CKD

New Products

GUIDED CYLINDER
STG SERIES

CKD Corporation

CC-781A

New eco-friendly guided cylinder

CKD Green Technology

Guided cylinder STG Series (ϕ12 to ϕ63) - Remove toxic substances and protect the environment by preventing contamination

RoHS (to be complied until the Dec.2005)

Ecological product

Harmful substances such as lead and hexavalent chrome that adversely affect the global environment are not used in the cylinder.
This product complies with the RoHS Directives in effect in the EU.
(Lead free soldered lead wire is used.)

Compatible with high loads

The guide rod shaft has been improved and metal bearing material and bearing structure changed.
This cylinder is robust with lateral and deflective loads, and has higher withstand load performance than conventional products.
Use this cylinder to further improve stability.

Complete maintenance with standard tools

A hexagon wrench is used to install the piston rod, so no special tools are required for maintenance.

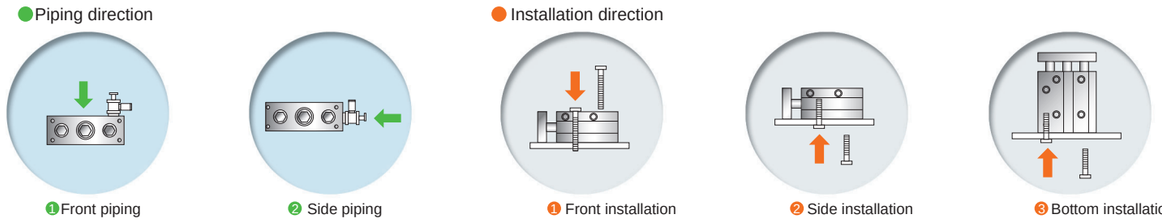
Lightweight and resource-saving

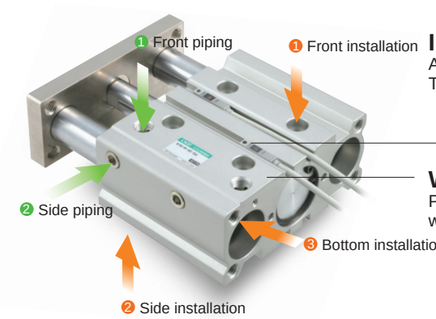
The cylinder's aluminum structure has been reviewed to achieve lighter weight and higher resource saving than conventional products.

High precision/high rigidity

STG-M/B Series

Piping in two directions and installation in three directions



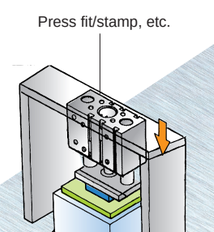


Install different switches

A compact T type switch is installed.
This eliminates switch protrusion in installation, saving space.

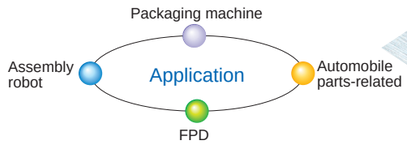
White exterior

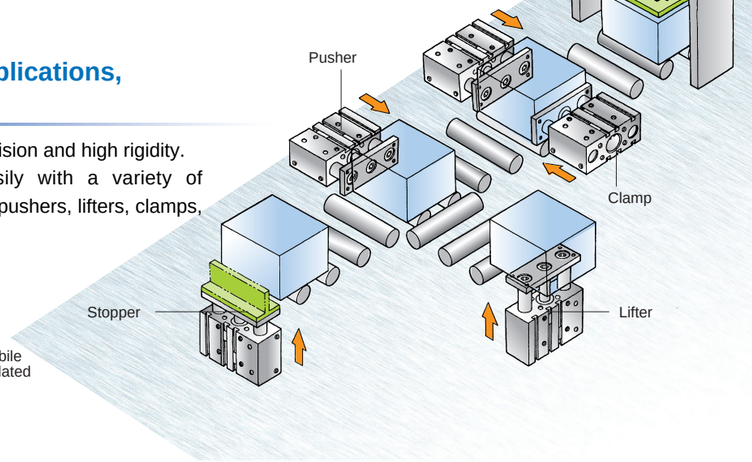
Products match a variety of equipment with a uniform white exterior.



Compatible with a variety of applications, including transfer lines

Two guide rods provide high positioning precision and high rigidity. This space saving cylinder is used easily with a variety of applications, including positioning, stoppers, pushers, lifters, clamps, and press-fitting.





■STG Series Products

Model variation		Stroke length (mm)															Max. stroke length	Switch	Page
Type of bearing	Bore size	10	20	25	30	40	50	75	100	125	150	175	200	250	300	350	400	MAX	SW	
Metal bush bearing STG-M / Ball bearing STG-B	ϕ12	●	●															250	●	3
	ϕ16	●	●															250	●	
	ϕ20		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	400	●	
	ϕ25			●	●	●	●	●	●	●	●	●	●	●	●	●	●	400	●	
	ϕ32			●			●	●	●	●	●	●	●	●	●	●	●	400	●	
	ϕ40			●			●	●	●	●	●	●	●	●	●	●	●	400	●	
	ϕ50			●			●	●	●	●	●	●	●	●	●	●	●	400	●	
	ϕ63			●			●	●	●	●	●	●	●	●	●	●	●	400	●	

Safety Precautions

Always read this section before starting use.

When designing and manufacturing a device using CKD products, the manufacturer is obligated to check that device safety mechanical mechanism, pneumatic control circuit, or water control circuit and the system operated by electrical control that controls the devices is secured.
It is important to select, use, handle, and maintain the product appropriately to ensure that the CKD product is used safely.
Observe warnings and precautions to ensure device safety.
Check that device safety is ensured, and manufacture a safe device.

⚠ WARNING

1 This product is designed and manufactured as a general industrial machine part.
It must be handled by an operator having sufficient knowledge and experience in handling.

2 Use this product in accordance of specifications.

Contact CKD when using the product outside the unique specifications range, when using it outdoors, and when using it under the conditions and environment below.Do not attempt to modify or additionally machine the product.

❶ Use for special applications requiring safety including nuclear energy, railroad, aviation, ship, vehicle, medical equipment, equipment, or applications coming into contact with beverage or food, amusement equipment, emergency shutoff circuits, press mach

❷ Use for applications where life or assets could be adversely affected, and special safety measures are required.

3 Observe corporate standards and regulations, etc., related to the safety of device design and control, etc.

ISO 4414, JIS B 8370 (pneumatic system rules), JPAS 005 (principles for pneumatic cylinder use and selection), High Pressure Gas Maintenance Laws Occupational Safety and Sanitation Laws, and other safety regulations, corporate standards, and regulations.

4 Do not handle, pipe, or remove devices before confirming safety.

❶ Inspect and service the machine and devices after confirming safety of the entire system related to this product.

❷ Note that there may be hot or charged sections even after operation is stopped.

❸ When inspecting or servicing the device, turn off the energy source (air supply or water supply), and turn off power to the facility. Discharge any compressed air from the system, and pay enough attention to possible water leakage and leakage of electrici

❹ When starting or restarting a machine or device that incorporates pneumatic components, make sure that the system safety, such as pop-out prevention measures, is secured.

5 Observe warnings and cautions on the pages below to prevent accidents.

■The safety cautions are ranked as " DANGER" , " WARNING" and " CAUTION" in this section.

⚠ DANGER:	When a dangerous situation may occur if handling is mistaken leading to fatal or serious injuries, or when there is a high degree of emergency to a warning.
⚠ WARNING:	When a dangerous situation may occur if handling is mistaken leading to fatal or serious injuries.
⚠ CAUTION:	When a dangerous situation may occur if handling is mistaken leading to minor injuries or physical damage.

Note that some items described as "CAUTION" may lead to serious results depending on the situation.
In any case, important information that must be observed is explained.

Pneumatic Components

Safety Precautions

Always read before starting use
Refer to Pneumatic Cylinders CB-029SA for general details on the cylinder and cylinder switch.

Guided cylinder STG Series

Design&Selection

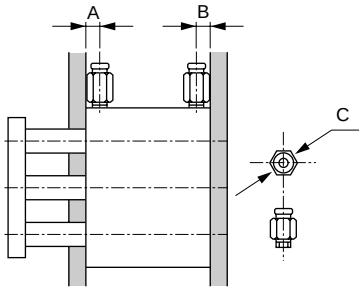
⚠ CAUTION

■ When using the metal bush bearing type with a long stroke and low speed, stick slipping may occur depending on load conditions. Use the ball bearing type in this case.

Installation & Adjustment

⚠ CAUTION

■ Install a flow control valve when piping.
The following types of joints are used:



Descriptions / Bore size (mm)	Port size	Port dimension A	Port dimension B	Compatible joint	Joint outer diameter ϕC
ϕ12	M5X0.8	12	7	SC3W-M5-4 SC3W-M5-6 GWS4-M5-S GWS4-M5 GWL4-M5 GWL6-M5 GWS6-M5	ϕ12 or less
ϕ16		12	7.5		
ϕ20	Rc1/8	10.5	8.5	SC3W-6-4/6/8 GWS4-6 GWS6-6 GWS8-6 GWL4-6 GWL6-6	ϕ15 or less
ϕ25		11.5	9		
ϕ32		12.5	9		
ϕ40		14	10		
ϕ50	Rc1/4	14	11	SC3W-8-6/8/10 GWS4-8 GWS6-8 GWS10-8 GWS12-8 GWL4 to 12-8	ϕ21 or less
ϕ63		16.5	15		

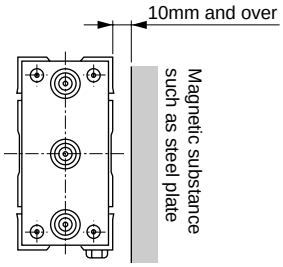
■ Check that no dents or scratches are made on main tubing installation or end plates that may adversely affect flatness.
Flatness on the counterpart onto which the end plate is installed must be 0.05 mm or less.

■ When passing the bolt through the main body and installing, tighten with the following tightening torque.

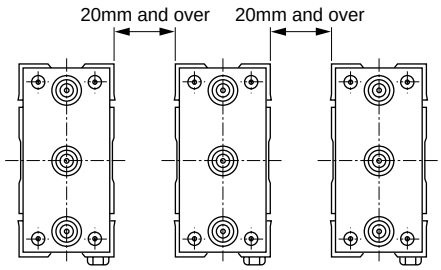
ϕ12	1.5 to 2.7 N·m
ϕ16	
ϕ20, ϕ25	3 to 5.4 N·m
ϕ32, ϕ40	5.2 to 9.2 N·m
ϕ50, ϕ63	12.5 to 22 N·m

■ Allowable energy absorption
Use within the allowable energy absorption. If this is exceeded, install a separate external damper. Refer to the specifications field or the model selection guide for allowable energy absorption.

