NEW PULL CAM SAPLC [Overview]

Product Information

Compact design for back angle piercing
Minimal rear space removal and ease of cam slider disassembly

Panel Avoidance Cam





Application Example



For panels that are difficult to process with normal aerial cam units because the application requires to pierce a hole on a back or reverse angle. e.g. body side panels back door panels

SAPLC Assembly Instructions



Option





This product is not for sale in China.

Disassembly

Remove Hexagon Socket Head Bolts ((a)), to pull out Stopper Plate ((b)).
Slide Cam Slider ((b)) back to the corresponding notch placed between ((b)) and ((7)).
Pull up Cam Slider from Cam Holder ((b)).

Assembly

Assembly is the reverse procedure of disassembly.

- Ensure that all parts are clean, particularly the sliding components to which a small amount of lubricant is applied and is then placed in position.
- Take care that the respective tolerances are observed when assembling Cam Slider and Cam Holder, which also should be identified by the same serial number.
- · Make sure that all bolts are tighten to the recommended torque after assembly and disassembly.

Gas Spring

Please contact your local sales representative if you prefer to use a gas spring not specified in our catalog. For use and maintenance of gas spring, please contact the manufacturer directly.

Copyright © Sankyo Oilless Industry, Inc. All Rights Reserved.





SAPLC80







Working 1,000	Force [kN (tonf)]),000 strokes	Catalog No.	w	θ	Spring Type PS
	39.2 (4.0)	SAPLC	80	50~80 (5° increments)	No Code (Coil Spring) GK NGK GD NGD

No Code: Coil Spring GK: Gas Spring (KALLER) GD: Gas Spring (DADCO) NGK/NGD: Without Gas Spring Parts for spring assembly are included.

	Catalog No.	W]-[θ]-[PS]-[Option
	SAPLC	80	_	50				
Order	SAPLC	80	-	50	-	GK	- 1	NF – K

Option	Option Code	Specification				
	NF	Nitrogen gas not charged.				
	К	Key attached.				

Refer to page 377 for the machining details of tapped holes and dowel holes for retainer mounting. Refer to page 595 for key specification.

θ	SS	А	В	С	D	E
50		295	240	163	114.0	156.8
55	40	287	340	159	120.5	160.8
60		279	245	155	132.0	163.8
65	34	270	345	150	140.0	167.8
70	28	260		145	152.5	168.8
75	21	250	350	139	160.0	170.8
80	14	240		133	168.0	169.9

Rear Removal Space



Spring Model

GD

U.0325.050

U.0325.038

U.0325.025

U.0325.019

GK

X320-50

X320-38

X320-25

X320-19

Spring Force

Coil Spring								• Gas S	Spring													
θ		Initial Load		Final	Load	Spring		Final Load														
	33	Ν	kgf	Ν	kgf	Model		Ν	kgf													
50																						
55	40	440.7	45.0	2644.3	260.0	TH30-200		2558.9	261.1													
60					2044.3	2044.3	2044.3	2044.3	2044.0	2044.0	2044.0	2044.5	2044.0	2044.0	2044.0	2044.3	2044.0	2044.0	209.0			
65	34	503.7	51.4			TH30-175		2396.9	244.6													
70	28	587.7	60.0	26446	260.0	TH30-150		2462.5	251.3													
75	21	330.6	33.7	2044.0	209.9	TH30-100		2588.1	264.1													
80	14	587.6	60.0	2644.4	269.8	TH30-75		2427.9	247.7													

Life expectancy of Coil Spring is approximately 300,000 Gas filling pressure: 10 MPa strokes.

598

Refer to page 600 for Table of Components.

597

NEW PULL CAM [Table of Components]

Panel Avoidance Cam

Aerial Cam Unit

SAPLC80

Weight

θ	Cam Slider Weight kg	Total Weight kg
50	00.0	59.3
55	23.2	59.4
60	23.5	59.9
65	23.6	60.3
70	24.3	61.3
75	24.7	62.0
80	25.2	62.7

Cam Diagram





No.	Description	Qty	No.	Description	Qty
1	Cam Driver	1	14	Cam Lower Slider	2
2	Cam Bottom Slide Plate	1	15	Positive Return	2
5	Cam Holder	1	18	Collar	1
6	Cam Upper Plate A	2	20	Coil Spring	1
7	Cam Upper Plate B	2	21	Spring Guide Pin	1
8	Stopper Plate	1	22	Spring Guide Washer	1
9	Stopper	2	20	Gas Spring	1
12	Cam Slider	1	21	Stop Pin	1
13	Cam Bottom Guide Plate	1	22	Spring Stopper	1

Special Cam Units

Bolts, nuts, dowels, and washers for assembly are not indicated.

Copyright © Sankyo Oilless Industry, Inc. All Rights Reserved.

For Pierce

Copyright © Sankyo Oilless Industry, Inc. All Rights Reserved.

600

Cam Units [Overview]

Information

Tapped Hole and Dowel Hole (Prepared Hole, Finish) Machining for Retainer Mounting

Instruction method for machining

Indicate the tapped hole diameter and the dowel hole (or prepared hole) diameter with the XY coordinates.

To indicate the coordinates

- The origin is positioned at the upper left corner of the mount face. (However, machining uses our machining datum as the reference.)
- Indication symbol
- $-\mathbf{M}$...Tapped hole, $-\mathbf{N}$...Dowel prepared hole, $-\mathbf{K}$...Dowel finish hole

Machining standard

- · Tapped holes and dowel prepared holes are machined to general tolerances.
- The hole depth is 2.5 times the diameter for both tapped holes and dowel holes. The dowel pilot hole is processed for 2 times the diameter.
- \cdot The dowel hole spacing is machined to the tolerance of \pm 0.02.The hole tolerance is H7.

(Example of Aerial Cam Unit)





(Example of Die Mounted Cam Unit)





Other machining

Please give instructions on a separate drawing for drilling or cutting other than tapped holes and dowel holes.

