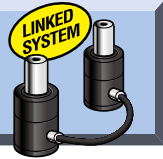




# Газовые пружины

— Тип GSV —

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**RoHS** **GSV**

Please inquire separately when using GSV 170 - 320 with piping.  
If a gas spring is used in excess of the specified stroke range S, it may cause gas leakage.  
Use the gas spring within the specified stroke range to avoid the Relief bushing is pushed down. **P.1448**

\*1 The mounting taps (Ma) for the GSV170/320 also operate as gas exhaust vents. Screwing in the mounting screws to a depth that exceeds that of the tap may cause of gas leakage.

GSV 170 - 320

GSV 350 GSV 750~1500 GSV 500 GSV 2400~12000

Do not use the screw hole to fix the gas spring with a bolt nor to install an extension pin. **P.1444**

Relief bush **P.1448**

Nitrogen gas charge pressure	MPa(kgf/cm <sup>2</sup> )
GSV 170~350	18(183.5)
GSV 500~20000	15(153)

① Cylinder body M Equivalent to SCM440 S Black oxide (Fe<sub>3</sub>O<sub>4</sub>)  
② Piston rod H Equivalent to SCM440 H 600HV ~ (Surface) N Nitriding + Barrel finishing

Weight (kg)	D	D <sub>i</sub>	d	L	H	e	R	T	F	G	Ma Tap hole for mounting	J	Q	C	Load N (kgf)		Catalog No.	Adaptable plate	
															Initial load	Maximum load		Type	Initial load - S
0.06	19	17	11	44	37	17	1	6	-	-	1-M6x6	-	1	M6	1700 [173]	2800 [286]	FCC19	170 - 7	-
0.06				50	40											2800 [286]	FCC19	170 - 10	
0.07				60	45											2800 [286]	FCC19	170 - 15	
0.07				68	49											2800 [286]	FCC19	170 - 19	
0.08				80	55											2800 [286]	FCC19	170 - 25	
0.09				106	68											2800 [286]	FCC19	170 - 38	
0.11				130	80											2800 [286]	FCC19	170 - 50	
0.12				156	93											2800 [286]	FCC19	170 - 63	
0.14				185	110											2800 [286]	FCC19	170 - 75	
0.15				195	115											2800 [286]	FCC19	170 - 80	
0.17				235	135											2800 [286]	FCC19	170 - 100	
0.19				285	160											2800 [286]	FCC19	170 - 125	
0.10	25	23	15	44	37	17	1	6	-	-	1-M6x6	-	1	M6	3200 [326]	4800 [488]	FCC25	320 - 7	-
0.10				50	40											4900 [500]	FCC25	320 - 10	
0.11				60	45											5100 [520]	FCC25	320 - 15	
0.12				68	49											5100 [520]	FCC25	320 - 19	
0.13				80	55											5200 [530]	FCC25	320 - 25	
0.15				106	68											5300 [540]	FCC25	320 - 38	
0.17				130	80											5300 [540]	FCC25	320 - 50	
0.19				156	93											5300 [540]	FCC25	320 - 63	
0.22				185	110											5300 [540]	FCC25	320 - 75	
0.23				195	115											5300 [540]	FCC25	320 - 80	
0.26				235	135											5300 [540]	FCC25	320 - 100	
0.30				285	160											5300 [540]	FCC25	320 - 125	
0.16	32	27	16	50	40	12.5	1.05	6	4	3.5	2-M6x6	20	2	M6	3600 [367]	5900 [602]	FFC32	350 - 10	FSA32
0.17				56	43											5200 [530]	FFC32	350 - 13	
0.18				62	46											5300 [540]	FFC32	350 - 16	
0.19				68	49											5600 [571]	FFC32	350 - 19	
0.21				80	55											5500 [561]	FFC32	350 - 25	
0.23				94	62											5500 [561]	FFC32	350 - 32	
0.25				106	68											5500 [561]	FFC32	350 - 38	
0.29				130	80											5500 [561]	FFC32	350 - 50	
0.33				156	93											5500 [561]	FFC32	350 - 63	
0.36				180	105											5500 [561]	FFC32	350 - 75	
0.38				190	110											5500 [561]	FFC32	350 - 80	
0.44				230	130											5500 [561]	FFC32	350 - 100	
0.51	280	155	5500 [561]	FFC32	350 - 125														
0.24	38	33	20	50	40	12.5	1.05	6	4	3.5	2-M6x6 (φ 20) or 2-M6x6 (φ 25)	-	2	M6	4700 [479]	7200 [734]	FFC38	500 - 10	FSA38
0.25				56	43											7100 [724]	FFC38	500 - 13	
0.26				62	46											7200 [734]	FFC38	500 - 16	
0.28				68	49											7400 [755]	FFC38	500 - 19	
0.31				80	55											7300 [744]	FFC38	500 - 25	
0.34				94	62											7200 [734]	FFC38	500 - 32	
0.37				106	68											7200 [734]	FFC38	500 - 38	
0.42				130	80											7200 [734]	FFC38	500 - 50	
0.48				156	93											7200 [734]	FFC38	500 - 63	
0.54				180	105											7100 [724]	FFC38	500 - 75	
0.56				190	110											7100 [724]	FFC38	500 - 80	
0.66				230	130											7100 [724]	FFC38	500 - 100	
0.77	280	155	7100 [724]	FFC38	500 - 125														
0.36	45	40	25	52	42	16.5	1.05	6	4	3.5	2-M8x6	20	2	M6	7400 [755]	12100 [1234]	FB45	750 - 10	FSA45
0.38				58	45											12100 [1234]	FB45	750 - 13	
0.39				64	48											12100 [1234]	FB45	750 - 16	
0.41				70	51											11700 [1193]	FB45	750 - 19	
0.45				82	57											11800 [1203]	FB45	750 - 25	
0.50				96	64											11800 [1203]	FB45	750 - 32	
0.54				108	70											11800 [1203]	FB45	750 - 38	
0.61				132	82											11800 [1203]	FB45	750 - 50	
0.70				158	95											11800 [1203]	FB45	750 - 63	
0.77				182	107											11900 [1213]	FB45	750 - 75	
0.81				192	112											11900 [1213]	FB45	750 - 80	
0.93				232	132											11900 [1213]	FB45	750 - 100	
1.10	282	157	11900 [1213]	FB45	750 - 125														

