



订购码 Ordering Code

MGP	—	M	—	25	×	40
系列代号 内置磁环型 Series Code MGP-Attach magnet Type		轴承种类 M:滑动轴承 L:滚珠导向轴承 Type of Bearing M:Slide Bearing L:Ball Guide Bearing		缸径 Cylinder Bore 12-φ100mm		行程 Stroke 10-200mm

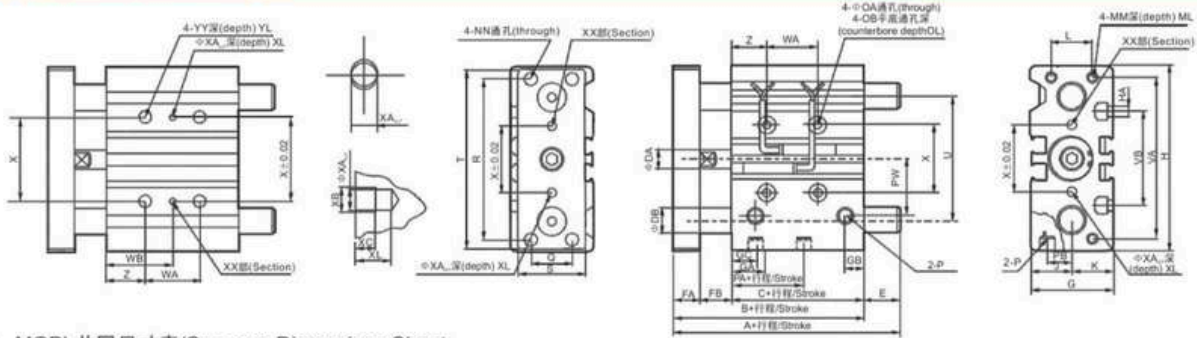
规格 Specification

MGPM25 x 20

内径/Bore(mm)	12	16	20	25	32	40	50	63	80	100
工作介质/Working Medium	空气/Air									
动作型式/Motion Pattern	复动型/Double-action									
保证耐压力/Ensured Pressure Resistance	1.5Mpa(15.3kgf/cm ²)									
最高使用压力/Max.Operating pressure	1.0Mpa(10.2kgf/cm ²)									
最低工作压力/Min. Operating pressure	0.12Mpa(1.2kgf/cm ²)									
环境和流体温度/Ambient and Medium Temperature	-10~+60℃									
活塞速度/Piston Speed	50~500mm/s								50~400mm/s	
缓冲/Buffer	橡胶缓冲/Rubber Cushion									
行准公差/Tolerance of Stroke	+1.5 0 mm									
轴承/Bearing	滑动轴承/滚珠导向轴承 (Slide bearing/ball guide bearing)									
活塞杆不转动精度 Precision of Piston rod Non-rotating	滑动轴承/Slide Bearing	±0.08°		±0.07°		±0.06°		±0.05°		±0.04°
	滚珠导向轴承/Ball Guide Bearing	±0.10°		±0.09°		±0.08°		±0.06°		±0.05°
接管口径/Port size	M5×0.8			G1/8"			G1/4"			G3/8"

