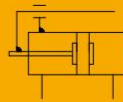


JSG Series Compact Triaxial Shaft Cylinder

JSG

Compact Triaxial Shaft Cylinder



Specification

Bore(mm)	12	16
Acting type	Double Acting	
Working medium	Clean Air(40 μ m filtration)	
Working pressure(MPa)	0.15~0.7(MPa)	
Garanteed pressure(MPa)	1.05(MPa)	
Working temperature℃	5~60	
Speed range(mm/s)	50 ~ 300	
Stroke tolerance(mm)	+1.5 0	
Cushion type	Rubber cushion	

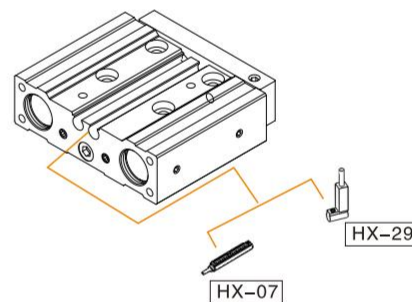
How to Order

Series No	Bore	X	Stroke	—	Magnet No
JSG	12 16		10 20 30 50 100		S:With magnet

How to Order:

JSG series cylinder, 16mm bore, 50mm stroke, with magnet, ERP code is:JSG16X50-S

Optional Accessories



Note: Short stroke please use HX-29 series due to limited space

Weight

Bore(mm)	Stroke(mm)					unit(g)
	10	20	30	50	100	
12	93	117	141	189	309	
16	101	126	152	203	330	

Products Features

1. The cylinder has 4 mounting surfaces to choose;
2. Compact design, can save more installation space;
3. The inner hole adopts hard oxidation process, good resistance and durability;
4. Various installation positions, 3 installation methods, convenient for customers to install.

Stroke

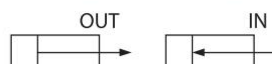
Bore(mm)	Standard Stroke(mm)				
12(2-Ø10)	10	20	30	50	100
16(2-Ø12)					

Note: The dimensions of non-std stroke cylinder has the same dimensions as the next longer stroke std. stroke cylinder.e.g. JSG16X28-S has th same dimensions of JSG16X30-S stroke cylinder.

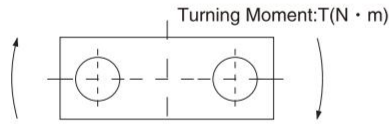
Theoretical Output Force

Bore (mm)	Stroke (mm)	Acting direction	Compression area(mm ²)	Working pressure(MPa)						
				0.2	0.3	0.4	0.5	0.6	0.7	
				12	6	OUT	157	31	47	63
		IN	101	20	30	40	50	60	70	
16	6	OUT	226	45	68	90	113	136	158	
		IN	170	34	51	68	85	102	119	

Noted:Output Force(N)=Working pressure(MPa) x Compression area(mm²)



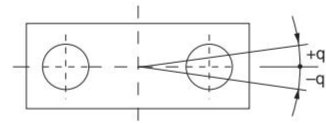
End Plate Allows Turning Moment



unit T(N · m)

Bore(mm)	Stroke(mm)				
	10	20	30	50	100
12	0.13	0.10	0.08	0.06	0.04
16	0.14	0.11	0.09	0.07	0.04

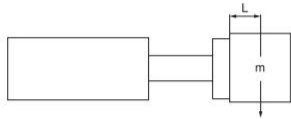
End Plate Non-turning Accuracy



Bore(mm)	Non-turning accuracy θ
12	$\pm 0.07^\circ$
16	

Note: The non-turning accuracy θ when retracting without load is below the table value

Allowable Lateral Load



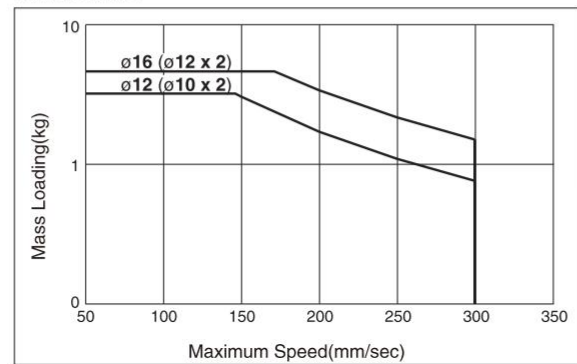
unit(kg)

Bore(mm)	Stroke(mm)				
	10	20	30	50	100
12	0.9	0.7	0.5	0.4	0.2
16	0.9	0.7	0.6	0.4	0.2

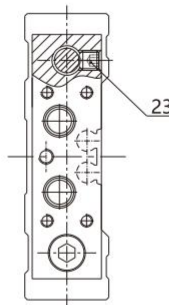
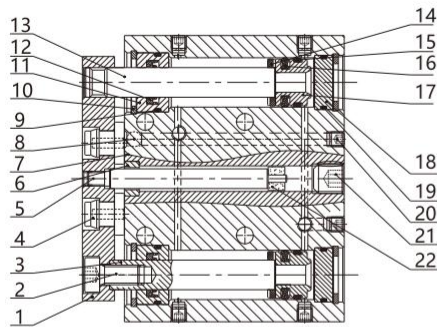
Note: The transverse load is the value when the eccentric distance L=0 mm

