



DW#	A1-QS021			PH/SQ/PQ - PAN - QS45/17QS													Revision Record			
	Date	Dim./Spec.	Old	New									Date	Dim./Spec.	Old	New				
Size /Thrds	A	Ht		Phillips		Gage						W · E	W · E	D	d	Wire	Torque kgf.cm			
		Phillips	Square/Combo	M	N	Phillips		Square/Combo		Square/Combo		Phillips	Square/Combo							
						Recess	Q	Recess	P	Recess	P									
#5-14	6.22 5.87	2.26 2.01	2.41 2.11	Min. 3.69	Min. 0.72	#2	1.82 1.17	#1	1.65 1.45	—	—	—	—	3.25 3.10	1.98 1.83	2.30	18			
#6-9	6.85 6.51	2.46 2.21	2.61 2.32	Min. 3.89	Min. 0.72	#2	2.03 1.40	#1	1.65 1.45	#2	1.75 1.45	W:Max. 3.60 E:Max. 0.80	W:Max. 4.50 E:Max. 1.00	4.00 3.75	60° Thrd	2.65	28	Customer approve:		
#6-13	6.85 6.51	2.46 2.21	2.61 2.32	Min. 3.89	Min. 0.72	#2	2.03 1.40	#1	1.65 1.45	#2	1.75 1.45	W:Max. 3.60 E:Max. 0.80	W:Max. 4.50 E:Max. 1.00	3.58 3.45	2.21 2.00	2.50	21	Approved by :		
#7-12	7.51 7.14	2.69 2.44	2.81 2.52	Min. 4.15	Min. 0.74	#2	2.26 1.63	#1	1.65 1.45	—	—	W:Max. 4.00 E:Max. 0.80	W:Max. 4.50 E:Max. 1.00	3.91 3.76	2.43 2.22	2.80	30	w/date		
#7-9	7.51 7.14	2.69 2.44	2.81 2.52	Min. 4.15	Min. 0.74	#2	2.26 1.63	#1	1.65 1.45	—	—	W:Max. 4.00 E:Max. 0.80	W:Max. 4.50 E:Max. 1.00	4.20 3.90	60° Thrd	2.80	30	CAD by :		
#8-11	8.17 7.78	2.92 2.67	3.04 2.72	Min. 4.30	Min. 0.77	#2	2.46 2.05	#2	1.90 1.66	—	—	W:Max. 4.30 E:Max. 1.00	W:Max. 5.00 E:Max. 1.20	4.26 4.07	2.61 2.38	2.95	32	w/date		
#9-10	8.17 7.78	2.92 2.67	3.04 2.72	Min. 4.30	Min. 0.77	#2	2.46 2.05	#2	1.90 1.66	—	—	—	—	4.59 4.42	2.78 2.50	3.20	37	Issued date :		
#10-9	9.47 9.07	3.37 3.10	3.47 3.13	Min. 4.73	Min. 0.79	#2	2.87 2.27	#2	1.90 1.66	—	—	W:Max. 5.00 E:Max. 1.20	W:Max. 5.40 E:Max. 1.20	4.92 4.75	3.02 2.79	3.40	45	w/date	year-month-day	
#12-8	11.30 9.89	3.83 3.54	3.88 3.53	Min. 6.25	Min. 0.86	#3	3.14 2.50	#3	2.41 2.16	—	—	W:Max. 5.40 E:Max. 1.20	—	5.50 5.00	3.50 3.20	3.80	60			
#14-8	12.49 12.02	4.44 4.12	4.44 4.07	Min. 6.81	Min. 0.91	#3	3.65 3.00	#3	2.41 2.16	—	—	—	—	6.65 6.40	4.88 4.62	5.20	165			

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)