外形尺寸 Overall Dimensions

φ12~φ25MGP 系列/Series



MGPM、MGPL共同尺寸表/Common Dimensions Sheet

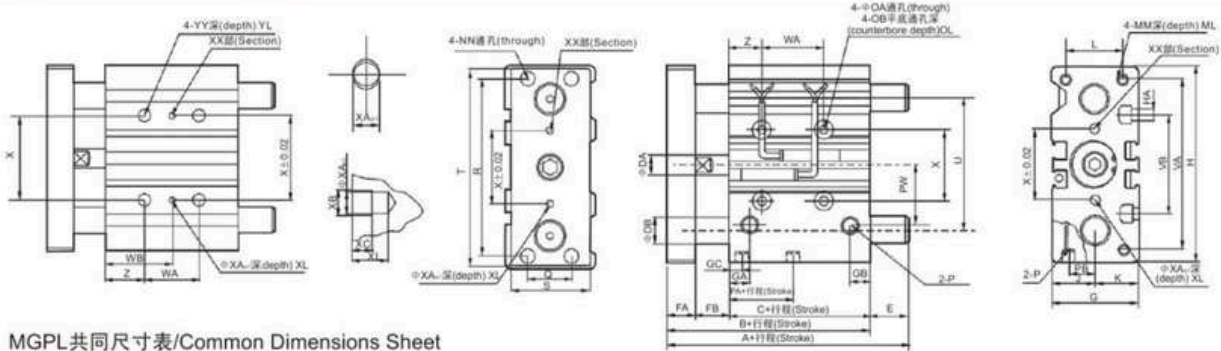
缸径/ Bore size	标准行程/(mm) Standard stroke	B	C	DA	FA	FB	G	GA	GB	H	HA	J	K	L	MM	ML	NN	OA	OB	OL	P	PA	PB	PW	Q	R	S
12	10,20,30,40, 50,75,100	42	29	6	8	5	26	11	7.5	58	M4	13	13	18	M4×0.7	10	M4×0.7	4.3	8	4.5	M5×0.8	13	8	18	14	48	22
16	20,30,40,50, 75,100,125, 150,175,200	53	37	10	10	6	36	10.5	8.5	83	M5	18	18	24	M5×0.8	13	M5×0.8	5.6	9.5	5.5	RC1/8	12.5	10.5	25	18	70	30
20	10,20,30,40, 50,75,100	46	33	8	8	5	30	11	8	64	M4	15	15	22	M5×0.8	12	M5×0.8	4.3	8	4.5	M5×0.8	15	10	19	16	54	25
25	20,30,40,50, 75,100,125, 150,175,200	53.5	37.5	12	10	6	42	11.5	9	93	M5	21	21	30	M6×1.0	15	M6×1.0	5.6	9.5	5.5	RC1/8	12.5	13.5	28.5	26	78	38

缸径/ Bore size	标准行程/(mm) Standard stroke	T	U	VA	VB	WA				WB				X	XA	XB	XC	XL	YY	YL	Z
						30 及以下或 less	Over 40 至 100 或 125 及以下或 less	30 及以下或 less	Over 40 至 100 或 125 及以下或 less	30 及以下或 less	Over 40 至 100 或 125 及以下或 less	30 及以下或 less	Over 40 至 100 或 125 及以下或 less								
12	10,20,30,40, 50,75,100	56	41	50	37	20	40	-	15	25	-	23	3	3.5	3	6	M5×0.8	10	5		
16	20,30,40,50, 75,100,125, 150,175,200	62	46	56	38	24	44	-	17	27	-	24	3	3.5	3	6	M5×0.8	10	5		
20	10,20,30,40, 50,75,100	81	54	72	44	24	44	120	29	39	77	28	3	3.5	3	6	M6×1.0	12	17		
25	20,30,40,50, 75,100,125, 150,175,200	91	64	82	50	24	44	120	29	39	77	34	4	4.5	3	6	M6×1.0	12	17		

MGPG(滑动轴承/Slide bearing)					MGPL(滚珠导向轴承/Ball bushing bearing)					MGPM(滑动轴承/Slide bearing)					MGPL(滚珠导向轴承/Ball bushing bearing)																
缸径/ Bore size	A	DB	E	行程	A	DB	E	行程	缸径/ Bore size	A	DB	E	行程	缸径/ Bore size	A	DB	E	行程	缸径/ Bore size	A	DB	E	行程								
12	42	60.5	85	8	0	18.5	43	43	55	85	6	1	13	43	20	53	84.5	122	16	0	31.5	69	63	80	104	122	10	10	27	51	69
16	46	64.5	95	10	0	18.5	49	49	65	95	8	3	19	49	25	53.5	85	122	20	0	31.5	68.5	69.5	80.5	104.5	122	13	16	32	51	68.5

