



MSQ Series Rotary Table, Rack & Pinion Cylinder



MSQB 20-A



MSQB 30-A

Ordering Code

MSQ **B** × **10** — **A** — **S**

Series Code Basic Type Size Code 10mm~200mm Type A:With Adjustable Angle Screw R:With Shock Absorber Always With Magnet

Specification

Bore(mm)		10	20	30	50	70	100	200
Fluid		Air(non-lube)						
Max.pressure	With adjustment bole	1Mpa(10.2kgf/cm ²)						
	R:With Shock Absorber	0.6 MPa (6.1kgf/cm ²)注/Note						
Min.pressure	Basic type	0.1 Mpa(1.0kgf/cm ²)						
	High precision type	0.2 Mpa	0.1 Mpa			-		
Ambient and fluid temperature		0~60℃(No freezing)						
Cushion	With adjustment bole	Rubber bumper						
	R:With Shock Absorber	Shock absorber						
Angle adjustment range		0~190℃						
Maximum rotation		190℃						
Piston bore		φ 15	φ 18	φ 21	φ 25	φ 28	φ 32	φ 40
Port size	End ports	M5×0.8		RC1/8"				
	Side ports	M5×0.8						

Note:The maximum operating pressure of the actuator is restricted by the maximum allowable thrust of the shock absorber.

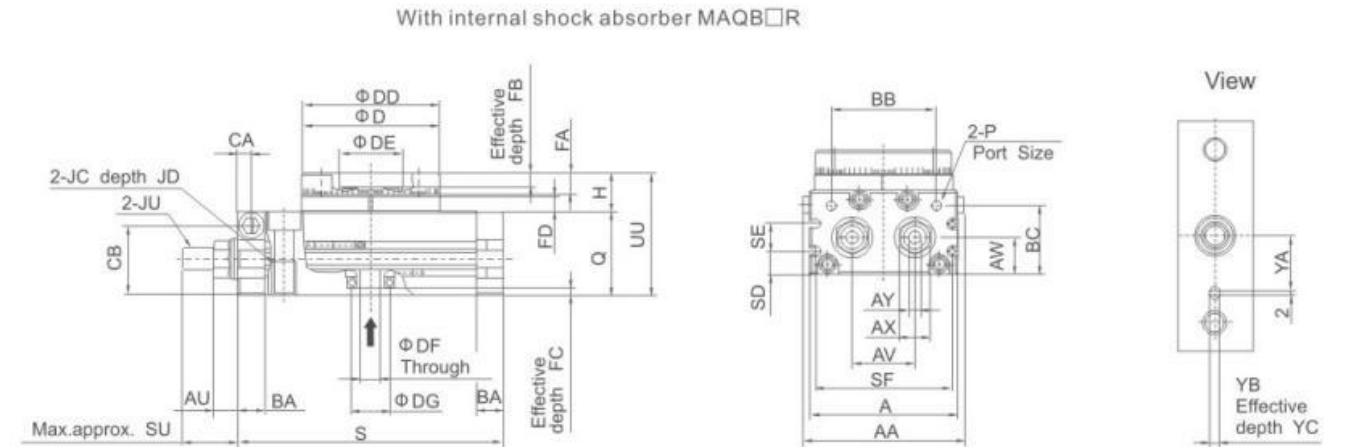
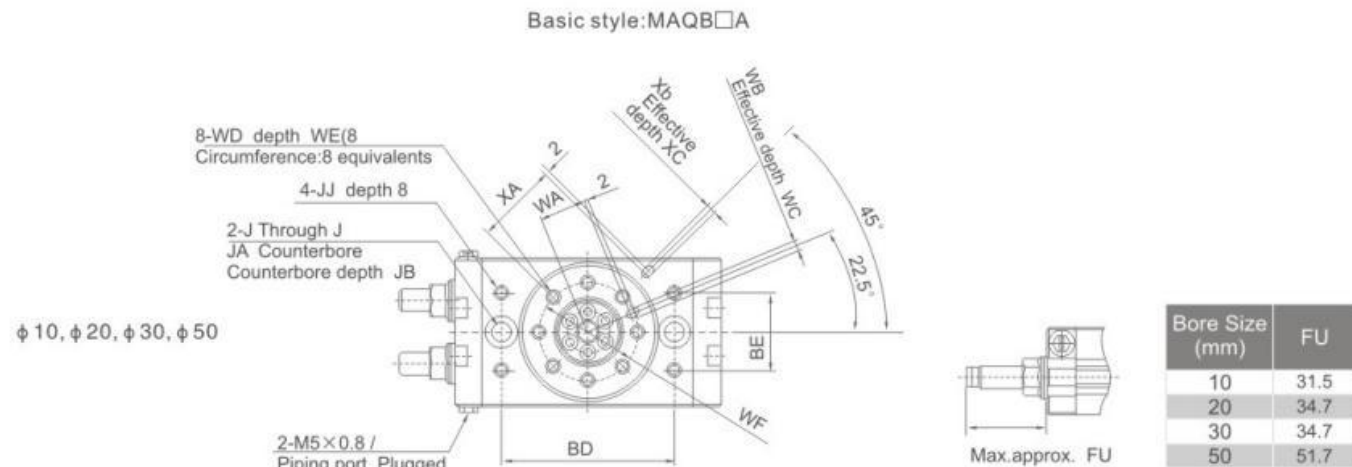
Allowable Kinetic Energy and Rotation Time Adjustment Range

