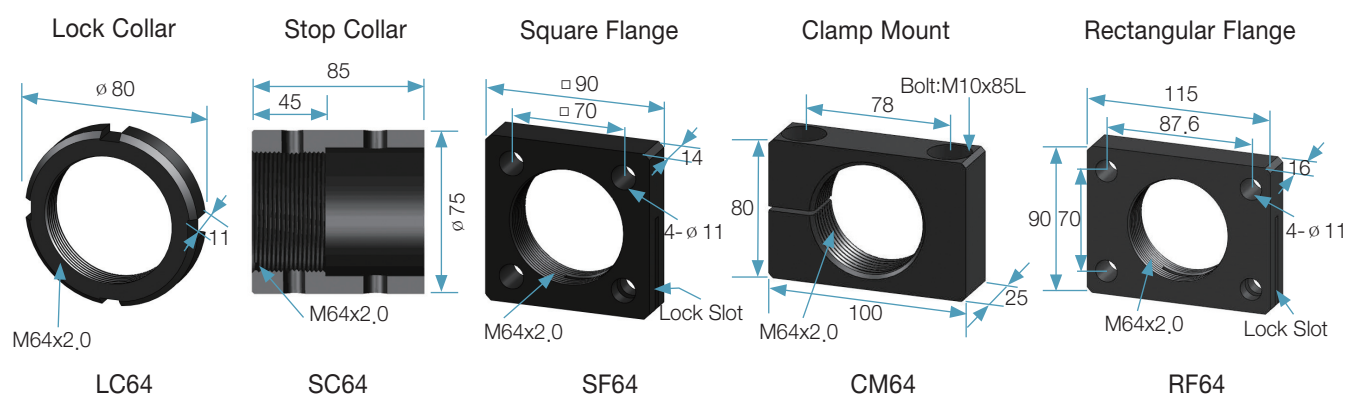


Accessory (unit : mm)



Dimensions (unit : mm)

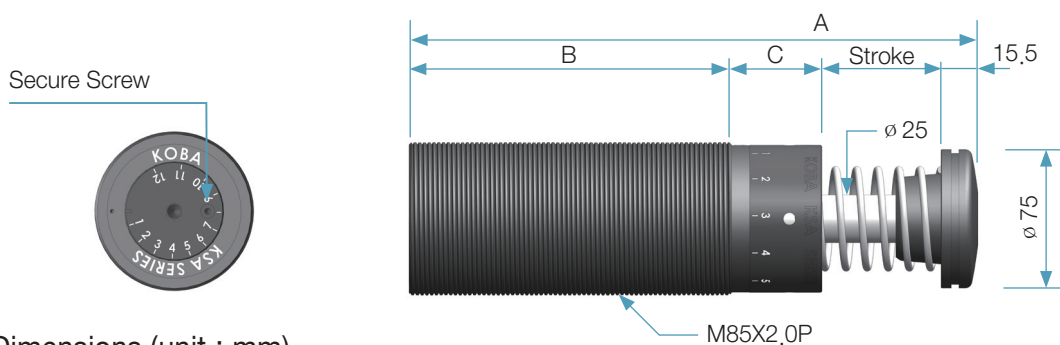
Model	KSA64-25	KSA64-50	KSA64-75	KSA64-100	KSA64-125	KSA64-150
A	244	307	377	442	520	-
B(Min/Max)	25/72,5	25/110,5	25/148,5	25/189,5	25/231,5	25/269,5
C(Min/Max)	92,5/116,25	117,5/160,25	149,5/211,25	174,5/256,75	209,5/312,75	238/360,25



KSA 85 Series

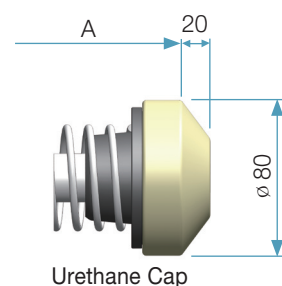
Engineering Data

Model	Stroke (mm) S	Max. Energy / Cycle (Nm) E _T	Max. Energy / Hour (Nm/h) E _T C	Effective Weight (kg) We	Recoil Force (N)		Weight (kg)
					Ext.	Comp.	
KSA85-25	25	2,000	330,000	148-39,600	132	245,8	12,2
-50	50	4,000	462,000	296-78,100	131,6	271,7	14,4
-75	75	6,000	680,000	444-117,200	130	325,1	17
-100	100	8,000	825,000	591-156,300	125,4	327,7	20
-125	125	10,000	859,000	740-195,300	126,6	343,3	23,6
-150	150	12,000	901,000	930-220,300	126,6	386,7	28

