



Pull clamp with screw thread around the main body

Model Representation

HCMD ① -② (Example: HCMD04-10)

① Dimension (refer to specification table)

② Stroke (refer to specification table)



02
04
06
10
20
40
50
80

05	10		
05	10		
	10	20	
	10	20	
	10	20	
	10	20	
		15	25
		15	25

Specification

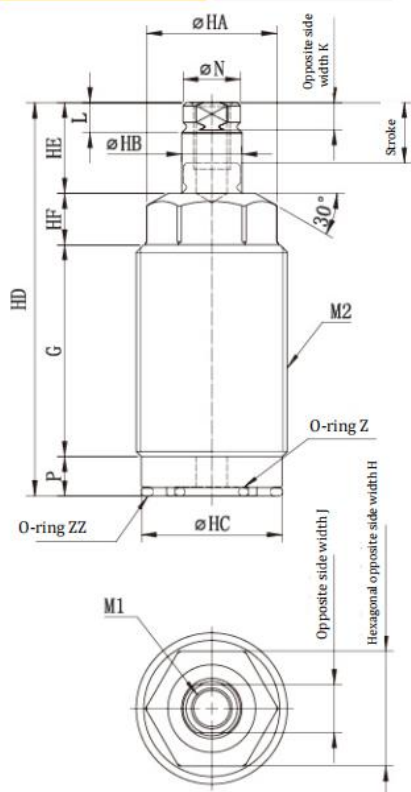
Model	HCMD02	HCMD04	HCMD06	HCMD10	HCMD20	HCMD40	HCMD50	HCMD80	
Stroke (mm)	5 10	5 10	10 20	10 20	10 20	10 20	15 25	15 25	
Cylinder capacity ※1 (kN)	When the oil pressure is 3.5MPa	0.3	0.4	0.7	1.2	2.0	3.5	4.6	7.0
	When the oil pressure is 7MPa	0.5	0.9	1.5	2.5	4.3	7.4	9.9	14.9
	When the oil pressure is 25MPa	2.1	3.4	5.6	9.3	15.8	27.3	37.0	55.4
	When the oil pressure is 35MPa	2.9	4.8	7.9	13.0	22.2	38.4	52.0	77.9
Bore of cylinder (mm)	16	18	22	28	36	46	54	65	
Main rod diameter (mm)	10	10	12	16	20	25	30	35.5	
Cylinder area (cm ²)	0.84	1.37	2.29	3.76	6.40	11.07	15.05	22.50	
Maximum flow (R /min)	0.25	0.41	0.69	1.13	1.92	3.32	4.51	6.75	
Cylinder capacity (cm ³)	0.5 0.9	0.7 1.4	2.3 4.6	3.8 7.5	6.4 12.8	11.1 22.2	22.6 37.6	33.8 56.3	
Return spring force ※2 (N)	30 ~ 56	43 ~ 77	65 ~ 120	100 ~ 193	170 ~ 267	283 ~ 470	400 ~ 840	560 ~ 1110	
Mass (kg)	0.10 0.12	0.12 0.15	0.23 0.30	0.35 0.46	0.69 0.89	1.1 1.4	1.9 2.2	2.7 3.2	

Operating oil pressure range: 15 to 35 MPa Proof pressure: 52.5 MPa Working ambient temperature: 0 to 70 °C Operating fluid: ordinary mineral oil-based hydraulic oil (equivalent to ISO-VG32)

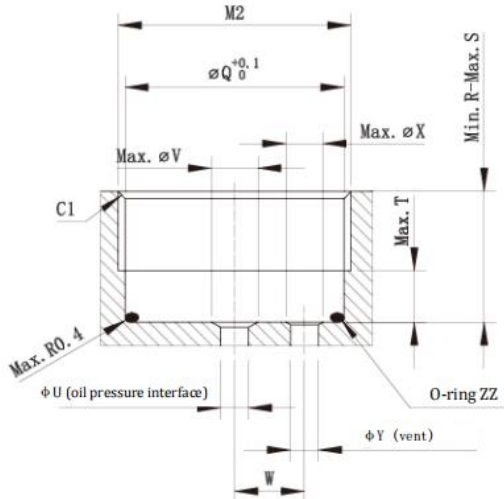
※1: Cylinder capacity indicates the value at the center of the stroke.

