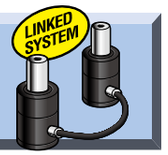
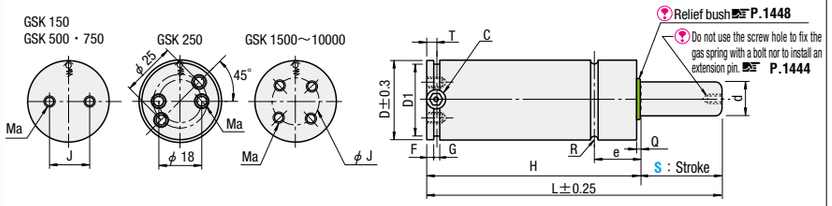


RoHS

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 Relicef bushing is pushed down. P.1448



Nitrogen gas charge pressure	MPa(kgf /cm²)
GSK 150～10000	15(153)

Cylinder body
- M Equivalent to SCM440
- S Black oxide (Fe_3O_4)

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

Weight (kg)	D	D_1	d	L	H	e	R	T	F	G	Ma Tap hole for mounting	J	Q	C	Load N (kgf) Initial load	Load N (kgf) Maximum load	Catalog No. Type	Catalog No. Initial load—S	Adaptable plate Vertical	Adaptable plate Horizontal
0.28	32	27	12	70	60	12.5	1	6	4	3.5	2— M6×8	18	2	M6	1700 {173}	1870 {191}	GSK	150— 10	FFC32 FFCA32 FCQ32 FC32	FSA32 FSD32
0.29				75.4	62.7											1900 {194}		150— 12.7		
0.30				82	66											1920 {196}		150— 16		
0.33				100	75											1970 {201}		150— 25		
0.36				126	88											2000 {204}		150— 38		
0.40				150	100											2030 {207}		150— 50		
0.44				177	113.5											2040 {208}		150— (63)		
0.49				210	130											2050 {209}		150— 80		
0.55				250	150											2070 {211}		150— 100		
0.64				300	175											2080 {212}		150— 125		
0.40	38	33	15	70	60	12.5	1	6	4	3.5	2— M6×8 (for φ18) or 2— M6×8 (for φ25)	—	2	M6	2600 {265}	3500 {357}		250— 10	FFC38 FFCA38 FT38 FTP38 FCQ38 FC38	FSA38 FSD38
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	FB45 FBA45 FBB45 FFC45 FFCA45 FT45 FTP45 FCQ45 FC45	FSA45 FSD45
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 {683}		500— 80		
1.64				285	185											6700 {683}		500— 100		
1.85				335	210											6700 {683}		500— 125		
2.10				405	245											6700 {683}		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	FB50 FBA50 FBB50 FFC50 FFCA50 FT50 FTP50 FCQ50 FC50	FSA50 FSD50
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 {1234}		750— 125		
2.52				415	255											12100 {1234}		750— 160		
2.92				495	295											12100 {1234}		750— 200		
3.40				595	345											12100 {1234}		750— 250		
3.90				695	395											12100 {1234}		750— 300		

Catalog No.S (63)→ Actual stroke is 63.5
The initial load {±10%} is value at 20℃ . The maximum load is theoretical value under static condition. Load depends on temperature.
●Load {kgf} = Load N×0.101972 ●Load {N} = Load kgf×9.80665 ●Nitrogen gas charge pressure kgf/cm² = MPa×10.1972 MPa = kgf/cm²×0.0980665

Weight (kg)	D	D_1	d	L	H	e	R	T	F	G	Ma Tap hole for mounting	J	Q	C	Load N (kgf) Initial load	Load N (kgf) Maximum load	Catalog No. Type	Catalog No. Initial load—S	Adaptable plate Vertical	Adaptable plate Horizontal
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}	GSK	1500— 13	FB75 FBA75 FBB75 FFC75 FFCA75 FT75 FTP75 FCQ75 FC75	FSA75 FSD75
3.47				160	135											23000 {2345}		1500— 25		
3.66				186	148											23000 {2345}		1500— 38		
3.84				210	160											23000 {2345}		1500— 50		
4.05				237	173.5											23000 {2345}		1500— (63)		
4.30				270	190											23000 {2345}		1500— 80		
4.60				310	210											23000 {2345}		1500— 100		
4.98				360	235											23000 {2345}		1500— 125		
5.51				430	270											23000 {2345}		1500— 160		
6.14				510	310											23000 {2345}		1500— 200		
7.10				610	360											23000 {2345}		1500— 250		
8.05				710	410											23000 {2345}		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	FB95 FBA95 FBB95 FFC95 FFCA95 FT95 FTP95 FCQ95 FC95	FSA95 FSD95
6.00				170	145											42000 {4283}		3000— 25		
6.29				196	158											43000 {4385}		3000— 38		
6.57				220	170											44000 {4487}		3000— 50		
6.09				247	183.5											45000 {4589}		3000— (63)		
7.30				280	200											46000 {4691}		3000— 80		
7.78				320	220											47000 {4793}		3000— 100		
8.38				370	245											47000 {4793}		3000— 125		
9.22				440	280											47000 {4793}		3000— 160		
10.19				520	320											48000 {4895}		3000— 200		
11.40				620	370											48000 {4895}		3000— 250		
12.84				720	420											48000 {4895}		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 {7240}		5000— 25	FB120 FBA120 FBB120 FFC120 FFCA120 FT120 FTP120 FCQ120 FC120	FSA120 FSD120
11.60				216	178											75000 {7648}		5000— 38		
12.08				240	190											77000 {7852}		5000— 50		
12.70				267	203.5											80000 {8158}		5000— (63)		
13.28				300	220											81000 {8260}		5000— 80		
14.08				340	240											82000 {8362}		5000— 100		
15.10				390	265											82000 {8362}		5000— 125		
16.50				460	300											83000 {8464}		5000— 160		
18.10				540	340											84000 {8566}		5000— 200		
20.10				640	390											84000 {8566}		5000— 250		
22.12				740	440											84000 {8566}		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	FB150 FBA150 FBB150 FFC150 FFCA150 FT150 FTP150 FCQ150 FC150	FSA150 FSD150
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	FB195 FBA195 FBB195 FFC195 FFCA195 FT195 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

Please ensure that the surface temperature of the gas spring does not exceed 80℃.

Order — Catalog No. GSK 1500—50

Days to Ship — Quotation

Price — Quotation

Alterations — Catalog No. — (N)
GSK1500—25 — N

Alteration	Code	Spec.
For piping gas releasing	N	For piping, we ship inside gas and valve and pull out. Reduce labor of assembling joints and hoses.