

## KCLC9A

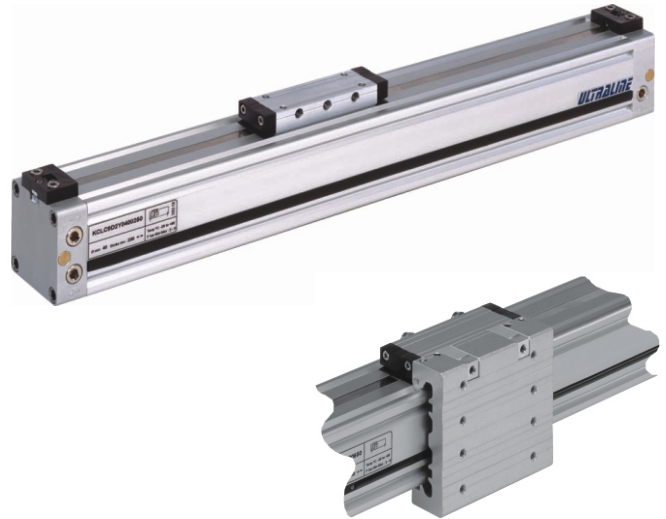
### Compact Rodless Cylinder

Ø18mm - Ø63mm

## KCLC9B

### Compact Rodless Cylinder with Slide Bearing

Ø18 - Ø63mm



#### Features

- ◆ Single or dual end porting in standard endcaps
- ◆ Basic length up to 40% shorter than conventional rodless cylinders
- ◆ Precision, fine thread needle adjustment cushioning
- ◆ Optional shock absorbers
- ◆ Magnetic piston as standard
- ◆ Optional adjustable slide bearing guide units
- ◆ Integral reed switch slot
- ◆ Wire retaining enhancement strip (Ø25 to 63mm)

#### Materials

Body:	Anodised aluminium
Piston:	Acetal
Piston seal:	Polyurethane
Endcaps:	Anodised aluminium
Sealing strip:	Polyurethane
Cover strip:	Stainless steel
Fasteners:	Stainless steel

#### Stroke Lengths

Stroke lengths up to 6000mm available as standard.

#### Accessory Part Numbers

Bore Size mm	Position Sensor (optional)	Shock absorbers (optional)	Foot	Mounting brackets (optional):		
				Side Support	Shock Absorber	T Slot Mounting Nut
18	UL-07..	KAD1410	KCRM018K01	KCRM018K02	KCRM018K03	-
25	UL-34..	KAD1410	KCRM025K01	KCRM025K02	KCRM025K03	KTNM5
32	UL-34..	KAD1410	KCRM032K01	KCRM032K02	KCRM032K03	KTNM5
40	UL-34..	KAD2525	KCRM040K01	KCRM040K02	KCRM040K03	KTNM5
50	UL-34..	KAD2525	KCRM050K01	KCRM050K02	KCRM050K03	KTNM5
63	UL-34..	KAD2525	KCRM063K01	KCRM063K02	KCRM063K03	KTNM5

#### Description

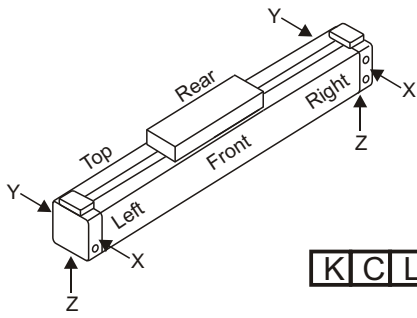
**KCLC9A** Mechanically coupled compact rodless cylinder, adjustable cushioning, magnetic piston.

**KCLC9B** Mechanically coupled compact rodless cylinder, adjustable cushioning, magnetic piston, single slide bearing.

#### Technical Specifications

Pressure range:	2 to 8 bar
Temperature range:	-20°C to +80°C
Media:	Compressed and filtered air, dry or lubricated
Maximum speed:	2.0 m/sec
Cushioning:	Adjustable. Optional external shock absorbers
Position Sensing :-	Reed Switch, PNP or NPN Solid State Switch. (N/O)
Shock Absorbers :-	Fixed or Adjustable

## KCLC Ordering Information:



**K C L C 9**

### Build Type

- A Basic Build no Attachment
- B Single Side Guide(s) (Front)
- C Single Side Guide(s) (Rear)