Size	Allowable kinetic energy(mJ)		Rotation time adjustment range for stable operation (s/90°)	
	With adjustment bolt	With internal shock absorber	With adjustment bolt	With internal shock absorber ^(Note)
10mm	7	39	0.2 to 1.0	0.2 to 0.7
20mm	25	116		
30mm	48	116		
50mm	81	294		
70mm	240	1100	0.2 to 1.5	0.2 to 1.0
100mm	320	1600	0.2 to 2.0	
200mm	560	2900	0.2 to 2.5	

Note:Be careful if a type with internal absorber is used below the minimum speed,the energy absorption ability will decrease drastically.

MSQ Series Rotary Table, Rack & Pinion Cylinder

Overall Dimensions



Dimension Sheet

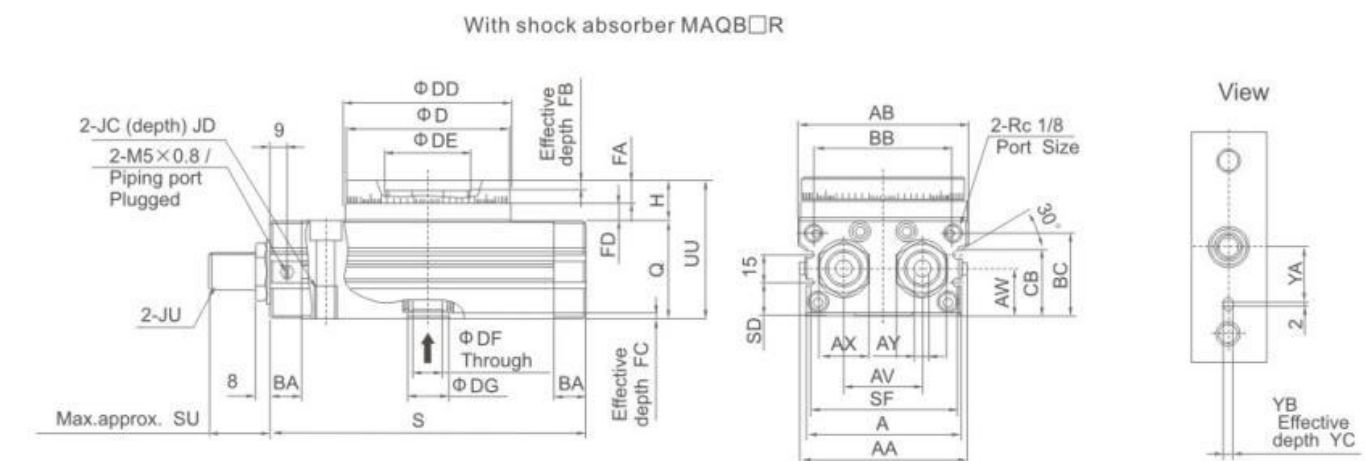
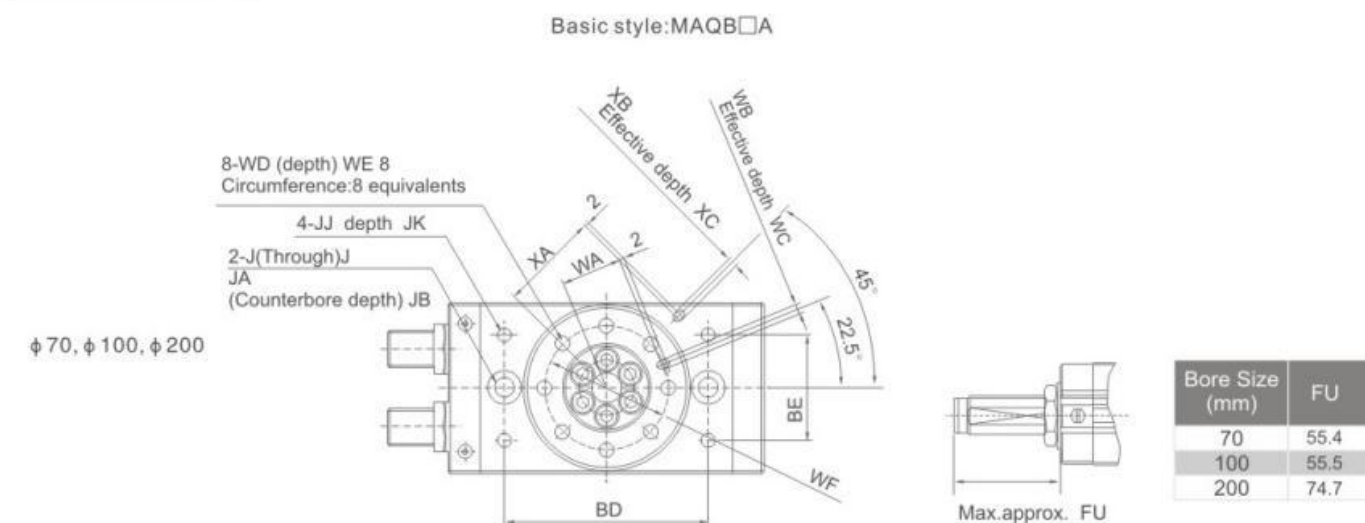
Bore size(mm)	AA	A	AU	AV	AW	AX	AY	BA	BB	BC	BD	BE	CA	CB	D	DD	DE	DF
10	55.4	50	8.6	20	15.5	12	4	9.5	34.5	27.8	60	27	4.5	28.5	46h9	46h9	20H9	5
20	70.8	65	10.6	27.5	16	14	5	12	46	30	67	34	6	30.5	60h9	61h9	28H9	9
30	75.4	70	10.6	29	18.5	14	5	12	50	32	84	37	6.5	33.5	65h9	67h9	32H9	9
50	85.4	80	14	38	22	19	6	15.5	63	37.5	100	50	10	37.5	75h9	77h9	35H9	10

