

TGG Series Standard Cylinder

According ISO6431、ISO15552 Standard、VDMA24562



TGG80X100



TGG320X500

● Product characteristics

Without lubricating: Needn't lubricating on piston rod for using oiled bearing.

Cushion: Besides mounted cushion, there is adjustable buffer at the terminal of the cylinder to act smoothly.

Kinds of mounting: Have kinds of auxiliary components to choose.

With magnet: With permanent magnet on piston, it can touch the magnet switch to track cylinder's action.

■ Graphics Sign



● Ordering Code

TGG

Serier

50 X 50

Bore X Stroke

S

The Code name of magnet
S: With magnet
Blank: Without magnet

LB

Fix type:
Blank: Basic type
LB: Front and back be fixed
FA: Front port be fixed(front flange)
FB: Back port be fixed(Back flange)
CA: Back port be fixed(pivot type)
CB: Back port be fixed(clevis type)
TC: Trunion type

■ Ordering example

1) Bore: 50mm, Stroke: 50mm, CA installation, Code: TGG50×50—CA

2) Bore: 32mm, Stroke: 100mm, LB installation, Code: TGG32×100—LB

■ Standard Specification

Bore(mm)	32	40	50	63	80	100	125	160	200	250	320
Action	Double Action Type										
Applicable	Air										
Pressure Range	0.1 ~ 0.9 MPa										
Proof Pressure	1.35MPa										
Temperature Range	-10 ~ 60°C										
Speed Range	50 ~ 800mm/s										
Cushion Type	Adjustable Cushion										
Cushion Stroke	24mm					32mm			60mm	65mm	
Prot Size	G1/8	G1/4		G3/8		G1/2		G3/4		G1	

TGG Series Standard Cylinder

According ISO6431、ISO15552 Standard、VDMA24562

Stroke

Bore (mm)	Standard Stroke																Max. Stroke	Permissible Stroke
32	25	50	75	80	100	125	150	160	175	200	250	300	350	400	500		1000	2000
40	25	50	75	80	100	125	150	160	175	200	250	300	350	400	500	600	700	800
50	25	50	75	80	100	125	150	160	175	200	250	300	350	400	500	600	700	800
63	25	50	75	80	100	125	150	160	175	200	250	300	350	400	500	600	700	800
80	25	50	75	80	100	125	150	160	175	200	250	300	350	400	500	600	700	800
100	25	50	75	80	100	125	150	160	175	200	250	300	350	400	500	600	700	800
125	25	50	75	80	100	125	150	160	175	200	250	300	350	400	500	600	700	800
160	25	50	75	80	100	125	150	160	175	200	250	300	350	400	500	600	700	800
200	25	50	75	80	100	125	150	160	175	200	250	300	350	400	500	600	700	800
250	25	50	75	80	100	125	150	160	175	200	250	300	350	400	500	600	700	800
320	25	50	75	80	100	125	150	160	175	200	250	300	350	400	500	600	700	800

Figure Dimension

Φ32 — Φ320

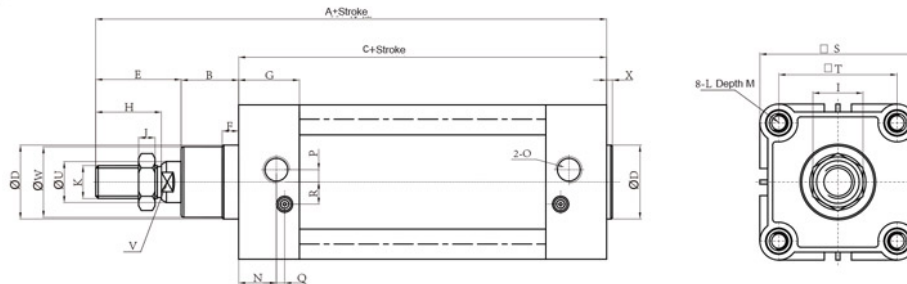


Figure Dimension(mm)

Bore/Code	A	B	C	D	E	F	G	H	I	J	K	L
32	142	16	94	30	32	10	27.5	22	17	6	M10×1.25	M6
40	162	20	108	35	34	10	29.5	24	17	7	M12×1.25	M6
50	178	27	109	40	42	10	32	32	23	8	M16×1.5	M8
63	193	26	125	45	42	10	36	32	23	8	M16×1.5	M8
80	216	35	129	45	52	10	37	40	26	10	M20×1.5	M10
100	232	40	140	55	52	10	39	40	26	10	M20×1.5	M10
125	279	46	160	60	73	11	44.7	54	40	13.5	M27×2	M12
160	332	60	180	65	92	10	50	72	—	—	M36×2	M16
200	347	70	180	75	97	10	50	72	—	—	M36×2	M16
250	389	80	200	90	109	15	60	84	—	20	M42×2	M20
320	430	90	220	112	120	13	65	90	—	30	M48×2	M24

