

Tapered Washers / Tapered Nuts / Square Nuts / Square Washers

Tapered Washers

Type	M Material	S Surface Treatment
ZTQ	EN 1.0038 Equiv.	Trivalent Bright Chromate Plating
ZTQM	EN 1.1191 Equiv.	Trivalent Chromate

RoHS10

Diagram showing dimensions for ZTQ (Square Type) and ZTQM (Round Type). ZTQ dimensions include t1, t2, t3, t4, t5, t6, t7, t8, t9, t10, t11, t12, t13, t14, t15, t16, t17, t18, t19, t20, t21, t22, t23, t24, t25, t26, t27, t28, t29, t30, t31, t32, t33, t34, t35, t36, t37, t38, t39, t40, t41, t42, t43, t44, t45, t46, t47, t48, t49, t50, t51, t52, t53, t54, t55, t56, t57, t58, t59, t60, t61, t62, t63, t64, t65, t66, t67, t68, t69, t70, t71, t72, t73, t74, t75, t76, t77, t78, t79, t80, t81, t82, t83, t84, t85, t86, t87, t88, t89, t90, t91, t92, t93, t94, t95, t96, t97, t98, t99, t100. ZTQM dimensions include d, D, t1, t2, t3, t4, t5, t6, t7, t8, t9, t10, t11, t12, t13, t14, t15, t16, t17, t18, t19, t20, t21, t22, t23, t24, t25, t26, t27, t28, t29, t30, t31, t32, t33, t34, t35, t36, t37, t38, t39, t40, t41, t42, t43, t44, t45, t46, t47, t48, t49, t50, t51, t52, t53, t54, t55, t56, t57, t58, t59, t60, t61, t62, t63, t64, t65, t66, t67, t68, t69, t70, t71, t72, t73, t74, t75, t76, t77, t78, t79, t80, t81, t82, t83, t84, t85, t86, t87, t88, t89, t90, t91, t92, t93, t94, t95, t96, t97, t98, t99, t100.

Part Number		Angle	d	D	Angle 3°		Angle 5°		Angle 8°		ZTQ		ZTQM	
Type	No.				t1	t2	t1	t2	t1	t2	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
ZTQ ZTQM	6	3	7	16	1.2	2	1.6	3	1.7	4	1 - 49 pcs.	50 - 200 pcs.	1 - 49 pcs.	50 - 100 pcs.
	8		9	18	1.1			1.4						
	10		11	22	1.8	3	2	4	1.9	5				
	12	5	14	26	1.6	5	1.7	6	2.3	6				
	16		18	32	3.3		3.2		3.5	8				
	20		21	40	2.9	2.5	3.4	9						
24	8	27	52	3.3	6	3.5	8	3.7	11					

Ordering Example
Part Number - **ZTQ6** - **5**

Square Nuts

NSQ

RoHS10

Diagram showing dimensions for NSQ. Dimensions include B, L, T, and a 4-C1 or Less chamfer. Material: EN 1.0038 Equiv. Surface Treatment: Trivalent Bright Chromate Plating.

Part Number	Type	M (Coarse)	L	B	T	Unit Price	
						1 - 49 pc(s)	50 - 500 pcs.
NSQ	4	7	7	3.2			
	5	8	8	4			
	6	16	10	4.5			
	8	42	15.5	6			

Ordering Example
Part Number - **NSQ8**

For orders larger than indicated quantity, please check with WDS.

Square Nuts, Square Washers - Dim. Configurable 1-Hole

Type	M Material	S Surface Treatment
Nuts: FKT, FKW	EN 1.1191 (cold drawn) Equiv.	-
Washers: FKTB, FKWB, FKTS, FKWS	EN 1.1191 (cold drawn) Equiv.	Black Oxide
	EN 1.4301 Equiv.	-

RoHS10

Diagram showing dimensions for Nuts and Washers. Dimensions include A, P, T, and D. Material: EN 1.1191 (cold drawn) Equiv. Surface Treatment: Black Oxide.

