

Cantilever Shafts

Threaded with Retaining Ring Groove

Standard



RoHS 10

Type	Material	Surface Treatment
Thread Length Fixed	FXAA	FXNAA
Thread Length Configurable	PFXAA	SFXNAA
	EN 1.1191 Equiv.	Black Oxide
	EN 1.4301 Equiv.	Electroless Nickel Plating
	EN 1.7220 Equiv.	Black Oxide
	Hardness: 35 ~ 40HRC	

Dimensions of Wrench Flats when Y≥17

17 or more

6.3 / (1.6 /)

Thread Length Fixed

Thread Length Configurable

This type may have centering holes depending on dimensions.
Refer to the table on P884 for thread undercut dimensions.

Part Number	Type	No.	Dg6	1mm Increment	Y	F	N	H	W	M (Coarse)	Ref. Dim.	d	Tolerance	m	n	Unit Price
																Thread Length Fixed
																FXAA
																PFXAA
																SFXNAA
																FXNAA
																PFXNAA
																SFXNAA
Thread Length Fixed	FXAA	3	3	-0.002	2~30	3~50	3~6	7	5	M 3	2	+0.060	0	0.5	2	
	FXAA	4	4	-0.008				11	9	M 4	3	0				
	FXAA	5	5	-0.004				12	10	M 5	4	+0.075	0	0.7		
	FXAA	6	6	-0.012				13	11	M 6	5	0				
	FXAA	8	8	-0.005				14	12	M 8	7	+0.090	0	0.9		
	FXAA	10	10	-0.014				15	13	M 10	9	-0.090	0			
	FXAA	12	12	-0.006				16	14	M 12	11	0				
	FXAA	14	14	-0.017				17	15	M 14	13	0				
	FXAA	16	16	-0.017				18	16	M 16	15	0				
	FXAA	18	18	-0.017				20	18	M 18	17	0				
Thread Length Configurable	FXNAA	20	20	-0.007	2~60	5~100	6~12	21	19	M 20	19	0	-0.210	1.15	4	
	FXNAA	22	22	-0.020				22	20	M 22	21	0				
	FXNAA	24	24	-0.007				23	21	M 24	23	0				
	FXNAA	26	26	-0.020				24	22	M 26	25	0				
	FXNAA	28	28	-0.007				25	23	M 28	27	0				
	FXNAA	30	30	-0.020				26	24	M 30	29	0				
	FXNAA	32	32	-0.007				27	25	M 32	31	0				
	FXNAA	34	34	-0.020				28	26	M 34	33	0				
	FXNAA	36	36	-0.020				29	27	M 36	35	0				
	FXNAA	38	38	-0.020				30	28	M 38	37	0				

FXAA is applicable to D6 or larger specifications. N is available for Thread Length Configurable Type only.

Stepped



RoHS 10

Type	Material	Surface Treatment
FXBA	EN 1.1191 Equiv.	Black Oxide
PFXBA	EN 1.4301 Equiv.	Electroless Nickel Plating
SFXBA	EN 1.7220 Equiv.	Black Oxide
PHFXBA	Hardness: 35 ~ 40HRC	Electroless Nickel Plating

Dimensions of Wrench Flats when W<V, Y≥17

15

17 or more

6.3 / (1.6 /)

Thread Length Fixed

Thread Length Configurable

This type may have centering holes depending on dimensions.
Refer to the table on P884 for thread undercut dimensions.