外形尺寸 Overall Dimensions

φ 32~φ 63MGP 系列/Series



MGPM、MGPL 共同尺寸表/Common Dimensions Sheet

缸径/ Bore size	标准行程/(mm) Standard stroke	B	C	DA	FA	FB	G	GA	GB	GC	H	HA	J	K	L	MM	ML	NN	OA	OB	OL	P	PA	PB	PW	Q
32		59.5	37.5	16	12	10	48	12.5	9	12.5	112	M6	24	24	34	M8×1.25	20	M8×1.25	6.6	11	7.5	RC1/8	7	15	34	30
40	25,50,70, 100,125, 150,175,200	66	44	16	12	10	54	14	10	14	120	M6	27	27	40	M8×1.25	20	M8×1.25	6.6	11	7.5	RC1/8	13	18	38	30
50		72	44	20	16	12	64	14	11	12	148	M8	32	32	46	M10×1.5	22	M10×1.5	8.6	14	9	RC1/4	9	21.5	47	40
63		77	49	20	16	12	78	16.5	13.5	16.5	162	M10	39	39	58	M10×1.5	22	M10×1.5	8.6	14	9	RC1/4	14	28	55	50

缸径/ Bore size	标准行程/(mm) Standard stroke	R	S	T	U	VA	VB	WA			WB			X	XA	XB	XC	XL	YY	YL	Z
								25 st	50,75,100 st	100 st 或以上 or above	25 st	50,75,100 st	100 st 或以上 or above								
32		96	44	110	78	98	63	24	48	124	33	45	83	42	4	4.5	3	6	M8×1.25	16	21
40	25,50,70, 100,125, 150,175,200	104	44	118	86	106	72	24	48	124	34	46	84	50	4	4.5	3	6	M8×1.25	16	22
50		130	60	146	110	130	92	24	48	124	36	48	86	66	5	6	4	8	M10×1.5	20	24
63		130	70	158	124	142	110	28	52	128	38	50	88	80	5	6	4	8	M10×1.5	20	24

MGPM(滑动轴承/Slide bearing)

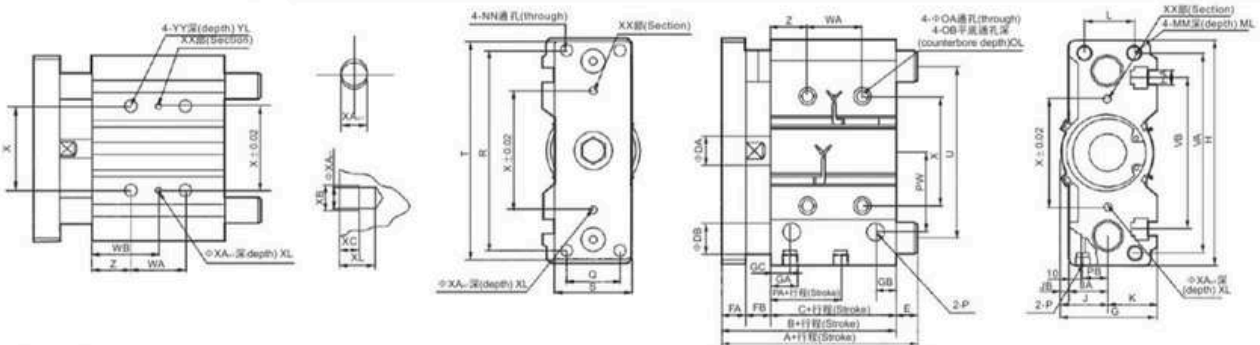
MGPL(滚动导向轴承/Ball bushing bearing)

缸径/ Bore size	A			DB	E		
	50st >	50st ~ 200st >	200st <		50st >	50st ~ 200st >	200st <
32	97	102	140	20	37.5	42.5	80.5
40	97	102	140	20	31	36	74
50	106.5	118	161	25	34.5	46	89
63	106.5	118	161	25	29.5	41	84

