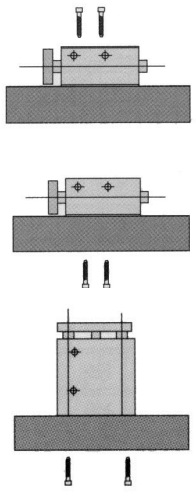
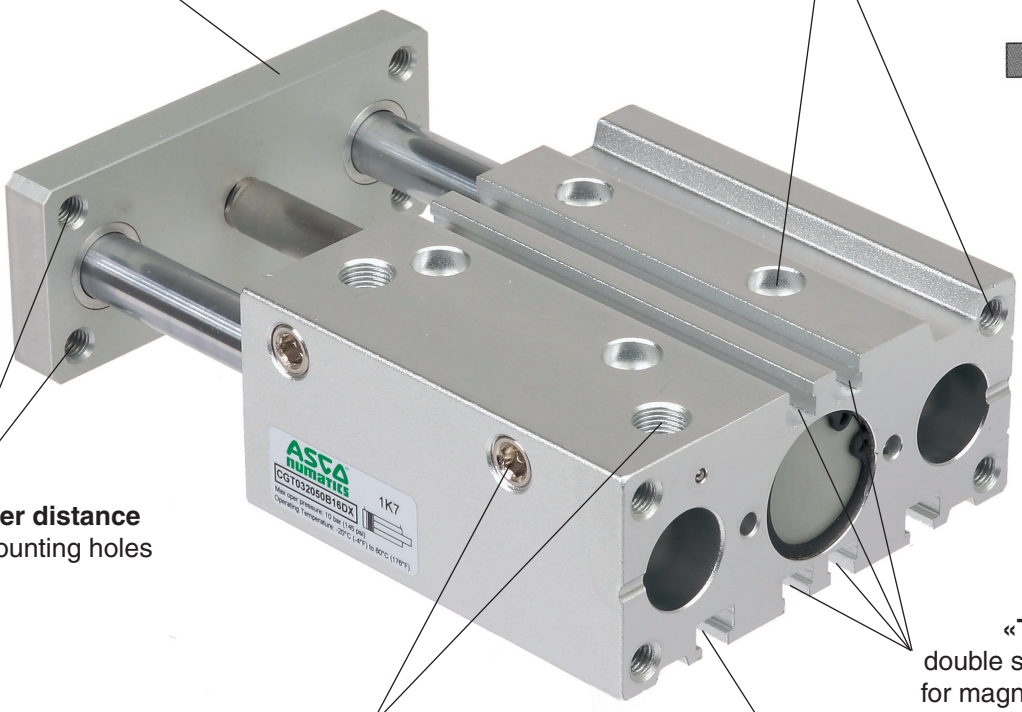
cylinder	Ø (mm)	stroke (mm)	illustration	type	series	page
Air cylinder guide with plain or ball bearings guide	16 to 63	10 to 200		CGT	CGT	**154**
Twin piston air cylinder with plain bearings guide or ball bearings guide	16 to 32	10 to 160		P2L P2B	447	**160** **161**

- Transfer and positioning of loads with accurate force, torque, speed and position control
- Compact design, ideally suited for installation in confined spaces
- Options for dusty environments, precision metal component manufacturing and welding applications
- Linear guide slides with plain bronze or ball bearings



Mounting
easy adaptation with a large choice of mounting options

Sturdy
Front plate in precision-formed steel

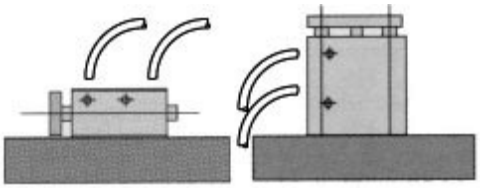


Center-to-center distance
between load mounting holes

«T» slot
double slot on 2 sides for magnetic detectors

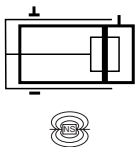
Connection
on 2 sides

Slot
for fixing with plugs



GUIDE CYLINDER

Ø 16 to 63 mm - double acting
with plain bronze or linear ball bearings



Series
CGT

FEATURES

- *Compact guide slide with pneumatic ports on two sides*
- *Excellent resistance to radial loads and torque*

GENERAL

Detection	**Equipped for magnetic position detectors**
Fluid	Air or neutral gas, filtered, lubricated or not
Operating pressure	10 bar max.
Ambient temperature	-20°C to +80°C
Max. speed	de 0,4 to 0,8 m/s

CONSTRUCTION

Body	Anodised aluminium alloy
Seals	Highly wear-resistant polyurethane
Guiding rods	Hardened and polished steel
Wiper seals	Reinforced steel
Piston	Fitted with a permanent annular magnet
Front plate	Treated steel
Bearings	Plain bronze or ball

