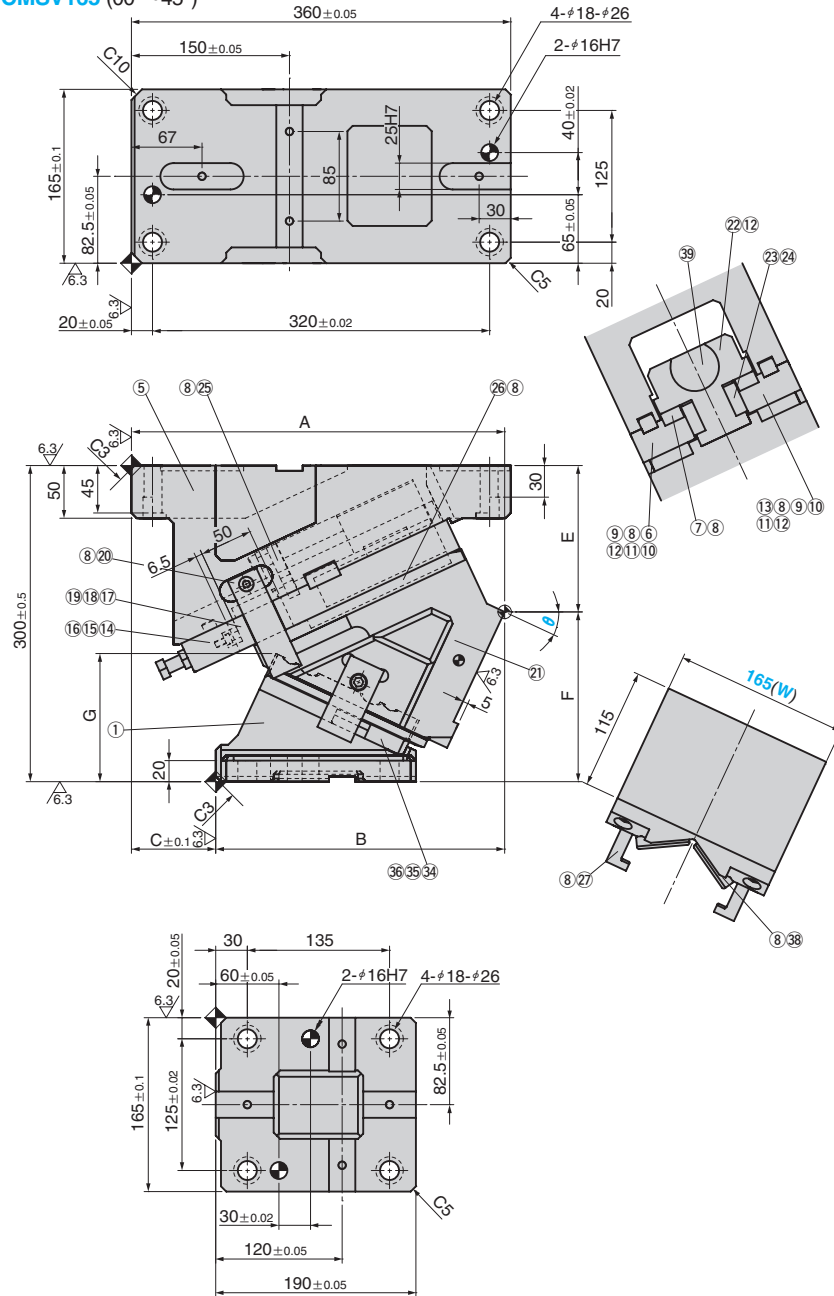


UCMSV165 (00°~45°)



$\theta$	Travel	A	B	C	E	F	G
00	32.1	360.00	210.00	150	95.00	205.00	78
05	35.5	356.25	222.25	134	100.91	199.09	88
10	38.9	359.27	241.27	118	111.09	188.91	95
15	42.4	355.78	244.78	111	122.47	177.53	101
20	46.1	355.68	262.68	93	130.00	170.00	112
25	50.0	354.25	274.25	80	138.92	161.08	122
30	54.3	357.28	287.28	70	148.28	151.72	133
35	59.0	345.80	281.80	64	158.89	141.11	140
40	64.3	344.27	286.27	58	170.38	129.62	148
45	70.4	344.86	304.86	40	182.66	117.34	155

Working Force kN	Catalog No.	(W)	$\theta$	Spring Type PS
			00	
			05	
			10	
			15	GS
			20	GK
			25	GD
			30	*NGP
			35	
			40	
			45	

Mark \* Without gas spring but accessories for installation of each type are included.

