


GAS SPRINGS

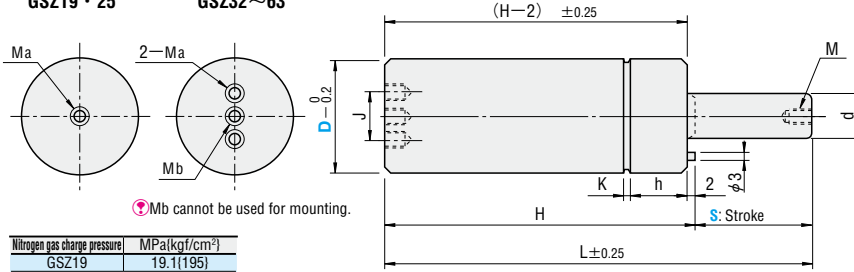
—HIGH ALLOWABLE ECCENTRICITY AND HIGH SPEED TYPE—

RoHS



GSZ (Main body)
GSZH (HM plate set)
GSZF (FM plate set)

GSZ19 · 25 **GSZ32~63**




⚠ 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 contact with the overstroke check pin.
 ⚠ Do not use the screw hole (M) to fix the gas spring with a bolt nor to install an extension pin.

⚠ Mb cannot be used for mounting.

Nitrogen gas charge pressure	MPa(kgf/cm ²)
GSZ19	19.1(195)
GSZ25	19.5(199)
GSZ32	19.7(201)
GSZ38	20.5(209)
GSZ50	20.9(213)
GSZ63	18.9(193)

Cylinder body: **M** Equivalent to SCM440
 Piston rod: **M** SACM645
H 1000HV ~ (Surface)
S Nitriding+Barrel finishing


RoHS



Weight (kg)	D	d	M	L	H	h	K	Ma Tap hole for mounting	Mb	J	Load N(kgf)		Catalog No.		
											Initial load	Maximum load	Type	D-S	
0.10	19	10	M5×7	85	70	23	2	M6×8	—	—	1500	2200	2242	GSZ	19-15
0.11												2400	2451		19-20
0.11												2600	2651		19-25
0.13												2700	2751		19-32
0.14												2650	2701		19-38
0.15												150	105		19-45
0.16												160	110		19-50
0.17												175	119		19-56
0.19												190	127		19-63
0.21												220	140		19-80
0.21	25	14	M6×8	85	70	23	2	M6×8	—	—	3000	5200	5301	GSZ	25-15
0.21												5300	5401		25-20
0.23												5850	5971		25-25
0.24												5900	6021		25-32
0.26												5950	6071		25-38
0.28												6000	6121		25-45
0.29												6050	6171		25-50
0.32												6050	6171		25-56
0.35												6100	6221		25-63
0.38												6150	6271		25-80
0.32	32	18	M8×12	75	65	26	2	M6×8	M4×8	15	5000	8000	8161	GSZ	32-10
0.32												8700	8871		32-15
0.35												9400	9591		32-20
0.36												9400	9591		32-25
0.40												9500	9691		32-32
0.43												9500	9691		32-38
0.46												9600	9791		32-45
0.48												9600	9791		32-50
0.52												9700	9891		32-56
0.58												9700	9891		32-63
0.64	9800	9991	32-80												
0.44	38	25	M8×12	75	65	12	2	M6×8	M8×8	20	10000	17700	18051	GSZH	38-10
0.47												19000	19371		38-15
0.49												21000	21411		38-20
0.52												22000	22431		38-25
0.57												22500	22941		38-32
0.61												22500	22941		38-38
0.66												22800	23251		38-45
0.68												23000	23451		38-50
0.72												23100	23561		38-56
0.83												23100	23561		38-63
0.98	23100	23561	38-80												
1.05	50	35	M8×12	90	80	13	4	M8×12	M8×12	20	20000	34000	34671	GSZF	50-10
1.15												32000	32631		50-15
1.18												33500	34161		50-20
1.19												36000	36711		50-25
1.27												37000	37731		50-32
1.28												39000	39771		50-38
1.38												39500	40281		50-45
1.40												42000	42831		50-50
1.59												43500	44361		50-56
1.66												44000	44871		50-63
1.90	47000	47931	50-80												
1.66	63	45	M8×12	115	100	12	5	M8×12	M8×12	20	30000	44000	44871	GSZ	63-10
1.80												45000	45891		63-15
1.85												48000	48951		63-20
1.94												50000	50991		63-25
2.05												52000	53031		63-32
2.18												53000	54051		63-38
2.28												54000	55061		63-45
2.34												55000	56081		63-50
2.65												61000	62201		63-63
2.95												64000	65261		63-80


⚠ 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
 ⚠ When mounting GSZ32, 38, 50, or 63, be sure to use the Ma mounting holes and two bolts.