■ The cylinder may malfunction if a magnetic substance, such as a steel plate, is nearby.
Move the magnetic substance to at least 10 mm from the cylinder.
(Same clearance for all diameters)

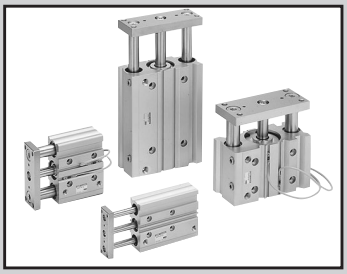


■ The cylinder switch may malfunction if cylinders are installed adjacently. Separate cylinders by the following distances.
(Same clearance for all diameters)



●: Standard ◎: Option ○: Custom order ▒: Not available

Variation	Model No. JIS number	Bore size (mm)	Stroke length (mm)									Stroke length (mm)							Max. stroke length (mm)	Type of bearing: ball bearing		Switch	Page
																				Metal bush bearing	Ball bearing		
			10	20	25	30	40	50	75	100	125		150	175	200	250	300	350	400		M	B		
Double acting single rod type	STG 	ϕ12, ϕ16	●	●	▒	●	●	●	●	●	●		●	●	●	●	▒	▒	▒	250	●	●	◎	3
		ϕ20, ϕ25	▒	●	▒	●	●	●	●	●	●		●	●	●	●	●	●	●	400	●	●		
		ϕ32, ϕ40, ϕ50, ϕ63	▒	▒	●	▒	▒	●	●	●	●		●	●	●	●	●	●	●	400	●	●		



Guided cylinder Double acting single rod type

STG-$^{M}_{B}$ Series

● Bore size: ϕ12, ϕ16, ϕ20, ϕ25, ϕ32, ϕ40, ϕ50, ϕ63

JIS symbol 

Specifications

Descriptions		STG-M/B							
Bore size	MM	ϕ12	ϕ16	ϕ20	ϕ25	ϕ32	ϕ40	ϕ50	ϕ63
Actuation		Double acting							
Working fluid		Compressed air							
Max. working pressure	MPa	1.0							
Min. working pressure	MPa	0.15				0.1			
Withstanding pressure	MPa	1.6							
Ambient temperature	℃	-10 to 60 (to be unfrozen)							
Port size		M5		Rc1/8				Rc1/4	
Stroke length tolerance	MM	+2.0 0							
Working piston speed	mm/s	50 to 500							50 to 300
Cushion		Rubber cushioned							
Lubrication		Not required (When lubricating, use turbine oil Class 1 ISO VG32)							
Allowable energy absorption	J	0.056	0.088	0.157	0.157	0.401	0.627	0.980	1.560

Stroke length

Bore size	Standard stroke length (mm)	Max. stroke length (mm)	Min. stroke length (mm)	Min. stroke length with switch (mm)
ϕ12	10, 20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250	250	5	5
ϕ16				
ϕ20	20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400	400		
ϕ25				
ϕ32	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400			Note 2
ϕ40				
ϕ50				
ϕ63				

Note 1: Custom stroke lengths can be manufactured in 5 mm increments.Note that the total length is the same as the next longer standard stroke length.
Note 2: When 1 or 2 switches are installed.

Switch specifications

● One color/bi-color indicator/strong magnetic field proof

Descriptions	Proximity 2 wire		Proximity 3 wire		Reed 2 wire						Proximity 2 wire
	T2H/T2V/T2JH/T2JV	T2YH/T2YV	T3H/T3V	T3YH/T3YV	T0H/T0V			T5H/T5V			T2YD/T2YDT
Applications	Programmable controller		Programmable controller, relay		Programmable controller, relay			Programmable controller, relay, IC circuit (without indicator light), serial connection			Programmable controller
Power voltage	-		10 to 28VDC		-						-
Load voltage	10 to 30VDC		30VDC or less		12/24VDC	110VAC	220VAC	5/12/24VDC	110VAC	220VAC	24VDC±10%
Load current	5 to 20mA (Note 1)		100mA or less	50mA or less	5 to 50mA	7 to 20mA	7 to 10mA	50mA or less	20mA or less	10mA or less	5 to 20mA
Light	LED (ON lighting)	Red/green LED (ON lighting)	LED (ON lighting)	Red/green LED (ON lighting)	LED (ON lighting)			-			Red/green LED (ON lighting)

Note 1: The maximum load current of 20 mA applies at 25℃.If the switch's ambient operating temperature exceeds 25℃, the load current becomes less than 20 mA. (5 to 10 mA when 60℃.)

● Preventive maintenance output

Descriptions		Proximity 3 wire	Proximity 4 wire	Proximity 3 wire	Proximity 4 wire
		T2YFH/V	T3YFH/V	T2YMH/V	T3YMH/V
Applications		Programmable controller	Programmable controller, relay	Programmable controller	Programmable controller, relay
Light	Installation position adjustment	Red/green LED (ON lighting)			
	Preventive maintenance output	-		Yellow LED (ON lighting)	
Output	Power voltage	-	10 to 28VDC	-	10 to 28VDC
	Load voltage	10 to 30VDC	30VDC or less	10 to 30VDC	30VDC or less
	Load current	5 to 20mA	50mA or less	5 to 20mA	50mA or less
Preventive maintenance Output	Load voltage	30VDC or less			
	Load current	20mA or less	50mA or less	5 to 20mA (Note 1)	50mA or less

Note 1: The maximum load current of 20 mA applies at 25℃.If the switch's ambient operating temperature exceeds 25℃, the load current becomes less than 20 mA. (5 to 10 mA when 60℃.)

Cylinder mass

●STG-M

Unit : kg

Descriptions / Bore size (mm)	Stroke length 10	20	25	30	40	50	75	100	125	150	175	200	250	300	350	400	Switch mass Grommet
ϕ12	0.23	0.27		0.30	0.34	0.38	0.49	0.57	0.68	0.77	0.86	0.95	1.13				0.018
ϕ16	0.32	0.37		0.42	0.47	0.51	0.66	0.78	0.94	1.06	1.18	1.31	1.55				0.018
ϕ20		0.65		0.73	0.81	0.88	1.13	1.33	1.52	1.71	1.90	2.10	2.55	2.94	3.32	3.71	0.018
ϕ25		0.92		1.02	1.13	1.23	1.60	1.86	2.12	2.40	2.66	2.92	3.56	4.08	4.62	5.14	0.018
ϕ32			1.64			2.01	2.54	2.94	3.34	3.73	4.12	4.51	5.49	6.27	7.07	7.85	0.018
ϕ40			1.89			2.30	2.75	3.15	3.57	3.98	4.39	4.80	5.81	6.64	7.47	8.29	0.018
ϕ50			3.26			3.88	4.59	5.21	5.83	6.45	7.07	7.69	9.25	10.48	11.74	13.00	0.018
ϕ63			4.05			4.79	5.61	6.34	7.07	7.81	8.54	9.27	11.06	12.51	13.97	15.42	0.018

●STG-B

Unit : kg

Descriptions / Bore size (mm)	Stroke length 10	20	25	30	40	50	75	100	125	150	175	200	250	300	350	400	Switch mass Grommet
ϕ12	0.23	0.26		0.29	0.34	0.38	0.46	0.54	0.64	0.72	0.81	0.88	1.05				0.018
ϕ16	0.33	0.38		0.42	0.49	0.54	0.65	0.77	0.90	1.01	1.13	1.24	1.46				0.018
ϕ20		0.68		0.75	0.86	0.94	1.11	1.27	1.47	1.64	1.81	1.98	2.35	2.69	3.03	3.37	0.018
ϕ25		0.95		1.04	1.21	1.30	1.52	1.76	2.02	2.24	2.46	2.69	3.17	3.63	4.07	4.52	0.018
ϕ32			1.49			1.79	2.23	2.54	2.90	3.21	3.51	3.82	4.49	5.10	5.71	6.32	0.018
ϕ40			1.74			2.09	2.56	2.91	3.32	3.67	4.02	4.37	5.12	5.82	6.52	7.22	0.018
ϕ50			3.02			3.55	4.28	4.81	5.43	5.97	6.50	7.03	8.23	9.28	10.38	11.45	0.018
ϕ63			3.81			4.45	5.30	5.94	6.67	7.31	7.96	8.60	9.99	11.35	12.61	13.87	0.018

How to order

Without switch

STG - M - 32 ○ - 25

With switch

STG - M - 32 ○ - 25 - T2H - R

Model No.

Ⓐ Type of bearing

Ⓑ Bore size

Ⓒ Pipe thread type

Ⓓ Stroke length

■ Custom stroke length
Can be manufactured in 5 mm increments.
Note that the total length is the same as the next longer standard stroke.

Ⓔ Switch model No. Note 1

Ⓕ Switch quantity

Symbol	Descriptions
Ⓐ Type of bearing	
M	Metal bush bearing
B	Ball bearing
Ⓑ Bore size (mm)	
12	ϕ12
16	ϕ16
20	ϕ20
25	ϕ25
32	ϕ32
40	ϕ40
50	ϕ50
63	ϕ63
Ⓒ Pipe thread type	
Blank	M5 (ϕ12 to ϕ16)
	Rc thread (ϕ20 to ϕ63)
NN	NPT thread (ϕ20 and over) custom order
GN	G thread (ϕ20 and over) custom order
Ⓓ Stroke length (mm)	
Refer to the standard stroke length table on following page.	

Ⓔ Switch model No.

Axial lead wire	Radial lead wire	Contact	Indicator	Lead wire
T0H*	T0V*	Reed	1 color indicator	2 wire
T5H*	T5V*		Without indicator light	
T2H*	T2V*	Proximity	1 color indicator	2 wire
T3H*	T3V*			3 wire
T2YH*	T2YV*		2 color indicator	2 wire
T3YH*	T3YV*			3 wire
T2YFH*	T2YFV*		2 color indicator (No light for preventive mainte. output)	3 wire
T3YFH*	T3YFV*			4 wire
T2YMH*	T2YMV*		2 color indicator (light for preventive mainte. output (1 color))	3 wire
T3YMH*	T3YMV*			4 wire
T2JH*	T2JV*		Off delay type	2 wire
T2YD*	-		Strong magnetic field proof switch	2 wire
T2YDT*	-			

*Lead wire length	
Blank	1m (standard)
3	3m (option)
5	5m (option)

Ⓕ Switch quantity	
R	One on rod side
H	One on head side
D	Two
T	Three

⚠ Cautions for selection guide

Note 1: Custom switch are available other than Ⓔ switch model No.(Custom order)
Refer to Pneumatic Cylinders (No.CB-029SA) for details.