缸径/ Bore size	A				DB	E			
	50st >	50st ~ 100st >	100st ~ 200st >	200st <		50st >	50st ~ 100st >	100st ~ 200st >	200st <
32	81	98	118	140	16	21.5	38.5	58.5	80
40	81	98	118	140	16	15	32	52	74
50	93	114	134	161	20	21	42	62	89
63	93	114	134	161	20	16	37	57	84

外形尺寸 Overall Dimensions

φ 80~φ 100MGP 系列/Series



缸径/ Bore size	标准行程/(mm) Standard stroke	B	C	DA	FA	FB	G	GA	GB	GC	H	HA	J	LA	JB	K	L	MM	ML	NN	OA	OB	OL	P	PA	PB
80	20,50,75, 100,125, 150,175,200	95.5	56.5	25	22	18	91.5	19	15.5	14.5	202	M12	45.5	38	7.5	46	54	M12×1.75	30	M12×1.75	10.6	17.5	8	RC3/8	14.5	25.5
100		116	66	30	25	25	111.5	23	19	18	240	M14	55.5	45	10.5	56	62	M14×2.0	32	M14×2.0	12.5	20	8	RC3/8	17.5	32.5

缸径/ Bore size	标准行程/(mm) Standard stroke	PW	Q	R	S	T	U	VA	VB	WA			WB			X	XA	XB	XC	XL	YY	YL	Z
										25 st	50,75,100 st	100 st 或以上 or above	25 st	50,75,100 st	100 st 或以上 or above								
80	20,50,75, 100,125, 150,175,200	74	52	174	75	198	156	180	140	28	52	128	42	54	92	100	6	7	5	10	M12×1.75	24	28
100		89	64	210	90	236	188	210	166	48	72	148	35	47	85	124	6	7	5	10	M14×2.0	28	11

MGPM(滑动轴承/Slide bearing)

MGPL(滚动导向轴承/Ball bushing bearing)

缸径/ Bore size	A			DB	E		
	50st >	50st ~ 200st >	200st <		50st >	50st ~ 200st >	200st <
80	115	142	193	30	18.5	45.5	96.5
100	137	162	203	36	21	46	87

缸径/ Bore size	A				DB	E			
	50st >	25st ~ 50st >	50st ~ 200st >	200st <		50st >	25st ~ 50st >	50st ~ 200st >	200st <
80	109.5	130	160	193	25	13	33.5	63.5	96.5
100	121	147	180	203	30	5	31	64	87



订购码 Ordering Code

RSQ	B	20	×	15	-	D	R	
系列代号 RSQ:基本型 RSDQ:内置磁环型 Series Code RSQ:Basic Type RSDQ:Magnet Within Type	安装 B:通孔 两端内螺纹 Installation B:hole A:Internal thread both ends	缸径 Cylinder Bore 20- ϕ 20mm 32- ϕ 32mm 40- ϕ 40mm 50- ϕ 50mm		行程 Stroke		动作 D:双动 双动(内置弹簧) 单动(弹簧压出) Action D:double action S:single action (with spring return) T:single action (with spring extent)	定程杆种类 无记号-圆柱型(ϕ 20- ϕ 50) K:扁柱型(ϕ 20- ϕ 50) R:滚轮型(ϕ 20- ϕ 50) L:杆式滚轮(内置吸震器)(ϕ 32- ϕ 50) B:杆式滚轮(内置可调吸震器)(ϕ 32- ϕ 50) C:杆式滚轮(内置可调吸震器,暂时取消装置)(ϕ 32- ϕ 50) D:杆式滚轮(内置可调吸震器,自锁装置)(ϕ 32- ϕ 50) E:杆式滚轮(内置可调吸震器,暂时取消及自锁装置)(ϕ 32- ϕ 50)	Rod end Type Blank:Round bar type(ϕ 20- ϕ 50) K:Chamfered Type(ϕ 20- ϕ 50) R:Roller type(ϕ 20- ϕ 50) L:Level type with shock absorber(ϕ 32- ϕ 50) B:Level type with adjustable shock absorber(ϕ 32- ϕ 50) C:Level type with adjustable shock absorber, with cancel cap(ϕ 32- ϕ 50) D:Level type with adjustable shock absorber, with lock mechanism(ϕ 32- ϕ 50) E:Level type with adjustable shock absorber, with cancel cap & lock(ϕ 32- ϕ 50)

