



# GAS SPRINGS

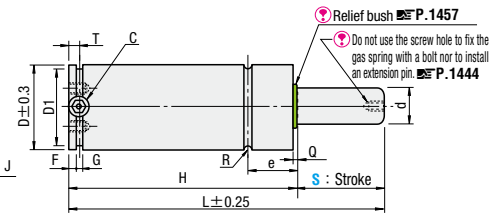
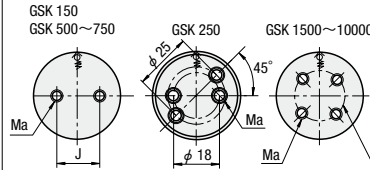
— GSK —



RoHS

GSK

⚠ 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.1457**



Nitrogen gas charge pressure	MPa(kgf/cm <sup>2</sup> )
GSK 150~10000	15(153)

Cylinder body  
**M** Equivalent to SCM440  
**S** Black oxide (Fe<sub>3</sub>O<sub>4</sub>)

Piston rod  
**M** Equivalent to SCM440  
**H** 600HV ~ (Surface)  
**S** Nitriding+Barrel finishing

Weight (kg)	D	D <sub>1</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	
0.28	32	27	12	70	60	12.5	1	6	4	3.5	2—M6×8	18	2	M6	1700 (173)	1700 (173)	150—10	FSA32 FSD32 FFC32 FFCA32 FCQ32 FC32	FSA32 FSD32 FDB32 FBA32 FBB32 FFC32 FFCA32 FCQ32 FC32
0.29				75.4	62.7											1700 (173)	150—12.7		
0.30				82	66											1800 (184)	150—16		
0.33				100	75											1800 (184)	150—25		
0.36				126	88											1900 (194)	150—38		
0.40				150	100											1900 (194)	150—50		
0.44				177	113.5											1900 (194)	150—(63)		
0.49				210	130											1900 (194)	150—80		
0.55				250	150											2000 (204)	150—100		
0.64				300	175											2000 (204)	150—125		
0.40	38	33	15	70	60	12.5	1	6	4	3.5	2—M6×8	—	2	M6	2600 (265)	3500 (357)	250—10	FSA38 FSD38 FFC38 FFCA38 FT38 FTP38 FCQ38 FC38	FSA38 FSD38 FDB38 FBA38 FBB38 FFC38 FFCA38 FCQ38 FC38
0.41				75.4	62.7											3500 (357)	250—12.7		
0.43				82	66											3500 (357)	250—16		
0.45				88	69											3500 (357)	250—19		
0.48				100	75											3500 (357)	250—25		
0.54				126	88											3500 (357)	250—38		
0.60				150	100											3500 (357)	250—50		
0.66				177	113.5											3500 (357)	250—(63)		
0.74				210	130											3500 (357)	250—80		
0.81				250	150											3500 (357)	250—100		
0.98	300	175	3500 (357)	250—125															
0.90	45	40	20	105	95	16.5	1	10.5	4	3.5	2—M8×13	20	2	G1/8	4700 (479)	6000 (612)	500—10	FSA45 FSD45 FBA45 FBB45 FFC45 FFCA45 FTP45 FCQ45 FC45	FSA45 FSD45 FDB45 FBA45 FBB45 FFC45 FFCA45 FCQ45 FC45
1.00				110.4	97.7											6100 (622)	500—12.7		
1.09				135	110											6400 (653)	500—25		
1.20				161	123											6500 (663)	500—38		
1.29				185	135											6600 (673)	500—50		
1.38				212	148.5											6600 (673)	500—(63)		
1.50				245	165											6700 (684)	500—80		
1.64				285	185											6700 (684)	500—100		
1.85				335	210											6700 (684)	500—125		
2.10				405	245											6700 (684)	500—160		
1.28	50	43	25	120.4	107.7	17.5	2	10.5	8	5	2—M8×13	20	3	G1/8	7400 (755)	12000(1224)	750—12.7	FSA50 FSD50 FBA50 FBB50 FFC50 FFCA50 FTP50 FCQ50 FC50	FSA50 FSD50 FDB50 FBA50 FBB50 FFC50 FFCA50 FCQ50 FC50
1.38				145	120											12000(1224)	750—25		
1.48				171	133											12000(1224)	750—38		
1.58				195	145											12000(1224)	750—50		
1.69				222	158.5											12000(1224)	750—(63)		
1.82				255	175											12000(1224)	750—80		
1.99				295	195											12000(1224)	750—100		
2.19				345	220											12100(1235)	750—125		
2.52				415	255											12100(1235)	750—160		
2.92				495	295											12100(1235)	750—200		
3.40	595	345	12100(1235)	750—250															
3.90	695	395	12100(1235)	750—300															

⚠ Catalog No. S (63) → Actual stroke is 63.5  
 ⚠ The initial load and maximum load vary depending on the temperature and operation speed. The load error is ± 10%.  
 ● Load (kgf) = Load N × 0.101972 ● Load (N) = Load kgf × 9.80665 ● Nitrogen gas charge pressure  $\text{kgf/cm}^2 = \text{MPa} \times 10.1972$   $\text{MPa} = \text{kgf/cm}^2 \times 0.0980665$