※2: The return spring force represents the value from the rising end to the falling end of the piston.

Overall dimension



Installation part processing dimension



- Note 1. The maximum surface roughness of the bottom surface of the installation hole shall be processed below Rz63.
 2. Be sure to use the attached O-ring.
 3. The tightening torque of the external thread of the main body during installation is shown in the table above.
 4. When installing accessories, be sure to use a wrench to hold the opposite side of the top of the piston rod, and fix the piston to prevent rotation and then tighten it. Do not use the rotation resistance generated by the oil pressure to tighten when the oil pressure is applied.
 5. When using the top thread, please screw in the nominal diameter of the thread of above $\times 1.2$.
 6. When installed with screws, flange installation nuts and piping base are available (optional).
 7. When using, please avoid exerting eccentric load or force other than axial force on the piston. Failure to do so will result in piston damage.
 8. Please make the vent open to the atmosphere. If cutting oil and chips may enter, please pipe.

Model	HCMD02		HCMD04		HCMD06		HCMD10		HCMD20		HCMD40		HCMD50		HCMD80	
Stroke	5	10	2	10	10	20	10	20	10	20	10	20	10	20	10	20
HA	19.1		21.6		27.1		33.1		45.1		55.1		67.1		77.1	
HB	10 f7		10 f7		12 f7		16 f7		20 f7		25 f7		30 f7		35.5 f7	
HC	20.3		23.3		28.3		34.3		46.3		56.3		67.6		77.6	
HD	51.1	65.1	51.1	65.1	69.1	96.1	73.1	101.1	80.1	109.1	88.1	116.1	108.1	136.1	119.1	145.1
HE	10	15	10	15	16	26	17	27	19	29	20.5	30.5	27.5	37.5	28.5	38.5
HF	7.5		8		9.5		11.5		13.5		16.5		22		24	
G	27	36	26.5	35.5	35.5	52.5	35.5	53.5	35.5	54.5	38	56	45.5	63.5	53.5	69.5
H (hexagonal opposite side width)	17		19		24		30		41		50		60		70	
J (opposite side width)	8		8		10		14		17		22		27		30	
K	4.5		4.5		5.5		6.5		8.5		10		12		13	
L	5		5		6		7		9		10.5		12.5		13.5	
M1 (top thread)	M6×1 deep 11		M6×1 deep 11		M8×1.25 deep 18		M10×1.5 deep 20		M12×1.75 deep 22		M16×2 deep 27		M18×2.5 deep 31		M22×2.5 deep 33	
M2 (external thread of main body)	M22×1.5		M25×1.5		M30×1.5		M36×1.5		M48×1.5		M58×1.5		M70×2.0		M80×2.0	
N	9.5		9.5		11.5		15.5		19.5		24.5		29.5		35	
P	6.5		6.5		8		9		12		13		13		13	
Q	20.5		23.5		28.5		34.5		46.5		56.5		68		78	
R	13		14		15		17		20		20		25		25	
S	32.5	41.5	32	41	42.5	59.5	43.5	61.5	46.5	65.5	50	68	57	75	65	81
T	5.5		5.5		7		8		11		12		12		12	
U (oil pressure interface)	3		3		3		4		6		6		6		6	
V	5		5		5		5		7		7		8		8	
W	7		7.5		9.5		12		15		18		19~21		19.5~26.5	
X	4		4		4		4		4		4		8		8	
Y	3		3		3		3		3		3		6		6	
O-ring Z	5.8×1.9		5.8×1.9		5.8×1.9		5.8×1.9		7.8×1.9		7.8×1.9		8.8×1.9		8.8×1.9	
O-ring ZZ	17.17×1.78		20.35×1.78		25.12×1.78		31.47×1.78		44.17×1.78		53.7×1.78		63.17×2.62		72.69×2.62	
Tightening torque	8N·m		9N·m		10N·m		14N·m		30N·m		40N·m		200N·m		300N·m	