<Example of model number>

STG-B-40-75-T0H-D

Model: Guided cylinder Double acting single rod type

Ⓐ Type of bearing: Ball bearing
Ⓑ Bore size: ϕ40mm
Ⓒ Pipe thread type: Rc screw
Ⓓ Stroke length: 75 mm
Ⓔ Switch model No.: Reed T0H switch, lead wire length 1m
Ⓕ Switch quantity: Two

[Standard stroke length table]

Ⓓ Standard stroke length	Symbol	Stroke length (mm)	Applicable bore size							
			ϕ12	ϕ16	ϕ20	ϕ25	ϕ32	ϕ40	ϕ50	ϕ63
	10	10	●	●						
	20	20	●	●	●	●				
	25	25					●	●	●	●
	30	30	●	●	●	●				
	40	40	●	●	●	●				
	50	50	●	●	●	●	●	●	●	●
	75	75	●	●	●	●	●	●	●	●
	100	100	●	●	●	●	●	●	●	●
	125	125	●	●	●	●	●	●	●	●
	150	150	●	●	●	●	●	●	●	●
	175	175	●	●	●	●	●	●	●	●
	200	200	●	●	●	●	●	●	●	●
	250	250	●	●	●	●	●	●	●	●
	300	300			●	●	●	●	●	●
	350	350			●	●	●	●	●	●
	400	400			●	●	●	●	●	●

How to order switch

SW - T0V

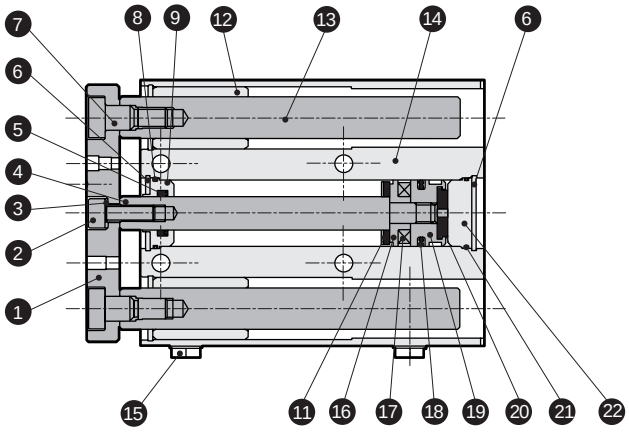
Switch model No.
(Ⓔ on previous page)

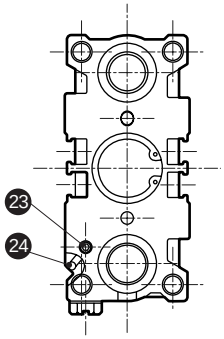
Note: Consult with CKD when using the ecological T type switch.

Internal structure and parts list (STG-M)

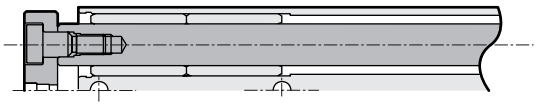
● ϕ12, ϕ16

·50 mm stroke or less

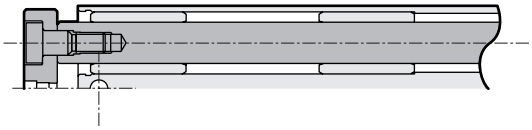




·50 to 100 mm stroke

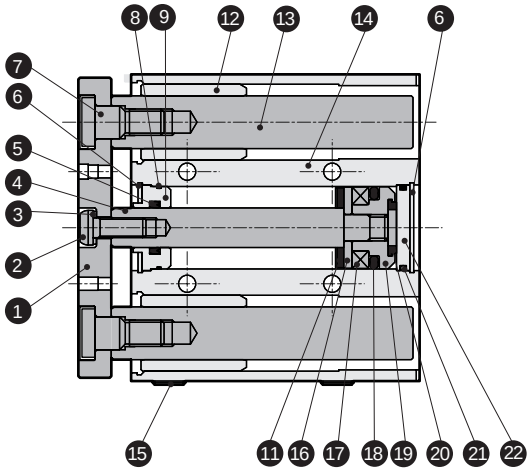


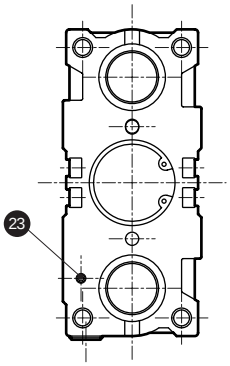
·100 mm stroke over



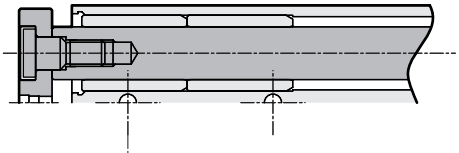
● ϕ20, ϕ25

·50 mm stroke or less

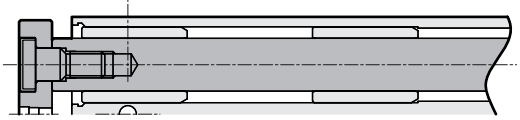




·50 to 200 mm stroke



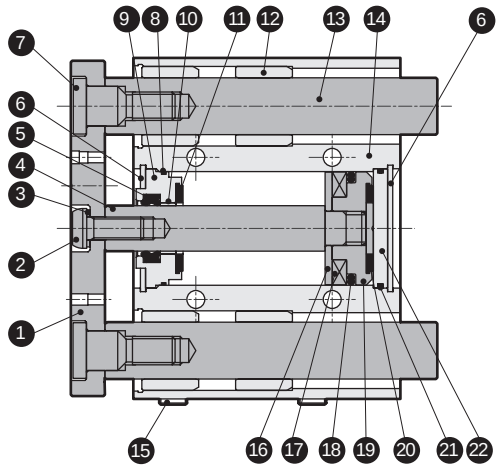
·200 mm stroke over

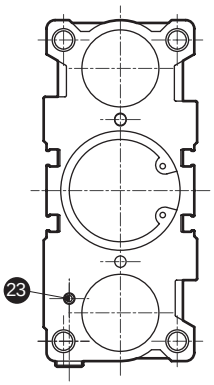


Internal structure and parts list (STG-M)

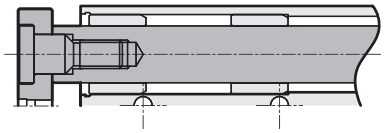
● ϕ32 to ϕ63

·50 mm stroke or less





·50 mm stroke over



No.	Parts name	Material	Remarks	No.	Parts name	Material	Remarks
1	End plate	Steel	Nickeling	12	Metal	Oil impregnated bearing alloy	
2	Hexagon socket bolt (ϕ12 to ϕ16)	Alloy steel	Zinc chromate	13	Guide rod	Stainless steel (ϕ12 to ϕ16)	Industrial chrome plated
	Hexagon socket button bolt (ϕ20 to ϕ63)	Alloy steel	Zinc chromate			Steel (ϕ20 to ϕ63)	Industrial chrome plated
3	Conical spring washer	Steel	Blackening	14	Tube body	Aluminum alloy	Hard alumite
4	Piston rod	Stainless steel (ϕ12 to ϕ25)	Industrial chrome plated	15	Plug	Brass or steel	
		Steel (ϕ32 to ϕ63)	Industrial chrome plated	16	Spacer	Aluminum alloy	
5	Rod packing seal	Nitrile rubber		17	Piston magnet	Plastic magnet	
6	C type snap ring	Steel	Phosphate coating	18	Piston packing seal	Nitrile rubber	
7	Bolt	Alloy steel	Zinc chromate	19	Piston	Aluminum alloy	
8	Metal gasket	Nitrile rubber		20	Cushion rubber	Urethane rubber	
9	Rod bushing	Special aluminum alloy (ϕ12 to ϕ32)	Alumite	21	O ring	Nitrile rubber	
		Aluminum alloy (ϕ40 to ϕ63)	Chromate	22	Base plate	Aluminum alloy	Chromate
10	Bush	DU dry bearing (ϕ40 to ϕ63)		23	Hexagon socket head set screw	Stainless steel	
11	Cushion rubber	Urethane rubber		24	Steel ball	Stainless steel	

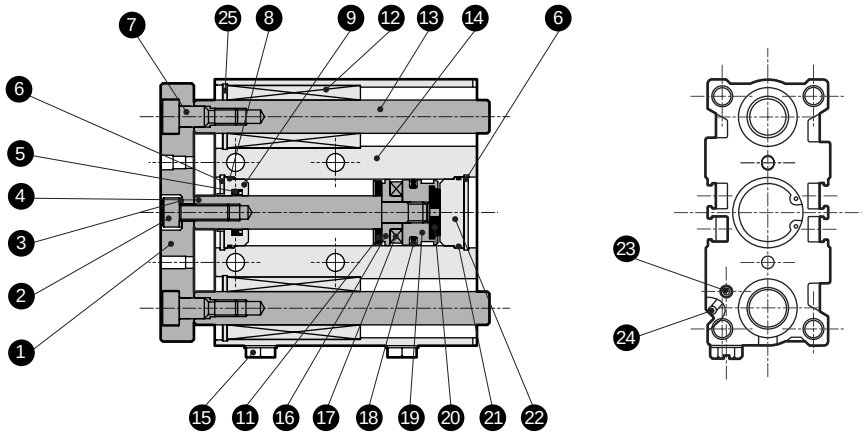
Repair parts list

Bore size (mm)	Kit number STG-M/B	Repair parts number
ϕ12	STG-12K	5 8 11 18 20 21
ϕ16	STG-16K	
ϕ20	STG-20K	
ϕ25	STG-25K	
ϕ32	STG-32K	
ϕ40	STG-40K	
ϕ50	STG-50K	
ϕ63	STG-63K	

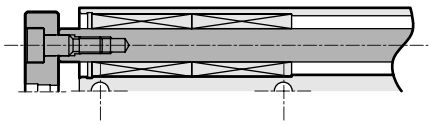
Internal structure and parts list (STG-B)

