

前 言

本标准是采用德国标准 DIN V 4001. Teil 12:1988 的编制原则和技术内容,根据我国螺钉国家标准的具体情况编写制定的。其技术内容与 DIN V 4001. Teil 12:1988 等效,编写方法及描述手段与 DIN V 4001. Teil 12:1988 等同。

由于两国在螺钉类标准件的分类,标准编号规划,各分标准的包括范围,及同类标准件的具体产品的种类、形状、尺寸等方面存在不同,所以本标准与 DIN 4001. Teil 12:1988 标准在一些具体内容上存在差异。它们的主要差异是:

a) 在“所处理的产品标准”章中,因本标准所处理的产品标准是中国螺钉的国家标准,所以二者在标准号、具体产品种类个数方面都不同。

b) 在“特性名称和特性表”章中,因所处理的螺钉标准件具体产品的形状有不同、数据有不同,所以两标准的几何形状等特性参数个数、名称定义都有所不同。

c) 在“图形整件”章中,因所处理的螺钉产品中具体的种类数量和形状不同,因而本标准的图形整件(即 K 构件)数、图形形状、图形排号与 DIN 4001. Teil 12:1988 不同。

本系列标准依照我国国家标准化主管部门的规划将陆续制定出版。本合订本包括以下七个独立部分:

GB/T 15049.3—1996	CAD 标准件图形文件	几何图形和特性规范	铆钉 (eqv DIN V 4001. Teil 16:1987)
GB/T 15049.4—1996	CAD 标准件图形文件	几何图形和特性规范	销 (eqv DIN V 4001. Teil 902:1988)
GB/T 15049.5—1996	CAD 标准件图形文件	几何图形和特性规范	螺母 (eqv DIN V 4001. Teil 29:1989)
GB/T 15049.6—1996	CAD 标准件图形文件	几何图形和特性规范	螺栓 (eqv DIN V 4001. Teil 11:1992)
GB/T 15049.7—1996	CAD 标准件图形文件	几何图形和特性规范	螺钉 (eqv DIN V 4001. Teil 12:1988)
GB/T 15049.8—1996	CAD 标准件图形文件	几何图形和特性规范	挡圈
GB/T 15049.9—1996	CAD 标准件图形文件	几何图形和特性规范	垫圈 (eqv DIN V 4001. Teil 15:1988)

本标准由中国标准化与信息分类编码研究所提出并归口。

本标准起草单位:中国标准化与信息分类编码研究所。

本标准主要起草人:秦光里、李维荣、洪岩、鲍仲平。

本标准委托中国标准化与信息分类编码研究所负责解释。

中华人民共和国国家标准

CAD 标准件图形文件 几何图形和特性规范 螺 钉

GB/T 15049.7—1996

CAD standard parts file—Specification of geometry and parameters
—Screws

1 范围

本标准规定了构成 GB/T 15049 CAD 标准件图形文件系列标准的螺钉的标准描述。本标准用于编制与 CAD 零件库相关的特性文件及 2 维和 3 维图形程序,以保证获得螺钉的标准描述及其标准图形显示。本标准适用于计算机辅助设计和产品计算机管理等。本标准不适用于该标准件的制造与验收。

2 引用标准

下列标准所包含的条文,通过在本标准中引用而构成本标准的条文。本标准出版时,所示版本均为有效,所有标准都会被修订,使用本标准的各方应探讨使用下列标准最新版本的可能性。

GB/T 10091.1—1995 事物特性表 定义和原理

GB/T 15049.1—94 CAD 标准件图形文件 编制总则

3 所处理的产品标准

- GB 65—85 开槽圆柱头螺钉
- GB 67—85 开槽盘头螺钉
- GB 68—85 开槽沉头螺钉
- GB 69—85 开槽半沉头螺钉
- GB 70—85 内六角圆柱头螺钉
- GB 83—88 方头长圆柱球面端紧定螺钉
- GB 84—88 方头凹端紧定螺钉
- GB 85—88 方头长圆柱端紧定螺钉
- GB 86—88 方头短圆柱锥端紧定螺钉
- GB 818—85 十字槽盘头螺钉
- GB 819—85 十字槽沉头螺钉
- GB 820—85 十字槽半沉头螺钉
- GB 821—88 方头倒角端紧定螺钉
- GB 822—88 十字槽圆柱头螺钉
- GB 823—88 十字槽小盘头螺钉
- GB 828—88 开槽盘头定位螺钉
- GB 833—88 开槽大圆柱头螺钉
- GB 837—88 开槽盘头不脱出螺钉

国家技术监督局 1996-10-23 批准

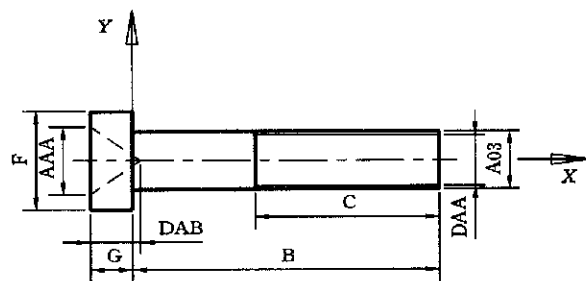
1997-05-01 实施

表 2(完)

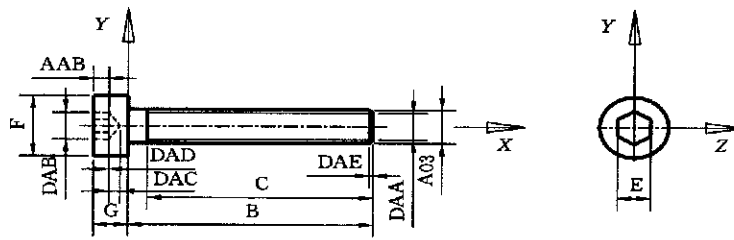
产品标准	特性和尺寸字母代码(*代表几何尺寸)																			整件		
	A01	A03	B	C	D	E	F	G	H	J	AAA	AAB	AACA	AAD	AAE	AAF	AAGA	AAH	AAI		AAJ	EAA
	*	*	*	*	*	*	*	*			*	*	*	*	*	*	*	*	*		*	*
GB 820	+	d	l	b	-	-	dk	k	+	+	m	-	f	rf	-	-	-	-	-	-	+	K6
GB 822	+	d	l	b	-	-	dk	K	+	+	m	-	-	-	-	-	-	-	-	-	-	K7
GB 70	+	d	l	b	-	s	dk	k	+	+	-	t	-	-	-	-	-	-	-	-	+	K8
GB 5281	+	d	l	b	ds	s	dk	k	+	+	-	t	-	-	-	-	-	-	-	-	-	K9
GB 83	+	d	l	-	-	S	-	K	+	+	-	-	-	-	e	c	re	z	dp	-	-	K10
GB 84	+	d	l	-	-	S	-	K	+	+	-	-	-	-	e	-	-	-	-	-	-	K11
GB 821	+	d	l	-	-	S	-	K	+	+	-	-	-	-	e	-	-	-	-	-	-	K11
GB 85	+	d	l	-	-	S	-	K	+	+	-	-	-	-	e	-	-	z	dp	-	-	K12
GB 86	+	d	l	-	-	S	-	K	+	+	-	-	-	-	e	-	-	z	dp	-	-	K13
GB 828	+	d	l	-	-	-	dk	K	+	+	n	t	-	-	-	-	re	z	dp	-	-	K14
GB 833	+	d	l	-	-	-	dk	K	+	+	n	t	-	-	-	-	re	-	-	-	-	K15
GB 837	+	d	l	b	-	-	dk	K	+	+	n	t	-	-	-	-	-	-	-	d1	-	K16
GB 838	+	d	l	b	-	S	-	K	+	+	-	-	-	-	-	-	-	-	-	d1	-	K17
GB 947	+	d	l	+	-	-	dk	k	+	+	n	t	-	R	-	-	re	-	-	-	-	K18
GB 948	+	d	l	b	-	-	dk	K	+	+	n	t	-	-	-	-	-	-	-	d1	-	K19
GB 949	+	d	l	b	-	-	dk	K	+	+	n	t	f	rf	-	-	-	-	-	d1	-	K20