规格 Specification

内径/Bore(mm)	12	16	20	32	40	50
动作型式/Motion Pattern	双动,双动(内置弹簧),单动(弹簧压出)/Double acting,Double acting with spring loaded,Single acting(Spring extend)					
流体/Fluid	空气/Air					
保证耐压力/Ensured Pressure Resistance	1.5Mpa(15.3kgf/cm ²)					
最高使用压力/Max.pressure	1.0Mpa(10.2kgf/cm ²)					
环境和流体温度/Ambient and fluid temperature	-10~+70℃带磁性开关型:最高(Without auto switch:No freezing)+60℃					
缓冲/Buffering	两端橡胶缓冲(Rubber bumper)					
行程公差/Tolerance of stroke	+1.4(mm) 0					
*润滑/Lubrication	不需要/Not required					
安装/Mounting	通孔, 两端内螺纹/Through-hole,Both ends tapped common					
接管口径/Port size	M5×0.8			RC(PT1/8)		

MSQ 系列转合型齿杆式回转摆动气缸
MSQ Series Rotary Table,Rack & Pinion Cylinder



订购码 Ordering Code

MSQ	-	B	×	10	-	A	-	S
系列代号 Series Code		基本型 Basic Type		大小代号 Size Code 10-200mm		A:带调角度螺栓 R:带油压吸震器 A:With Adjustable Angle Screw R:With Shock Absorber		全部带磁型 Always with magnet

规格 Specification

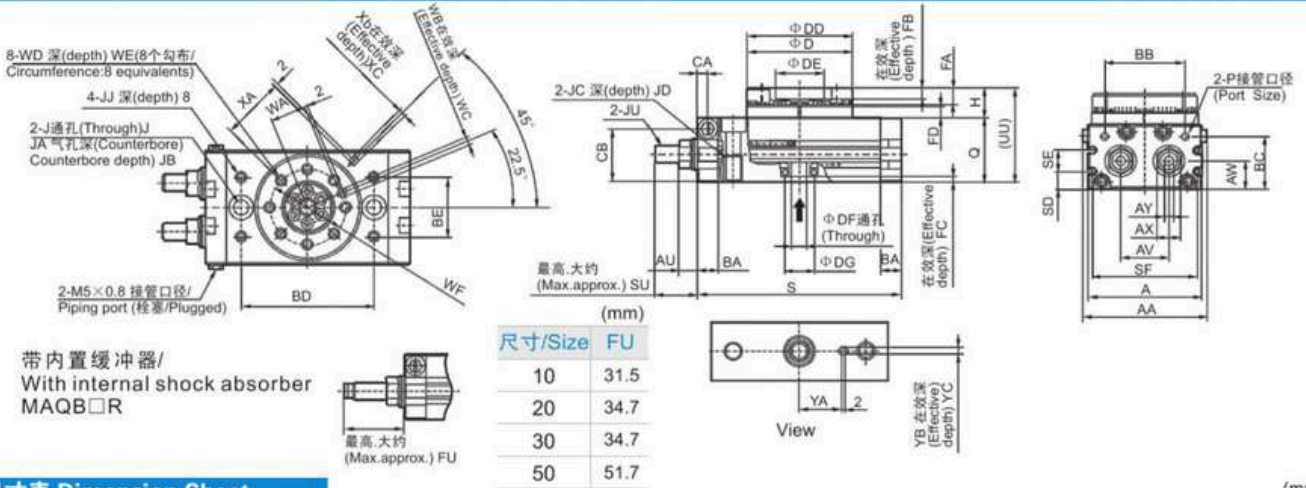
内径/Bore(mm)	10	20	30	50	70	100	200
使用流体/Fluid	空气(不给油)Air(non-lube)						
最高使用压力/Max.pressure	1Mpa(10.2kgf/cm ²)						
	带调角度螺栓/With adjustment bole 带油压吸震器/R:With Shock Absorber 0.6 MPa (6.1kgf/cm ²)注/Note						
最低使用压力/Min.pressure	基本型/Basic type 高精度型/High precision type 0.2 Mpa 0.1 Mpa						
环境和流体温度/Ambient and fluid temperature	0~60℃(但未冻结No freezing)						
缓冲/Cushion	带调角度螺栓/With adjustment bole 带油压吸震器/R:With Shock Absorber 橡胶缓冲/Rubber bumper 缓冲器/Shock absorber						
角度调整范围/Angle adjustment range	0~190℃						
最高旋转角度/Maximum rotation	190℃						
活塞直径/Piston bore	ϕ 15	ϕ 18	ϕ 21	ϕ 25	ϕ 28	ϕ 32	ϕ 40
接管口径/Port size	底孔/End ports M5×0.8			RC1/8"			
	侧孔/Side ports M5×0.8						

