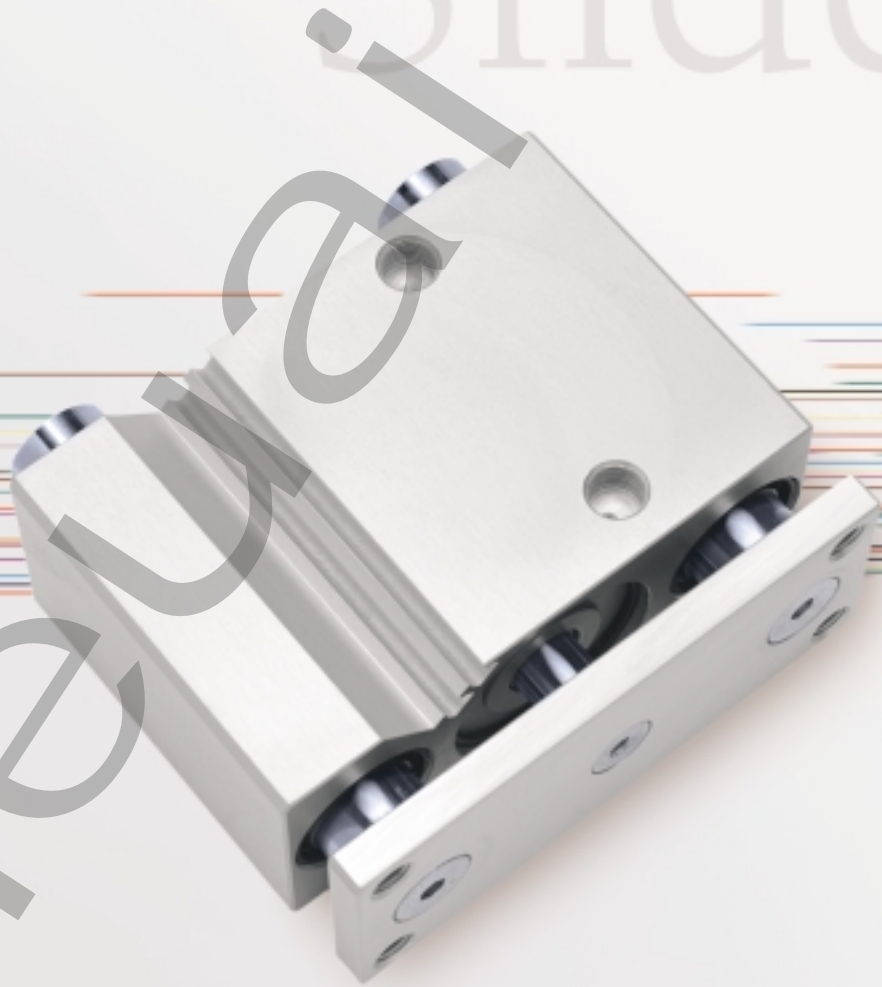


ORDER  
ONLINE



Slides



***CGS Series***

***Compact Guide Slide***

*We're everywhere you need us to be!*



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Pneuhair



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CGS Series Compact Guide Slide

**A. Body**

Anodized aluminum alloy, lightweight and durable. Precision machined mounting surface with tapped hole accessible from bottom side.

**B. Tool Plate**

Precision machines anodized aluminum alloy, easy access mounting holes for tooling attachment.

**C. Bearings**

Two choices, recirculating ball for heavy-duty applications and sintered bronze for medium to light duty applications.

**D. Rod Wipers**

Steel reinforced rod wiper assures wiping action on guide shafts to protect bearings from operating environment contamination.

**E. Guide Shafts**

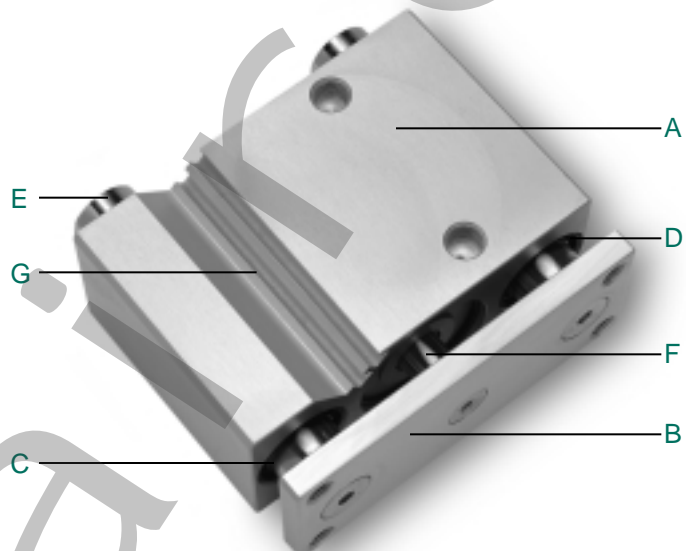
Hardened, ground and polished, Oversized diameter for additional load support and rigidity.