Bore/Code	M	N	O	P	Q	R	S	T	U	V	W	X
32	9.5	15	G1/8	5	3	6.5	46.5	32.5	12	10	28	4
40	9.5	17.5	G1/4	7	3	7	54	38	16	13	33	4
50	9.5	21	G1/4	7	3	9	64.5	46.5	20	17	38	4
63	9.5	23	G3/8	8	5	9	77	56.5	20	17	40	4
80	11	24	G3/8	10	5	12	95	72	25	22	43	4
100	11	26	G1/2	10	5	14	115	89	25	22	47	4
125	12	22.3	G1/2	13	8	16	142	110	32	27	58	6
160	14	25	G3/4	—	—	—	179	140	40	36	—	6
200	14	25	G3/4	—	—	—	221	175	40	36	—	6
250	21	30	G3/4	20	10	25	275	220	50	44	90	10
320	21	38.5	G1	17	7	37.5	343	270	60	55	100	10

TGGD Series Standard Cylinder

According ISO6431、ISO15552 Standard、VDMA24562



● Product characteristics

Without lubricating: Needn't lubricating on piston rod for using oiled bearing.

Cushion: Besides mounted cushion, there is adjustable buffer at the terminal of the cylinder to act smoothly.

Kinds of mounting: Have kinds of auxiliary components to choose.

With magnet: With permanent magnet on piston, it can touch the magnet switch to track cylinder's action.

■ Graphics Sign



● Ordering Code

TGGD

Series

50 X 50

Bore X Stroke

S

The Code name of magnet

S: With magnet

Blank: Without magnet

LB

Fix type:

Blank: Basic type

LB: Front and back be fixed

FA: Front port be fixed(front flange)

TC: Trunion type

■ Ordering example

1) Bore: 50mm, Stroke: 50mm, FA installation, Code: TGGD50×50-FA

2) Bore: 32mm, Stroke: 100mm, LB installation, Code: TGGD32×100-LB

■ Standard Specification

Bore(mm)	32	40	50	63	80	100	125	160	200	250	320
Action	Double Action Type										
Applicable	Air										
Pressure Range	0.1 ~ 0.9 MPa										
Proof Pressure	1.35MPa										
Temperature Range	-10 ~ 60°C										
Speed Range	50 ~ 800mm/s										
Cushion Type	Adjustable Cushion										
Cushion Stroke	24mm					32mm			60mm	65mm	
Port Size	G1/8	G1/4		G3/8		G1/2		G3/4		G1	

■ Stroke

Bore (mm)	Standard Stroke													Max. Stroke	Premissible Stroke
32	25 50 75 80 100 125 150 160 175 200 250 300													200	300
40	25 50 75 80 100 125 150 160 175 200 250 300													200	300
50	25 50 75 80 100 125 150 160 175 200 250 300													200	300
63	25 50 75 80 100 125 150 160 175 200 250 300													200	300
80	25 50 75 80 100 125 150 160 175 200 250 300													300	400
100	25 50 75 80 100 125 150 160 175 200 250 300													300	400
125	25 50 75 80 100 125 150 160 175 200 250 300 350 400 500 600 700 800 900 1000													1500	2000
160	25 50 75 80 100 125 150 160 175 200 250 300 350 400 500 600 700 800 900 1000													1500	2000
200	25 50 75 80 100 125 150 160 175 200 250 300 350 400 500 600 700 800 900 1000													1500	2000
250	25 50 75 80 100 125 150 160 175 200 250 300 350 400 500 600 700 800 900 1000													1500	2000
320	25 50 75 80 100 125 150 160 175 200 250 300 350 400 500 600 700 800 900 1000													1500	2000

TGGD Series Standard Cylinder

Figure Dimension

Φ32 — Φ320

According ISO6431、ISO15552 Standard、VDMA24562

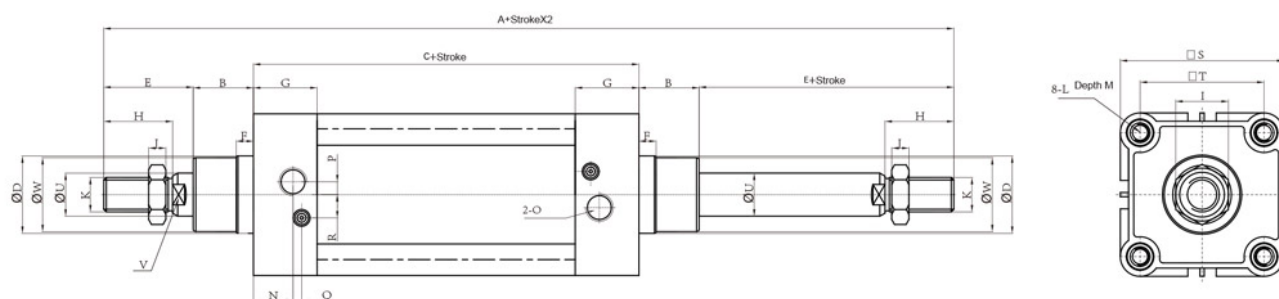


Figure Dimension(mm)