注:最大使用压力是受最大允许负重限制的。
Note:The maximum operating pressure of the actuator is restricted by the maximun allowable thrust of the shock absorber.

外形尺寸 Overall Dimensions

基本型 Basic style: MAQB□A

φ 10, φ 20, φ 30, φ 50



尺寸/Size	FU
10	31.5
20	34.7
30	34.7
50	51.7

尺寸表 Dimension Sheet

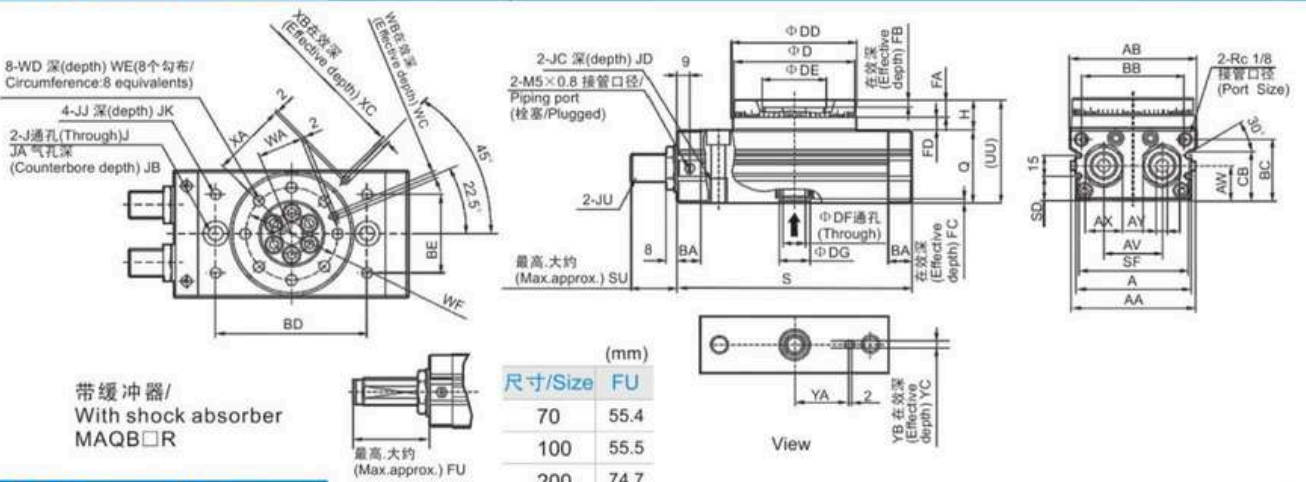
缸径/ Bore size	AA	A	AU	AV	AW	AX	AY	BA	BB	BC	BD	BE	CA	CB	D	DD	DE	DF	DG	FA	FB	FC	FD	H	J	JA	JB
10	55.4	50	8.6	20	15.5	12	4	9.5	34.5	27.8	60	27	4.5	28.5	46h9	46h9	20H9	5	15H9	8	4	3	4.5	13	6.8	11	6.6
20	70.8	65	10.6	27.5	16	14	5	12	46	30	67	34	6	30.5	60h9	61h9	28H9	9	17H9	10	6	2.5	6.5	17	8.6	14	8.5
30	75.4	70	10.6	29	18.5	14	5	12	50	32	84	37	6.5	33.5	65h9	67h9	32H9	9	22H9	10	4.5	3	6.5	17	8.6	14	8.5
50	85.4	80	14	38	22	19	6	15.5	63	37.5	100	50	10	37.5	75h9	77h9	35H9	10	26H9	12	5	3	7.5	20	10.5	18	10.5

