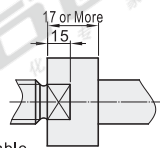


Standard ▶ Threaded with Retaining Ring Groove

Cantilever Shafts

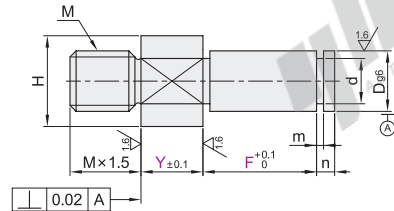
Code	Type	Material		Surface Treatment
		GB	Equiv.	
MDD01	Standard	45	S45C	Black Oxide
MDD02				Electroless Nickel Plating
MDD12		45	S45C	Electroless Nickel Plating
MDD16	Thread Length Configurable	0Cr18Ni9	SUS304	—

Dimensions of Wrench Flats when $Y \geq 17$.



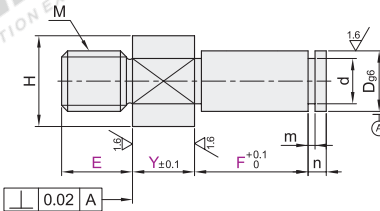
Thread Length Fixed

MDD01
MDD02



Thread Length Configurable

MDD12
MDD16



6.3/

① Refer to the table 1 below for thread undercut dimensions.

② Process hole processing conditions: Total length divided by the length of D segment > 3 and D-M ≥ 4; 4 ≤ D ≤ 11 and total length ≥ 70; 11 < D ≤ 18 and total length ≥ 90; D > 18 and total length ≥ 110. (Refer to P379 for detailed dimensions of the process hole)



Part Number		D _{g6}		1 mm Inc.			H	W	M (Coarse)	d	m	n
Code	No.			Y	F	E						
Thread Length Fixed MDD01 MDD02	3	3	-0.002 -0.008			3~8	7	5	M3	2	0.5	
	3A						11	9		+0.06 0		
	4	4		2~32	3~55	4~10	8	6	M4	3		2
	4A						12	10				
	5	5	-0.004 -0.012			5~12	9	7	M5	4	0.7	
	5A						13	11		+0.075 0		
	6	6				6~15	10	8	M6	5		
	6A						14	12				
	8	8	-0.005 -0.014		5~110	8~18	12	10	M8	7	0.9	
	8A						16	14		+0.09 0		3
Thread Length Configurable MDD12 MDD16	10	10		2~65		10~22	15	13	M10	9.6		
	10A						20	17		0 -0.09		
	12	12					17	14		11.5		
	13	13					18	15		12.4	1.15	
	15	15	-0.006 -0.017			12~25	20	17	M12	14.3		
	16	16					21	18		15.2	0 -0.110	
	17	17					22	19		16.2		4
	18	18					23	20		17		
	20	20			10~160		26		M20 M16 M20	19		
	20A										1.35	
	22	22					28		M16	21		
	22A		-0.007 -0.020	4~65		20~32				0 -0.210		
	25	25					31	27	M20 M16	23.9		5
	25A											
	30	30					36	32	M20 M16	28.6	1.65	
	30A											



Optional Processing

Code	Spec.
YC	Y Dimension Tolerance Ordering Code YC ① Changes Y dimension tolerance to ±0.04.
WC	Four Wrench Flats Ordering Code WC ① Changes from two wrench flats to four wrench flats.
ME	Retaining Ring Set Ordering Code ME ① No. 3~8A: E Type Retaining Ring. No. 10~30A: C Type Retaining Ring.

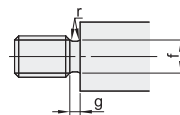


Table 1: Thread Undercut Dimensions

Thread Dia. (M)	g	r	f
3			2.1~2.4
4	1.2~1.5	0.2~0.3	2.9~3.2
5			3.9~4.1
6			4.3~4.9
8	1.5~2.5	0.2~0.6	6.3~6.6
10			8.1~8.3
12	1.5~3.0		9.8~10.1
16		0.2~1.0	13.6~13.8
20	1.5~4.0		17.0~17.2

Thread Length Fixed

Part Number	Code	No.	D _{g6}	Y	F
MDD01	3	3	-0.002 -0.008		
MDD02	3A				
MDD02—3—Y25—F30					

Thread Length Configurable

Part Number	Code	No.	D _{g6}	Y	F	E
MDD12	3	3	-0.002 -0.008			
MDD16	3A					
MDD16—3—Y25—F30—E8						

Optional Processing (Thread Length Configurable)

Part Number	Code	No.	D _{g6}	Y	F	E	Optional Processing Code
MDD12	3	3	-0.002 -0.008				WC ME
MDD16	3A						
MDD16—3—Y25—F30—E8—YC							



Please order as shown



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Surface Treatment