

# Pin Clamp Cylinder **M series**

## CKQ<sub>P</sub><sup>G</sup>M/CLKQ<sub>P</sub><sup>G</sup>M Series

### How to Order

**Built-in standard magnet** C □ KQGM C 50 □ - 177 R A L □ Z - P3DWASC □

**Built-in strong magnet** C □ KQP M C 50 □ - 198 R A L □ - P79WSE □

**With lock on the clamp side**

Nil	Without lock
L	With lock

**Number of auto switches**

Nil	2 pcs.
S	1 pc. (Unclamp side)

\* The D-P7 type is different-surface mounting. (Refer to page 518.)

**Auto switch type**

Nil	Without auto switch (Built-in magnet)
-----	---------------------------------------

\* For applicable auto switch models, refer to page 515.  
\* Auto switches are included, (but not assembled).

**Shim**

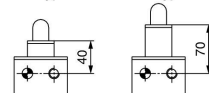
Nil	Without shims
S	With 3 mm shims*

\* When a model includes shims, two 1 mm shims and two 0.5 mm shims are attached.

**Clamping height**  
(Refer to the below figure.)

L	LOW type (40 mm)
H	HIGH type (70 mm)

LOW type      HIGH type



Clamping height

**Mounting surface (viewed from top)**

Symbol	Port location	Symbol	Port location
C	Mounting surface with the taps diagonal (top right and bottom left) Port	E	Mounting surface with the taps diagonal (top left and bottom right) Port
D	Mounting surface with the taps diagonal (top left and bottom right) Port	F	Mounting surface with the taps diagonal (top right and bottom left) Port

**Bore size**

50	50 mm
----	-------

**Port thread type**

Nil	Rc
TN	NPT
TF	G

**Guide pin diameter**

\* For guide pin diameter, refer to Table 1 below.

**Guide pin shape**

R	Round type
D	Diamond type*

\* Diamond type guide pin diameter is  $\phi 17.5$  or more.

**Body shape**

Symbol	Dimension	Mounting hole (tap, pin hole) arrangement	Mounting	Mounting surface (viewed from top)
M	□66		Mounting tap: 2 x M12 x 1.75 Pin hole: 2 x $\phi 10H7$	 Mounting surface (Two facing sides)

**Clamp arm position (clockwise viewed from top)**

A	Same direction as port Port Clamp arm Guide pin.	C	180° from port Port Clamp arm Guide pin.
B	90° from port Port Clamp arm Guide pin.	D	270° from port Port Clamp arm Guide pin.

**Table 1. Guide Pin Diameter**

Symbol	125	127	128	129	130	145	147	148	149	150	155	157	158	159	160	
Guide pin diameter	12.5	12.7	12.8	12.9	13.0	14.5	14.7	14.8	14.9	15.0	15.5	15.7	15.8	15.9	16.0	
Applicable hole diameter of workpiece	For $\phi 13$					For $\phi 15$					For $\phi 16$					
Guide pin shape	Round type															

Symbol	175	177	178	179	180	195	197	198	199	200	245	247	248	249	250	295	297	298	299	300
Guide pin diameter	17.5	17.7	17.8	17.9	18.0	19.5	19.7	19.8	19.9	20.0	24.5	24.7	24.8	24.9	25.0	29.5	29.7	29.8	29.9	30.0
Applicable hole diameter of workpiece	For $\phi 18$					For $\phi 20$					For $\phi 25$					For $\phi 30$				
Guide pin shape	Round type, Diamond type																			