Simple Specials: -XC79: Tapped Hole, Drilled Hole, Pinned Hole Machined Additionally

These changes are dealt with Simple Specials System. Refer to the front matter pages for details.

10 Tapped Hole, Drilled Hole, Pinned Hole Machined Additionally

Symbol -XC79

This simple special is meant for machining additionally tapped hole, drilled hole, and pinned hole, as requested from customer, on parts designed largely for mounting a workpiece, etc. in the combined air cylinders.

But, for each model, since they have the portions which are impossible to machine additionally, refer to the additional machining limitation.

Applicable Series

Series			Action	
	Standard type	MGP-Z	Double acting	
MGP	With air cushion	MGP-A-Z	Double acting	
	With end lock	MGP-H/R	Double acting	
MGQ	Standard type	MGQ	Double acting	
MLGP	With lock	MLGP-Z	Double acting	

Applicable Series and Component Parts Machined Additionally

Applicable series	Component parts applicable for additional machining		
MGP, MGQ, MLGP, MVGQ	Plate		
MGG, MGC, MLGC	Front plate		
MGF	Plate (Upper plate only)		
МХН	Table		

Series			Action	
MVGQ	With valve	MVGQ	Double acting	
мее	Standard type	MGG	Double acting	
MGG	With end lock	MGG-H/R	Double acting	
MGC	Compact type	MGC	Double acting	
MLGC	Compact type with lock	MLGC	Double acting	
MGF	Standard type	MGF	Double acting	
MXH	Standard type	MXH-Z	Double acting	

▲ Precautions

- We cannot take any responsibility as for the intensity of holes machined additionally and the effects of decreased intensity for the product itself.
- It will not be plated again for the machined part additionally.
- Be sure to fill in "through" for through-hole, and "effective depth" for blind hole.
- When using by machining through-hole additionally, ensure that the tip of the bolt, etc. for mounting workpiece should not stick into the cylinder side. It may result in an unexpected problem.
- Use caution not to interfere the current mounting hole on the standard products with the hole to be machined additionally. But it is possible to drill additionally the larger size of hole at the same position as the current hole.

Common Complementary Explanation/Holes which can be additionally machined are the following 3 types.

Tapped hole

Designated nominal diameter and tapped hole of a pitch are machined additionally. (Maximum nominal thread diameter M20)

Blind hole is deep into the bottom of prepared hole which sums up A to C in the figure below in contrast to the effective depth of tapped hole. When there is a condition which does not allow through-hole, etc., leave sufficient thickness in the inner part of hole.



Drilled hole

Drilled hole of a designated internal diameter is machined.

(Maximum hole diameter 20 mm)

D

If you wish for blind hole, instruct us with effective depth. (Refer to the figure below.) Besides, dimensional accuracy for internal diameter will be ± 0.2 mm.

A (Effective depth)

C = 0.3D

Pinned hole

Pinned hole of a designated diameter (reamer hole) is machined. (Maximum hole diameter 20 mm)

Internal dimension tolerates H7 tolerance to the designated hole diameter. (Refer to the table below.)



-X□

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Limitation for Machining Additionally/Since the slanted lines denote the restricted range for machining additionally, design the dimensions, referring to below





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Dimensional Range Not Possible to Machine Additionally (mm)

Bore size (mm)	Α	В	С
12	8	11	41
16	10	13	46
20	12	15	54
25	14	21	64
32	25	25	78
40	25	25	86
50	30	30	110
63	30	30	124
80	34	34	156
100	42	42	188

MGG series

Front plate material: Steel



Dimensional	Range Not	Possible to	Machine	Additionally	(mm)

Bore size (mm)	Α	В	C	D	E
20	70	17.5	9	24	12.5
25	85	20	13	31	13
32	91	23	13	31	19
40	114	29	19	36	23
50	132	34	19	44	29
63	156	38	19	44	30
80	186	44	26	58	35
100	214	49	26	64	40



Bore size (mm)

Front plate material: Steel

с



Α

Mounting side



· · ·				
20	18	10	28	12.5
25	23	13	36	12.5
32	23	13	36	19
40	27	15	42	23
50	33	19	52	28

MLGC Dimensional Range Not Possible to Machine Additionally (mm)

Bore size (mm)	A	В	C	D
20	18	10	28	16
25	23	13	36	20
32	23	13	36	20
40	27	15	42	25





Limitation for Machining Additionally/Since the slanted lines denote the restricted range for machining additionally, design the dimensions, referring to below. MGF series Top plate material: Aluminum MXH series Table material: Aluminum 0 0 0 ۲ 0 ۲ LX LY D1 0 Ø øΑ □B (Reference Connecting port side **Dimensional Range Not Possible to Machine** Additionally **Dimensional Range Not Possible to Machine** (mm) D2 LX LZ D1 LY Additionally (mm) Model Model Α в MXH6 11 5.8 9 20 5.5 MGF40 MXH10 90 120 14 6 11 22 6.5 MGF63 120 160 MXH16 18 7.5 16 29 6.5 MGF100 MXH20 160 200 22 9.7 22 32 7