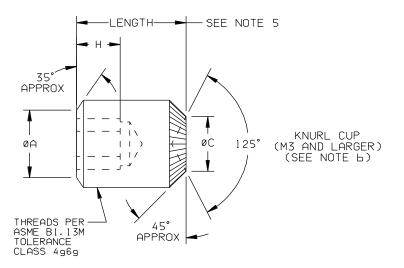
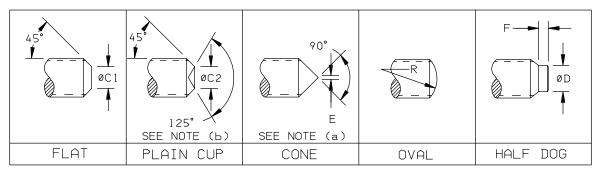
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ECHNOLOGIES





(a) WHEN LENGTH EQUALS NOMINAL DIAMETER OR LESS, INCLUDED ANGLE IS 118°. (b) WHEN LENGTH EQUALS NOMINAL DIAMETER OR LESS, INCLUDED ANGLE IS 135°.

TABLE I

NOM DIA	THREADS	ØA MAX	ØC		ØC1		øC2		D		Е		F		Z T	R		W NOM
I DIH		MHA	MAX	NIM	MAX	NIM	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	**	MAX	MIN	NON
M1.6	MJ1.6X0.35	1.00	0.80	0.55	0.80	0.55	0.80	0.64	0,80	0, 55	0.16	0	0.53	0.40	0.6	1.60	1.20	0.7
	MJ2X0.4	1.32	1.00	0.75	1.00	0.75	1.00	0.82	1.00	0.75	0.20	0		0.50	0.6	1.90	1.50	0.9
	MJ2.5X0.45	1.75	1.20	0.95	1.50	1.25	1.25	1.05	1.50	1.25	0.25	0	0.78	0.63	0.7	2.28		1.3
М3	MJ3X0.5	2.10	1.40	1.15	2.00	1.75	1.50	1.28	2.00	1.75	0.30	0	0.92	0.75	0.6	2.65	2.25	1.5
	MJ4X0.7	2.75	2.00	1.75	2.50	2. 25	2.00	1.75	2.50	2. 25	0.40	0	1.20	1.00	1.0	3.80	3.00	2.0
	NJ5X0.8	3. 70	2.50	2.25	3.50	3.20	2.50	2.22		3. 20	0.50	0	1.37	1.25	1.2	4.55	3. 75	2.5
	MJ6X1.0	4.35	3.00	2.75	4.00	3.70		2.69	4.00	3.70	1.50	1.2	1.74	1.50	1.8	5.30	4.50	3.0
	MJ8X1.25	6.00	5.00	4.70	5.50	5.20	4.00	3.65	5.50	5. 20	2.00	1.6	2.28	2.00	1.8	6,80	6.00	4.0
M10	MJ10X1.5	7.40	6.00	5.70	7.00	6.64	5.00	4.60	7.00	6.64	2.50	2.0	2.82	2.50	2.0	8,30	7.50	5,0
M12	MJ12X1.75	8,60	8.00	7.64	8.50	8.14	6.00	5.57	8.50	8.14	3.00	2.4	3.35	3.00	3.0	9,80	9.00	6.0
M16	MJ16X2.0	12.35	10.00	9.64	12.00	11.57	8.00	7.50	12.00		4.00	3. 2	4.40	4.00	3.0	12.80	12.00	8.0
M20		16.00	14.00	13.57	15.00	14.57	10.00	9.44		14.57	5.00	4.0	5.45	5.00	6.0	15.80	15.00	10.0
M24	MJ24X3.0	18.95	16.00	15.57	18.00	17.57	12.00	11.39	18.00	17.57	6.00	4.8	6.49	6.00	5.0	18.80	18.00	12.0

** VALUES SHOWN IN COLUMN H ARE FOR MINIMUM STOCK LENGTH FLAT & CUP POINT SCREWS

TABLE II

LENGTH TOLERANCE, mm	
LENGTHS EQUAL TO OR SHORTER THAN THE NOMINAL SCREW DIAMETER	+0.25mm -0.00mm
LENGTHS OVER THE NOMINAL SCREW DIAMETER THRU 50mm	±0.25
OVER 50mm THRU 80mm	±0.5
OVER 80mm THRU 120mm	±0.7
OVER 120mm	±0.8