● ϕ12, ϕ16

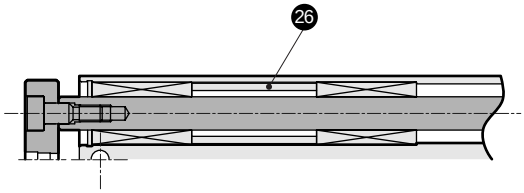
·30 mm stroke or less



·30 to 100 mm stroke

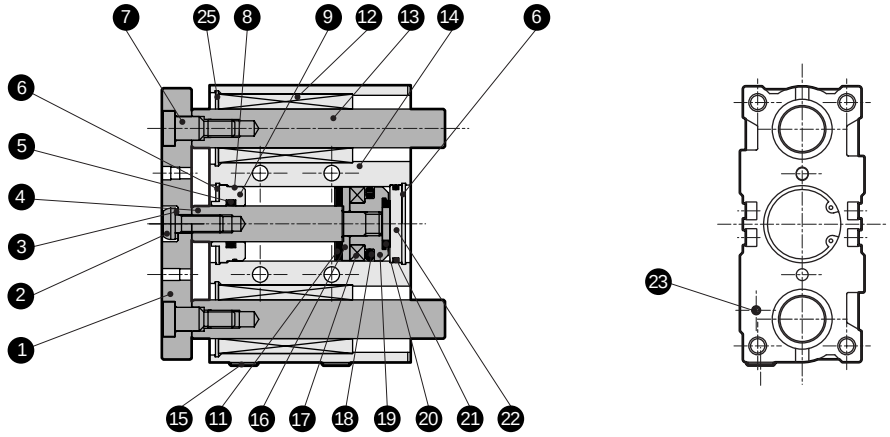


·100 mm stroke over

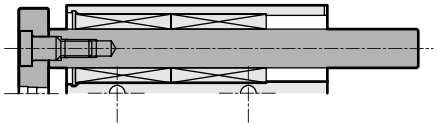


● ϕ20, ϕ25

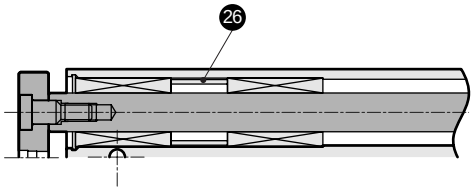
·30 mm stroke or less



·30 to 100 mm stroke



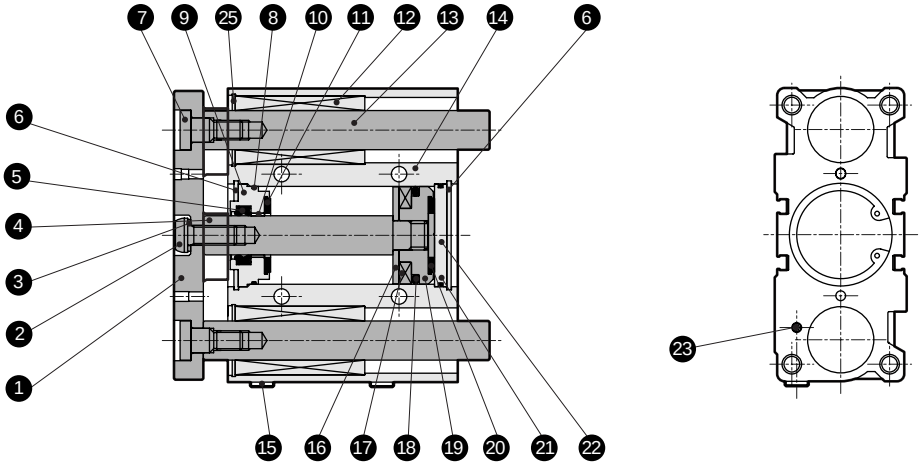
·100 mm stroke over



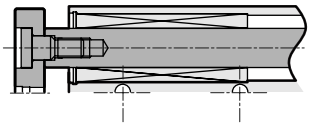
Internal structure and parts list (STG-B)

● ϕ32 to ϕ63

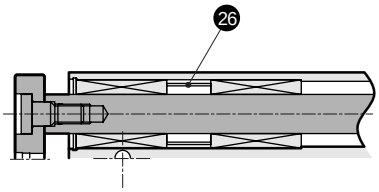
·50 mm stroke or less



·50 to 100 mm stroke



·100 mm stroke over



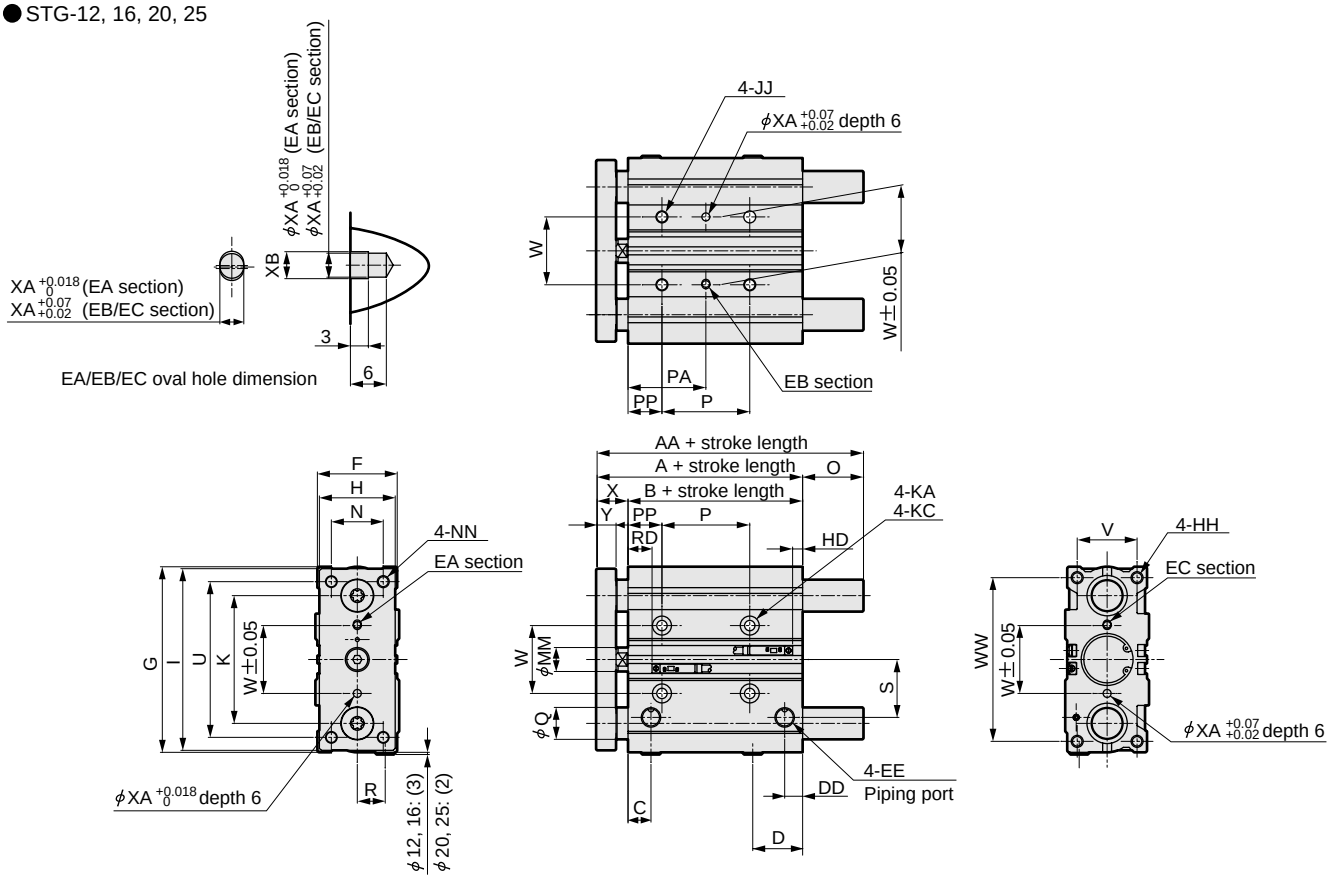
No.	Parts name	Material	Remarks	No.	Parts name	Material	Remarks
1	End plate	Steel	Nickeling	13	Guide rod	Alloy steel	Industrial chrome plated
2	Hexagon socket bolt (ϕ12 to ϕ16)	Alloy steel	Zinc chromate	14	Tube body	Aluminum alloy	Hard alumite
	Hexagon socket button bolt (ϕ20 to ϕ63)	Alloy steel	Zinc chromate	15	Plug	Brass or steel	
3	Conical spring washer	Steel	Blackening	16	Spacer	Aluminum alloy	
4	Piston rod	Stainless steel (ϕ12 to ϕ25)	Industrial chrome plated	17	Piston magnet	Plastic magnet	
		Steel (ϕ32 to ϕ63)	Industrial chrome plated	18	Piston packing seal	Nitrile rubber	
5	Rod packing seal	Nitrile rubber		19	Piston	Aluminum alloy	
6	C type snap ring	Steel	Phosphate coating	20	Cushion rubber	Urethane rubber	
7	Bolt	Alloy steel	Zinc chromate	21	O ring	Nitrile rubber	
8	Metal gasket	Nitrile rubber		22	Base plate	Aluminum alloy	Chromate
9	Rod bushing	Special aluminum alloy (ϕ12 to ϕ32)	Alumite	23	Hexagon socket head set screw	Stainless steel	
		Aluminum alloy (ϕ40 to ϕ63)	Chromate	24	Steel ball	Stainless steel	
10	Bush	DU dry bearing (ϕ40 to ϕ63)		25	C type snap ring	Steel	Phosphate coating
11	Cushion rubber	Urethane rubber		26	Collar	Aluminum alloy	
12	Ball bushing						

Repair parts list

Bore size (mm)	Kit number STG-M/B	Repair parts number
ϕ12	STG-12K	
ϕ16	STG-16K	
ϕ20	STG-20K	
ϕ25	STG-25K	
ϕ32	STG-32K	5 8 11 18 20 21
ϕ40	STG-40K	
ϕ50	STG-50K	
ϕ63	STG-63K	

Dimensions

● STG-12, 16, 20, 25



● STG-M/B common

Symbol / Bore size (mm)	Standard stroke length (mm)	A	B	C	D	DD	EE	F	G	H	HH	I	JJ
φ12	10,20,30,40,50,75,100,125	42	29	12	16	7	M5	26	58	22	M4 depth 10	56	M5 depth 10
φ16	150,175,200,250	46	33	12	18	7.5	M5	30	64	25	M5 depth 12	62	M5 depth 10
φ20	20,30,40,50,75,100,125,150	53	37	10.5	24.5	8.5	1/8	36	83	30	M5 depth 13	81	M6 depth 12
φ25	175,200,250,300,350,400	53.5	37.5	11.5	25	9	1/8	42	93	38	M6 depth 15	91	M6 depth 12

Symbol / Bore size (mm)	K	KA	MM	N	NN	KC	P 30 or less	P 30 to 100	P 100 to 200	P 200 to 300	P 300 over
φ12	41	4.3 penetrating	6	14	M4 penetrating	8 spot face depth 4.5	20	40	110	200	-
φ16	46	4.3 penetrating	8	16	M5 penetrating	8 spot face depth 4.5	24	44	110	200	-
φ20	54	5.2 penetrating	10	18	M5 penetrating	9.5 spot face depth 5.5	24	44	120	200	300
φ25	64	5.2 penetrating	12	26	M6 penetrating	9.5 spot face depth 5.5	24	44	120	200	300

