

• The GSN is the successor model to the GSC.

RoHS **GSN** (Main Body) **GSNB** (BM Plate Set)

Please do not use gas springs in excess of the specified stroke range(S), as it may cause any troubles including gas leakage.
To ensure it does not come into contact with the strain Relief Bushing.
Do not use the screw hole(M) to fix the gas spring with a bolt nor to install an extension pin. **P.1443**

Relief Bushing P.1448

Nitrogen Gas Charging Pressure	MPa (kgf/cm ²)
GSN 32	14.7 (150)
GSN 38	19.7 (201)
GSN 50	21.2 (216)
GSN 63	15.9 (162)

Cylinder body: **M** Equivalent to SCM440, **S** Black Oxide (Fe₃O₄)
Piston rod: **M** Equivalent to SCM440, **H** 600 HV~ (Surface), **S** Nitriding + Barrel finishing

Weight (kg)	D	d	M	L	H	Q	Ma Tap hole for Mounting	Load N (kgf)		Catalog No.										
								Initial Load	Maximum Load											
0.20	32	18	M6	55	45	2	M6 × 8	3750 (382)	5687 (580)	32-10										
0.22									5953 (607)		32-15									
0.24									6115 (624)		32-20									
0.25									6224 (635)		32-25									
0.28									6234 (636)		32-32									
0.30									6391 (652)		32-38									
0.32									6445 (657)		32-45									
0.34									6476 (660)		32-50									
0.36									6327 (645)		32-56									
0.39									6320 (644)		32-63									
0.44									6584 (671)		32-80									
0.29									38		22	M6	55	45	2	M8 × 12	7500 (765)	12239 (1248)	38-10	
0.32																		12933 (1319)		38-15
0.34																		13362 (1363)		38-20
0.37																		13652 (1392)		38-25
0.40																		13681 (1395)		38-32
0.43	14100 (1438)	38-38																		
0.46	14246 (1453)	38-45																		
0.49	14329 (1461)	38-50																		
0.53	13931 (1421)	38-56																		
0.56	13914 (1419)	38-63																		
0.63	14622 (1491)	38-80																		
0.53	50	30	M8	60	50	3	M10 × 12	15000 (1530)		22474 (2292)								50-10		
0.57										23947 (2442)										50-15
0.60										24924 (2542)										50-20
0.64										25618 (2612)										50-25
0.69										26309 (2683)										50-32
0.73									26739 (2727)	50-38										
0.78									27122 (2766)	50-45										
0.82									27340 (2788)	50-50										
0.87									27558 (2810)	50-56										
0.93									27766 (2831)	50-63										
1.03									28137 (2869)	50-80										
0.71									63	40	M8	45	40	3	M10 × 15	20000 (2039)	27188 (2772)		63-5	
0.76																	30213 (3081)			63-10
0.83																	32666 (3331)			63-15
0.93																	34258 (3493)			63-25
1.06																	35241 (3594)			63-38
1.18	35741 (3645)	63-50																		
1.52	35214 (3591)	63-80																		
1.69	36603 (3732)	63-100																		

The initial load (±10%) is value at 20°C. 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
Cannot be refilled or adjusted (pressure). • Nitrogen Gas Charging Pressure kgf/cm² = MPa × 10.1972 MPa = kgf/cm² × 0.0980665

Gas Spring Temperature Range

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

RoHS **GSNB** (Product Set) **BM** (Single Plate Product)

Gas Spring Fixing Hole

M SS400 **S** Black Oxide (Fe₃O₄)

Accessory Bolt	A	B	a	b	Catalog No.
FB 6-16 × 1	51	32	41	22	32
FB 8-20 × 1	57	38	47	28	38
FB10-20 × 1	69	50	59	40	50
FB10-20 × 1	82	63	72	53	63

BM

Order **Catalog No.**
GSN 32-25
GSNB 38-38
BM - 32

Days to Ship **Quotation**

• The MGSN is the successor model to the MGSC.

RoHS **MGSN**

Please do not use gas springs in excess of the specified stroke range(S), as it may cause any troubles including gas leakage.
The mounting taps (Ma) for the MGSN16-25 also operate as gas exhaust vents.
Screwing in the mounting screws to a depth that exceeds that of the tap is may cause of gas leakage.

Relief Bushing P.1448

Nitrogen Gas Charging Pressure	MPa (kgf/cm ²)
MGSN 16	20.0 (204)
MGSN 19	21.6 (220)
MGSN 25	20.4 (208)
MGSN 32	20.0 (204)

Cylinder body: **M** Equivalent to SCM440, **S** Black Oxide (Fe₃O₄)
Piston rod: **M** Equivalent to SCM440, **H** 660 HV~ (Surface), **S** Nitriding + Barrel finishing

Weight (kg)	D	d	M	L	H	Ma Tap hole for Mounting	Load N (kgf)		Catalog No.								
							Initial Load	Maximum Load									
0.05	16	8	-	55	45	M5 × 7	1000 (102)	1405 (143)	MGSN								
0.05								1496 (153)		16-10							
0.06								1607 (164)		16-15							
0.07								1685 (172)		16-25							
0.06	19	10	-	55	45	M5 × 7	1700 (173)	2373 (242)	MGSN								
0.07								2505 (255)		19-10							
0.08								2654 (271)		19-15							
0.09								2755 (281)		19-25							
0.11	25	15	-	55	45	M6 × 8	3600 (367)	5397 (550)	MGSN								
0.12								5721 (593)		25-10							
0.13								6079 (620)		25-15							
0.16								6314 (644)		25-25							
0.20	32	18	M6	55	45	M6 × 8	5100 (520)	8090 (825)	MGSN								
0.22								8510 (868)		32-10							
0.24								8767 (894)		32-15							
0.25								8940 (912)		32-20							
0.28								8955 (913)		32-25							
0.30								9205 (939)		32-32							
0.32								9292 (948)		32-38							
0.34								9340 (952)		32-45							
0.36								9103 (928)		32-50							
0.39								9092 (927)		32-56							
0.44								9513 (970)		32-63							
																9513 (970)	32-80

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Cannot be refilled or adjusted (pressure). • Nitrogen Gas Charging Pressure kgf/cm² = MPa × 10.1972 MPa = kgf/cm² × 0.0980665

Gas Spring Temperature Range

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

Order **Catalog No.**
MGSN 19-25

Days to Ship **Quotation**