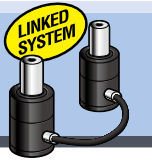




GAS SPRINGS

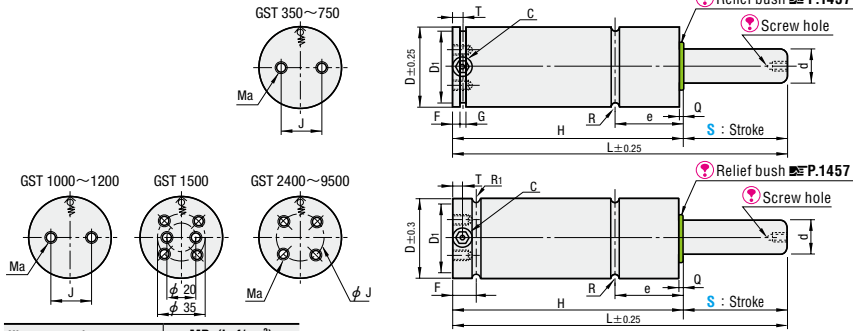
— GST —



RoHS

GST

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



Nitrogen gas charge pressure	MPa(kgf/cm ²)
GST 350	18(183.5)
GST 500~1000	15(153)
GST 1200	17(173.3)
GST 1500~9500	15(153)

- Cylinder body
M Equivalent to SCM440
S Black oxide (Fe₃O₄)
- Piston rod
M Equivalent to SCM440
H 600HV ~ (Surface)
S Nitriding + Barrel finishing

Weight (kg)	D	D1	d	L	H	e	R	T	F	G	R1	Ma Tap hole for mounting	J	Q	C	Load N (kgf)		Catalog No.		Adaptable plate														
																Initial load	Maximum load	Type	Initial load - S															
0.22	32	27	16	60	50	12.5	1.05	10.5	4	3.5	-	2-M6×16	20	2	G1/8	3600 (367)	5900 (602)	350-10	FSA32 FSD32 FFC32 FFCA32 FCQ32 FC32															
0.23				66	53												5200 (531)	350-13																
0.24				72	56												5300 (541)	350-16																
0.25				78	59												5600 (571)	350-19																
0.26				90	65												5500 (561)	350-25																
0.29				104	72												5500 (561)	350-32																
0.30				116	78												5500 (561)	350-38																
0.34				140	90												5600 (571)	350-50																
0.38				166	103												5500 (561)	350-63																
0.42				190	115												5500 (561)	350-75																
0.43				200	120												5500 (561)	350-80																
0.49				240	140												5500 (561)	350-100																
0.57				290	165												5500 (561)	350-125																
0.33				38	33												20	60		50	12.5	1.05	10.5	4	3.5	-	2-M6×16	25	2	G1/8	4700 (479)	7200 (735)	500-10	FSA38 FSD38 FFC38 FFCA38 FT38 FTP38 FCQ38 FC38
0.34																		66		53												7100 (724)	500-13	
0.36																		72		56												7200 (735)	500-16	
0.37	78	59	7400 (755)			500-19																												
0.40	90	65	7300 (745)			500-25																												
0.43	104	72	7200 (735)			500-32																												
0.46	116	78	7200 (735)			500-38																												
0.52	140	90	7200 (735)			500-50																												
0.58	166	103	7200 (735)			500-63																												
0.63	190	115	7100 (724)			500-75																												
0.66	200	120	7100 (724)			500-80																												
0.75	240	140	7100 (724)			500-100																												
0.87	290	165	7100 (724)			500-125																												
0.52	45	40	25			73	60	16.5	1.05	10.5	4	3.5	-	2-M8×16	20	2		G1/8	7400 (755)	12100(1235)												750-13	FSA45 FSD45 FB45 FBA45 FBB45 FFC45 FFCA45 FT45 FTP45 FCQ45 FC45	
0.54						79	63													12100(1235)												750-16		
0.56						85	66													11700(1194)												750-19		
0.60				97	72	11800(1204)	750-25																											
0.64				111	79	11800(1204)	750-32																											
0.68				123	85	11800(1204)	750-38																											
0.76				147	97	11800(1204)	750-50																											
0.84				173	110	11800(1204)	750-63																											
0.92				197	122	11900(1214)	750-75																											
0.95				207	127	11900(1214)	750-80																											
1.08				247	147	11900(1214)	750-100																											
1.24				297	172	11900(1214)	750-125																											
0.72				50	46	28	72										62			17.5	2.05	10.5	13	-	-	2-M10×16	31.7	3	G1/8	9200 (938)	13500(1378)	1000-10		FSA50 FSD50 FFS50 FCQ50 FC50
0.75							78										65														13800(1408)	1000-13		
0.77							84										68														13800(1408)	1000-16		
0.82							90										71														14000(1429)	1000-19		
0.86	102	77	14200(1449)				1000-25																											
0.92	116	84	14300(1459)				1000-32																											
0.97	128	90	14500(1480)				1000-38																											
1.08	152	102	14600(1490)				1000-50																											
1.18	178	115	14700(1500)				1000-63																											
1.28	202	127	14700(1500)				1000-75																											
1.35	212	132	14800(1510)				1000-80																											
1.51	252	152	14800(1510)				1000-100																											
1.71	302	177	14800(1510)				1000-125																											