Bore/Code	A	B	C	D	E	F	G	H	I	J	K	L
32	190	16	94	30	32	10	27,5	22	17	6	M10×1,25	M6
40	216	20	108	35	34	10	29,5	24	17	7	M12×1,25	M6
50	247	27	109	40	42	10	32	32	23	8	M16×1,5	M8
63	261	26	125	45	42	10	36	32	23	8	M16×1,5	M8
80	303	35	129	45	52	10	37	40	26	10	M20×1,5	M10
100	324	40	140	55	52	10	39	40	26	10	M20×1,5	M10
125	352	46	160	60	73	11	44,7	54	40	13,5	M27×2	M12
160	484	60	180	65	92	10	50	72	—	—	M36×2	M16
200	514	70	180	75	96	10	50	72	—	—	M36×2	M16
250	578	80	200	90	109	15	60	84	—	20	M42×2	M20
320	640	90	220	112	120	13	65	90	—	30	M48×2	M24

Bore/Code	M	N	O	P	Q	R	S	T	U	V	W
32	9.5	15	G1/8	5	3	6,5	46,5	32,5	12	10	28
40	9.5	17,5	G1/4	7	3	7	54	38	16	13	33
50	9.5	21	G1/4	7	3	9	64,5	46,5	20	17	38
63	9.5	23	G3/8	8	5	9	77	56,5	20	17	40
80	11	24	G3/8	10	5	12	95	72	25	22	43
100	11	26	G1/2	10	5	14	115	89	25	22	47
125	12	22,3	G1/2	13	8	16	142	110	32	27	58
160	14	25	G3/4	—	—	—	179	140	40	36	—
200	14	25	G3/4	—	—	—	221	175	40	36	—
250	21	30	G3/4	20	10	25	275	220	50	44	90
320	21	38,5	G1	17	7	37,5	343	270	60	55	100

TGGJ Series Standard Cylinder

According ISO6431、ISO15552 Standard、VDMA24562



● Product characteristics

Without lubricating: Needn't lubricating on piston rod for using oiled bearing.

Cushion: Besides mounted cushion, there is adjustable buffer at the terminal of the cylinder to act smoothly.

Kinds of mounting: Have kinds of auxiliary components to choose.

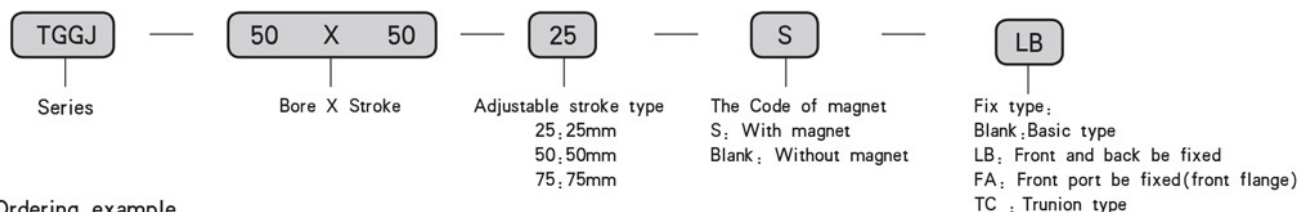
With magnet: With permanent magnet on piston, it can touch the magnet switch to track cylinder's action.

Adjustable stroke: Attached with adjustable nut, cylinder can adjust the stroke within its stroke range.