Weight (kg)	D	D <sub>i</sub>	d	L	H	e	R	T	F	G	Ma Tap hole for mounting	J	Q	C	Load N (kgf)		Catalog No.	Adaptable plate	
															Initial load	Maximum load		Type	Initial load - S
0.49	50	43	28	58	48	17.5	2.05	6	8	5	2-M8x6	20	3	M6	9200 [938]	13800 [1407]	1000 - 10	FSA50	
0.51				64	51											13800 [1407]	1000 - 13		
0.54				70	54											13800 [1407]	1000 - 16		
0.56				76	57											14000 [1428]	1000 - 19		
0.61				88	63											14200 [1448]	1000 - 25		
0.67				102	70											14300 [1458]	1000 - 32		
0.71				114	76											14500 [1479]	1000 - 38		
0.81				138	88											14600 [1489]	1000 - 50		
0.91				164	101											14700 [1499]	1000 - 63		
1.05				188	113											14700 [1499]	1000 - 75		
1.09				198	118											14800 [1509]	1000 - 80		
1.21				238	138											14800 [1509]	1000 - 100		
1.41	288	163	14800 [1509]	1000 - 125															
0.92	63	56	36	70	57	19	2.05	6	8	5	2-M8x6	20	3	M6	15000 [1530]	24000 [2447]	1500 - 12	FSA63	
0.96				76	60											24100 [2458]	1500 - 16		
0.99				82	63											24200 [2468]	1500 - 19		
1.06				94	69											24300 [2478]	1500 - 25		
1.14				108	76											23800 [2427]	1500 - 32		
1.21				120	82											23900 [2437]	1500 - 38		
1.35				144	94											24000 [2447]	1500 - 50		
1.51				170	107											24100 [2458]	1500 - 63		
1.65				194	119											24200 [2468]	1500 - 75		
1.71				204	124											24200 [2468]	1500 - 80		
1.94				244	144											24300 [2478]	1500 - 100		
2.23				294	169											24300 [2478]	1500 - 125		
1.36	75	67	45	77	61	21	2.55	6	8	5	4-M8x6	40	3	M6	24000 [2447]	38300 [3906]	2400 - 16	FSA75	
1.40				83	64											38500 [3926]	2400 - 19		
1.50				95	70											38700 [3946]	2400 - 25		
1.61				109	77											38600 [3936]	2400 - 32		
1.70				121	83											38400 [3916]	2400 - 38		
1.89				145	95											38500 [3926]	2400 - 50		
2.09				171	108											39200 [3987]	2400 - 63		
2.28				195	120											39200 [3987]	2400 - 75		
2.36				205	125											39200 [3987]	2400 - 80		
2.67				245	145											39300 [4007]	2400 - 100		
3.07				295	170											39300 [4007]	2400 - 125		
2.76				95	87											60	90		74
2.83	96	77	63700 [6496]			4200 - 19													
2.98	108	83	60800 [6200]			4200 - 25													
3.16	122	90	64300 [6557]			4200 - 32													
3.30	134	96	65800 [6710]			4200 - 38													
3.60	158	108	67000 [6832]			4200 - 50													
3.93	184	121	67800 [6914]			4200 - 63													
4.20	208	133	68000 [6934]			4200 - 75													
4.35	218	138	68600 [6995]			4200 - 80													
4.85	258	158	69100 [7046]			4200 - 100													
5.47	308	183	69600 [7097]			4200 - 125													
5.06	120	112	75			100	84	25.5	2.55	10.5	8	5	4-M10x13	80	3		G1/8	66000 [6730]	91000 [9279]
5.17				106	87	91000 [9279]	6600 - 25												
5.42				118	93	93900 [9575]	6600 - 32												
5.69				132	100	96100 [9799]	6600 - 38												
5.93				144	106	98200 [10014]	6600 - 50												
6.40				168	118	100600 [10258]	6600 - 63												
6.90				200	131	102400 [10442]	6600 - 75												
7.40				218	143	103400 [10544]	6600 - 80												
7.60				228	148	104100 [10615]	6600 - 100												
8.40				268	168	105400 [10748]	6600 - 125												
9.40				318	193	106500 [10860]	6600 - 150												
9.51				116	97	135000 [13768]	9500 - 19												
9.90	128	103	139000 [14174]	9500 - 25															
10.30	142	110	142000 [14480]	9500 - 32															
10.70	154	116	143000 [14582]	9500 - 38															
11.40	178	128	146000 [14888]	9500 - 50															
12.20	204	141	148000 [15092]	9500 - 63															
13.00	228	153	149000 [15194]	9500 - 75															
13.30	238	158	150000 [15296]	9500 - 80															
14.60	278	178	151000 [15398]	9500 - 100															
16.10	328	203	152000 [15500]	9500 - 125															
9.57	150	142	90	116	97	27.5	2.55	10.5	8	5	4-M10x13	100	3	G1/8	95400 [9728]	158500 [16261]	12000 - 19	FSA150	