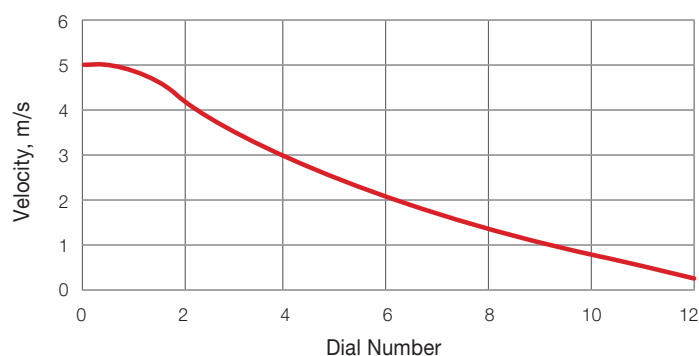


Dimensions (unit : mm)

Model	St	A	B	C
KSA85-25	25	189,5	109	40
-50	50	251	145,5	40
-75	75	314,5	180	44
-100	100	384,5	217	52
-125	125	452,5	256	56
-150	150	513,5	292	56

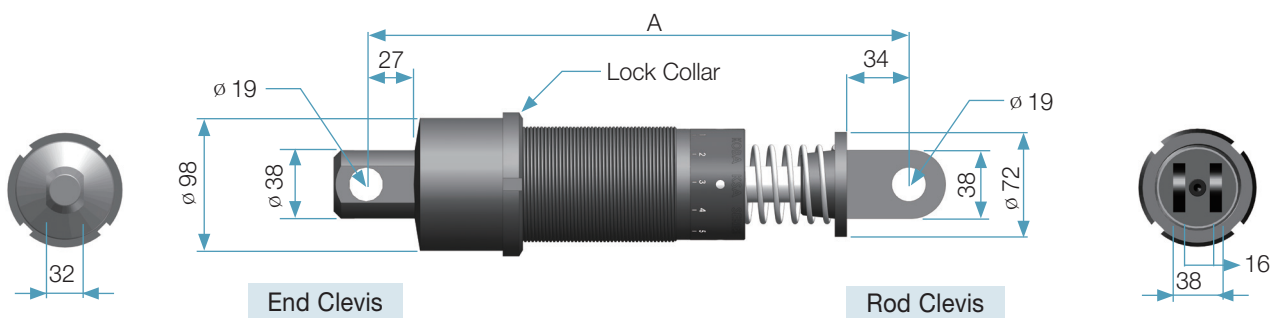


Adjustment Diagram

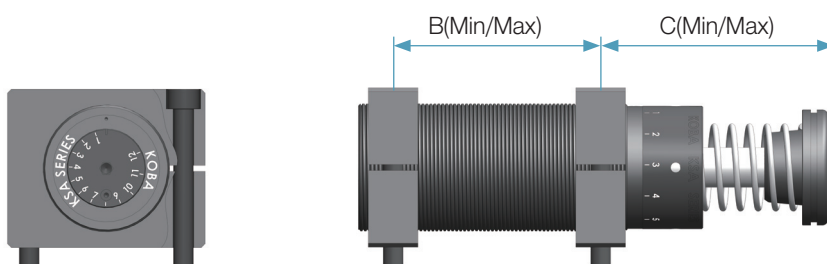


Accessory (unit : mm)

Clevis Mount



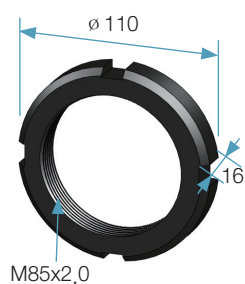
Clamp Mount



Dimensions (unit : mm)

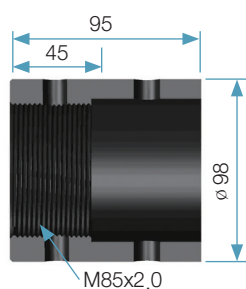
Model	KSA85-25	KSA85-50	KSA85-75	KSA85-100	KSA85-125	KSA85-150
A	256	316	381	451	519	-
B(Min/Max)	25/79	25/114	25/150	25/187	25/226	25/262
C(Min/Max)	95,5/120	120,5/162,5	149/209,5	182,5/261	211,5/309,5	236,5/352,5