Ordering Example
Part Number - **FKW16** - **A20** - **P10** - **D7**

Tapered Nuts

ZTN

RoHS10

Diagram showing dimensions for ZTN. Dimensions include t1, t2, t3, t4, t5, t6, t7, t8, t9, t10, t11, t12, t13, t14, t15, t16, t17, t18, t19, t20, t21, t22, t23, t24, t25, t26, t27, t28, t29, t30, t31, t32, t33, t34, t35, t36, t37, t38, t39, t40, t41, t42, t43, t44, t45, t46, t47, t48, t49, t50, t51, t52, t53, t54, t55, t56, t57, t58, t59, t60, t61, t62, t63, t64, t65, t66, t67, t68, t69, t70, t71, t72, t73, t74, t75, t76, t77, t78, t79, t80, t81, t82, t83, t84, t85, t86, t87, t88, t89, t90, t91, t92, t93, t94, t95, t96, t97, t98, t99, t100. Material: EN 1.0038 Equiv. Surface Treatment: Trivalent Bright Chromate Plating.

Part Number	Type	M (Coarse)	Angle	D	Angle 3°	Angle 5°	Angle 8°	d	Unit Price	
									1 - 49 pc(s)	50 - 100 pcs.
ZTN	6	16	5	5.8	5	6.4	5	7.2	7	
	8	18	6.5	7.4	6.5	8.1	6.5	9	9	
	10	22	8	9.2	8	9.9	8	11.1	11	
	12	26	10	11.3	10	12.2	10	13.5	13	
	16	32	13	14.7	13	15.8	13	17.5	17	

Square Nuts, Square Washers 2-Hole

Type	M Material	S Surface Treatment
Nuts: FK2T, FK2TB, FK2TS	EN 1.1191 (cold drawn) Equiv.	-
Washers: FK2W, FK2WB, FK2WS	EN 1.1191 (cold drawn) Equiv.	Black Oxide
	EN 1.4301 Equiv.	-

RoHS10

Diagram showing dimensions for Nuts and Washers. Dimensions include A, P, M, T, and D. Material: EN 1.1191 (cold drawn) Equiv. Surface Treatment: Black Oxide.

Part Number	Type	B	A	P	M	T	Unit Price			
							1 - 4 pc(s)	5 - 9 pcs.	10 - 49 pcs.	50 - 200 pcs.
Nuts FK2TS	10	25	15	2	3	3				
	16	30	15	6	6	6				

Ordering Example
Part Number - **FK2TS10** - **A25** - **P15**

Part Number	Type	B	A	P	M (Coarse)	T
Nuts FK2T FK2TB FK2TS	6	30~200	2M≤P≤A-2M	3	2	
	10			3	3	
	16			6	6	
	22			8	6	
	25			10	9	
	38			12	10	

Part Number	Type	B	A	P	D Selection	T
Washers FK2W FK2WB FK2WS	6	30~200	2D≤P≤A-2D	4	2	
	10			4 6	3	
	16			7 9	6	
	22			7 9	6	
	25			7 9 11 14	6	
	38			7 9 11 14	6	

B	Type	Unit Price			
		A30~50	A51~100	A101~150	A151~200
6	FK2TS				
10	FK2TS				
16	FK2T				
	FK2TB				
	FK2TS				
22	FK2T				
	FK2TB				
	FK2TS				
25	FK2T				
	FK2TB				
	FK2TS				
38	FK2T				
	FK2TB				
	FK2TS				

B	Type	Unit Price			
		A30~50	A51~100	A101~150	A151~200
6	FK2WS				
10	FK2WS				
16	FK2W				
	FK2WB				
	FK2WS				
22	FK2W				
	FK2WB				
	FK2WS				
25	FK2W				
	FK2WB				
	FK2WS				
38	FK2W				
	FK2WB				
	FK2WS				

Ordering Example
Part Number - **FK2T16** - **A40** - **P25**
FK2WS25 - **A50** - **P20** - **D7**