SPECIFICATIONS

How to order : (example)

Configurator - CAD Files

CGT 032 050 B 1 6 D X

Diameter	
016 =	16 mm
020 =	20 mm
025 =	25 mm
032 =	32 mm
040 =	40 mm
050 =	50 mm
063 =	63 mm

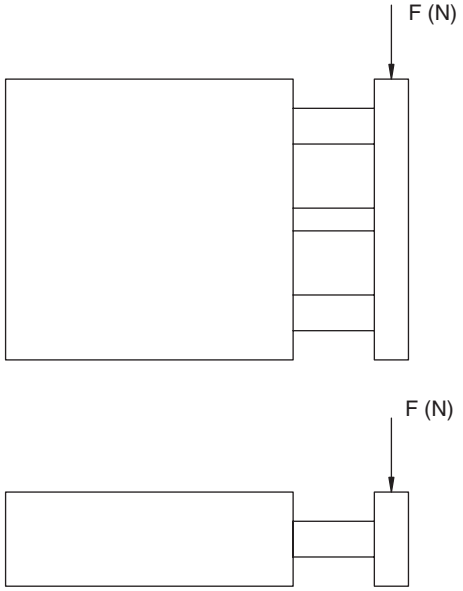
Ø (mm)	Standard stroke (mm) (recommended standard strokes)											
	10	20	25	30	40	50	75	100	125	150	175	200
16	●	●		●	●	●	●	●				
20		●		●	●	●	●	●	●	●	●	●
25		●	●	●	●	●	●	●	●	●	●	●
32			●			●	●	●	●	●	●	●
40			●			●	●	●	●	●	●	●
50			●			●	●	●	●	●	●	●
63			●			●	●	●	●	●	●	●

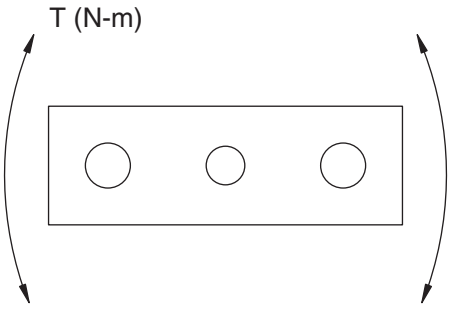
Bearing option	
B	Plain bronze
L	Linear ball bearing

Options	
X =	No option
A =	Adjustable Stroke
L =	Front and Rear Metal Scraper
G =	Front Plate Reinforced Seals
R =	Front & Rear Reinforced Seals
M =	Front Plate Metal Scraper
B =	Pneumatic Cushioning
C =	Double Tooling Plate

■ **DETECTORS** : The magnetic position detectors must be ordered separately :
- "T" model, magneto-resistive type

MAXIMUM ADMISSIBLE LOAD





Load / Stroke

Load values = N

Ø (mm)	bearing type	stroke							
		10	20	25	30	40	50	75	100
16	Bronze	28,0	28,0	-	25,0	22,0	19,0	-	-
	Linear ball	35,0	30,0	-	26,0	37,0	33,0	-	-
20	Bronze	-	51,0	-	44,0	38,0	34,0	53,0	44,0
	Linear ball	-	55,0	-	47,0	78,0	69,0	57,0	49,0
25	Bronze	-	70,0	-	60,0	53,0	47,0	59,0	51,0
	Linear ball	-	71,0	-	61,0	77,0	72,0	77,0	65,0
32	Bronze	-	-	88,0	-	-	59,0	137,0	108,0
	Linear ball	-	-	196,0	-	-	167,0	275,0	216,0
40	Bronze	-	-	88,0	-	-	59,0	137,0	108,0
	Linear ball	-	-	196,0	-	-	167,0	275,0	216,0
50	Bronze	-	-	137,0	-	-	88,0	215,0	176,0
	Linear ball	-	-	294,0	-	-	255,0	392,0	313,0
63	Bronze	-	-	137,0	-	-	88,0	215,0	176,0
	Linear ball	-	-	294,0	-	-	255,0	392,0	313,0