Symbol / Bore size (mm)	PA 30 or less	PA 30 to 100	PA 100 to 200	PA 200 to 300	PA 300 over	PP	R	S	U	V	W	WW	X	Y	RD	HD	XA	XB
φ12	15	25	60	105	-	5	8	17	48	18	23	50	13	8	5	5	3	3.5
φ16	17	27	60	105	-	5	10	18	54	22	24	56	13	8	4	10	3	3.5
φ20	29	39	77	117	167	17	11	25	70	24	28	72	16	10	9.5	8.5	3	3.5
φ25	29	39	77	117	167	17	14	29	78	30	34	82	16	10	10	8.5	4	4.5

● STG-M

Symbol / Bore size (mm)	AA 50 or less	AA 50 to 100	AA 100 over	Q	O 50 or less	O 50 to 100	O 100 over
φ12	42	55	85	8	0	13	43
φ16	46	63	95	10	0	17	49

Symbol / Bore size (mm)	AA 50 or less	AA 50 to 200	AA 200 over	Q	O 50 or less	O 50 to 200	O 200 over
φ20	53	78	122	12	0	25	69
φ25	53.5	84	122	16	0	30.5	68.5

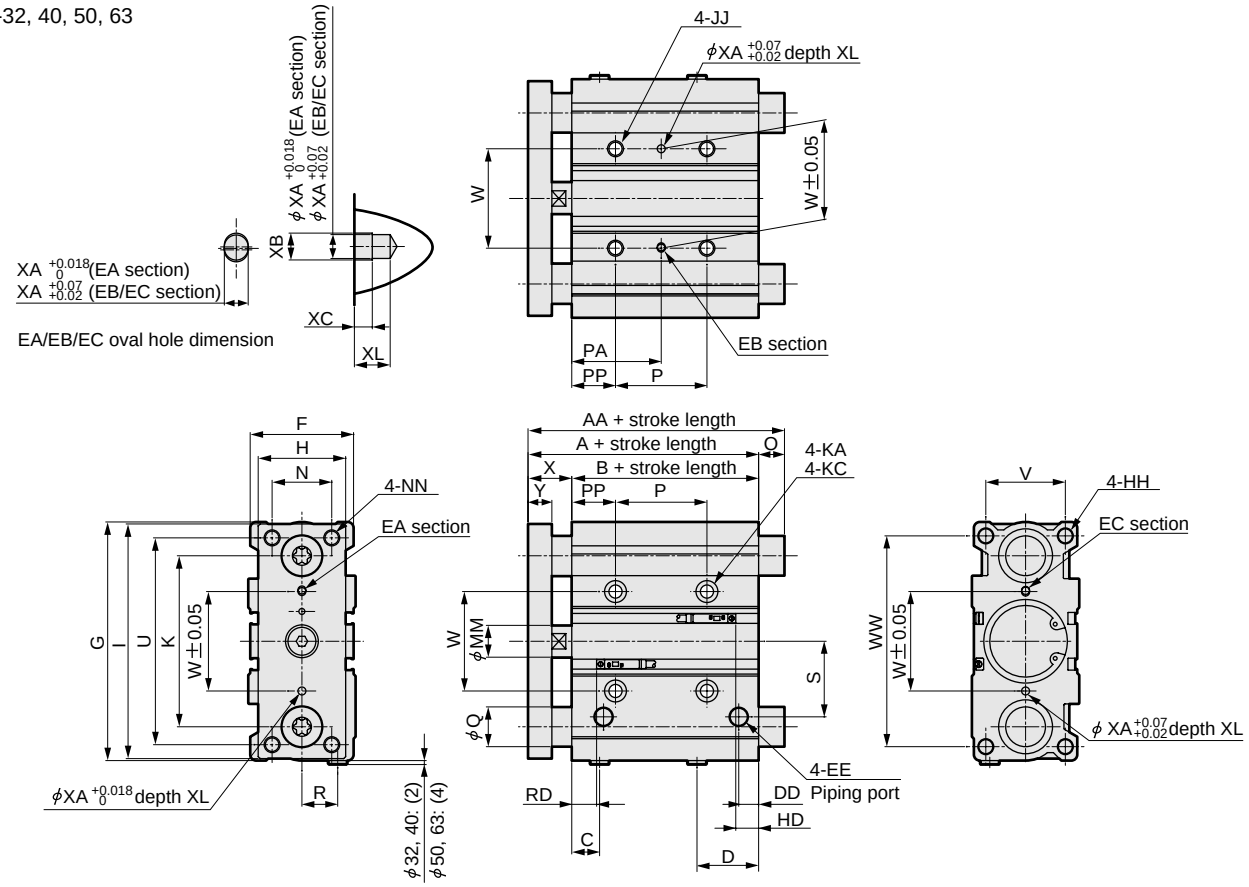
● STG-B

Symbol / Bore size (mm)	AA 30 or less	AA 30 to 100	AA 100 over	Q	O 30 or less	O 30 to 100	O 100 over
φ12	43	55	85	6	1	13	43
φ16	49	65	95	8	3	19	49

Symbol / Bore size (mm)	AA 30 or less	AA 30 to 100	AA 100 to 200	AA 200 over	Q	O 30 or less	O 30 to 100	O 100 to 200	O 200 over
φ20	59	78	100	122	10	6	25	47	69
φ25	65	84	103	122	13	11.5	30.5	49.5	68.5

Dimensions

● STG-32, 40, 50, 63



● STG-M/B common

Symbol / Bore size (mm)	Standard stroke length (mm)	A	B	C	D	DD	EE	F	G	H	HH	I	JJ	K	KA
ϕ32	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400	59.5	37.5	12.5	30.5	9	Rc1/8	48	112	44	M8 depth 20	110	M8 depth 16	78	6.3 penetrating
ϕ40		66	44	14	31	10	Rc1/8	54	120	44	M8 depth 20	118	M8 depth 16	86	6.3 penetrating
ϕ50		72	44	14	35	11	Rc1/4	64	148	60	M10 depth 22	146	M10 depth 20	110	8.6 penetrating
ϕ63		77	49	16.5	35	15	Rc1/4	78	162	70	M10 depth 22	158	M10 depth 20	124	8.6 penetrating

Symbol / Bore size (mm)	KC	MM	N	NN	P					PA	
					25 or less	25 to 100	100 to 200	200 to 300	300 over	25 or less	25 to 100
ϕ32	11 spot face depth 7.5	16	30	M8 penetrating	24	48	124	200	300	33	45
ϕ40	11 spot face depth 7.5	16	30	M8 penetrating	24	48	124	200	300	34	46
ϕ50	14 spot face depth 9	20	40	M10 penetrating	24	48	124	200	300	36	48
ϕ63	14 spot face depth 9	20	50	M10 penetrating	28	52	128	200	300	38	50

Symbol / Bore size (mm)	PA			PP	R	S	U	V	W	WW	X	Y	RD	HD	XA	XB	XC	XL
	100 to 200	200 to 300	300 over															
ϕ32	83	121	171	21	15	34	96	34	42	98	22	12	10	8.5	4	4.5	3	6
ϕ40	84	122	172	22	18	38	104	40	50	106	22	12	13	12	4	4.5	3	6
ϕ50	86	124	174	24	21.5	47	130	46	66	130	28	16	13.5	11.5	5	6	4	8
ϕ63	88	124	174	24	28	55	130	58	80	142	28	16	14	16	5	6	4	8

● STG-M

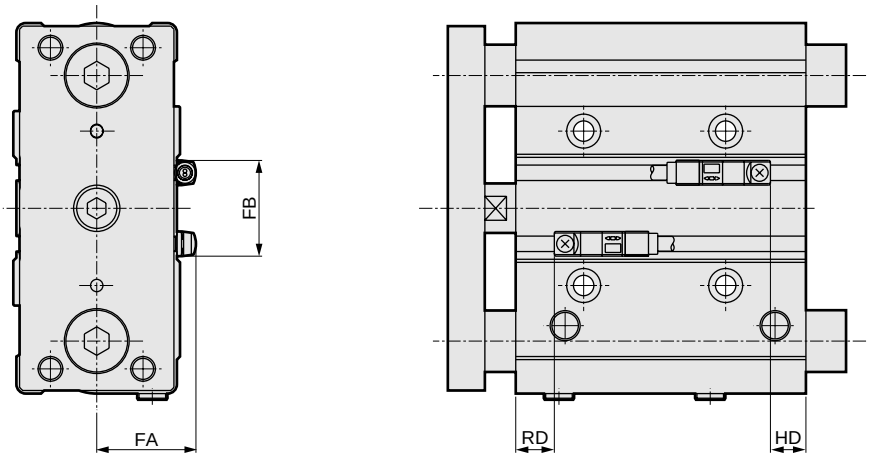
Symbol / Bore size (mm)	AA			Q	O		
	50 or less	50 to 200	200 over		50 or less	50 to 200	200 over
ϕ32	79	100	140	20	19.5	40.5	80.5
ϕ40	79	100	140	20	13	34	74
ϕ50	91	116	161	25	19	44	89
ϕ63	91	116	161	25	14	39	84

● STG-B

Symbol / Bore size (mm)	AA				Q	O			
	50 or less	50 to 100	100 to 200	200 over		50 or less	50 to 100	100 to 200	200 over
ϕ32	79	98	118	140	16	19.5	38.5	58.5	80.5
ϕ40	79	98	118	140	16	13	32	52	74
ϕ50	91	114	134	161	20	19	42	62	89
ϕ63	91	114	134	161	20	14	37	57	84

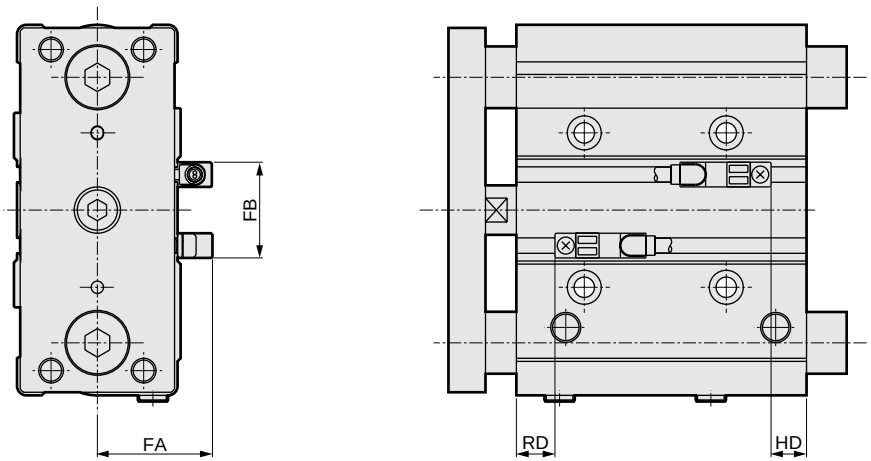
STG series common (Two color indicator, preventive maintenance output, switch) dimensions