### Port Function

- |   |                                  |      |              |
|---|----------------------------------|------|--------------|
| 1 | Single End Porting (RH Standard) | BSPP | (X, Y, only) |
| 2 | Single End Porting (LH Optional) | BSPP | (X, Y, only) |
| 3 | Double End Porting               | BSPP | (X, Y, Z)    |
| 4 | Single End Porting               | NPT  | (X, Y, only) |
| 5 | Single End Porting (LH Optional) | NPT  | (X, Y, only) |
| 6 | Double End Porting               | NPT  | (X, Y, Z)    |

### Port Position

- X Side Front
- Y Side Rear
- Z Bottom

### Diameter (mm)

- |     |           |
|-----|-----------|
| 018 | 18mm bore |
| 025 | 25mm bore |
| 032 | 32mm bore |
| 040 | 40mm bore |
| 050 | 50mm bore |
| 063 | 63mm bore |

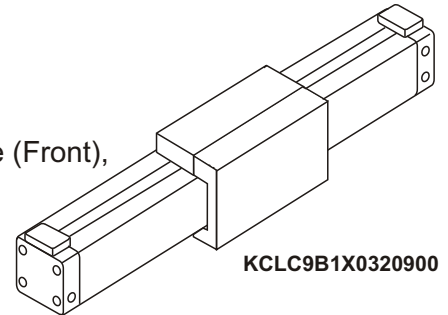
### Stroke (mm)

