



Size /Thrds	A	Ht		Phillips		Gage				W · E	W · E	D	d	Wire	Torque kgf.cm
		Phillips	Square/Combo	M	N	Phillips		Square/Combo		Phillips	Square/Combo				
						Recess	Q	Recess	P						
#5-14	6.22	2.26	2.41	Min.	Min.	#2	1.82	#1	1.65	—	—	3.25	1.98	2.30	18
	5.87	2.01	2.11	3.69	0.72		1.17		1.45			3.10	1.83		
#6-9	6.85	2.46	2.61	Min.	Min.	#2	2.03	#1	1.65	W:Max. 3.60	W:Max. 4.50	4.00	60° Thrd	2.65	28
	6.51	2.21	2.32	3.89	0.72		1.40		1.45	E:Max. 0.80	E:Max. 1.00	3.75			
#6-13	6.85	2.46	2.61	Min.	Min.	#2	2.03	#1	1.65	W:Max. 3.60	W:Max. 4.50	3.58	2.21	2.50	21
	6.51	2.21	2.32	3.89	0.72		1.40		1.45	E:Max. 0.80	E:Max. 1.00	3.45	2.00		
#7-12	7.51	2.69	2.81	Min.	Min.	#2	2.26	#1	1.65	W:Max. 4.00	W:Max. 4.50	3.91	2.43	2.80	30
	7.14	2.44	2.52	4.15	0.74		1.63		1.45	E:Max. 0.80	E:Max. 1.00	3.76	2.22		
#7-9	7.51	2.69	2.81	Min.	Min.	#2	2.26	#1	1.65	W:Max. 4.00	W:Max. 4.50	4.20	60° Thrd	2.80	30
	7.14	2.44	2.52	4.15	0.74		1.63		1.45	E:Max. 0.80	E:Max. 1.00	3.90			
#8-11	8.17	2.92	3.04	Min.	Min.	#2	2.46	#2	1.90	W:Max. 4.30	W:Max. 5.00	4.26	2.61	2.95	32
	7.78	2.67	2.72	4.30	0.77		2.05		1.66	E:Max. 1.00	E:Max. 1.20	4.07	2.38		
#9-10	8.17	2.92	3.04	Min.	Min.	#2	2.46	#2	1.90	—	—	4.59	2.78	3.20	37
	7.78	2.67	2.72	4.30	0.77		2.05		1.66			4.42	2.50		
#10-9	9.47	3.37	3.47	Min.	Min.	#2	2.87	#2	1.90	W:Max. 5.00	W:Max. 5.40	4.92	3.02	3.40	45
	9.07	3.10	3.13	4.73	0.79		2.27		1.66	E:Max. 1.20	E:Max. 1.20	4.75	2.79		
#12-8	11.30	3.83	3.88	Min.	Min.	#3	3.14	#3	2.41	W:Max. 5.40	—	5.50	3.50	3.80	60
	9.89	3.54	3.53	6.25	0.86		2.50		2.16	E:Max. 1.20		5.00	3.20		
#14-8	12.49	4.44	4.44	Min.	Min.	#3	3.65	#3	2.41	—	—	6.65	4.88	5.20	165
	12.02	4.12	4.07	6.81	0.91		3.00		2.16			6.40	4.62		

unit:mm	
Customer approve:	
w/date	
Approved by :	
w/date	
CAD by :	Steven Huang
w/date	2014.10.20
Issued date :	2014.10.20
w/date	year-month-day

**Specification:**  
**Material:** C1022(C1018)  
**Recess** Phillips/Square/PH-SQ Combo  
**Head:** PAN Head  
**Thread:**  45° Thread  
 45° Thread+TY-17

**Heat Treatment:**  
**Core hardness:** HV 320-450  
**Surface hardness:** HV 450-800  
**Bending Angle:** > 15° Breaking  
**Thread Length:** Below 1-1/8": full thread  
1-1/4"~1-3/8": Max. 7/8" thread length (20-22mm)  
Above 1-1/2" : Max. 2/3 total length

**Total Length:** Below 5/8" : +0 / - 0.039" (-1.0mm)  
Above 3/4" : +0 / - 0.05" (-1.2mm)  
Above 3-1/2"(incl.): +0 / - 0.08" (-2.0mm)