Order **Catalog No.** (W) -  $\theta$  - PS  
**UCMSV 165 - 25 - GK**

Spring Specification (Qty 1)

Spring Type PS	$\theta$	Spring Force N			Gas Spring Catalog No.
		F <sub>A</sub>	F <sub>E</sub>	F <sub>AP</sub>	
GS	00~45	7500	12150	11190	SFC.750.63 (SANKYO)
GK	00~45	7400	11800	10892	X750-063-TD (KALLER)
GD	00~45	7320	11360	10526	U.0800.063 (DADCO)

NOTE

- F<sub>A</sub> :Initial Force
- F<sub>E</sub> :Final Force
- F<sub>AP</sub> :Force at working point

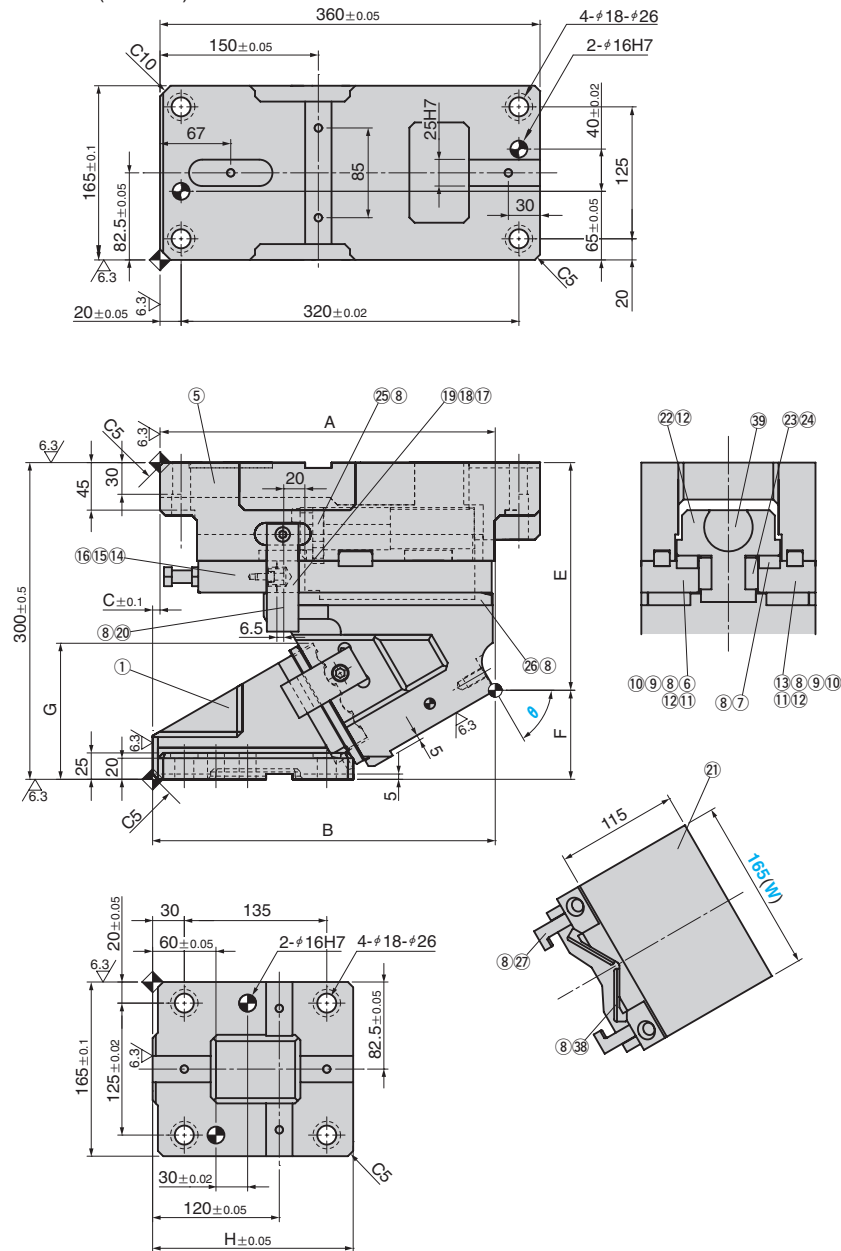
Option

Code	Specification
LA	without accelerator
K	with key
NF	without nitrogen gas

- Parts list is shown in p.1521
- Detail of key is shown in p.1520
- Cam diagram is shown in p.1519
- NF : Gas Springs are not filled with nitrogen gas if delivery is by air freight.

Order **UCMSV165 - 25 - GK - NF**

UCMSV165 (50°~75°)



$\theta$	Travel	A	B	C	E	F	G	S	H
50	77.8	327.27	317.27	10	195.63	104.37	142	50	
55	61.0	324.39	324.39	0	210.20	89.80	128	35	190
60	40.0	317.59	324.59	-7	215.63	84.37	129		
65	47.3	314.23	329.23	-15	231.40	68.60	133	20	
70	58.5	308.07	333.07	-25	245.67	54.33	133		200
75	58.0	301.08	336.08	-35	260.24	39.76	133	15	

Working Force kN	Catalog No.	(W)	$\theta$	Spring Type PS
171	UCMSV	165	50	
			55	GS
			60	GK
			65	GD
			70	*NGP
			75	

Mark \*  
Without gas spring but accessories for installation of each type are included.