缸径/ Bore size	JC	JD	JJ	JU	P	Q	S	SD	SE	SF	SU	UU	WA	WB	WC	WD	WE	WF	XA	XB	XC	YA	YB	YC
10	M8×1.25	12	M5×0.8	M8×1	M5×0.8	34	92	9	13	45	17.7	47	15	3H9	3.5	M5×0.8	8	32	27	3H9	3.5	19	3H9	3.5
20	M10×1.5	15	M6×1	M10×1	M5×0.8	37	117	10	12	60	25	54	20.5	4H9	4.5	M6×1	10	43	36	4H9	4.5	24	4H9	4.5
30	M10×1.5	15	M6×1	M10×1	Rc 1/8	40	127	11.5	14	65	25	57	23	4H9	4.5	M6×1	10	48	39	4H9	4.5	28	4H9	4.5
50	M12×1.75	18	M8×1.25	M14×1.5	Rc 1/8	46	152	14.5	15	75	31.4	66	26.5	5H9	5.5	M8×1.25	12	55	45	5H9	5.5	33	5H9	5.5

外形尺寸 Overall Dimensions

基本型 Basic style: MAQB□A

φ 70, φ 100, φ 200



尺寸/Size	FU
70	55.4
100	55.5
200	74.7

尺寸表 Dimension Sheet

缸径/ Bore size	AA	AB	A	AV	AW	AX	AY	BA	BB	BC	BD	BE	CB	D	DD	DE	DF	DG	FA	FB	FC	FD	H	J	JA	JB
70	90	92	84	42	25.5	27	8	17	75	44.5	110	57	36	88h9	90h9	46H9	16	22H9	12.5	5	3.5	6	22	10.4	17.5	10.5
100	101	102	95	50	29.5	27	8	17	85	50.5	130	66	42	98h9	100h9	56H9	19	24H9	14.5	6	3.5	12	27	10.4	17.5	10.5
200	119	120	113	60	36.5	36	10	24	103	65.5	150	80	57	116h9	118h9	64H9	24	32H9	16.5	9	5.5	15	32	14.2	20	12.5

缸径/ Bore size	JC	JD	JJ	JK	JU	Q	S	SD	SF	SU	UU	WA	WB	WC	WD	WE	WF	XA	XB	XC	YA	YB	YC
70	M12×1.75	18	M8×1.25	10	M20×1.5	53	170	18	79	34.2	75	32.5	5H9	5.5	M8×1.25	12.5	67	54	5H9	3.5	39	5H9	3.5
100	M12×1.75	18	M8×1.25	10	M20×1.5	59	189	22	90	34.3	86	37.5	6H9	6.5	M10×1.55	14.5	77	59	6H9	4.5	49	6H9	4.5
200	M16×2	25	M12×1.75	13	M27×1.5	74	240	29	108	40.2	106	44	8H9	8.5	M12×1.75	16.5	90	69	8H9	4.5	54	8H9	6.5