5 图形规则

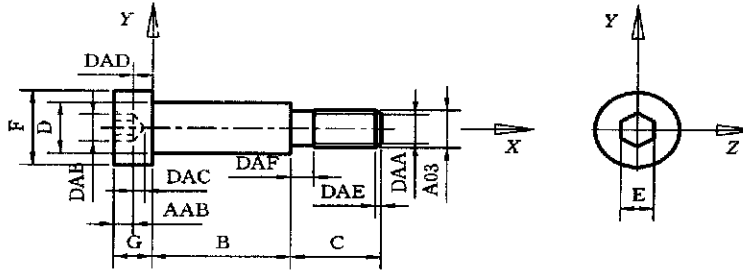
5.1 螺钉整件



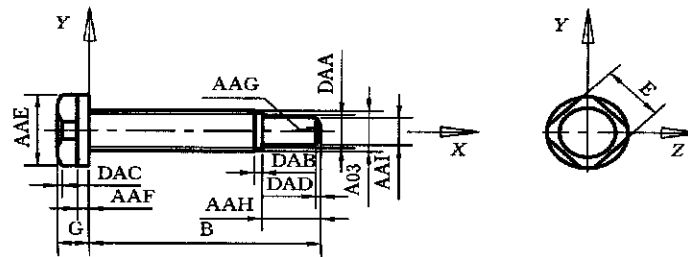
$DAA = 0.85 * A03$
 $DAB = 1.2 * G$
 $K7(A03, B, C, F, G, AAA)$



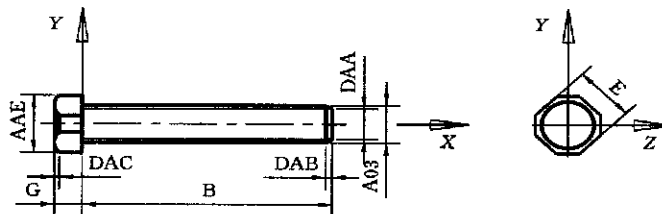
$$\begin{aligned} DAA &= 0.85 * A03 \\ DAB &= 2 * E * \text{TAN}(\text{PI}/6) \\ DAC &= 0.5 * DAB * \text{TAN}(\text{PI}/6) \\ DAD &= 0.5 * (DAB - E) * \text{TAN}(\text{PI} * 15 / 180) \\ DAE &= 0.15 * A03 \\ K8 &(A03, B, C, E, F, G, AAB) \end{aligned}$$



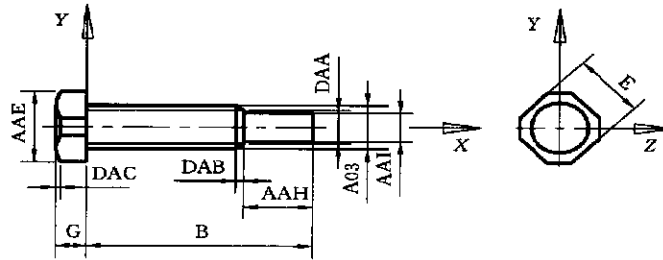
$$\begin{aligned} DAA &= 0.85 * A03 \\ DAB &= 2 * E * \text{TAN}(\text{PI}/6) \\ DAC &= 0.5 * DAB * \text{TAN}(\text{PI}/6) \\ DAD &= 0.5 * (DAB - E) * \text{TAN}(\text{PI} * 15 / 180) \\ DAE &= 0.15 * A03 \\ DAF &= 0.25 * C \\ K9 &(A03, B, C, D, E, F, G, AAB) \end{aligned}$$



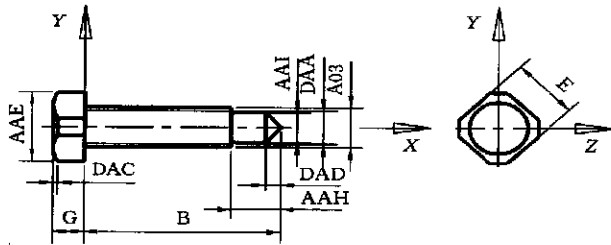
$$\begin{aligned} DAA &= 0.85 * A03 \\ DAB &= 0.15 * A03 \\ DAC &= 0.5 * (AAE - E) * \text{TAN}(\text{PI}/6) \\ DAD &= 0.5 * AAG - \text{SQRT}((AAG/2) * * 2 - (AAI/2) * * 2) \\ K10 &(A03, B, E, G, AAE, AAF, AAG, AAH, AAI) \end{aligned}$$



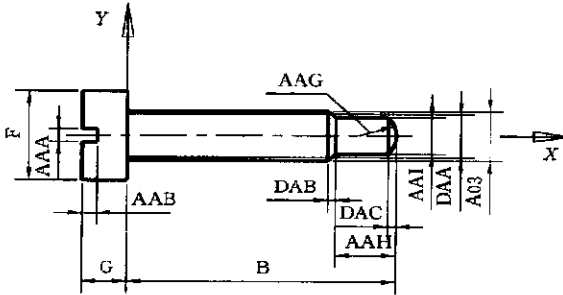
$$\begin{aligned} DAA &= 0.85 * A03 \\ DAB &= 0.15 * A03 \\ DAC &= 0.5 * (AAE - E) * \text{TAN}(\text{PI}/6) \\ K11 &(A03, B, E, G, AAE) \end{aligned}$$



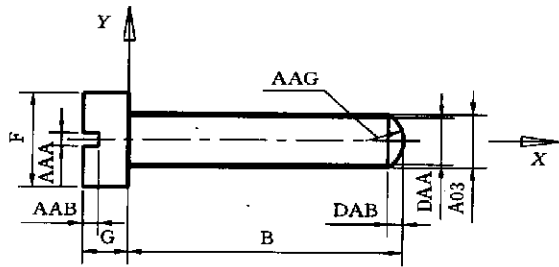
$$\begin{aligned} DAA &= 0.85 * A03 \\ DAB &= 0.15 * A03 \\ DAC &= 0.5 * (AAE - E) * \text{TAN}(\text{PI}/6) \\ K12 &(A03, B, E, G, AAE, AAH, AAJ) \end{aligned}$$



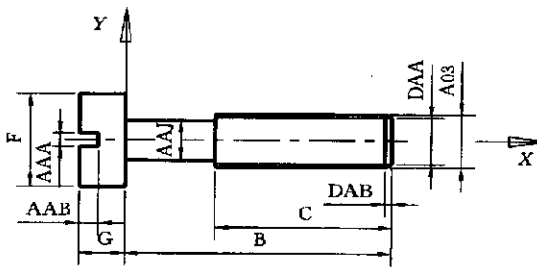
$$\begin{aligned} DAA &= 0.85 * A03 \\ DAC &= 0.5 * (AAE - E) * \text{TAN}(\text{PI}/6) \\ DAD &= 0.5 * AAI \\ K13 &(A03, B, E, G, AAE, AAH, AAJ) \end{aligned}$$