● STG-**-**-T$^{2}_{3}$YH/V



Symbol / Bore size (mm)	FA	FB	RD	HD
ϕ12	19	16	4	4
ϕ16	21	16	3	9
ϕ20	24	17	8.5	7.5
ϕ25	27	24	9	7.5
ϕ32	30	24	9	8
ϕ40	33	31	12	11
ϕ50	38	32	12.5	10.5
ϕ63	45	32	13	15

● STG-**-**-T$^{2}_{3}$YFH/V, T$^{2}_{3}$YMH/V



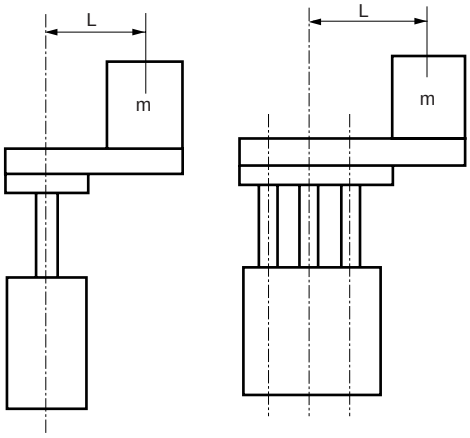
Symbol / Bore size (mm)	FA	FB	RD	HD
ϕ12	24	16	4	4
ϕ16	26	16	3	9
ϕ20	29	17	8.5	7.5
ϕ25	32	24	9	7.5
ϕ32	35	24	9	8
ϕ40	38	31	12	11
ϕ50	43	32	12.5	10.5
ϕ63	50	32	13	15

Selection guide

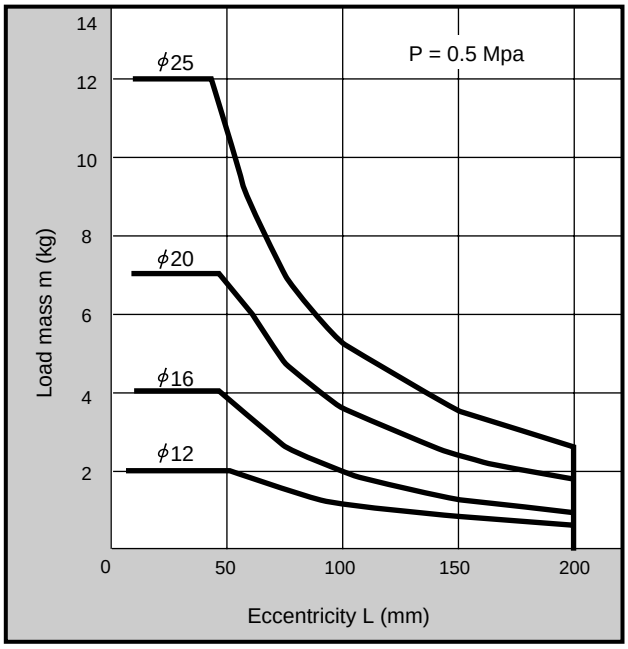
Vertical installation

● Select the tube bore size so that total load for theoretical thrust is less than below.

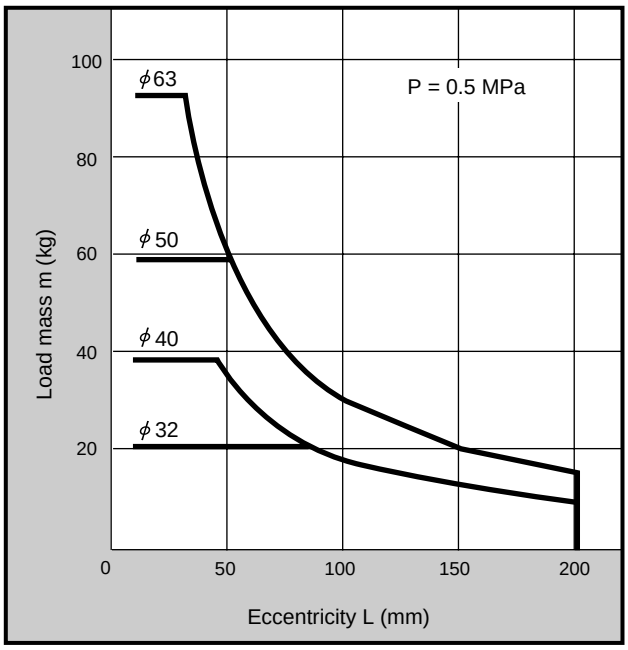
Bore size	Load factor for theoretical thrust
12, 16	40% or less
20, 25	50% or less
32 to 63	60% or less