Bore size(mm)	DG	FA	FB	FC	FD	H	J	JA	JB	JC	JD	JJ	JU	P
10	15H9	8	4	3	4.5	13	6.8	11	6.6	M8×1.25	12	M5×0.8	M8×1	M5×0.8
20	17H9	10	6	2.5	6.5	17	8.6	14	8.5	M10×1.5	15	M6×1	M10×1	M5×0.8
30	22H9	10	4.5	3	6.5	17	8.6	14	8.5	M10×1.5	15	M6×1	M10×1	Rc 1/8
50	26H9	12	5	3	7.5	20	10.5	18	10.5	M12×1.75	18	M8×1.25	M14×1.5	Rc 1/8

Bore size(mm)	Q	S	SD	SE	SF	SU	UU	WA	WB	WC	WD	WE	WF	XA	XB	XC	YA	YB	YC
10	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	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	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	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

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Overall Dimensions



Dimension Sheet

Bore size(mm)	AA	AB	A	AV	AW	AX	AY	BA	BB	BC	BD	BE	CB	D	DD	DE
70	90	92	84	42	25.5	27	8	17	75	44.5	110	57	36	88h9	90h9	46H9
100	101	102	95	50	29.5	27	8	17	85	50.5	130	66	42	98h9	100h9	56H9
200	119	120	113	60	36.5	36	10	24	103	65.5	150	80	57	116h9	118h9	64H9

Bore size(mm)	DF	DG	FA	FB	FC	FD	H	J	JA	JB	JC	JD	JJ	JK	JU
70	16	22H9	12.5	5	3.5	6	22	10.4	17.5	10.5	M12×1.75	18	M8×1.25	10	M20×1.5
100	19	24H9	14.5	6	3.5	12	27	10.4	17.5	10.5	M12×1.75	18	M8×1.25	10	M20×1.5
200	24	32H9	16.5	9	5.5	15	32	14.2	20	12.5	M16×2	25	M12×1.75	13	M27×1.5

Bore size(mm)	Q	S	SD	SF	SU	UU	WA	WB	WC	WD	WE	WF	XA	XB	XC	YA	YB	YC
70	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	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	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

XHZ/XHY Series Style Air Gripper



XHZ2-25D

XHY2-25D

Ordering Code

XHZ	2	32	D
Model XHZ:XHZ Parallel Type Gripper XHY:XHY Type Gripper	Finger Quantity 2PCS	Bore XHZ:10-40mm XHY:10-25mm	Acting Type D:Double-acting S:Single-acting (Normally open) C:Single-acting (Normally closed)

Specification

Bore(mm)		10	16	20	25	32	40
Fluid		Air					
Motion Pattern		Double-acting,single acting(Normally open/Normally closed)					
Max.pressure MPa		0.7MPa					
Max.pressure Mpa	Double Acting	0.2	0.1				
	Single Acting	0.35	0.25				
Ambient and fluid temperature		-10~60℃					
Max.operating frequency		180(C.P.M)					60(C.P.M)
Repeatability Precision(mm)		± 0.01					± 0.02
*Lubrication		Not required					
Port Size		M3×0.5			M5×0.8		

XHC Series Style Air Gripper



XHC2-25D

Ordering Code

XHC	2	32	D
Model XHC:XHC Point Type Gripper	Finger Quantity 2PCS	Bore 10-40mm	Acting Type D:Double-acting S:Single-acting (Normally open) C:Single-acting (Normally closed)

Specification

Bore(mm)		10	16	20	25	32	40
Fluid		Air					
Motion Pattern		Double-acting,single acting(Normally open/Normally closed)					
Max.pressure MPa		0.7MPa					
Max.pressure Mpa	Double Acting	0.2	0.1				
	Single Acting	0.35	0.25				
Ambient and fluid temperature		-10~60℃					
Max.operating frequency		180(C.P.M)					60(C.P.M)
Repeatability Precision(mm)		± 0.01					± 0.02
*Lubrication		Not required					
Port Size		M3×0.5			M5×0.8		