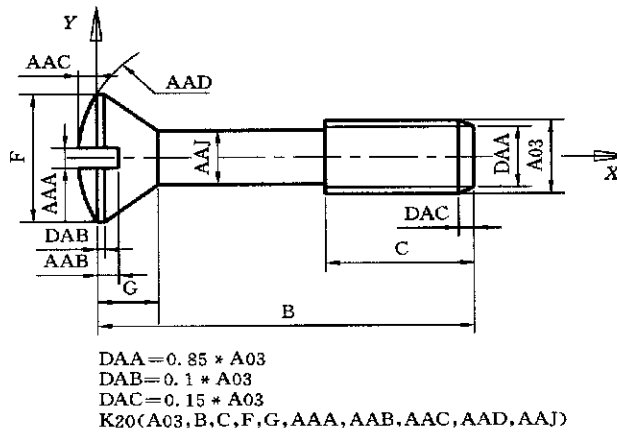
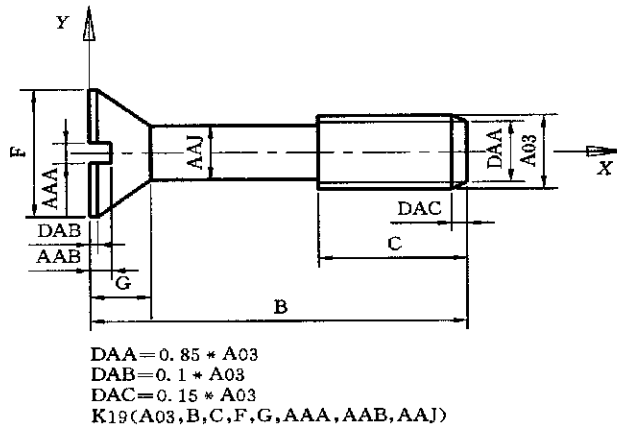
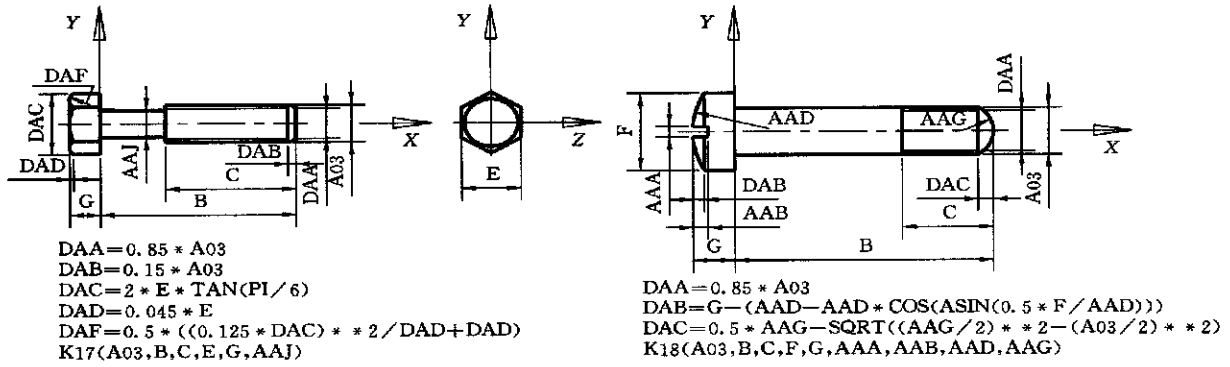
$$\begin{aligned} DAA &= 0.85 * A03 \\ DAB &= 0.15 * A03 \\ DAC &= AAG / 2 - \text{SQRT}((AAG / 2) * * 2 - (AAI / 2) * * 2) \\ K14 &(A03, B, F, G, AAA, AAB, AAG, AAH, AAJ) \end{aligned}$$



$$\begin{aligned} DAA &= 0.85 * A03 \\ DAB &= AAG / 2 - \text{SQRT}((AAG / 2) * * 2 - (A03 / 2) * * 2) \\ K15 &(A03, B, F, G, AAA, AAB, AAG) \end{aligned}$$



$$\begin{aligned} DAA &= 0.85 * A03 \\ DAB &= 0.15 * A03 \\ K16 &(A03, B, C, F, G, AAA, AAB, AAJ) \end{aligned}$$



5.2 螺钉事物特性表

BD

ID,NN,'GB 65—85'

ID,NT,'开槽圆柱头螺钉'

ID,NB,'NB="螺钉 GB 65—85— \$ A01. x \$ B."'

ID,AD,'1986.06.01'

ID,VD,941215,1

ID,FA,1,'CN 400008888 000000'

ID,FD,2.1

GE,KT,'KT="D7K1"'

GE,PA,D7K1 ,A03 ,B ,C ,F ,G ,AAA,AAB

GE,SM,D7K1,'GB10091',1

VI,DA,A01 ,A4 ,A03 ,I2 ,B ,I2 ,C ,F4.1 ,F ,F4.1 ,G ,F3.1 ,AAA ,F3.1 ,AAB ,F3.1

C

C

C 特性描述项

C

ZA,MM,10

MM,SM,1, 10,1,1,A01 , '螺纹规格' , , , ,T

MM,SM,1, 20,1,1,A03 , '螺纹大径' , 'd' , 'mm' ,Z

MM,SM,1, 30,1,1,B , '公称长度' , 'l' , 'mm' ,Z

MM,SM,1, 40,1,1,C , '螺纹长度' , 'b' , 'mm' ,Z

MM,SM,1, 50,1,1,F , '头部直径' , 'dk' , 'mm' ,Z

MM,SM,1, 60,1,1,G , '头部高度' , 'k' , 'mm' ,Z

MM,SM,1, 70,1,0,H , '性能等级' , , ,Z

MM,SM,1, 80,1,0,J , '表面处理' , , ,T

MM,GM,1, 90,1,1,AAA , '槽宽' , 'n' , 'mm' ,Z

MM,GM,1, 100,1,1,AAB , '槽深' , 't' , 'mm' ,Z

C

C

C 特性数据项

C

C AE IDNR FA A01 A03 B C F G AAA AAB

C

ZA,DA,1

DA.1,10,1, 'M4', 4, 5, 3.6, 7, 2.6, 1.2, 1.1

C

C

ED

注：'特性数据项'栏的第四行'ZA,DA,1'的第三项是数值,该数值与下面所列的具体数据的行数对应。具体产品的数据有多少行,则该数值就是多少。本标准只给出了此标准件产品的第一行数据作样板,所以该项数值给的是'1'。下同。

BD

ID,NN,'GB 67—85'

ID,NT,'开槽盘头螺钉'

ID,NB,'NB="螺钉 GB 67—85— \$ A01. x \$ B. "'

ID,AD,'1986. 06. 01'

ID,VD,941215,1

ID,FA,1,'CN 400008888 000000'

ID,FD,2.1

GE,KT,'KT="D7K1"'

GE,PA,D7K1 ,A03 ,B ,C ,F ,G ,AAA,AAB

GE,SM,D7K1,'GB10091',1

VI,DA,A01 ,A6 ,A03 ,F4.1 ,B ,F4.1 ,C ,F4.1 ,F ,F4.1 ,G ,F3.1 ,AAA ,F3.1 ,AAB ,F3.1

C

C

C 特性描述项

C

ZA,MM,10

MM,SM,1, 10,1,1,A01 , '螺纹规格' , , ,T

MM,SM,1, 20,1,1,A03 , '螺纹大径' , 'd' , 'mm' ,Z

MM,SM,1, 30,1,1,B , '公称长度' , 'l' , 'mm' ,Z

MM,SM,1, 40,1,1,C , '螺纹长度' , 'b' , 'mm' ,Z

MM,SM,1, 50,1,1,F , '头部直径' , 'dk' , 'mm' ,Z

MM,SM,1, 60,1,1,G , '头部高度' , 'k' , 'mm' ,Z

MM,SM,1, 70,1,0,H , '性能等级' , , ,Z

MM,SM,1, 80,1,0,J , '表面处理' , , ,T

MM,GM,1, 90,1,1,AAA , '槽宽' , 'n' , 'mm' ,Z

MM,GM,1, 100,1,1,AAB , '槽深' , 't' , 'mm' ,Z

C

C

C 特性数据项

C

C AE IDNR FA A01 A03 B C F G AAA AAB

C

ZA,DA,1

DA,1,10,1, 'M1.6', 1.6, 2, 1.3, 2.9, 1, 0.4, 0.35

C

C

ED

BD

ID,NN,'GB 68—85'

ID,NT,'开槽沉头螺钉'

ID,NB,'NB="螺钉 GB 68—85—\$ A01.x \$ B."'