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TOLERANCES ±0. 25 AND ±2*
SURFACE ROUGHNESS 3. 2/
UNLESS OTHERWISE NOTED
DRAWN BY: KATHY SCHWARTZ
APPROVED: S FOSTER
APPROVED: L KLINE

THIS
PRODUCT DRAWING
IS DRAWING
IS DRAWING
IN ACCORPANCE
WITH ASME Y14. 5M
DATE: \$/10/02

DATE: 8/02/02

TECHNOLOGIES

SET SCREW, HEXAGON RECESS VARIOUS POINT STYLES ALLOY STEEL

TITLE

FSCM NO. 56878 CUSTODIAN: JENKINTOWN, PA. STANDARDS AND SPECIFICATIONS
SEE NOTE 1

PART NUMBER: SEE TABLE III & NOTE 5
SHEET 1 OF 2 ER-020

ECHNOLOGIES

TABLE III

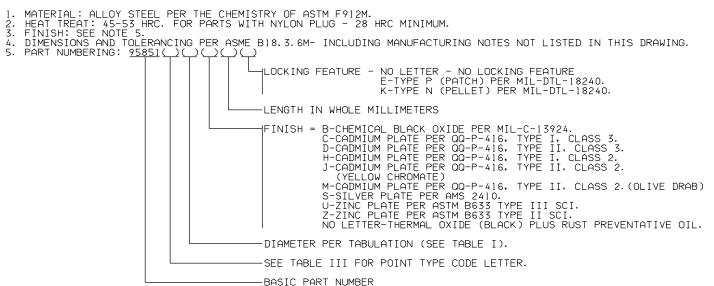
BASIC PART NUMBER	POINT TYPE	GENERAL APPLICATIONS
95851F	FLAT	USE WHERE PARTS MUST BE FREQUENTLY RE-SET; HARDENED SHAFTS, ADJUSTING SCREW.
95851P	PLAIN CUP	USE WHERE HIGH TIGHTENING TORQUES ARE IMPRACTICAL; ZINC, DIE CASTINGS.
95851C	CONE	USE WHERE PERMANENT LOCATION IS NECESSARY; PIVOTS, FINE ADJUSTMENTS.
95851K	KNURL CUP	USE FOR QUICK AND PERMANENT LOCATION; GEARS, COLLARS, RESISTS SCREW LOOSENING.
95851V	OVAL	USE FOR FREQUENT ADJUSTMENT WITHOUT DEFORMATION AND AGAINST ANGULAR SURFACES.
95851H	HALF DOG	USE WHERE PERMANENT LOCATION IS NECESSARY; HOLLOW TUBE, REPLACES DOWEL PIN.

TABLE IV

SIZE	RECOMMENDED SEATING TORQUE						
JIZL	INLBS.	Nm					
M1.6	0.8	0.09					
M2	1.8	0.21					
M2.5	5.0	0.57					
М3	8.0	0.92					
M4	19.0	2. 20					
M5	35.0	4.00					
M6	64.0	7. 20					
M8	150.0	17.00					
M10	290.0	33.00					
M12	480.0	54.00					
M16	1190.0	134.00					
M20	2100.0	237.00					
M24	3860.0	440.00					

THE RECOMMENDED SEATING TORQUES LISTED THE RECOMMENDED SEATING TORQUES LISTED SERVE AS GUIDELINES ONLY. EVEN WHEN USING THE RECOMMENDED SEATING TORQUES, THE INDUCED LOADS OBTAINED MAY VARY AS MUCH AS ±25% DEPENDING UPON THE UNCONTROLLED VARIABLES SUCH AS MATING MATERIAL, PLATING, LUBRICATION, SURFACE FINISH, HARDNESS, BOLT/JOINT COMPLIANCE, METHOD OF TIGHTENING, ETC.

HOWEVER, THE BEST WAY TO DETERMINE
THE CORRECT TORQUE IS TO RUN TESTS
ON THE PARTICULAR JOINT BY TIGHTENING
SAMPLE BOLTS UNTIL THEY JUST BEGIN TO YIELD.
THE OPTIMUM TORQUE IS 80% OF THIS VALUE.



TOLERANCES ±.010 AND ±2° SURFACE ROUGHNESS 125/ UNLESS OTHERWISE NOTED



SHEET 2 OF 2