xxxx : in mm, ie 0900 = 900mm

## Example:

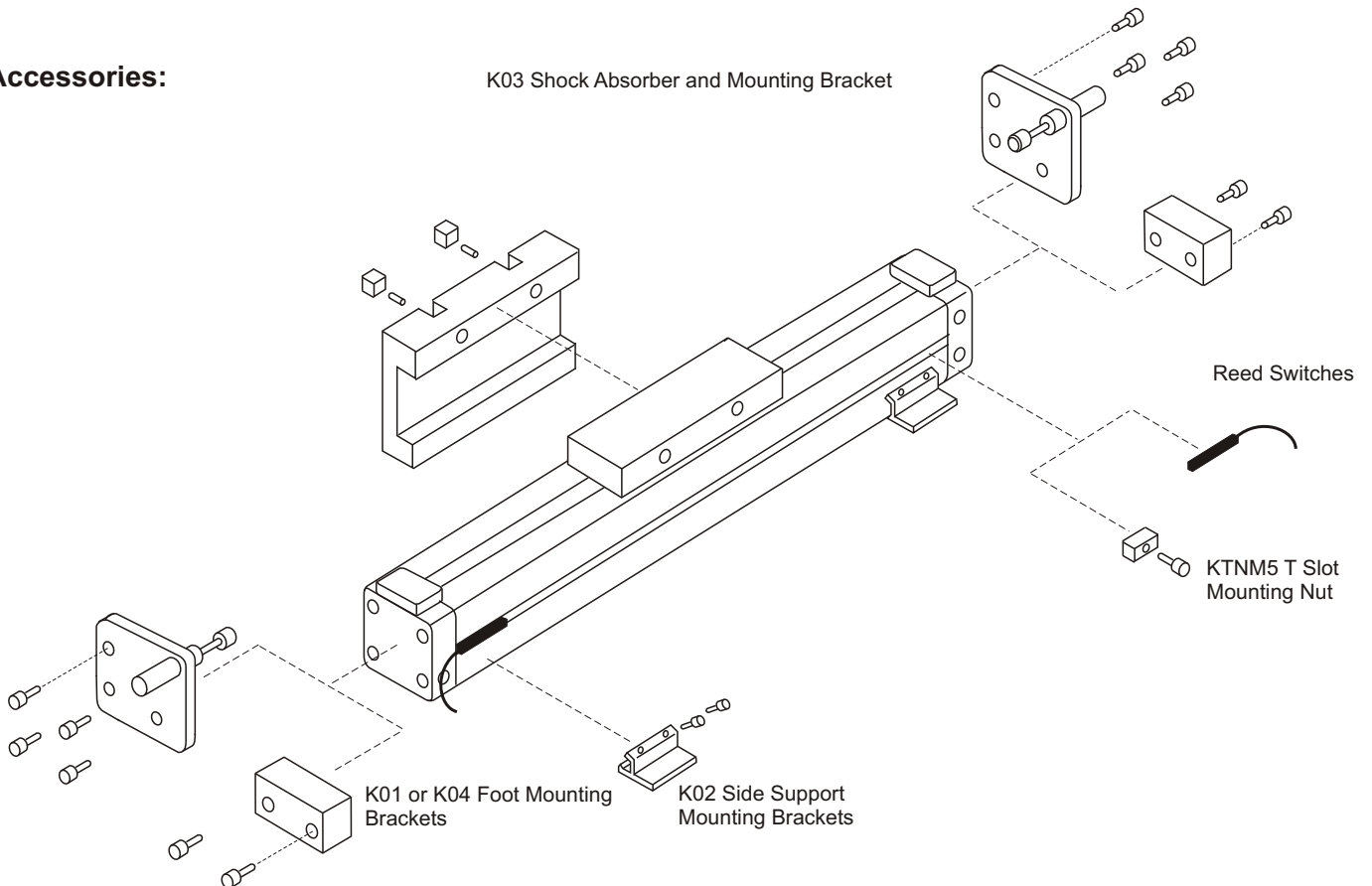
**Cylinder Code:** KCLC9B1X0320900

Ø32mm Compact Cylinder x 900mm stroke, fitted with Single Side Guide (Front), Single End Ported RH Side Front.



## Accessories:

K03 Shock Absorber and Mounting Bracket



## Dimensions and performance data

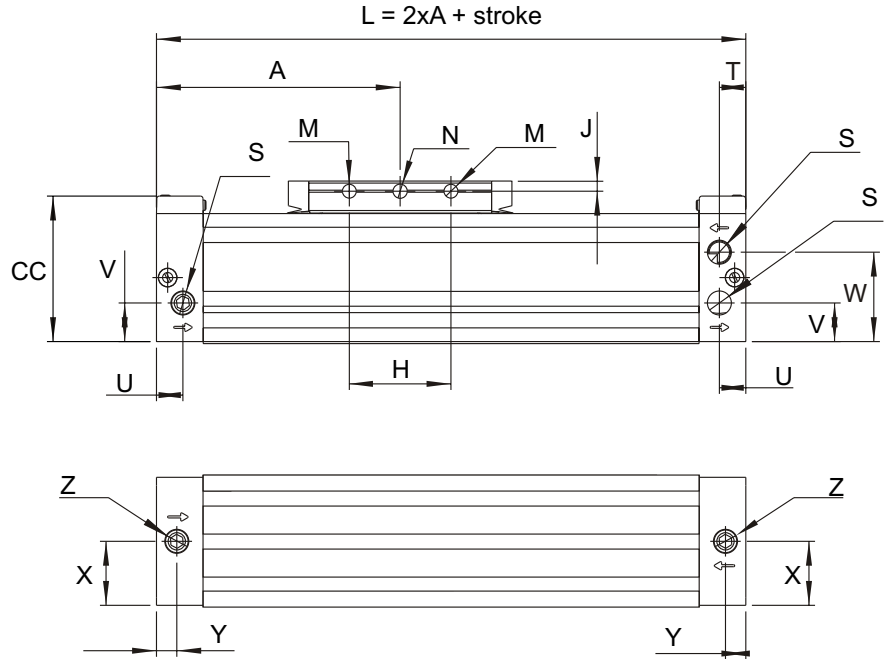
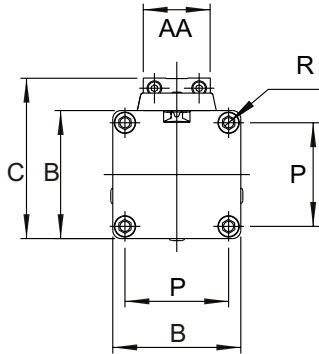
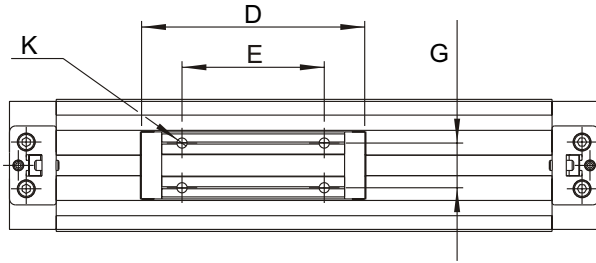
units mm

### KCLC9A Series

Ports marked 'S' are duplicated on rear face of cylinder.