ID,AD,'1986.06.01'

ID,VD,941215,1

ID,FA,1,'CN 400008888 000000'

ID,FD,2.1

GE,KT,'KT="D7K2"'

GE,PA,D7K2 ,A03 ,B ,C ,F ,G ,AAA,AAB

GE,SM,D7K2,'GB10091',1

VI,DA,A01 ,A4 ,A03 ,F4.1 ,B ,F4.1 ,C ,F4.1 ,F ,F4.1 ,G ,F5.2 ,AAA ,F3.1 ,AAB ,F4.2

C

C

C 特性描述项

C

ZA,MM,10

MM,SM,1, 10,1,1,A01 , '螺纹规格' , , ,T

MM,SM,1, 20,1,1,A03 , '螺纹大径' , 'd' , 'mm' ,Z

MM,SM,1, 30,1,1,B , '公称长度' , 'l' , 'mm' ,Z

MM,SM,1, 40,1,1,C , '螺纹长度' , 'b' , 'mm' ,Z

MM,SM,1, 50,1,1,F , '头部直径' , 'dk' , 'mm' ,Z

MM,SM,1, 60,1,1,G , '头部高度' , 'k' , 'mm' ,Z

MM,SM,1, 70,1,0,H , '性能等级' , , ,Z

MM,SM,1, 80,1,0,J , '表面处理' , , ,T

MM,GM,1, 90,1,1,AAA , '槽宽' , 'n' , 'mm' ,Z

MM,GM,1, 100,1,1,AAB , '槽深' , 't' , 'mm' ,Z

C

C

C 特性数据项

C

C AE IDNR FA A01 A03 B C F G AAA AAB

C

ZA,DA,1

DA,1,10,1, 'M1.6', 1.6, 2.5, 1.8, 3, 1, 0.4, 0.32

C

C

ED

BD

ID,NN,'GB 69—85'

ID,NT,'开槽半沉头螺钉'

ID,NB,'NB="螺钉 GB 69—85—\$ A01.x \$ B."'

ID,AD,'1986.06.01'

ID,VD,941215,1

ID,FA,1,'CN 400008888 000000'

ID,FD,2.1

GE,KT,'KT="D7K3"'

GE,PA,D7K3 ,A03 ,B ,C ,F ,G ,AAA,AAB,AAC,AAD

GE,SM,D7K3,'GB10091',1

VI,DA,A01 ,A4 ,A03 ,F4.1 ,B ,I2 ,C ,F4.1 ,F ,F4.1,

* G ,F4.2,AAA ,F3.1 ,AAB ,F4.2 ,AAC ,F3.1 ,AAD,F4.1

C

C

C 特性描述项

C

ZA,MM,12

MM,SM,1, 10,1,1,A01 , '螺纹规格' , , ,T

MM,SM,1, 20,1,1,A03 , '螺纹大径' , 'd' , 'mm' ,Z

MM,SM,1, 30,1,1,B , '公称长度' , 'l' , 'mm' ,Z

MM,SM,1, 40,1,1,C , '螺纹长度' , 'b' , 'mm' ,Z

MM,SM,1, 50,1,1,F , '头部直径' , 'dk' , 'mm' ,Z

MM,SM,1, 60,1,1,G , '头部高度' , 'k' , 'mm' ,Z

MM,SM,1, 70,1,0,H , '性能等级' , , ,Z

MM,SM,1, 80,1,0,J , '表面处理' , , ,T

MM,GM,1, 90,1,1,AAA , '槽宽' , 'n' , 'mm' ,Z

MM,GM,1, 100,1,1,AAB , '槽深' , 't' , 'mm' ,Z

MM,GM,1, 110,1,1,AAC , '头球面高' , 'f' , 'mm' ,Z

MM,GM,1, 120,1,1,AAD , '头球面半径' , 'rf' , 'mm' ,Z

C

C

C 特性数据项

C

C AE IDNR FA A01 A03 B C F G AAA AAB AAC AAD

C

ZA,DA,1

DA,1,10,1, 'M1.6', 1.6, 2.5, 1.8, 3, 1, 0.4, 0.64, 0.4, 3

C

C

ED

BD

ID,NN,'GB 818—85'

ID,NT,'十字槽盘头螺钉'

ID,NB,'IF(EAA.EQ."H")NB="螺钉 GB 818—85—\$A01.x\$B."'

ID,NB,'IF(EAA.EQ."Z")NB="螺钉 GB 818—85—\$A01.x\$B.Z"'

ID,AD,'1986.06.01'
 ID,VD,941215,1
 ID,FA,1,'CN 400008888 000000'
 ID,FD,2.1
 GE,KT,'KT="D7K4" '
 GE,PA,D7K4 ,A03 ,B ,C ,F ,G ,AAA,AAD
 GE,SM,D7K4,'GB10091',1
 VI,DA,A01 ,A4 ,A03 ,F4.1 ,B ,I2 ,C ,F4.1 ,F ,F4.1,
 * G ,F3.1,AAA ,F4.1 ,AAD ,F4.1 ,EAA ,A1

C
 C

C 特性描述项

C
 ZA,MM,11
 MM,SM,1, 10,1,1,A01 , '螺纹规格' , , ,T
 MM,SM,1, 20,1,1,A03 , '螺纹大径' , 'd' , 'mm' ,Z
 MM,SM,1, 30,1,1,B , '公称长度' , 'l' , 'mm' ,Z
 MM,SM,1, 40,1,1,C , '螺纹长度' , 'b' , 'mm' ,Z
 MM,SM,1, 50,1,1,F , '头部直径' , 'dk' , 'mm' ,Z
 MM,SM,1, 60,1,1,G , '头部高度' , 'k' , 'mm' ,Z
 MM,SM,1, 70,1,0,H , '性能等级' , , ,Z
 MM,SM,1, 80,1,0,J , '表面处理' , , ,T
 MM,GM,1, 90,1,1,AAA , '十字槽翼直径' , 'm' , 'mm' ,Z
 MM,GM,1, 100,1,1,AAD , '头球面半径' , 'rf' , 'mm' ,Z
 MM,GA,1, 110,1,1,EAA , '类型' , , ,T

C
 C

C 特性数据项

C
 C AE IDNR FA A01 A03 B C F G AAA AAD EAA

C
 ZA,DA,1
 DA,1,10,1, 'M1.6', 1.6, 3, 2.3, 3.2, 1.3, 1.7, 2.5, 'H'

C
 C

ED

BD
 ID,NN,'GB 823—88'
 ID,NT,'十字槽小盘头螺钉'
 ID,NB,'NB="螺钉 GB 823—88—\$ A01.x \$ B." '
 ID,AD,'1989.07.01'

ID,VD,941215,1

ID,FA,1,'CN 400008888 000000'

ID,FD,2.1

GE,KT,'KT="D7K4"'

GE,PA,D7K4 ,A03 ,B ,C ,F ,G ,AAA,AAD

GE,SM,D7K4,'GB10091',1

VI,DA,A01 ,A6 ,A03 ,F3.1 ,B ,I2 ,C ,F4.1 ,F ,F4.1 ,G ,F4.2 ,AAA ,F4.1 ,AAD ,F4.1

C

C

C 特性描述项

C

ZA,MM,10

MM,SM,1, 10,1,1,A01 , '螺纹规格' , , ,T

MM,SM,1, 20,1,1,A03 , '螺纹大径' , 'd' , 'mm' ,Z

MM,SM,1, 30,1,1,B , '公称长度' , 'l' , 'mm' ,Z

MM,SM,1, 40,1,1,C , '螺纹长度' , 'b' , 'mm' ,Z

MM,SM,1, 50,1,1,F , '头部直径' , 'dk' , 'mm' ,Z

MM,SM,1, 60,1,1,G , '头部高度' , 'k' , 'mm' ,Z

MM,SM,1, 70,1,0,H , '性能等级' , , ,Z

MM,SM,1, 80,1,0,J , '表面处理' , , ,T

MM,GM,1, 90,1,1,AAA , '十字槽翼直径' , 'm' , 'mm' ,Z

MM,GM,1, 100,1,1,AAD , '头球面半径' , 'rf' , 'mm' ,Z

C

C

C 特性数据项

C

C AE IDNR FA A01 A03 B C F G AAA AAD

C

ZA,DA,1

DA,1,10,1, 'M2', 2, 3, 2.2, 3.5, 1.4, 2.2, 4.5

C

C

ED

BD

ID,NN,'GB 819—85'

ID,NT,'十字槽沉头螺钉'

ID,NB,'IF(EAA. EQ. "H")NB="螺钉 GB 819—85—\$ A01. x \$ B. "'

ID,NB,'IF(EAA. EQ. "Z")NB="螺钉 GB 819—85—\$ A01. x \$ B. Z"'