Allowable Energy of Motion

Rubber cushion



Internal Structure

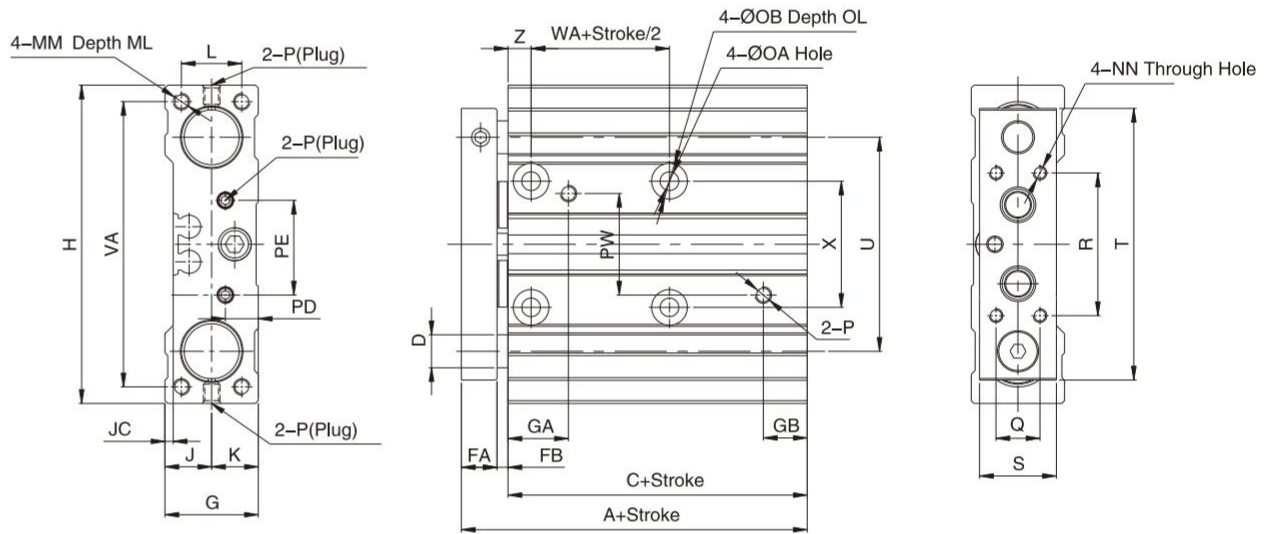
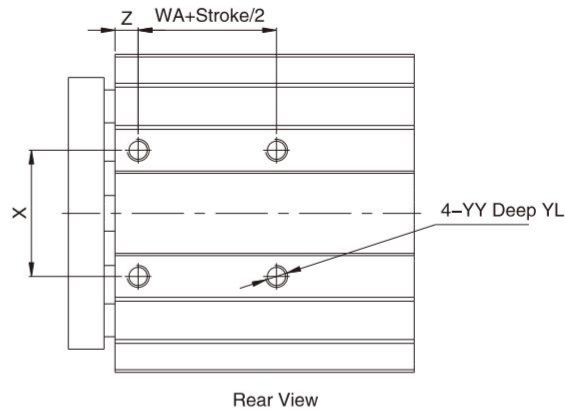


No.	Part name	Material	No.	Part name	Material
1	Fixing plate	Aluminum alloy	13	Piston rod	Stainless steel
2	Nut	Carbon steel	14	Abumper	TPU
3	Piston rod	Stainless steel	15	Wear ring	PTFE
4	Bcushion	TPU	16	Piston seal	NBR
5	Piston rod C	Stainless steel	17	Piston	Aluminum alloy
6	Separation blade	Aluminum alloy	18	Rear cover	Aluminum alloy
7	Body	Aluminum alloy	19	O ring	NBR
8	Steel ball	Stainless steel	20	Nut	Carbon steel
9	O ring	NBR	21	Nut	Carbon steel
10	C clip	Spring steels	22	Magnet	NdFeB
11	Head cover	Aluminum alloy	23	Nut	Carbon steel
12	Wiper seal	NBR			

JSG Series Compact Triaxial Shaft Cylinder



○ Main Dimension



Bore/Sign	A	C	D	FA	FB	G	GA	GB	H	J	K	JC	L	MM	ML	NN	OA
12	33	24.5	6	6.5	2	17	11	8	58	8.5	8.5	1.5	11	M3X0.5	7.5	M2.5X0.45	3.4
16	33	24.5	6	6.5	2	18	11	7.5	64	9	9	2.5	11	M4X0.7	10	M3X0.5	3.4
Bore/Sign	OB	OL	P	PD	PE	PW	Q	R	S	T	U	VA	WA	X	YY	YL	Z
12	6.5	2.5	M3X0.5	6	17.2	18.5	8	26	14	49.5	39	52	10.2	23	M4X0.7	6	4.2
16	6.5	2	M3X0.5	6.5	17.2	18.5	8	28	14	53	42	57	10.2	24	M4X0.7	6	4.3