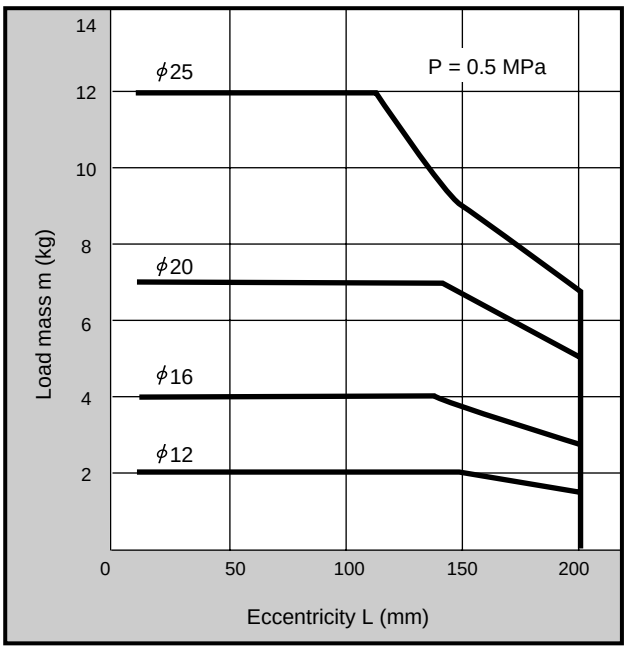
● STG-M-12 to 25
·50 mm stroke or less



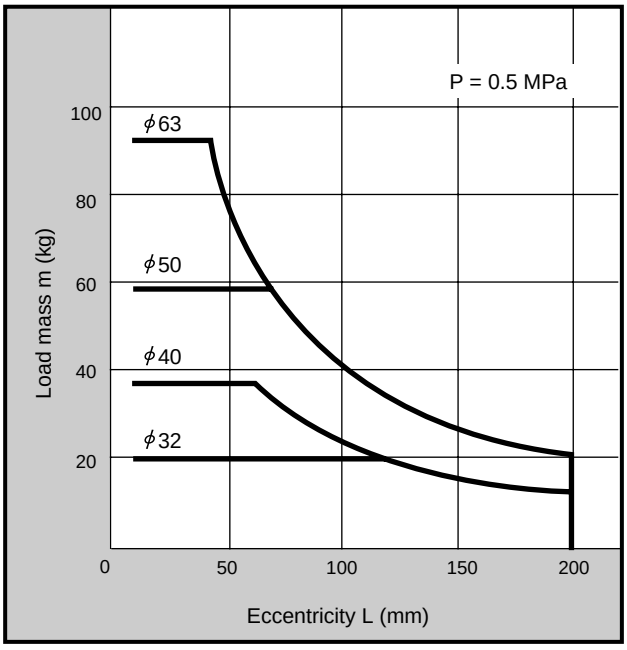
● STG-M-32 to 63
·50 mm stroke or less



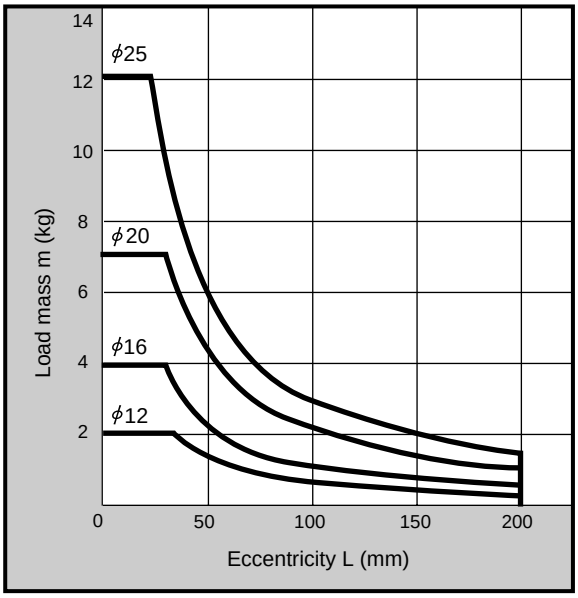
● STG-M-12 to 25
·50 mm stroke over



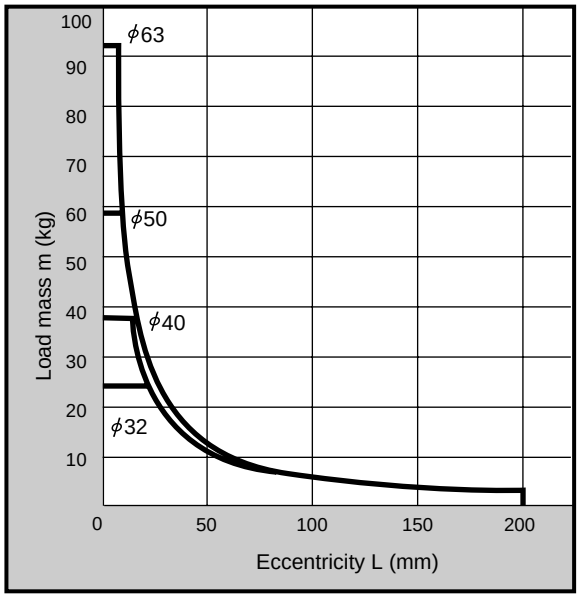
● STG-M-32 to 63
·50 mm stroke over



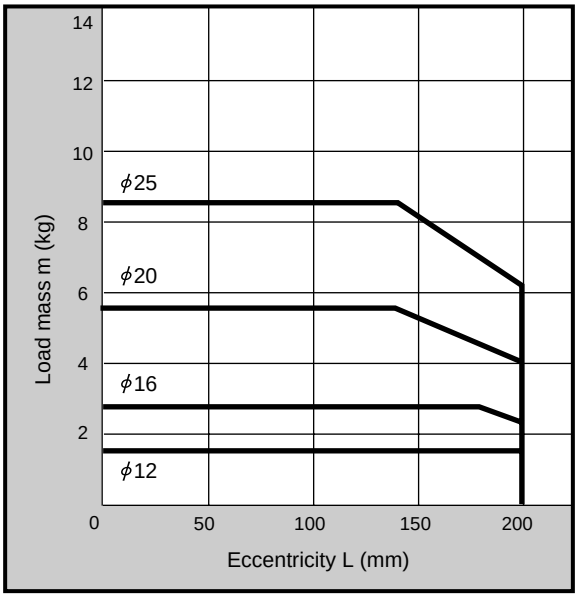
● STG-B-12 to 25
·30 mm stroke or less



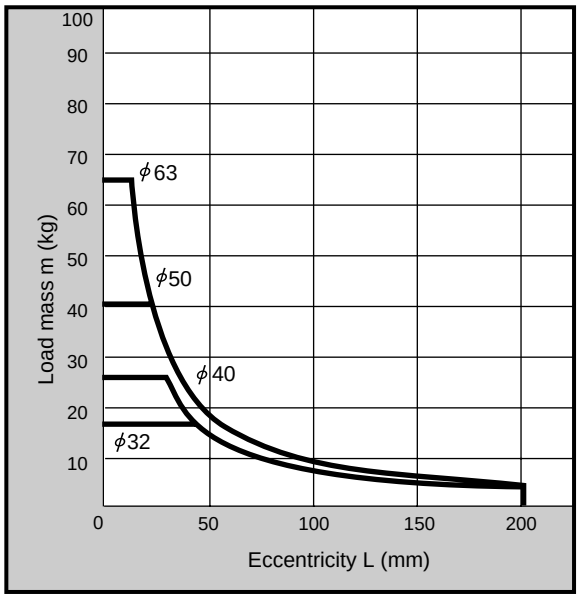
● STG-B-32 to 63
·50 mm stroke or less



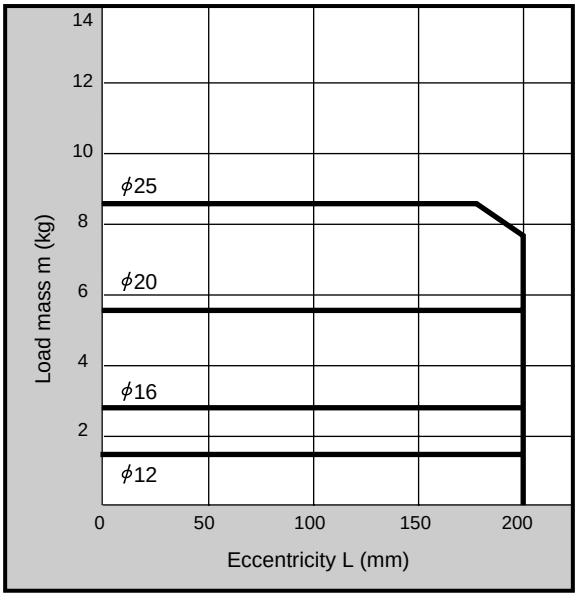
● STG-B-12 to 25
·30 to 100 mm stroke



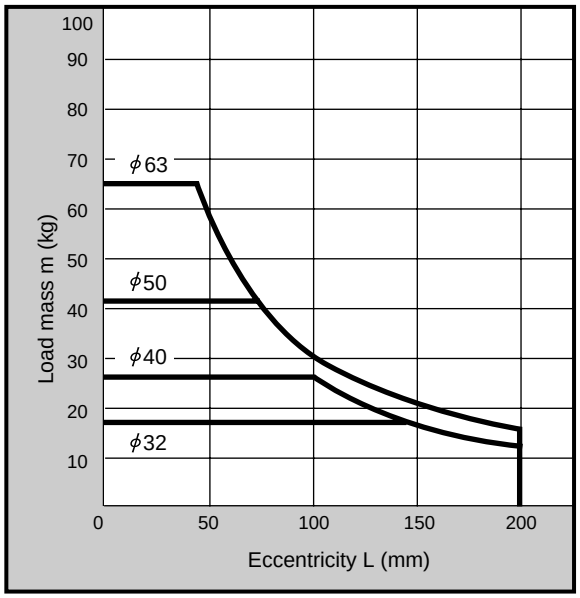
● STG-B-32 to 63
·50 to 100 mm stroke



● STG-B-12 to 25
·100 mm stroke over

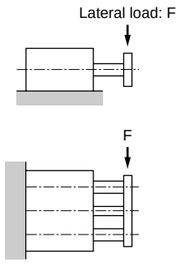


● STG-B-32 to 63
·100 mm stroke over



Selection guide

Allowable lateral load

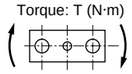


Unit: N

Bore size (mm)	Model No.	Bearing Type	Stroke length (mm)																	
			10	20	25	30	40	50	75	100	125	150	175	200	250	300	350	400		
ϕ12	STG-M	Metal bush bearing	29	24		20	18	16	20	17	15	13	12	10	9					
	STG-B	Ball bearing	38	27		22	34	29	21	16	12	11	9	8	6					
ϕ16	STG-M	Metal bush bearing	51	42		36	32	28	36	31	27	24	21	19	16					
	STG-B	Ball bearing	49	35		29	50	43	31	25	20	17	15	13	10					
ϕ20	STG-M	Metal bush bearing		67		58	51	46	60	51	45	40	36	33	28	24	21	19		
	STG-B	Ball bearing		52		42	76	65	49	38	60	51	44	39	32	27	23	20		
ϕ25	STG-M	Metal bush bearing		125		110	98	88	112	97	85	76	69	63	53	46	41	37		
	STG-B	Ball bearing		81		66	108	94	70	56	81	69	60	53	42	36	30	27		
ϕ32	STG-M	Metal bush bearing			223			180	179	156	138	124	112	103	88	77	68	61		
	STG-B	Ball bearing			171			120	190	159	123	106	93	83	66	56	48	42		
ϕ40	STG-M	Metal bush bearing			223			180	179	156	138	124	112	103	88	77	68	61		
	STG-B	Ball bearing			171			120	190	159	123	106	93	83	66	56	48	42		
ϕ50	STG-M	Metal bush bearing			348			286	292	257	230	208	190	174	150	132	118	106		
	STG-B	Ball bearing			181			129	215	181	139	121	106	95	78	67	58	50		
ϕ63	STG-M	Metal bush bearing			348			286	292	257	230	208	190	174	150	132	118	106		
	STG-B	Ball bearing			181			129	215	181	139	121	106	95	78	67	58	50		

Allowable torque

Torque: T (N·m)

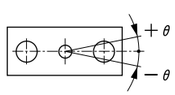


Unit: N·m

Bore size (mm)	Model No.	Bearing Type	Stroke length (mm)																	
			10	20	25	30	40	50	75	100	125	150	175	200	250	300	350	400		
ϕ12	STG-M	Metal bush bearing	0.30	0.25		0.21	0.18	0.16	0.21	0.18	0.15	0.13	0.12	0.11	0.09					
	STG-B	Ball bearing	0.39	0.28		0.23	0.35	0.30	0.21	0.17	0.13	0.11	0.09	0.08	0.07					
ϕ16	STG-M	Metal bush bearing	0.59	0.49		0.42	0.36	0.32	0.42	0.35	0.31	0.27	0.24	0.22	0.18					
	STG-B	Ball bearing	0.56	0.41		0.33	0.58	0.50	0.36	0.28	0.23	0.19	0.17	0.15	0.12					
ϕ20	STG-M	Metal bush bearing		0.90		0.78	0.69	0.62	0.80	0.69	0.61	0.54	0.49	0.44	0.37	0.32	0.29	0.26		
	STG-B	Ball bearing		0.70		0.57	1.02	0.88	0.66	0.52	0.80	0.69	0.60	0.53	0.43	0.36	0.31	0.27		
ϕ25	STG-M	Metal bush bearing		2.00		1.75	1.56	1.41	1.80	1.55	1.37	1.22	1.10	1.00	0.85	0.74	0.66	0.59		
	STG-B	Ball bearing		1.29		1.06	1.74	1.50	1.13	0.90	1.29	1.11	0.96	0.85	0.68	0.57	0.49	0.42		
ϕ32	STG-M	Metal bush bearing			4.35			3.50	3.48	3.04	2.69	2.42	2.19	2.01	1.72	1.50	1.33	1.20		
	STG-B	Ball bearing			3.33			2.34	3.70	3.10	2.40	2.07	1.82	1.61	1.29	1.09	0.94	0.82		
ϕ40	STG-M	Metal bush bearing			4.80			3.86	3.84	3.35	2.97	2.66	2.42	2.21	1.89	1.65	1.47	1.32		
	STG-B	Ball bearing			3.68			2.58	4.08	3.42	2.65	2.28	2.00	1.78	1.43	1.20	1.03	0.90		
ϕ50	STG-M	Metal bush bearing			9.56			7.86	8.02	7.07	6.32	5.71	5.21	4.79	4.13	3.63	3.23	2.92		
	STG-B	Ball bearing			4.99			3.56	5.90	4.99	3.83	3.32	2.93	2.61	2.16	1.83	1.58	1.39		
ϕ63	STG-M	Metal bush bearing			10.78			8.86	9.04	7.97	7.12	6.44	5.88	5.41	4.66	4.09	3.65	3.29		
	STG-B	Ball bearing			5.63			4.01	6.66	5.62	4.32	3.75	3.30	2.94	2.43	2.06	1.78	1.57		

Revolvable angle tolerance

(Reference value)



Descriptions / Bore size (mm)	Revolvable angle tolerance θ (degree). Metal bush bearing	Ball bearing
ϕ12	±0.08	±0.06
ϕ16		
ϕ20	±0.07	±0.05
ϕ25		
ϕ32	±0.06	±0.04
ϕ40		
ϕ50	±0.05	±0.03
ϕ63		