Lock Collar



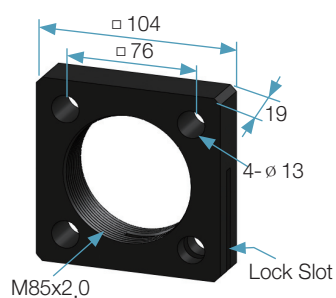
LC85

Stop Collar



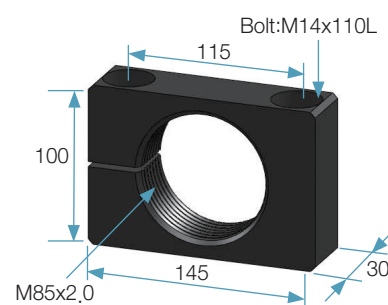
SC85

Square Flange



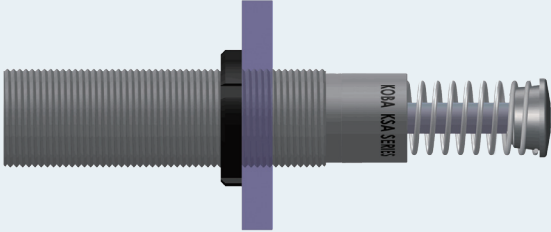
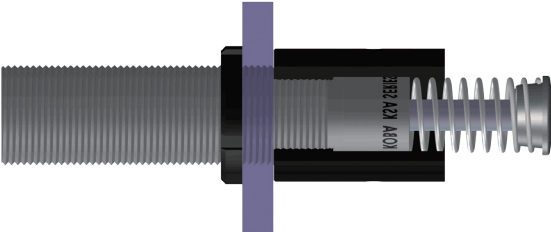
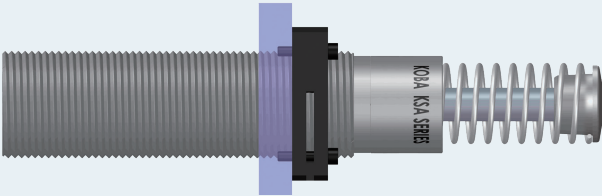
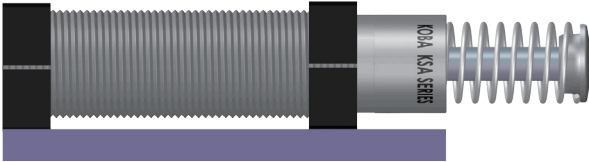
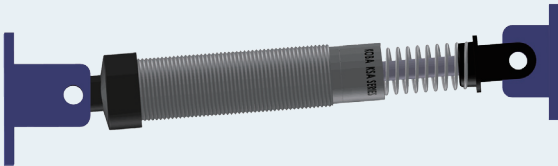
SF85

Clamp Mount



CM85

KSA Accessories Installation

NAME	Example / Description
Lock Collar	 mounting by locking 1 or 2 lock collar with recommended torque
Stop Collar + Lock Collar	 Stop Collar will be adjusted to max needed stroke, Locked by 1 or 2 lock collar.
Flange Mount	 Square Flange or Rectangular Flange to mount Shock Absorber in through bores.
Clamp Mount	 Clamp Mount is used to mount Shock Absorber on the floor.
Clevis Mount	 Clevis mount - needed to connect moving load directly with the Shock Absorber

At a glance

Adjustable type Shock Absorbers - KSA Series

Model	Stroke (mm) S	Max.Energy / Cycle (Nm) Er	Max.Energy / Hour (Nm/h) ErC	Effective Weight (kg) We	Recoil Force (N)		Weight (kg)	Thread
					Ext	Comp		
KSA45-25	25	650	195,000	50-13,354	49.7	82.8	1.13	M45x1.5
-50	50	1,300	260,000	99-26,700	45.6	84	1.3	
-75	75	2,000	300,000	148-39,060	44.3	86.3	1.52	
KSA64-25	25	1,250	152,000	92-24,400	61.8	110	2.9	M64x2.0
-50	50	2,500	248,000	185-48,800	60.8	133.2	3.3	
-75	75	3,750	265,000	277-73,240	61.4	148.3	3.8	
-100	100	5,000	360,000	370-97,650	59.4	160.1	4	
-125	125	6,250	413,000	462-122,000	57.1	160.4	7.7	
-150	150	7,500	450,000	555-146,480	51	166.8	8.9	
KSA85-25	25	2,000	330,000	148-39,600	132	245.8	12.2	M85x2.0
-50	50	4,000	462,000	296-78,100	131.6	271.7	14.4	
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-125	125	10,000	859,000	740-195,300	126.6	343.3	23.6	
-150	150	12,000	901,000	930-220,300	126.6	386.7	28	