Part Number	Type	No.	Dg6	1mm Increment	Y	F	N	H	W	M (Coarse)	Ref. Dim.	d	Tolerance	m	n	Unit Price
																FXBA
																PFXBA
																SFXBA
																FXNAA
																PFXNAA
																SFXNAA
Thread Length Fixed	FXBA	3	3	-0.002	7~30	3~50	3~6	5	7	M 3	2	+0.060	0	0.5	2	
	FXBA	4	4	-0.008				9	11	M 4	3	0				
	FXBA	5	5	-0.004				10	12	M 5	4	+0.075	0	0.7		
	FXBA	6	6	-0.012				11	13	M 6	5	0				
	FXBA	8	8	-0.005				12	14	M 8	7	+0.090	0	0.9		
	FXBA	10	10	-0.014				13	15	M 10	9	-0.090	0			
	FXBA	12	12	-0.006				14	16	M 12	11	0				
	FXBA	14	14	-0.017				15	17	M 14	13	0				
	FXBA	16	16	-0.017				16	18	M 16	15	0				
	FXBA	18	18	-0.017				17	19	M 18	17	0				
Thread Length Configurable	FXNAA	20	20	-0.007	7~60	5~100	6~12	18	20	M 20	19	0	-0.210	1.15	4	
	FXNAA	22	22	-0.020				19	21	M 22	21	0				
	FXNAA	24	24	-0.007				20	22	M 24	23	0				
	FXNAA	26	26	-0.020				21	23	M 26	25	0				
	FXNAA	28	28	-0.007				22	24	M 28	27	0				
	FXNAA	30	30	-0.020				23	25	M 30	29	0				
	FXNAA	32	32	-0.007				24	26	M 32	31	0				
	FXNAA	34	34	-0.020				25	27	M 34	33	0				
	FXNAA	36	36	-0.020				26	28	M 36	35	0				
	FXNAA	38	38	-0.020				27	29	M 38	37	0				

When W<V, wrench flats W reaches O.D.V. PHFXBA is applicable to D6 or larger specifications.

Hex



RoHS 10

Type	Material	Surface Treatment
Thread Length Fixed	LXAA	LXNAA
Thread Length Configurable	PLXAA	SLXNAA
	EN 1.1191 Equiv.	Black Oxide
	EN 1.4301 Equiv.	Electroless Nickel Plating
	EN 1.7220 Equiv.	Black Oxide
	Hardness: 35 ~ 40HRC	

Dimensions of Wrench Flats when Y≥17

17 or more

6.3 / (1.6 /)

Thread Length Fixed

Thread Length Configurable

This type may have centering holes depending on dimensions.
Refer to the table below for thread undercut dimensions.

Part Number		Dg6			1mm Increment			B	(C)	M (Coarse)	d		m	n	Unit Price														
Type	No.				Y	F	N				Ref. Dim.	Tolerance			Thread Length Fixed	Thread Length Configurable	LXAA	PLXAA	SLXAA	LXNAA	PLXNAA	SLXNAA							
Thread Length Fixed	LXAA	3	3	-0.002 -0.008	2~30	3~ 50	3~ 6	6	6.9	M 3	2	+ 0.060	0.5	2															
	LXAA	4	4	-0.004			4~ 8	7	8.1	M 4	3	0																	
	LXAA	5	5	-0.012			5~10	8	9.2	M 5	4	+ 0.075	0		0.7														
	LXAA	6	6	-0.005			6~12	10	11.5	M 6	5	0																	
	LXAA	8	8	-0.014	2~60	5~100	8~16	10	11.5	M 8	7	+ 0.090	0.9	3															
	LXAA	10	10	-0.014			10~20	13	15.0	M10	9.6	- 0.090																	
	LXAA	12	12	-0.006			12~24	14	16.2	M12	11.5	0 -0.110	1.15		4														
	LXAA	13	13	-0.017				17	19.6		12.4																		
	LXAA	15	15	-0.017				19	21.9		14.3																		
	LXAA	16	16	-0.017				15.2																					
Thread Length Configurable	LXAA	17	17		4~60	10~150	20~40	24	27.7	M20	19	0 -0.210	1.35	5															
	LXAA	18	18												16.2														
	LXAA	20	20												17														
	LXAA	22	22	-0.007											M20	21													
	LXAA	24	24	-0.020						M16	19	0 -0.210	1.65	5															
	LXAA	26	26							M20	21																		
	LXAA	28	28							M16	19																		
	LXAA	30	30							M20	21																		
	LXAA	25A	25							M16	23.9																		
	LXAA	30A	30							M20	28.6																		
LXAA	30A	30																											