(Initial value for PULL) Note: Excluding guide rod's deflection

Selection guide

Movable part mass table

STG-M movable part mass table

Unit: kg

Bore size (mm)	Stroke length (mm)															
	10	20	25	30	40	50	75	100	125	150	175	200	250	300	350	400
ϕ12	0.12	0.13		0.14	0.15	0.16	0.20	0.23	0.27	0.30	0.32	0.35	0.40			
ϕ16	0.16	0.18		0.19	0.21	0.22	0.29	0.33	0.41	0.45	0.49	0.53	0.62			
ϕ20		0.33		0.35	0.38	0.40	0.52	0.58	0.64	0.70	0.76	0.82	1.00	1.13	1.24	1.35
ϕ25		0.52		0.56	0.60	0.64	0.84	0.95	1.05	1.15	1.25	1.34	1.66	1.87	2.06	2.26
ϕ32			1.07			1.23	1.42	1.58	1.74	1.90	2.07	2.23	2.73	3.06	3.40	3.71
ϕ40			1.14			1.30	1.49	1.65	1.81	1.98	2.14	2.30	2.82	3.13	3.47	3.78
ϕ50			2.15			2.40	2.75	3.00	3.26	3.51	3.76	4.02	4.85	5.37	5.88	6.38
ϕ63			2.50			2.75	3.09	3.35	3.60	3.86	4.11	4.36	5.19	5.70	6.21	6.72

STG-B movable part mass table

Unit: kg

Bore size (mm)	Stroke length (mm)															
	10	20	25	30	40	50	75	100	125	150	175	200	250	300	350	400
ϕ12	0.11	0.11		0.12	0.13	0.14	0.16	0.17	0.20	0.22	0.23	0.25	0.29			
ϕ16	0.15	0.16		0.17	0.20	0.21	0.24	0.27	0.32	0.35	0.38	0.41	0.47			
ϕ20		0.31		0.33	0.37	0.39	0.44	0.48	0.56	0.60	0.65	0.70	0.80	0.90	1.00	1.09
ϕ25		0.49		0.52	0.58	0.61	0.69	0.76	0.88	0.95	1.02	1.10	1.28	1.44	1.58	1.72
ϕ32			0.82			0.94	1.11	1.23	1.40	1.53	1.65	1.77	2.07	2.30	2.54	2.78
ϕ40			0.89			1.01	1.18	1.30	1.48	1.60	1.72	1.83	2.14	2.38	2.61	2.84
ϕ50			1.77			1.95	2.24	2.45	2.71	1.89	3.08	3.27	3.76	4.13	4.50	4.87
ϕ63			2.11			2.30	2.59	2.77	3.05	3.25	3.43	3.61	4.11	4.48	4.84	5.21

Calculating allowable energy absorption

Calculate kinetic energy of the load actually used, and confirm whether it is absorbed with the cylinder's allowable energy absorption.

- Values in the graph are used for the cylinder's allowable energy absorption (E).
- Calculation formula for load's kinetic energy

$$E=\frac{1}{2}X(W1+W2)\ X\ V^2X\frac{1}{10}$$

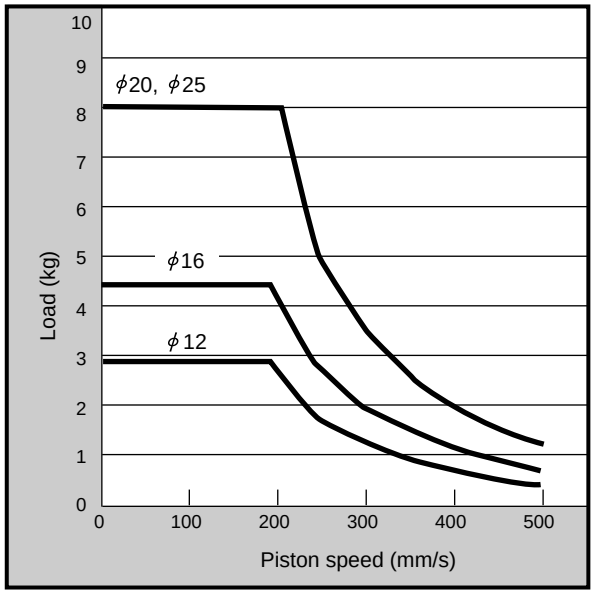
W1: Load (kg) W2: Cylinder movable part mass (kg)

V: Cylinder speed (mm/s)

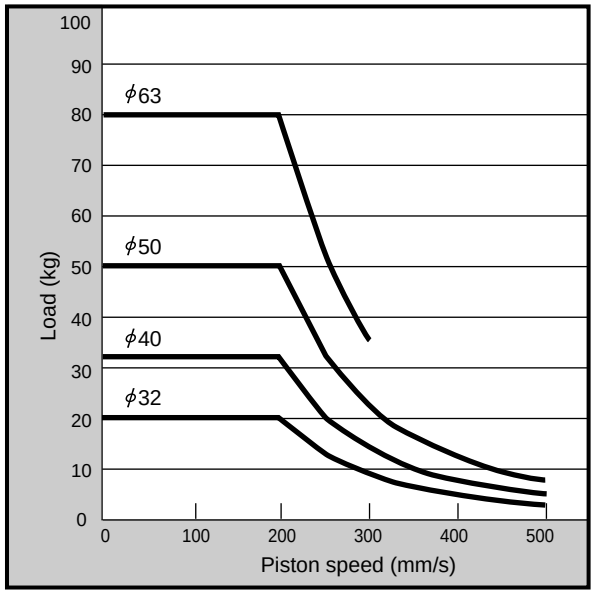
Allowable energy absorption

The cylinder can be used in the lower left range of the curve.An external damper must be installed for use in the upper right range.

- STG-12 to 25

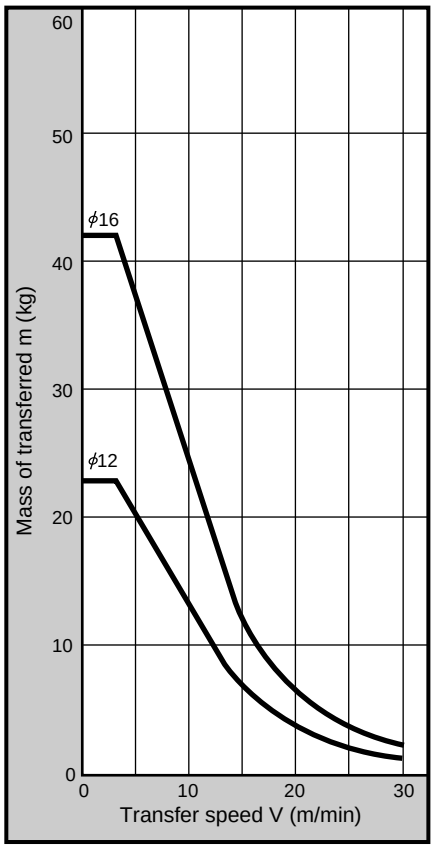


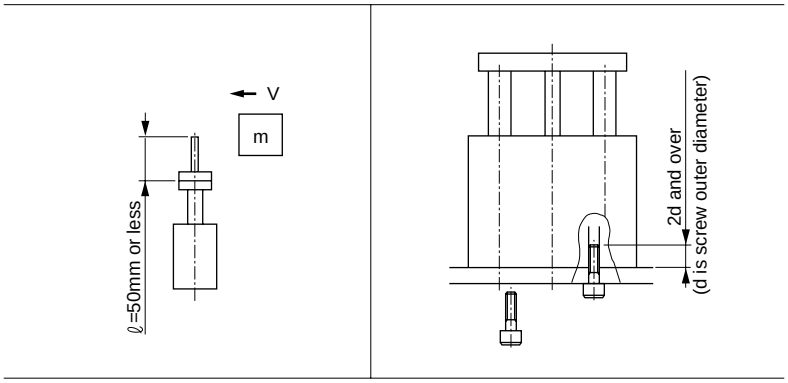
- STG-32 to 63



Working range when used as stopper

Impact load
STG-M-12, 16 (metal bush bearing)

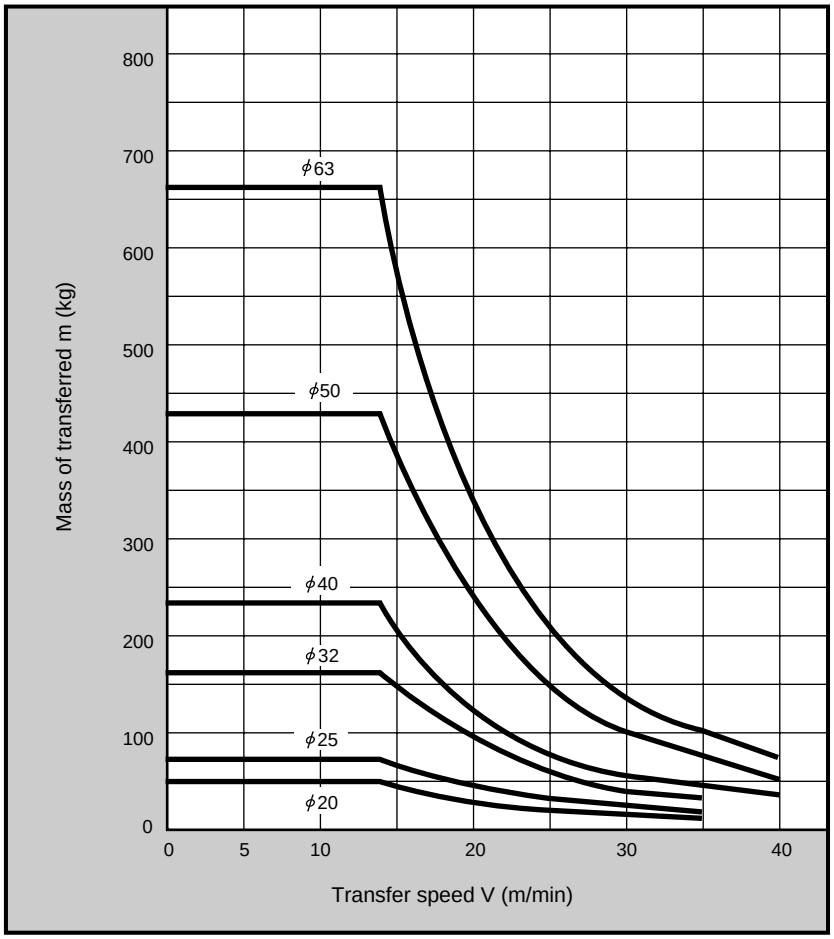




Precautions

Note 1: When used as a stopper, select a model with 50 mm stroke or less (STG-M) (30 mm stroke or less for ϕ12 to ϕ16.)
Note 2: The stopper must be ℓ = 50 mm or shorter.
Note 3: When fixing the cylinder, the bolt must be screwed in by 2d or deeper, and measures to prevent loosening, such as adhesive or spring washers, must be considered.(The screw depth for the ϕ80 is 1 d. d indicates the outer screw diameter.)
Note 4: The STG-B (ball bearing) cannot be used as a stopper.

Impact load
STG-M-20 to 63 (metal bush bearing)



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