**F. Piston**

Internal to body. Magnetic band for position sensing standard on all sizes and strokes.

**G. Sensor Mounting Track**

Extruded directly in body, no external brackets, easy access for Hall effect and Reed switches.



How to Order

**CGS 032 050 B 1 6 D X**

**Bore Diameter**

- 016 = 16 mm
- 020 = 20 mm
- 025 = 25 mm
- 032 = 32 mm
- 040 = 40 mm
- 050 = 50 mm

**Stroke**

- 010 = 10 mm
- 020 = 20 mm
- 025 = 25 mm
- 030 = 30 mm
- 040 = 40 mm
- 050 = 50 mm
- 075 = 75 mm
- 100 = 100 mm

Reference Standard Stroke table for available bore and stroke.

**Bearing Option**

- B = Bronze Bushing
- L = Linear Ball Bearing

**Seal Option**

- 1 = Buna-N

**Options**

- X = No Options

**Sensing Position**

- A = Single Position Extend
- B = Single Position Retract
- C = Two Position Sensing
- D = No Sensing

**Sensing Type**

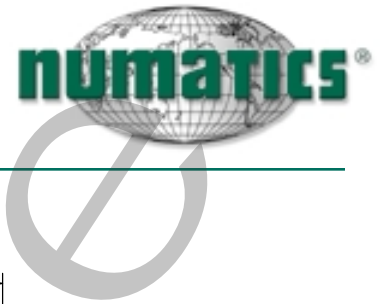
- Standard Cord Set
    - 1 = Hall Effect - PNP (sourcing)
    - 2 = Hall Effect - NPN (sinking)
    - 3 = Reed Switch
    - 6 = No Sensing
  - Quick Connect Cord Set
    - Z = Hall Effect - PNP (sourcing)
    - Y = Hall Effect - NPN (sinking)
    - X = Reed Switch
- See Sensor section.

When Ordering Additional Sensors

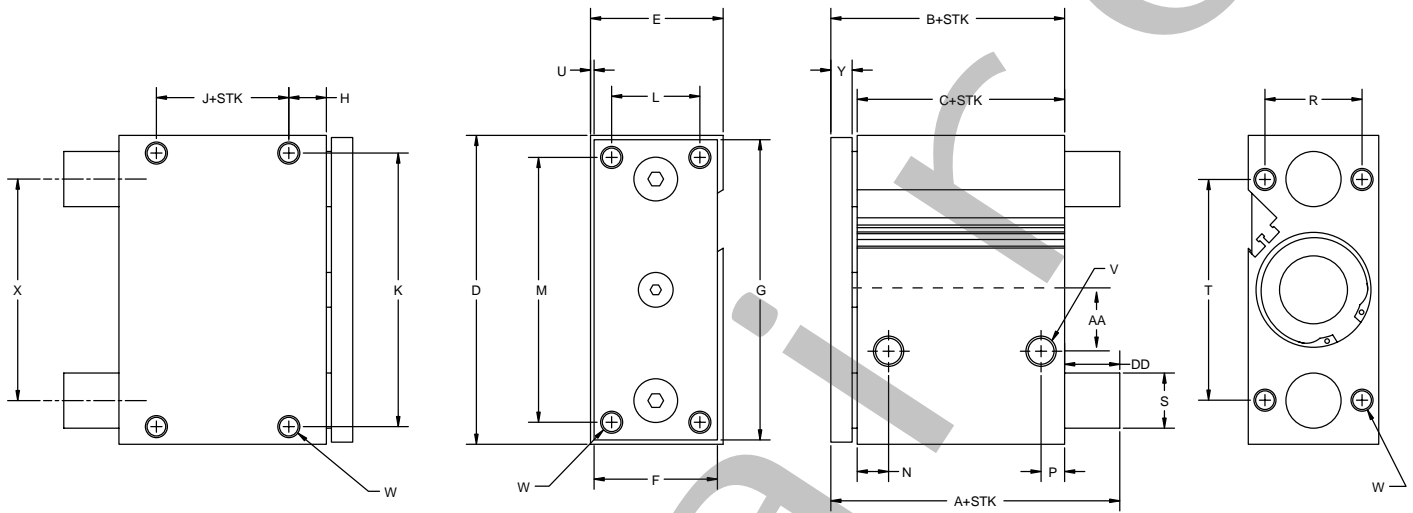
SWITCH DESCRIPTION	STANDARD PART NO.	QUICK DISCONNECT PART NO.
Hall Effect - PNP (Sourcing)	HPNPS31	HPNPQ31
Hall Effect - NPN (Sinking)	HNPNS32	HNPNQ32
Reed Switch	RSS02	RSQ02
90° 5 meter cable	-	PXC90
Straight 5 meter cable	-	PXCST