Weight (kg)	D	D <sub>1</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	
3.26	75	67	36	135	122	21	2.5	10.5	8	5	4—M8×13	40	3	G1/8	15300 (1560)	23000 (2345)	1500—13	FSA75 FSD75 FBA75 FBB75 FFC75 FFCA75 FT75 FTP75 FCQ75 FC75	FSA75 FSD75 FDB75 FBA75 FBB75 FFC75 FFCA75 FCQ75 FC75
3.47				160	135											23000 (2347)	1500—25		
3.66				186	148											23000 (2347)	1500—38		
3.84				210	160											23000 (2347)	1500—50		
4.05				237	173.5											23000 (2347)	1500—(63)		
4.30				270	190											23000 (2347)	1500—80		
4.60				310	210											23000 (2347)	1500—100		
4.98				360	235											23000 (2347)	1500—125		
5.51				430	270											23000 (2347)	1500—160		
6.14				510	310											23000 (2347)	1500—200		
7.10	610	360	23000 (2347)	1500—250															
8.05	710	410	23000 (2347)	1500—300															
5.65	95	87	50	145	132	24	2.5	10.5	8	5	4—M8×13	60	3	G1/8	29450 (3003)	42000 (4283)	3000—13	FSA95 FSD95 FBA95 FBB95 FFC95 FFCA95 FT95 FTP95 FCQ95 FC95	FSA95 FSD95 FDB95 FBA95 FBB95 FFC95 FFCA95 FCQ95 FC95
6.00				170	145											42000 (4286)	3000—25		
6.29				196	158											43000 (4388)	3000—38		
6.57				220	170											44000 (4490)	3000—50		
6.09				247	183.5											45000 (4592)	3000—(63)		
7.30				280	200											46000 (4694)	3000—80		
7.78				320	220											47000 (4796)	3000—100		
8.38				370	245											47000 (4796)	3000—125		
9.22				440	280											47000 (4796)	3000—160		
10.19				520	320											48000 (4898)	3000—200		
11.40	620	370	48000 (4898)	3000—250															
12.84	720	420	48000 (4898)	3000—300															
11.07	120	112	65	190	165	25.5	2.5	10.5	8	5	4—M10×16	80	3	G1/8	49800 (5078)	71000 (7245)	5000—25	FSA120 FSD120 FBA120 FBB120 FFC120 FFCA120 FT120 FTP120 FCQ120 FC120	FSA120 FSD120 FDB120 FBA120 FBB120 FFC120 FFCA120 FCQ120 FC120
11.60				216	178											75000 (7653)	5000—38		
12.08				240	190											77000 (7857)	5000—50		
12.70				267	203.5											80000 (8163)	5000—(63)		
13.28				300	220											81000 (8265)	5000—80		
14.08				340	240											82000 (8367)	5000—100		
15.10				390	265											82000 (8367)	5000—125		
16.50				460	300											83000 (8469)	5000—160		
18.10				540	340											84000 (8571)	5000—200		
20.10				640	390											84000 (8571)	5000—250		
22.12	740	440	84000 (8571)	5000—300															
19.10	150	142	80	205	180	27.5	2.5	10.5	8	7	4—M10×16	100	3	G1/8	75400 (7689)	105000(10714)	7500—25	FSA150 FSD150 FBA150 FBB150 FFC150 FFCA150 FT150 FTP150 FCQ150 FC150	FSA150 FSD150 FDB150 FBA150 FBB150 FFC150 FFCA150 FCQ150 FC150
19.95				231	193											110000(11224)	7500—38		
20.70				255	205											113000(11531)	7500—50		
21.50				282	218.5											115000(11735)	7500—(63)		
22.50				315	235											117000(11939)	7500—80		
23.70				355	255											119000(12143)	7500—100		
25.20				405	280											121000(12347)	7500—125		
27.40				475	315											122000(12449)	7500—160		
29.80				555	355											123000(12551)	7500—200		
32.90				655	405											124000(12653)	7500—250		
35.90	755	455	124000(12653)	7500—300															
35.09	195	187	95	210	185	33.5	2.5	10.5	8	8	4—M12×16	120	3	G1/8	106000 (10809)	138000(14082)	10000—25	FBA195 FBB195 FFC195 FFCA195 FT195 FTP195 FCQ195 FC195	FBA195 FDB195 FBA195 FBB195 FFC195 FFCA195 FCQ195 FC195
36.55				236	198											143000(14592)	10000—38		
37.89				260	210											147000(15000)	10000—50		
39.40				287	223											150000(15306)	10000—(63)		
41.24				320	240											152000(15510)	10000—80		
43.48				360	260											156000(15918)	10000—100		
46.28				410	285											157000(16020)	10000—125		
50.12				480	320											158000(16122)	10000—160		
55.15				560	360											160000(16327)	10000—200		
61.85				660	410											160000(16327)	10000—250		
68.54	760	460	160000(16327)	10000—300															

### Gas spring temperature range

The operating environment temperature range is 0~40°C. Ensure that the surface temperature of the gas spring does not exceed 70°C.



Days to Ship

Quotation



Order

Catalog No.

GSK 750—50



Price

Quotation