Weight (kg)	D	D1	d	L	H	e	R	T	F	G	R1	Ma Tap hole for mounting	J	Q	C	Load N (kgf)		Catalog No.		Adaptable plate														
																Initial load	Maximum load	Type	Initial load - S															
0.72	50	46	28	72	62	17.5	2.05	10.5	13	-	2.05	2-M10×16	31.7	3	G1/8	10600 (1080)	15260 (1557)	1200-10	FSA50 FSD50 FFS50 FCQ50 FC50															
0.75				78	65												15910 (1623)	1200-13																
0.77				84	68												16425 (1675)	1200-16																
0.82				90	71												16835 (1717)	1200-19																
0.86				102	77												17460 (1781)	1200-25																
0.92				116	84												17970 (1833)	1200-32																
0.97				128	90												18290 (1866)	1200-38																
1.08				152	102												18745 (1912)	1200-50																
1.18				178	115												19075 (1946)	1200-63																
1.28				202	127												19295 (1968)	1200-75																
1.35				212	132												19365 (1975)	1200-80																
1.51				252	152												19595 (1999)	1200-100																
1.71				302	177												19785 (2018)	1200-125																
1.10				63	59												36	72		62	19	2.05	10.5	13	-	2.05	2-M8×16 or 4-M8×16	20 or 35	3	G1/8	15300 (1559)	23700 (2418)	1500-10	FSC63 FSD63 FB50 FBA50 FBB63 FFS63 FCQ63 FC63
1.12																		78		65												24000 (2449)	1500-13	
1.16																		84		68												24100 (2459)	1500-16	
1.20	90	71	24200 (2469)			1500-19																												
1.27	102	77	24300 (2480)			1500-25																												
1.35	116	84	23800 (2429)			1500-32																												
1.42	128	90	23900 (2439)			1500-38																												
1.56	152	102	24000 (2449)			1500-50																												
1.71	178	115	24100 (2459)			1500-63																												
1.85	202	127	24200 (2469)			1500-75																												
1.91	212	132	24200 (2469)			1500-80																												
2.15	252	152	24300 (2480)			1500-100																												
2.44	302	177	24300 (2480)			1500-125																												
1.73	75	70	45			79	69	21	2.55	10.5	13	-	2.55	4-M12×16	53.9	3		G1/8	23850 (2431)	38100 (3888)												2400-10	FSA75 FSD75 FFS75 FCQ75 FC75	
1.77						85	72													38200 (3898)												2400-13		
1.82						91	75													38300 (3908)												2400-16		
1.87				97	78	38500 (3929)	2400-19																											
1.96				109	84	38700 (3949)	2400-25																											
2.08				123	91	38600 (3939)	2400-32																											
2.18				135	97	38400 (3918)	2400-38																											
2.37				159	109	39200 (4000)	2400-50																											
2.58				185	122	39200 (4000)	2400-63																											
2.83				209	134	39200 (4000)	2400-75																											
2.91				219	139	39200 (4000)	2400-80																											
3.22				259	159	39300 (4010)	2400-100																											
3.63				309	184	39300 (4010)	2400-125																											
3.18				95	90	60	94										78			24	2.55	10.5	13	-	2.55	4-M12×16	76.2	3	G1/8	42400 (4321)	61700 (6296)	4200-16		FSA95 FSD95 FFS95 FCQ95 FC95
3.27							100										81														63700 (6500)	4200-19		
3.47							112										87														60800 (6204)	4200-25		
3.64	126	94	64300 (6561)				4200-32																											
3.79	138	100	65800 (6714)				4200-38																											
4.25	162	112	67000 (6837)				4200-50																											
4.47	188	125	67800 (6918)				4200-63																											
4.77	212	137	68000 (6939)				4200-75																											
4.96	222	142	68600 (7000)				4200-80																											
5.45	262	162	69100 (7051)				4200-100																											
6.07	312	187	69600 (7102)				4200-125																											
5.55	120	115	75				104	88	25.5	2.55	10.5	13	-	2.55	4-M12×16	80.8	3	G1/8	66300 (6761)												89000 (9082)	6600-16	FSA120 FSD120 FB120 FBA120 FBB120 FFS120 FCQ120 FC120	
5.67							110	91																							91000 (9286)	6600-19		
5.91							122	97																							93900 (9582)	6600-25		
6.18							136	104																							96100 (9806)	6600-32		
6.43							148	110																							98200 (10020)	6600-38		
6.90				172	122	100600 (10265)	6600-50																											
7.42				198	135	102400 (10449)	6600-63																											
7.90				222	147	103400 (10551)	6600-75																											
8.01				232	152	104100 (10622)	6600-80																											
8.89				272	172	105400 (10755)	6600-100																											
9.89				322	197	106500 (10867)	6600-125																											
9.79				150	145	90	116	97												27.5	2.55	10.5	13	-	2.55	4-M12×16	100	3	G1/8	95400 (9728)	135000 (13766)	9500-19		FSA150 FSD150 FB150 FBA150 FBB150 FFS150 FCQ150 FC150
10.16							128	103																							139000 (14174)	9500-25		
10.60							142	110																							142000 (14480)	9500-32		
10.97							154	116																							143000 (14582)	9500-38		
11.72							178	128																							146000 (14888)	9500-50		
12.53	204	141	148000 (15092)				9500-63																											
13.28	228	153	149000 (15194)				9500-75																											
13.59	238	158	150000 (15296)				9500-80																											
14.84	278	178	151000 (15397)				9500-100																											
16.39	328	203	152000 (15499)				9500-125																											

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.

GST 750-50



Price

Quotation

⚠ 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 kgf/cm² = MPa × 10.1972 MPa = kgf/cm² × 0.0980665