

MSQ Series Rotary Table,Rack & Pinion Cylinder



Ordering Code



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)/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°C (No freezing)						
Cushion	With adjustment bole		Rubber bumper				
	R:With Shock Absorber		Shock absorber				
Angle adjustment range	0~190°						
Maximum rotation	190°						
Piston bore	φ15	φ18	φ21	φ25	φ28	φ32	φ40
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.

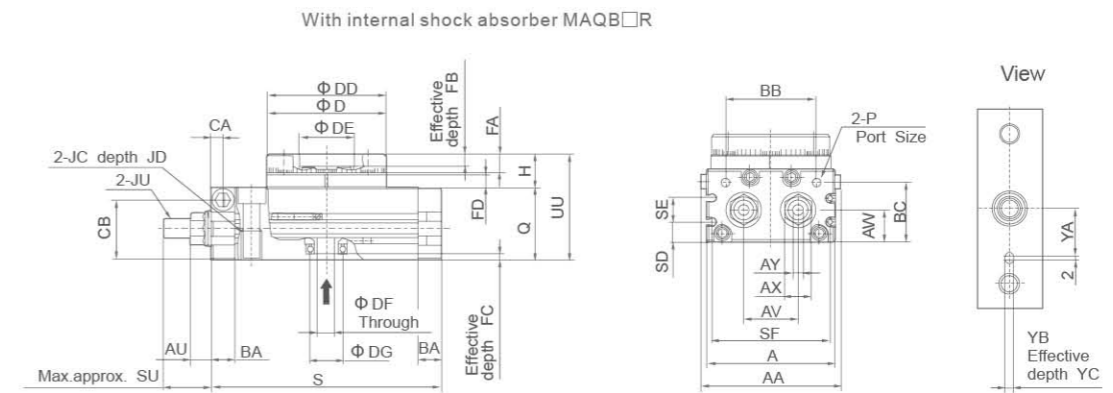
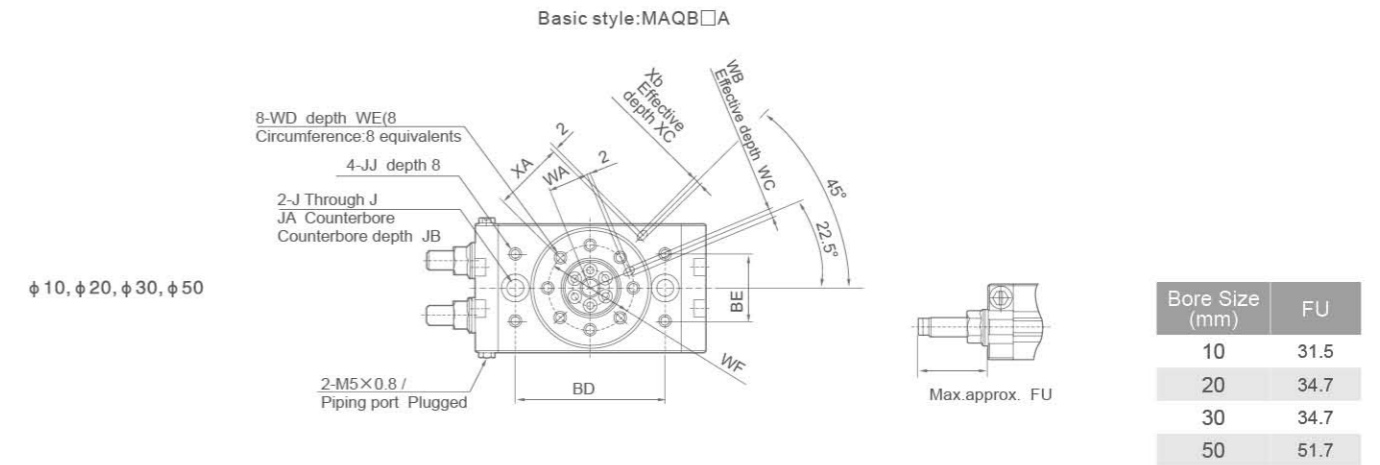
Allowable Kinetic Energy and Rotation Time Adjustment Range

Bore Size(mm)	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)
10	7	39		
20	25	116		
30	48	116	0.2 to 1.0	0.2 to 0.7
50	81	294		
70	240	1100	0.2 to 1.5	
100	320	1600	0.2 to 2.0	0.2 to 1.0
200	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.

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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