RoHS



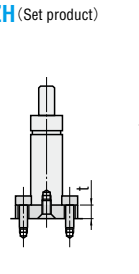
GSZH (Set product)

RoHS



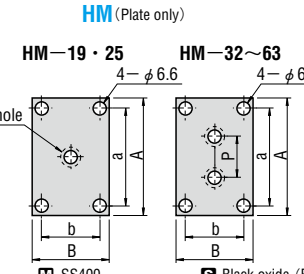
HM (Plate only)

HM-19 · 25



FB hole

HM-32~63



4-φ6.6

Provided bolts	A	B	a	b	P	t	Catalog No.
FB6-16×1 piece	38	28	28	18	—	—	19
	44	28	34	18	—	—	25
FB6-16×2 pcs.	51	32	41	22	15	9	32
	57	38	47	28	—	—	38
FB8-20×2 pcs.	69	50	59	40	20	—	50
	84	65	70	50	—	—	63

Order

Catalog No.

GSZ 32-25
 GSZH 38-38
 HM 32

Days to Ship

Quotation

Price

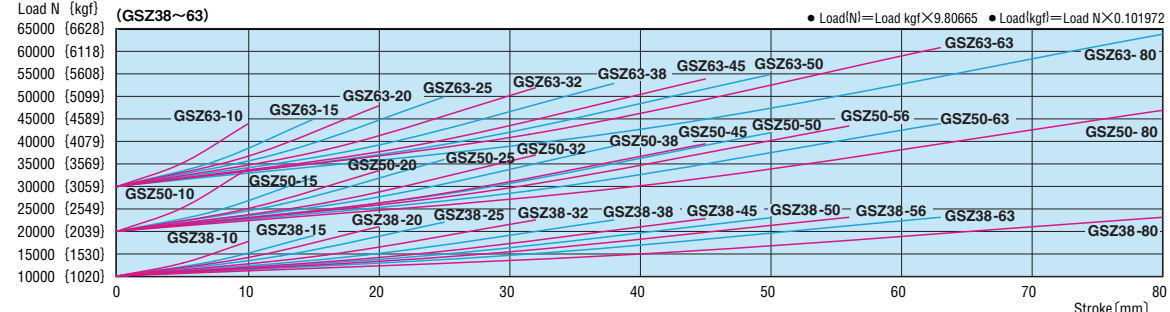
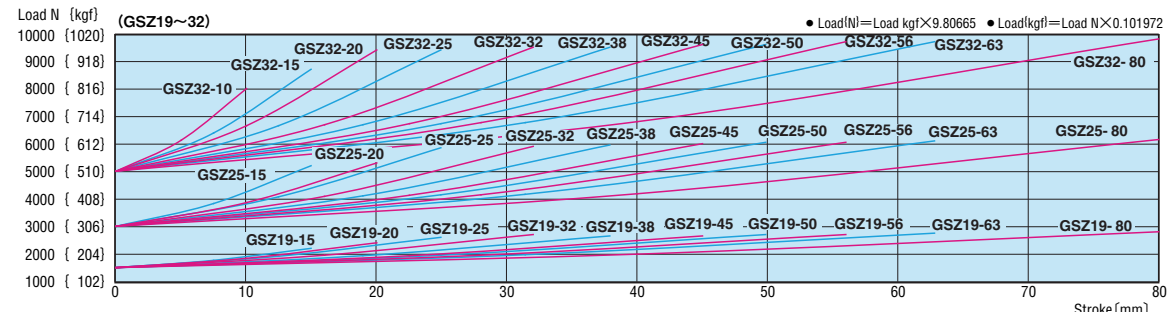
Quotation

Shot limit

Stroke (mm)	10	15	20	25	32	38	45	50	56	63	80
GSZ Shot limit (spm)	500	330	250	200	156	130	110	100	90	80	60

Shot limit: Number of shots per minute
 The shot limit may be affected by the operating environment. The figures shown here are for reference only.

GSZ load characteristic graph This graph shows the quasi-static characteristics. Actual characteristics vary depending on temperature and operation speed.



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