ID,AD,'1986. 06. 01'

ID,VD,941215,1

ID,FA,1,'CN 400008888 000000'

ID,FD,2.1

GE,KT,'KT="D7K5"'

GE,PA,D7K5 ,A03 ,B ,C ,F ,G ,AAA

GE,SM,D7K5,'GB10091',1

VI,DA,A01 ,A4 ,A03 ,F4.1 ,B ,I2 ,C ,F4.1 ,F ,F4.1 ,G ,F4.2 ,AAA ,F4.1 ,EAA ,A1

C

C

C 特性描述项

C

ZA,MM,10

MM,SM,1, 10,1,1,A01 , '螺纹规格' , , , ,T

MM,SM,1, 20,1,1,A03 , '螺纹大径' , 'd' , 'mm' ,Z

MM,SM,1, 30,1,1,B , '公称长度' , 'l' , 'mm' ,Z

MM,SM,1, 40,1,1,C , '螺纹长度' , 'b' , 'mm' ,Z

MM,SM,1, 50,1,1,F , '头部直径' , 'dk' , 'mm' ,Z

MM,SM,1, 60,1,1,G , '头部高度' , 'k' , 'mm' ,Z

MM,SM,1, 70,1,0,H , '性能等级' , , ,Z

MM,SM,1, 80,1,0,J , '表面处理' , , ,T

MM,GM,1, 90,1,1,AAA , '十字槽翼直径' , 'm' , 'mm' ,Z

MM,GA,1, 100,1,1,EAA , '类型' , , ,T

C

C

C 特性数据项

C

C AE IDNR FA A01 A03 B C F G AAA EAA

C

ZA,DA,1

DA,1,10,1, 'M1.6', 1.6, 3, 2.3, 3, 1, 1.6, 'H'

C

C

ED

BD

ID,NN,'GB 820—85'

ID,NT,'十字槽半沉头螺钉'

ID,NB,'IF(EAA.EQ."H")NB="螺钉 GB 820—85—\$ A01.x\$B."'

ID,NB,'IF(EAA.EQ."Z")NB="螺钉 GB 820—85—\$ A01.x\$B.Z"'

ID,AD,'1986.06.01'

ID,VD,941215,1

ID,FA,1,'CN 400008888 000000'

ID,FD,2.1

GE,KT,'KT="D7K6"'

GE,PA,D7K6 ,A03 ,B ,C ,F ,G ,AAA,AAC,AAD
 GE,SM,D7K6,'GB10091',1
 VI,DA,A01 ,A4 ,A03 ,F4.1 ,B ,I2 ,C ,F4.1 ,F ,F4.1,
 * G ,F4.2,AAA ,F4.1 ,AAC ,F3.1 ,AAD ,F4.1 ,EAA ,A1

C

C

C 特性描述项

C

ZA,MM,12

MM,SM,1,	10,1,1,A01	'螺纹规格'	,	,	,	T
MM,SM,1,	20,1,1,A03	'螺纹大径'	'd'	'mm'	,	Z
MM,SM,1,	30,1,1,B	'公称长度'	'l'	'mm'	,	Z
MM,SM,1,	40,1,1,C	'螺纹长度'	'b'	'mm'	,	Z
MM,SM,1,	50,1,1,F	'头部直径'	'dk'	'mm'	,	Z
MM,SM,1,	60,1,1,G	'头部高度'	'k'	'mm'	,	Z
MM,SM,1,	70,1,0,H	'性能等级'	,	,	,	Z
MM,SM,1,	80,1,0,J	'表面处理'	,	,	,	T
MM,GM,1,	90,1,1,AAA	'十字槽翼直径'	'm'	'mm'	,	Z
MM,GM,1,	100,1,1,AAC	'头球面高'	'f'	'mm'	,	Z
MM,GM,1,	110,1,1,AAD	'头球面半径'	'rf'	'mm'	,	Z
MM,GA,1,	120,1,1,EAA	'类型'	,	,	,	T

C

C

C 特性数据项

C

C AE IDNR FA A01 A03 B C F G AAA AAC AAD EAA

C

ZA,DA,1

DA,1,10,1, 'M1.6', 1.6, 3, 2.3, 3, 1, 1.9, 0.4, 3, 'H'

C

C

ED

BD

ID,NN,'GB 822—88'

ID,NT,'十字槽圆柱头螺钉'

ID,NB,'NB="螺钉 GB 822—88—\$ A01. x \$ B. "'

ID,AD,'1989.07.01'

ID,VD,941215,1

ID,FA,1,'CN 400008888 000000'

ID,FD,2.1

GE,KT,'KT="D7K7"'

GE,PA,D7K7 ,A03 ,B ,C ,F ,G ,AAA
 GE,SM,D7K7,'GB10091',1
 VI,DA,A01 ,A4 ,A03 ,F4.1 ,B ,I2 ,C ,F4.1 ,F ,F4.1 ,G ,F3.1 ,AAA ,F5.2

C

C

C 特性描述项

C

ZA,MM,9

MM,SM,1, 10,1,1,A01	,'螺纹规格'	,	,	,	,T
MM,SM,1, 20,1,1,A03	,'螺纹大径'	,'d'	,'mm'	,	Z
MM,SM,1, 30,1,1,B	,'公称长度'	,'l'	,'mm'	,	Z
MM,SM,1, 40,1,1,C	,'螺纹长度'	,'b'	,'mm'	,	Z
MM,SM,1, 50,1,1,F	,'头部直径'	,'dk'	,'mm'	,	Z
MM,SM,1, 60,1,1,G	,'头部高度'	,'k'	,'mm'	,	Z
MM,SM,1, 70,1,0,H	,'性能等级'	,	,	,	Z
MM,SM,1, 80,1,0,J	,'表面处理'	,	,	,	T
MM,GM,1, 90,1,1,AAA	,'十字槽翼直径'	,'m'	,'mm'	,	Z

C

C

C 特性数据项

C

C AE IDNR FA A01 A03 B C F G AAA

C

ZA,DA,1

DA,1,10,1, 'M2', 2, 3, 2.2, 3.5, 1.4, 2.41

C

C

ED

BD

ID,NN,'GB 70—85'

ID,NT,'内六角圆柱头螺钉'

ID,NB,'NB="螺钉 GB 70—85—\$ A01.x \$ B."'

ID,AD,'1986.06.01'

ID,VD,941215,1

ID,FA,1,'CN 400008888 000000'

ID,FD,2.1

GE,KT,'KT="D7K8"'

GE,PA,D7K8 ,A03 ,B ,C ,E ,F ,G ,AAB

GE,SM,D7K8,'GB10091',1

VI,DA,A01 ,A5 ,A03 ,F4.1 ,B ,I3 ,C ,F4.1 ,E ,F4.1 ,F ,F4.1 ,G ,F4.1 ,AAB ,F4.1

C

C

C 特性描述项

C

ZA,MM,10

MM,SM,1,	10,1,1,A01	, '螺纹规格'	,	,	,	,T
MM,SM,1,	20,1,1,A03	, '螺纹大径'	, 'd'	, 'mm'	,	Z
MM,SM,1,	30,1,1,B	, '公称长度'	, 'l'	, 'mm'	,	Z
MM,SM,1,	40,1,1,C	, '螺纹长度'	, 'b'	, 'mm'	,	Z
MM,SM,1,	50,1,1,E	, '对边宽度'	, 's'	, 'mm'	,	Z
MM,SM,1,	60,1,1,F	, '头部直径'	, 'dk'	, 'mm'	,	Z
MM,SM,1,	70,1,1,G	, '头部高度'	, 'k'	, 'mm'	,	Z
MM,SM,1,	80,1,0,H	, '性能等级'	,	,	,	Z
MM,SM,1,	90,1,0,J	, '表面处理'	,	,	,	T
MM,GM,1,	100,1,1,AAB	, '内六角孔深'	, 't'	, 'mm'	,	Z

C

C

C 特性数据项

C

C AE IDNR FA A01 A03 B C E F G AAB

C

ZA,DA,1

DA,1,10,1, 'M1.6', 1.6, 2.5, 2.5, 1.5, 3, 1.6, 0.7

C

C

ED

BD

ID,NN,'GB 5281—85'

ID,NT,'内六角圆柱头轴肩螺钉'

ID,NB,'NB="螺钉 GB 5281—85— \$ A01. x \$ B."'