Positions of active ports will depend upon product coding. The remainder will be fitted with blanking plugs.

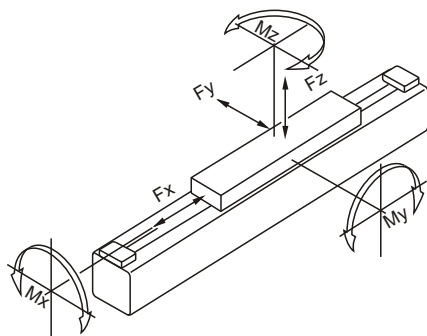
Cushion adjustment always supplied adjacent to port connection as standard.



Cylinder Dia (mm)	A	AA	B	C	CC	D	E	G	H	J	K	ØM	ØN	P	R
18	57.5	15.5	30	39	36.5	58	30	10	15	3.0	M3x7	3.4	3.5	23.5	M3x8
25	67.5	20	42	53	50.2	66	35	13	19	3.5	M4x7	4.4	4.5	33	M4x10
32	77.5	25	52	65	60.2	86	55	16	35	4.5	M5x9	5.3	5.5	41	M5x11
40	95	33	63	79	71.6	110	70	22	50	5.0	M6x10	6.8	7.0	51	M6x13
50	105	42	78	96	86.6	130	70	29	46	6.5	M8x12.5	6.8	7.0	63	M8x13
63	125	54	93	113.5	101.6	153	100	40	70	8.0	M8x15	8.8	9.0	78	M8x13

Cylinder Dia (mm)	Port	Underside Port						
	S	T	U	V	W	X	Y	Z
18	M5	9.5	9.5	9.3	20.7	15	6.5	M5
25	G1/8	7.0	13	13.5	28.5	21	7.0	G1/8
32	G1/8	7.0	7.0	15.5	36.5	26	9.0	G1/8
40	G1/4	13	13	19	44	31.5	10	G1/4
50	G1/4	12	12	21	50	39	12	G1/4
63	G3/8	13	12	23	61.5	46.5	12	G3/8

### Permissible loads on Compact Rodless Cylinder KCLC9A



Cyl. Ø (mm)	Maximum Force @ 0.35m/sec			Maximum Moment (Nm)		
	Fx (N)	Fy (N)	Fz (N)	Mx	My	Mz
18	-	-	90	0.2	1.7	0.2
25	-	-	140	0.4	2.6	0.8
32	-	-	205	0.8	5.0	1.4
40	-	-	345	1.9	10.0	2.6
50	-	-	470	3.5	18.0	4.6
63	-	-	665	5.6	33.0	9.4