Order **Catalog No.** (W) -  $\theta$  - PS  
**UCMSV 165 - 60 - GK**

Spring Specification (Qty 1)

Spring Type PS	$\theta$	Spring Force N			Gas Spring Catalog No.
		F <sub>A</sub>	F <sub>E</sub>	F <sub>AP</sub>	
GS	50	7500	12150	11190	SFC.750.63 (SANKYO)
	55			10755	SFC.750.50 (SANKYO)
	60~70			9947	SFC.750.38 (SANKYO)
	75			9336	
GK	50	7400	11800	10892	X750-063-TD (KALLER)
	55			10480	X750-050-TD (KALLER)
	60~70			9716	X750-038-TD (KALLER)
	75			9137	
GD	50	7320	11360	10526	U.0800.063 (DADCO)
	55			10148	U.0800.050 (DADCO)
	60~70			9446	U.0800.038 (DADCO)
	75			8915	

NOTE  
 F<sub>A</sub> :Initial Force  
 F<sub>E</sub> :Final Force  
 F<sub>AP</sub> :Force at working point

Option	Code	Specification
	<b>K</b>	with key
	<b>NF</b>	without nitrogen gas

Order **UCMSV165 - 60 - GK - NF**

- Parts list is shown in p.1521
- Detail of key is shown in p.1520
- Cam diagram is shown in p.1519
- NF : Gas Springs are not filled with nitrogen gas if delivery is by air freight.



## Aerial Cam Unit Table of Components

## FOR PIERCE AND FLANGE

■  $\theta = 00^\circ \sim 45^\circ$ 

No.	Description	Qty	Material and Remark
①	Cam Driver	1	GGG60
③	Hexagon Socket Head Bolt	2	SCM435 M10×30
⑤	Cam Holder	1	GGG60
⑥	Base Plate R	1	S45C
⑦	Wear Plate	2	Bronze with Graphite
⑧	Hexagon Socket Head Bolt	16	SCM435 M8×20
⑨	Key	4	SS400
⑩	Hexagon Socket Head Bolt	4	SCM435 M6×20
⑪	Key	2	SS400
⑫	Hexagon Socket Head Bolt	6	SCM435 M16×45
⑬	Base Plate L	1	S45C
⑭	Stopper Plate	1	SS400
⑮	Stopper	1	Urethane (PCU20)
⑯	Hexagon Socket Head Bolt	2	SCM435 M8×30
⑰	Lock Block	1	SS400
⑱	Hexagonal Bolt	2	SCM435 M12×140
⑲	Hexagonal Nut	2	SCM435 M12
⑳	Saftey Plate	2	S45C
㉑	Cam Slider	1	GGG60
㉒	Spring Guide	1	S45C
㉓	Slide Plate(VSM-13)	4	Bronze with Graphite
㉔	Hexagon Socket Head Bolt	4	SCM435 M8×15
㉕	Gas Spring Guide Plate	1	SS400
㉖	Slide Plate(VSM-20)	2	Bronze with Graphite
㉗	Cam Positive Return Plate	2	S45C
㉘	Cam Slide Guide	1	S45C
㉙	Hexagon Socket Head Bolt	2	SCM435 M10×35
㉚	Dowel Pin with Female Thread	2	SUJ2 $\phi 10 \times 40$
㉛	Hexagon Socket Head Bolt	2	SCM435 M8×60
㉜	Slide Plate(VSM-24)	2	Bronze with Graphite
㉝	Gas Spring	1	
㉞	Key	8	SS400

■  $\theta = 50^\circ \sim 75^\circ$ 

No.	Description	Qty	Material and Remark
①	Cam Driver	1	GGG60
③	Hexagon Socket Head Bolt	2	SCM435 M10×30
⑤	Cam Holder	1	GGG60
⑥	Base Plate R	1	S45C
⑦	Wear Plate	2	Bronze with Graphite
⑧	Hexagon Socket Head Bolt	16	SCM435 M8×20
⑨	Key	4	SS400
⑩	Hexagon Socket Head Bolt	4	SCM435 M6×20
⑪	Key	2	SS400
⑫	Hexagon Socket Head Bolt	6	SCM435 M16×45
⑬	Base Plate L	1	S45C
⑭	Stopper Plate	1	S45C
⑮	Stopper	1	Urethane (PCU15)
⑯	Hexagon Socket Head Bolt	2	SCM435 M8×25
⑰	Lock Block	1	SS400
⑱	Hexagonal Bolt	2	SCM435 M12×140
⑲	Hexagonal Nut	2	SCM435 M12
⑳	Saftey Plate	2	S45C
㉑	Cam Slider	1	GGG60
㉒	Spring Guide	1	S45C
㉓	Slide Plate(VSM-13)	2	Bronze with Graphite
㉔	Hexagon Socket Head Bolt	4	SCM435 M8×15
㉕	Gas Spring Guide Plate	1	S45C
㉖	Slide Plate(VSM-20)	2	Bronze with Graphite
㉗	Cam Positive Return Plate	2	S45C
㉘	Cam Slide Guide	1	S45C
㉙	Hexagon Socket Head Bolt	2	SCM435 M10×35
㉚	Dowel Pin with Female Thread	2	SUJ2 $\phi 10 \times 40$
㉛	Hexagon Socket Head Bolt	2	SCM435 M8×60
㉜	Slide Plate(VSM-23)	2	Bronze with Graphite
㉝	Gas Spring	1	
㉞	Key	8	SS400