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CGS Series Dimensions



BORE	B	C	D	E	F	G	H	J	K	L	M
16	43.0	33.0	64.0	33.0	25.0	62.0	13.0	7.0	54.0	16.0	52.0
20	47.0	37.0	74.0	36.0	30.0	72.0	13.0	10.0	64.0	18.0	60.0
25	47.5	37.5	88.0	42.0	38.0	86.0	14.0	10.0	76.0	26.0	70.0
32	47.5	37.5	114.0	51.0	48.0	112.0	16.0	5.0	100.0	30.0	96.0
40	54.0	44.0	124.0	51.0	48.0	122.0	17.0	10.0	110.0	30.0	106.0
50	56.0	44.0	140.0	59.0	56.0	138.0	17.0	10.0	124.0	40.0	120.0

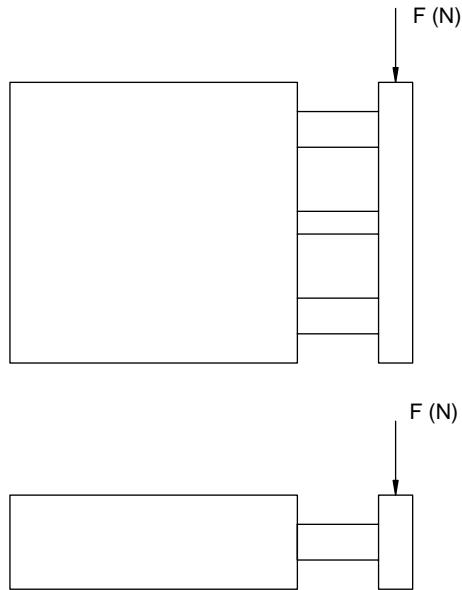
BORE	N	P	R	S	T	U	V	W	X	Y
16	11.0	8.0	22.0	10.0	42.0	2.5	M5	M5	38.0	9.0
20	10.5	8.5	26.0	12.0	52.0	2.0	G 1/8	M5	46.0	9.0
25	11.5	9.0	32.0	16.0	62.0	2.0	G 1/8	M6	56.0	9.0
32	12.5	9.0	38.0	20.0	80.0	2.0	G 1/8	M8	80.0	10.0
40	14.0	10.0	38.0	20.0	90.0	2.0	G 1/8	M8	90.0	10.0
50	14.0	11.0	44.0	25.0	100.0	2.0	G 1/4	M10	100.0	12.0

BORE	STROKE	
	10 TO 50 A	75 & 100 A
16	43.0	-
20	47.0	61.5
25	47.5	62.0
32	71.5	71.5
40	71.5	71.5
50	81.0	81.0

BORE	(STROKE)	
	DD	DD
16	0 (10-50)	0 (75-100)
20	0 (20-50)	19 (75-100)
25	0 (20-50)	26.5 (75-100)
32	24 (25-50)	50 (75-100)
40	17.5 (25-50)	43.5 (75-100)
50	25 (25-50)	42 (75-100)



CGS Series



Load vs Stroke

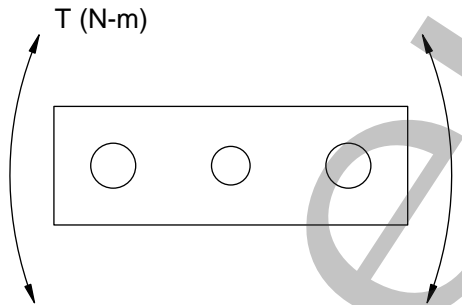
Load Values = N (newtons)

BORE 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

To Convert Newtons to Pounds: newtons x 0.2248 = pounds force

Twisting Moment vs Stroke

Moment Values = N-m (newtons)



BORE 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

To Convert Newtons-Meters to Inch-Pounds: newtons x 0.2248 = pounds

Output Force vs Pressure

	16	20	25	32	40	50
Extend Force (N) @ 6 bar	120 (N)	187 (N)	293 (N)	472 (N)	747 (N)	1161 (N)
Retract Force (N) @ 6 bar	91 (N)	141 (N)	247 (N)	406 (N)	624 (N)	974 (N)

Max Operating Pressure: 6 bar (87 psi)  
 Operating Temperature: -20°C (-4°F) to 80°C (176°F)

To Convert Newtons to Pounds: newtons x 0.2248 = pounds