Twisting moment / Stroke

Moment = Nm

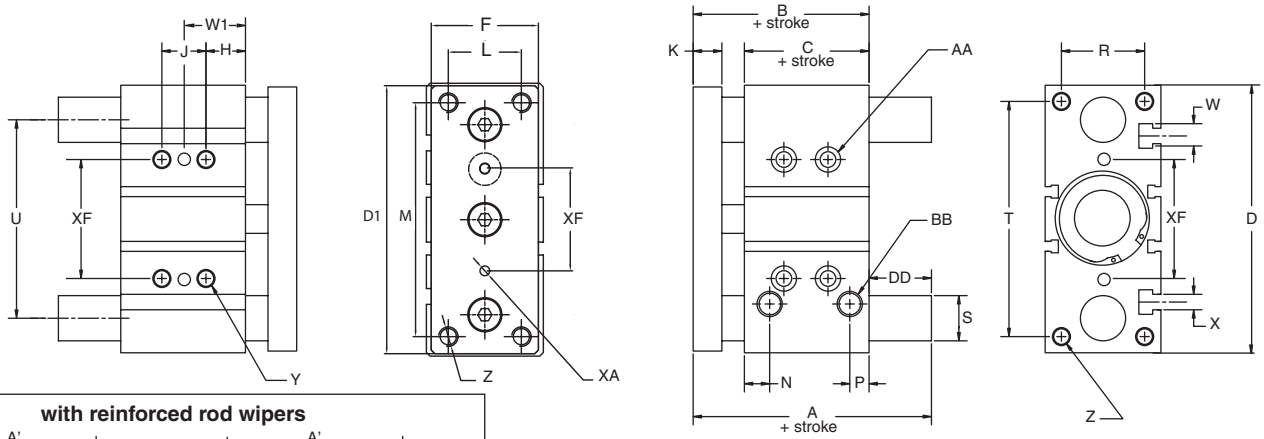
Ø (mm)	bearing type	stroke							
		10	20	25	30	40	50	75	100
16	Bronze	0,51	0,43	-	0,35	0,31	0,27	-	-
	Linear ball	0,75	0,58	-	0,48	0,71	0,64	-	-
20	Bronze	-	0,91	-	0,78	0,71	0,63	1,04	0,88
	Linear ball	-	1,26	-	1,06	1,77	1,58	1,22	1,01
25	Bronze	-	1,53	-	1,31	1,16	1,03	1,65	1,41
	Linear ball	-	1,96	-	1,69	2,16	2,00	1,68	1,42
32	Bronze	-	-	1,96	-	-	2,94	2,45	1,96
	Linear ball	-	-	3,92	-	-	0,98	2,94	2,45
40	Bronze	-	-	2,45	-	-	1,45	2,94	2,45
	Linear ball	-	-	4,41	-	-	3,43	6,37	5,39
50	Bronze	-	-	3,43	-	-	2,45	4,90	4,41
	Linear ball	-	-	7,35	-	-	5,88	10,78	8,33
63	Bronze	-	-	3,43	-	-	2,45	4,90	4,41
	Linear ball	-	-	7,35	-	-	5,88	10,78	8,33

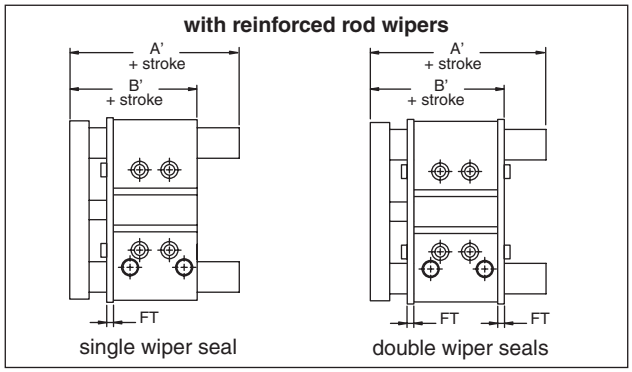
Output force / Pressure

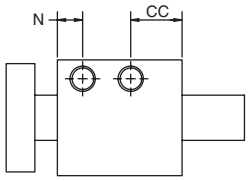
	16	20	25	32	40	50	63
Extend force (N) at 6 bar	120 (N)	187 (N)	293 (N)	472 (N)	747 (N)	1161 (N)	1700 (N)
Retract force (N) at 6 bar	91 (N)	141 (N)	247 (N)	406 (N)	624 (N)	974 (N)	1540 (N)

DIMENSIONS (mm), WEIGHT (kg)

Configurator - CAD Files







Ø (mm)	B	B'	C	D	D1	F	FT	H	K	L	M	N	P	R
16	46,0	-	33,0	64,0	62,0	25,0	-	5,0	8,0	16,0	54,0	11,0	8,0	22,0
20	53,0	63,0	37,0	83,0	81,0	30,0	5	17,0	10,0	18,0	70,0	10,5	8,5	24,0
25	53,5	63,5	37,5	93,0	91,0	38,0	5	17,0	10,0	26,0	78,0	11,5	9,0	30,0
32	59,5	69,5	37,5	112,0	110,0	44,0	6	21,0	12,0	30,0	96,0	12,5	9,0	34,0
40	66,0	76,0	44,0	120,0	118,0	44,0	6	22,0	12,0	30,0	104,0	14,0	10,0	40,0
50	72,0	82,0	44,0	148,0	146,0	60,0	6	24,0	16,0	40,0	130,0	14,0	11,0	46,0
63	77,0	87,0	49,0	162,0	158,0	70,0	6	24,0	16,0	50,0	130,0	16,5	13,5	58,0