ID,AD,'1986.06.01'

ID,VD,941215,1

ID,FA,1,'CN 40008888 000000'

ID,FD,2.1

GE,KT,'KT="D7K9"'

GE,PA,D7K9 ,A03 ,B ,C ,D ,E ,F ,G ,AAB

GE,SM,D7K9,'GB10091',1

VI,DA,A01 ,A3 ,A03 ,I2 ,B ,I3 ,C ,F5.2 ,D

* ,F4.1 ,E ,I2 ,F ,I2 ,G ,F4.1 ,AAB ,F4.1

C

C

C 特性描述项

C

ZA,MM,11

MM,SM,1,	10,1,1,A01	,'螺纹规格'	,	,	,	T
MM,SM,1,	20,1,1,A03	,'螺纹大径'	,'d'	,'mm'	,	Z
MM,SM,1,	30,1,1,B	,'公称长度'	,'l'	,'mm'	,	Z
MM,SM,1,	40,1,1,C	,'螺纹长度'	,'b'	,'mm'	,	Z
MM,SM,1,	50,1,1,D	,'公称直径'	,'ds'	,'mm'	,	Z
MM,SM,1,	60,1,1,E	,'对边宽度'	,'s'	,'mm'	,	Z
MM,SM,1,	70,1,1,F	,'头部直径'	,'dk'	,'mm'	,	Z
MM,SM,1,	80,1,1,G	,'头部高度'	,'k'	,'mm'	,	Z
MM,SM,1,	90,1,0,H	,'性能等级'	,	,	,	Z
MM,SM,1,	100,1,0,J	,'表面处理'	,	,	,	T
MM,GM,1,	110,1,1,AAB	,'内六角孔深'	,'t'	,'mm'	,	Z

C

C

C 特性数据项

C

C AE IDNR FA A01 A03 B C D E F G AAB

C

ZA,DA,1

DA,1,10,1, 'M5', 5, 10, 9.75, 6.5, 3, 10, 4.5, 2.4

C

C

ED

BD

ID,NN,'GB 83—88'

ID,NT,'方头长圆柱球面端紧定螺钉'

ID,NB,'NB="螺钉 GB 83—88—\$ A01. x \$ B."'

ID,AD,'1989.07.01'

ID,VD,941215,1

ID,FA,1,'CN 400008888 000000'

ID,FD,2.1

GE,KT,'KT="D7K10"'

GE,PA,D7K10 ,A03 ,B ,E ,G ,AAE,AAF,AAG,AAH,AAI

GE,SM,D7K10,'GB10091',1

VI,DA,A01 ,A3 ,A03 ,I2 ,B ,I3 ,E ,I2 ,G ,I2 ,

* AAE ,F4.1 ,AAF ,I1 ,AAG ,F4.1 ,AAH ,F4.1 ,AAI ,F4.1

C

C

C 特性描述项

C

ZA,MM,12
 MM,SM,1, 10,1,1,A01 , '螺纹规格' , , ,T
 MM,SM,1, 20,1,1,A03 , '螺纹大径' , 'd' , 'mm' ,Z
 MM,SM,1, 30,1,1,B , '公称长度' , 'l' , 'mm' ,Z
 MM,SM,1, 40,1,1,E , '对边宽度' , 'S' , 'mm' ,Z
 MM,SM,1, 50,1,1,G , '头部高度' , 'K' , 'mm' ,Z
 MM,SM,1, 60,1,0,H , '性能等级' , , ,Z
 MM,SM,1, 70,1,0,J , '表面处理' , , ,T
 MM,GM,1, 80,1,1,AAE , '法兰直径' , 'e' , 'mm' ,Z
 MM,GM,1, 90,1,1,AAF , '法兰面高' , 'c' , 'mm' ,Z
 MM,GM,1, 100,1,1,AAG , '尾端球面半径' , 're' , 'mm' ,Z
 MM,GM,1, 110,1,1,AAH , '尾部长' , 'z' , 'mm' ,Z
 MM,GM,1, 120,1,1,AAI , '尾部直径' , 'dp' , 'mm' ,Z

C

C

C 特性数据项

C

C AE IDNR FA A01 A03 B E G AAE AAF AAG AAH AAI

C

ZA,DA,1

DA,1,10,1, 'M8', 8, 16, 8, 9, 9.7, 2, 7.7, 4, 5.5

C

C

ED

BD

ID,NN, 'GB 84—88'

ID,NT, '方头凹端紧定螺钉'

ID,NB, 'NB="螺钉 GB 84—88—\$ A01. x \$ B. "'

ID,AD, '1989. 07. 01'

ID,VD,941215,1

ID,FA,1, 'CN 400008888 000000'

ID,FD,2.1

GE,KT, 'KT="D7K11"'

GE,PA,D7K11 ,A03 ,B ,E ,G ,AAE

GE,SM,D7K11, 'GB10091',1

VI,DA,A01 ,A3 ,A03 ,I2 ,B ,I3 ,E ,I2 ,G ,I2 ,AAE ,F4.1

C

C

C 特性描述项

C

ZA,MM,8

MM,SM,1,	10,1,1,A01	,'螺纹规格'	,	,	,T
MM,SM,1,	20,1,1,A03	,'螺纹大径'	,'d'	,'mm'	,Z
MM,SM,1,	30,1,1,B	,'公称长度'	,'l'	,'mm'	,Z
MM,SM,1,	40,1,1,E	,'对边宽度'	,'S'	,'mm'	,Z
MM,SM,1,	50,1,1,G	,'头部高度'	,'K'	,'mm'	,Z
MM,SM,1,	60,1,0,H	,'性能等级'	,	,	,Z
MM,SM,1,	70,1,0,J	,'表面处理'	,	,	,T
MM,GM,1,	80,1,1,AAE	,'肩径'	,'e'	,'mm'	,Z

C

C

C 特性数据项

C

C AE IDNR FA A01 A03 B E G AAE

C

ZA,DA,1

DA,1,10,1, 'M5', 5, 10, 5, 5, 6

C

C

ED

BD

ID,NN,'GB 821—88'

ID,NT,'方头倒角端紧定螺钉'

ID,NB,'NB="螺钉 GB 821—88—\$ A01.x \$ B."'

ID,AD,'1989.07.01'

ID,VD,941215,1

ID,FA,1,'CN 400008888 000000'

ID,FD,2.1

GE,KT,'KT="D7K11"'

GE,PA,D7K11 ,A03 ,B ,E ,G ,AAE

GE,SM,D7K11,'GB10091',1

VI,DA,A01 ,A3 ,A03 ,I2 ,B ,I3 ,E ,I2 ,G ,I2 ,AAE ,F4.1

C

C

C 特性描述项

C

ZA,MM,8

MM,SM,1,	10,1,1,A01	,'螺纹规格'	,	,	,T
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MM,SM,1,	20,1,1,A03	,'螺纹大径'	,'d'	,'mm'	,Z
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MM,SM,1,	30,1,1,B	,'公称长度'	,'l'	,'mm'	,Z
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MM,SM,1,	40,1,1,E	,'对边宽度'	,'S'	,'mm'	,Z
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MM,SM,1,	50,1,1,G	,'头部高度'	,'K'	,'mm'	,Z
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MM,SM,1, 60,1,0,H , '性能等级' , , ,Z
 MM,SM,1, 70,1,0,J , '表面处理' , , ,T
 MM,GM,1, 80,1,1,AAE , '肩径' , 'e' , 'mm' ,Z

C

C

C 特性数据项

C

C AE IDNR FA A01 A03 B E G AAE

C

ZA,DA,1

DA,1,10,1, 'M5', 5, 8, 5, 5, 6

C

C

ED

BD

ID,NN, 'GB 85—88'

ID,NT, '方头长圆柱端紧定螺钉'

ID,NB, 'NB="螺钉 GB 85—88—\$ A01. x \$ B. "'

ID,AD, '1989. 07. 01'