## Dimensions and performance data

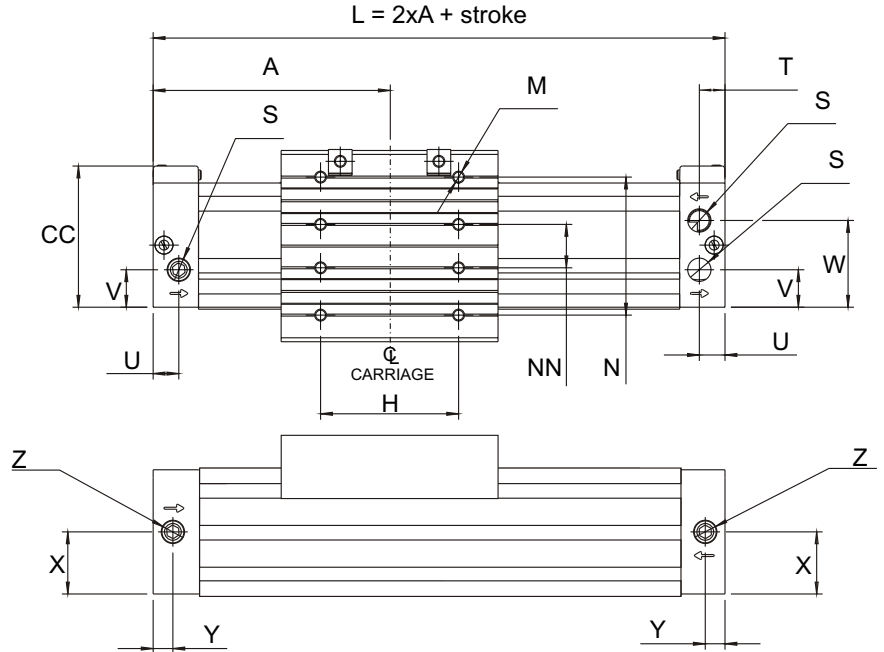
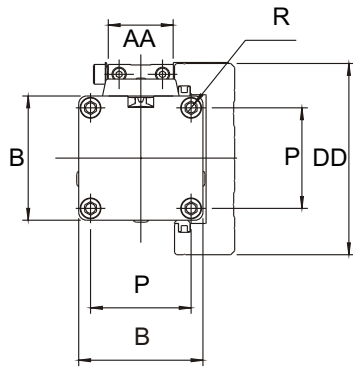
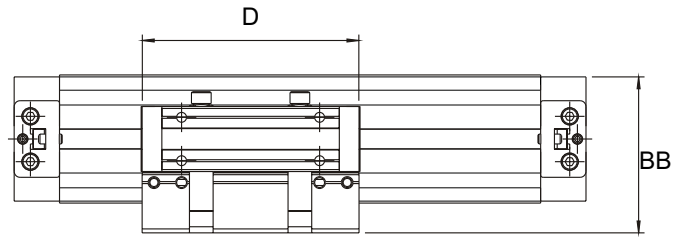
units mm

### KCLC9B Series

Ports marked 'S' are duplicated on rear face of cylinder.

Positions of active ports will depend upon product coding. The remainder will be fitted with blanking plugs.

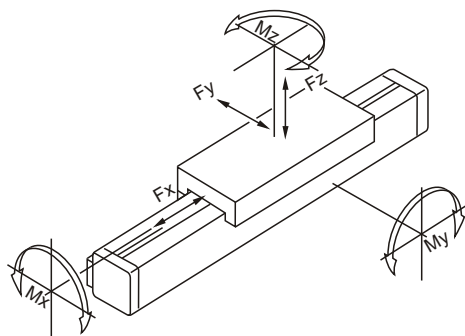
Cushion adjustment always supplied adjacent to port connection as standard.



Cylinder Dia (mm)	A	AA	B	BB	CC	D	DD	H	M	N	NN	P	R	Port S	T
18	57.5	15.5	30	39	36.5	58	50	30	M3x7	35	10	23.5	M3x8	M5	9.5
25	67.5	20	42	53	50.2	66	66	35	M4x7	45	13	33	M4x10	G1/8	7.0
32	77.5	25	52	65	60.2	86	80	55	M5x9	55	16	41	M5x11	G1/8	7.0
40	95	33	63	79	71.6	110	97	70	M6x10	70	22	51	M6x13	G1/4	13
50	105	42	78	96	86.6	130	116	70	M8x12.5	85	29	63	M8x13	G1/4	12
63	125	54	93	113.5	101.6	153	136	100	M8x15	105	40	78	M8x13	G3/8	13

Cylinder Dia (mm)	U	V	W	X	Y	Underside Port Z
18	9.5	9.3	20.7	15	6.5	M5
25	13	13.5	28.5	21	7.0	G1/8
32	7.0	15.5	36.5	26	9.0	G1/8
40	13	19	44	31.5	10	G1/4
50	12	21	50	39	12	G1/4
63	12	23	61.5	46.5	12	G3/8

### Permissible loads on Compact Rodless Cylinder with Slide Bearing KCLC9B



Cyl. Ø (mm)	Maximum Force @ 0.35m/sec			Maximum Moment (Nm)		
	Fx (N)	Fy (N)	Fz (N)	Mx	My	Mz
18	-	65	104	0.8	3.0	3.0
25	-	135	220	1.0	4.8	4.8
32	-	170	272	2.3	10.8	10.8
40	-	365	528	3.6	18.0	18.0
50	-	440	640	6.9	36.0	36.0
63	-	650	890	9.8	60.0	60.0