■ Graphics Sign



● Ordering Code



■ Ordering example

- 1) Bore: 50mm, Stroke: 50mm, adjustable stroke: 25, LB installation, Code: TGGJ50×50—25—LB
- 2) Bore: 32mm, Stroke: 100mm, adjustable stroke: 25, FA installation, Code: TGGJ32×100—25—FA

■ Standard Specification

Bore(mm)	32	40	50	63	80	100	125	160	200	250	320
Action	Double Action Type										
Applicable	Air										
Pressure Range	0.1 ~ 0.9 MPa										
Proof Pressure	1.35MPa										
Temperature Range	-10 ~ 60°C										
Speed Range	50 ~ 800mm/s										
Cushion Type	Adjustable Cushion										
Cushion Stroke	24mm					32mm			60mm	65mm	
Prot Size	G1/8	G1/4		G3/8		G1/2		G3/4		G1	

■ Stroke

Bore (mm)	Standard Stroke	Max. Stroke	Premissible Stroke
32	25 50 75 80 100 125 150 160 175 200	200	300
40	25 50 75 80 100 125 150 160 175 200	200	300
50	25 50 75 80 100 125 150 160 175 200	200	300
63	25 50 75 80 100 125 150 160 175 200	200	300
80	25 50 75 80 100 125 150 160 175 200 250 300	300	400
100	25 50 75 80 100 125 150 160 175 200 250 300	300	400
125	25 50 75 80 100 125 150 160 175 200 250 300 350 400 500 600 700 800 900 1000	1500	2000
160	25 50 75 80 100 125 150 160 175 200 250 300 350 400 500 600 700 800 900 1000	1500	2000
200	25 50 75 80 100 125 150 160 175 200 250 300 350 400 500 600 700 800 900 1000	1500	2000
250	25 50 75 80 100 125 150 160 175 200 250 300 350 400 500 600 700 800 900 1000	1500	2000
320	25 50 75 80 100 125 150 160 175 200 250 300 350 400 500 600 700 800 900 1000	1500	2000

TGGJ Series Standard Cylinder

According ISO6431、ISO15552 Standard、VDMA24562

Figure Dimension

Φ32 — Φ320

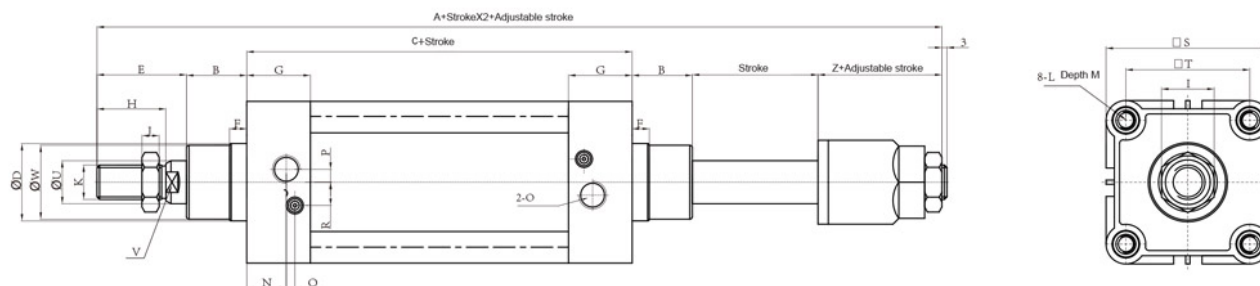


Figure Dimension(mm)

Bore/Code	A	B	C	D	E	F	G	H	I	J	K	L
32	185	16	94	30	32	10	27,5	22	17	6	M10×1,25	M6
40	210	20	108	35	34	10	29,5	24	17	7	M12×1,25	M6
50	236	27	109	40	42	10	32	32	23	8	M16×1,5	M8
63	250	26	125	45	42	10	36	32	23	8	M16×1,5	M8
80	290	35	129	45	52	10	37	40	26	10	M20×1,5	M10
100	311	40	140	55	52	10	39	40	26	10	M20×1,5	M10
125	—	46	160	60	73	11	44,7	54	40	13,5	M27×2	M12
160	—	60	180	65	92	10	50	72	—	—	M36×2	M16
200	—	70	180	75	96	10	50	72	—	—	M36×2	M16
250	—	80	200	90	109	15	60	84	—	20	M42×2	M20
320	—	90	220	112	120	13	65	90	—	30	M48×2	M24

Bore/Code	M	N	O	P	Q	R	S	T	U	V	W	Z
32	9,5	15	G1/8	5	3	6,5	46,5	32,5	12	10	28	28
40	9,5	17,5	G1/4	7	3	7	54	38	16	13	33	28
50	9,5	21	G1/4	7	3	9	64,5	46,5	20	17	38	31
63	9,5	23	G3/8	8	5	9	77	56,5	20	17	40	31
80	11	24	G3/8	10	5	12	95	72	25	22	43	39
100	11	26	G1/2	10	5	14	115	89	25	22	47	39
125	12	22,3	G1/2	13	8	16	142	110	32	27	58	—
160	14	25	G3/4	—	—	—	179	140	40	36	—	—
200	14	25	G3/4	—	—	—	221	175	40	36	—	—
250	21	30	G3/4	20	10	25	275	220	50	44	90	—
320	21	38,5	G1	17	7	37,5	343	270	60	55	100	—