Ø (mm)	S	T	U	W	X	Y	Z	AA	BB	CC	XA	XF
16	10,0	56,0	46,0	7,40	4,4	M5	M5	4 mm SHCS	M5	18,0	3	24,0
20	12,0	72,0	54,0	8,40	5,5	M6	M5	5 mm SHCS	G 1/8	24,5	3	28,0
25	16,0	82,0	64,0	8,40	5,5	M6	M6	5 mm SHCS	G 1/8	24,0	4	34,0
32	20,0	98,0	78,0	10,50	6,5	M8	M8	6 mm SHCS	G 1/8	30,5	4	42,0
40	20,0	106,0	86,0	10,50	6,5	M8	M8	6 mm SHCS	G 1/8	31,0	4	50,0
50	25,0	130,0	110,0	13,5	8,5	M10	M10	8 mm SHCS	G 1/4	35,0	5	66,0
63	25,0	142,0	124,0	17,8	11,0	M10	M10	8 mm SHCS	G 1/4	35,0	5	80,0

Ø (mm)	plain bronze bearing						stroke linear ball bearing											
	A	A'	A	A'	DD	DD	A	A'	A	A'	DD	DD	J	J	J	W1	W1	W1
16	46,0 (10-50)	-	64,5 (75-100)	-	0 (10-50)	18,5 (75-100)	46,0 (10-30)	-	66,0 (40-100)	-	0 (10-30)	20 (40-100)	24 (10-30)	44 (40-100)		17 (10-30)	27 (40-100)	
20	53,0 (20-50)	63,0 (20-50)	84,5 (75-200)	94,5 (75-200)	0 (20-50)	31,5 (75-200)	53,0 (20-30)	63,0 (20-30)	85,5 (40-200)	95,5 (40-200)	0 (20-30)	32,5 (40-200)	24 (20-30)	44 (40-100)	120 (125-200)	29 (20-30)	39 (40-100)	77 (125-200)
25	53,5 (20-50)	63,5 (20-50)	85,0 (75-200)	95,0 (75-200)	0 (20-50)	31,5 (75-200)	53,5 (20-30)	63,5 (20-30)	86,0 (40-200)	96,0 (40-200)	0 (20-30)	32,5 (40-200)	24 (20-30)	44 (40-100)	120 (125-200)	29 (20-30)	39 (40-100)	77 (125-200)
32	97,0 (25-50)	107,0 (25- 50)	107,0 (75-200)	117,0 (75-200)	37,5 (25-50)	47,5 (75-200)	97,0 (25-50)	107,0 (25-50)	107 (75-200)	117 (75-200)	37,5 (25-50)	47,5 (75-200)	24 (25)	48 (50-100)	124 (125-200)	33 (25)	45 (50-100)	83 (125-200)
40	97,0 (25-50)	107,0 (25-50)	107,0 (75-200)	117,0 (75-200)	31 (25-50)	41 (75-200)	97,0 (25-50)	107,0 (25-50)	107 (75-200)	117 (75-200)	31 (25-50)	41 (75-200)	24 (25)	48 (50-100)	124 (125-200)	34 (25)	46 (50-100)	84 (125-200)
50	106,5 (25-50)	116,5 (25-50)	118,0 (75-200)	128,0 (75-200)	34,5 (25-50)	46 (75-200)	106,5 (25) 114 (50)	116,5 (25) 124 (50)	118 (75-200)	128 (75-200)	34,5 (25) 42 (50)	46 (75-200)	24 (25)	48 (50-100)	124 (125-200)	36 (25)	48 (50-100)	86 (125-200)
63	106,5 (25-50)	116,5 (25-50)	118,0 (75-200)	128,0 (75-200)	29,5 (25-50)	41 (75-200)	106,5 (25) 114 (50)	116,5 (25) 124 (50)	118 (75-200)	128 (75-200)	29,5 (25) 37 (50)	41 (75-200)	28 (25)	52 (50-100)	128 (125-200)	38 (25)	50 (50-100)	88 (125-200)

Weights (kg)

Ø (mm)	stroke 10	20	25	30	40	50	75	100	125	150	175	200
16	0,350	0,400		0,450	0,500	0,550	0,750	0,900				
20		0,690		0,830	0,910	0,990	1,310	1,510	1,625	1,740	1,855	1,970
25		0,870		0,990	1,080	1,260	1,680	2,100	2,500	2,900	3,300	3,700
32			1,770			2,120	2,770	3,080	3,410	3,740	4,065	4,395
40			1,990			2,390	2,940	3,050	3,460	3,880	4,300	4,720
50			3,355			3,955	4,755	5,355	5,955	6,555	7,155	7,755
63			4,030			5,070	5,790	6,505	7,225	7,945	8,660	9,380