ID,VD, 941215,1

ID,FA,1, 'CN 400008888 000000'

ID,FD, 2. 1

GE,KT, 'KT="D7K12"'

GE,PA, D7K12 , A03 , B , E , G , AAE, AAH, AAI

GE,SM, D7K12, 'GB10091', 1

VI,DA, A01 , A3 , A03 , I2 , B , I3 , E , I2 , G , I2 , AAE , F4. 1 , AAH , F4. 1 , AAI , F4. 1

C

C

C 特性描述项

C

ZA,MM,10

MM,SM,1, 10,1,1,A01 , '螺纹规格' , , ,T

MM,SM,1, 20,1,1,A03 , '螺纹大径' , 'd' , 'mm' ,Z

MM,SM,1, 30,1,1,B , '公称长度' , 'l' , 'mm' ,Z

MM,SM,1, 40,1,1,E , '对边宽度' , 'S' , 'mm' ,Z

MM,SM,1, 50,1,1,G , '头部高度' , 'K' , 'mm' ,Z

MM,SM,1, 60,1,0,H , '性能等级' , , ,Z

MM,SM,1, 70,1,0,J , '表面处理' , , ,T

MM,GM,1, 80,1,1,AAE , '肩径' , 'e' , 'mm' ,Z

MM,GM,1, 90,1,1,AAH , '尾部长' , 'z' , 'mm' ,Z

MM,GM,1, 100,1,1,AAI , '尾部直径' , 'dp' , 'mm' ,Z

C
 C
 C 特性数据项
 C
 C AE IDNR FA A01 A03 B E G AAE AAH AAI
 C
 ZA,DA,1
 DA,1,10,1, 'M5', 5, 12, 5, 5, 6, 2.5, 3.5
 C
 C
 ED

BD
 ID,NN,'GB 86—88'
 ID,NT,'方头短圆柱锥端紧定螺钉'
 ID,NB,'NB="螺钉 GB 86—88—\$ A01.x \$ B."'
 ID,AD,'1989.07.01'
 ID,VD,941215,1
 ID,FA,1,'CN 400008888 000000'
 ID,FD,2.1
 GE,KT,'KT="D7K13" '
 GE,PA,D7K13 ,A03 ,B ,E ,G ,AAE,AAH,AAI
 GE,SM,D7K13,'GB10091',1
 VI,DA,A01 ,A3 ,A03 ,I2 ,B ,I3 ,E ,I2 ,G ,I2 ,AAE ,F4.1 ,AAH ,F4.1 ,AAI ,F4.1

C
 C
 C 特性描述项
 C
 ZA,MM,10
 MM,SM,1, 10,1,1,A01 , '螺纹规格' , , ,T
 MM,SM,1, 20,1,1,A03 , '螺纹大径' , 'd' , 'mm' ,Z
 MM,SM,1, 30,1,1,B , '公称长度' , 'l' , 'mm' ,Z
 MM,SM,1, 40,1,1,E , '对边宽度' , 'S' , 'mm' ,Z
 MM,SM,1, 50,1,1,G , '头部高度' , 'K' , 'mm' ,Z
 MM,SM,1, 60,1,0,H , '性能等级' , , ,Z
 MM,SM,1, 70,1,0,J , '表面处理' , , ,T
 MM,GM,1, 80,1,1,AAE , '肩径' , 'e' , 'mm' ,Z
 MM,GM,1, 90,1,1,AAH , '尾部长' , 'z' , 'mm' ,Z
 MM,GM,1, 100,1,1,AAI , '尾部直径' , 'dp' , 'mm' ,Z
 C
 C
 C 特性数据项

C

C AE IDNR FA A01 A03 B E G AAE AAH AAI

C

ZA,DA,1

DA,1,10,1, 'M5', 5, 12, 5, 5, 6, 3.5, 3.5

C

C

ED

BD

ID,NN,'GB 828—88'

ID,NT,'开槽盘头定位螺钉'

ID,NB,'NB="螺钉 GB 828—88— \$ A01. x \$ B. "'

ID,AD,'1989.07.01'

ID,VD,941215,1

ID,FA,1,'CN 400008888 000000'

ID,FD,2.1

GE,KT,'KT="D7K14"'

GE,PA,D7K14 ,A03 ,B ,F ,G ,AAA,AAB,AAG,AAH,AAI

GE,SM,D7K14,'GB10091',1

VI,DA,A01 ,A5 ,A03 ,F5.1 ,B ,F5.1 ,F ,F4.1 ,G ,F3.1 ,

* AAA ,F3.1 ,AAB ,F4.2 ,AAG ,F4.2 ,AAH ,F4.1 ,AAI ,F3.1

C

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C 特性描述项

C

ZA,MM,12

MM,SM,1, 10,1,1,A01 , '螺纹规格' , , ,T

MM,SM,1, 20,1,1,A03 , '螺纹大径' , 'd' , 'mm' ,Z

MM,SM,1, 30,1,1,B , '公称长度' , 'l' , 'mm' ,Z

MM,SM,1, 40,1,1,F , '头部直径' , 'dk' , 'mm' ,Z

MM,SM,1, 50,1,1,G , '头部高度' , 'K' , 'mm' ,Z

MM,SM,1, 60,1,0,H , '性能等级' , , ,Z

MM,SM,1, 70,1,0,J , '表面处理' , , ,T

MM,GM,1, 80,1,1,AAA , '槽宽' , 'n' , 'mm' ,Z

MM,GM,1, 90,1,1,AAB , '槽深' , 't' , 'mm' ,Z

MM,GM,1, 100,1,1,AAG , '尾端球面半径' , 're' , 'mm' ,Z

MM,GM,1, 110,1,1,AAH , '尾部长' , 'z' , 'mm' ,Z

MM,GM,1, 120,1,1,AAI , '尾部直径' , 'dp' , 'mm' ,Z

C

C

C 特性数据项

C

C AE IDNR FA A01 A03 B F G AAA AAB AAG AAH AAI

C

ZA,DA,1

DA,1,10,1, 'M1.6', 1.6, 1.5, 3.2, 1.0, 0.4, 0.35, 1.12, 1, 0.8

C

C

ED

BD

ID,NN,'GB 833—88'

ID,NT,'开槽大圆柱头螺钉'

ID,NB,'NB="螺钉 GB 833—88—\$ A01.x \$B."'

ID,AD,'1989.07.01'

ID,VD,941215,1

ID,FA,1,'CN 400008888 000000'

ID,FD,2.1

GE,KT,'KT="D7K15"'

GE,PA,D7K15 ,A03 ,B ,F ,G ,AAA,AAB,AAG

GE,SM,D7K15,'GB10091',1

VI,DA,A01 ,A4 ,A03 ,F4.1 ,B ,F5.1 ,F ,I2 ,G

* F3.1 ,AAA ,F3.1 ,AAB ,F3.1 ,AAG ,F5.2

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C 特性描述项

C

ZA,MM,10

MM,SM,1, 10,1,1,A01 , '螺纹规格' , , ,T

MM,SM,1, 20,1,1,A03 , '螺纹大径' , 'd' , 'mm' ,Z

MM,SM,1, 30,1,1,B , '公称长度' , 'l' , 'mm' ,Z

MM,SM,1, 40,1,1,F , '头部直径' , 'dk' , 'mm' ,Z

MM,SM,1, 50,1,1,G , '头部高度' , 'K' , 'mm' ,Z

MM,SM,1, 60,1,0,H , '性能等级' , , ,Z

MM,SM,1, 70,1,0,J , '表面处理' , , ,T

MM,GM,1, 80,1,1,AAA , '槽宽' , 'n' , 'mm' ,Z

MM,GM,1, 90,1,1,AAB , '槽深' , 't' , 'mm' ,Z

MM,GM,1, 100,1,1,AAG , '尾端球面半径' , 're' , 'mm' ,Z

C

C

C 特性数据项

C

C AE IDNR FA A01 A03 B F G AAA AAB AAG

C

ZA,DA,1

DA,1,10,1, 'M1.6', 1.6, 2.5, 6, ,1.2, 0.4, 0.6, 2.24

C

C

ED

BD

ID,NN,'GB 837—88'

ID,NT,'开槽盘头不脱出螺钉'

ID,NB,'NB="螺钉 GB 837—88— \$ A01. x \$ B."'

ID,AD,'1989.07.01'

ID,VD,941215,1

ID,FA,1,'CN 400008888 000000'

ID,FD,2.1

GE,KT,'KT="D7K16"'

GE,PA,D7K16 ,A03 ,B ,C ,F ,G ,AAA,AAB,AAJ

GE,SM,D7K16,'GB10091',1

VI,DA,A01 ,A3 ,A03 ,I2 ,B ,I2 ,C ,I2 ,F

* F4.1 ,G ,F3.1 ,AAA,F3.1 ,AAB ,F3.1 ,AAJ ,F3.1

C

C

C 特性描述项

C

ZA,MM,11

MM,SM,1, 10,1,1,A01 , '螺纹规格' , , ,T

MM,SM,1, 20,1,1,A03 , '螺纹大径' , 'd' , 'mm' ,Z

MM,SM,1, 30,1,1,B , '公称长度' , 'l' , 'mm' ,Z

MM,SM,1, 40,1,1,C , '螺纹长度' , 'b' , 'mm' ,Z

MM,SM,1, 50,1,1,F , '头部直径' , 'dk' , 'mm' ,Z

MM,SM,1, 60,1,1,G , '头部高度' , 'K' , 'mm' ,Z

MM,SM,1, 70,1,0,H , '性能等级' , , ,Z

MM,SM,1, 80,1,0,J , '表面处理' , , ,T

MM,GM,1, 90,1,1,AAA , '槽宽' , 'n' , 'mm' ,Z

MM,GM,1, 100,1,1,AAB , '槽深' , 't' , 'mm' ,Z

MM,GM,1, 110,1,1,AAJ , '细杆直径' , 'd1' , 'mm' ,Z

C

C

C 特性数据项

C

C AE IDNR FA A01 A03 B C F G AAA AAB AAJ

C

ZA,DA,1

DA,1,10,1, 'M3', 3, 10, 4, 5.6, 1.8, 0.8, 0.7, 2.0

C

C

ED

BD

ID,NN,'GB 838—88'

ID,NT,'六角头不脱出螺钉'

ID,NB,'NB="螺钉 GB 838—88—\$ A01. x \$ B."'

ID,AD,'1989.07.01'

ID,VD,941215,1

ID,FA,1,'CN 400008888 000000'

ID,FD,2.1

GE,KT,'KT="D7K17"'

GE,PA,D7K17 ,A03 ,B ,C ,E ,G ,AAJ

GE,SM,D7K17,'GB10091',1

VI,DA,A01 ,A5 ,A03 ,I2 ,B ,I3 ,C ,I2 ,E ,I2 ,G ,F4.1 ,AAJ ,F4.1

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C

C 特性描述项

C

ZA,MM,9

MM,SM,1, 10,1,1,A01 , '螺纹规格' , , ,T

MM,SM,1, 20,1,1,A03 , '螺纹大径' , 'd' , 'mm' ,Z

MM,SM,1, 30,1,1,B , '公称长度' , 'l' , 'mm' ,Z

MM,SM,1, 40,1,1,C , '螺纹长度' , 'b' , 'mm' ,Z

MM,SM,1, 50,1,1,E , '对边宽度' , 'S' , 'mm' ,Z

MM,SM,1, 60,1,1,G , '头部高度' , 'K' , 'mm' ,Z

MM,SM,1, 70,1,0,H , '性能等级' , , ,Z

MM,SM,1, 80,1,0,J , '表面处理' , , ,T

MM,GM,1, 90,1,1,AAJ , '细杆直径' , 'd1' , 'mm' ,Z

C

C

C 特性数据项

C

C AE IDNR FA A01 A03 B C E G AAJ

C

ZA,DA,1

DA,1,10,1, 'M5', 5, 14, 8, 8, 3.5, 3.5

C

C

ED

BD

ID,NN,'GB 947—88'

ID,NT,'开槽球面大圆柱头螺钉'

ID,NB,'NB="螺钉 GB 947—88—\$ A01. x \$ B. "'

ID,AD,'1989.07.01'

ID,VD,941215,1

ID,FA,1,'CN 400008888 000000'

ID,FD,2.1

GE,KT,'KT="D7K18"'

GE,PA,D7K18 ,A03 ,B ,C ,F ,G ,AAA,AAB,AAD,AAG

GE,SM,D7K18,'GB10091',1

VI,DA,A01 ,A4 ,A03 ,F4.1 ,B ,F4.1 ,C ,F4.1 ,F ,I2 ,

* G ,F3.1,AAA ,F3.1 ,AAB ,F3.1 ,AAD ,I2 ,AAG ,F5.2

C

C

C 特性描述项

C

ZA,MM,12

MM,SM,1, 10,1,1,A01 , '螺纹规格' , , ,T

MM,SM,1, 20,1,1,A03 , '螺纹大径' , 'd' , 'mm' ,Z

MM,SM,1, 30,1,1,B , '公称长度' , 'l' , 'mm' ,Z

MM,SM,1, 40,1,1,C , '螺纹长度' , , 'mm' ,Z

MM,SM,1, 50,1,1,F , '头部直径' , 'dk' , 'mm' ,Z

MM,SM,1, 60,1,1,G , '头部高度' , 'K' , 'mm' ,Z

MM,SM,1, 70,1,0,H , '性能等级' , , ,Z

MM,SM,1, 80,1,0,J , '表面处理' , , ,T

MM,GM,1, 90,1,1,AAA , '槽宽' , 'n' , 'mm' ,Z

MM,GM,1, 100,1,1,AAB , '槽深' , 't' , 'mm' ,Z

MM,GM,1, 110,1,1,AAD , '头球面半径' , 'R' , 'mm' ,Z

MM,GM,1, 120,1,1,AAG , '尾端球面半径' , 're' , 'mm' ,Z

C

C

C 特性数据项

C

C AE IDNR FA A01 A03 B C F G AAA AAB AAD AAG

C

ZA,DA,1

DA,1,10,1, 'M1.6', 1.6, 2, 1.3, 6, 1.2, 0.4, 0.6, 10, 2.24

C

C

ED

BD

ID,NN,'GB 948—88'

ID,NT,'开槽沉头不脱出螺钉'

ID,NB,'NB="螺钉 GB 948—88— \$ A01. x \$ B."'

ID,AD,'1989. 07. 01'

ID,VD,941215,1

ID,FA,1,'CN 400008888 000000'

ID,FD,2.1

GE,KT,'KT="D7K19"'

GE,PA,D7K19 ,A03 ,B ,C ,F ,G ,AAA,AAB,AAJ

GE,SM,D7K19,'GB10091',1

VI,DA,A01 ,A3 ,A03 ,I2 ,B ,I2 ,C ,I2 ,F ,F4.1 ,

* G ,F4.2 ,AAA ,F3.1 ,AAB ,F3.1 ,AAJ ,F3.1

C

C

C 特性描述项

C

ZA,MM,11

MM,SM,1, 10,1,1,A01 , '螺纹规格' , , ,T

MM,SM,1, 20,1,1,A03 , '螺纹大径' , 'd' , 'mm' ,Z

MM,SM,1, 30,1,1,B , '公称长度' , 'l' , 'mm' ,Z

MM,SM,1, 40,1,1,C , '螺纹长度' , 'b' , 'mm' ,Z

MM,SM,1, 50,1,1,F , '头部直径' , 'dk' , 'mm' ,Z

MM,SM,1, 60,1,1,G , '头部高度' , 'K' , 'mm' ,Z

MM,SM,1, 70,1,0,H , '性能等级' , , ,Z

MM,SM,1, 80,1,0,J , '表面处理' , , ,T

MM,GM,1, 90,1,1,AAA , '槽宽' , 'n' , 'mm' ,Z

MM,GM,1, 100,1,1,AAB , '槽深' , 't' , 'mm' ,Z

MM,GM,1, 110,1,1,AAJ , '细杆直径' , 'd1' , 'mm' ,Z

C

C

C 特性数据项

C

C AE IDNR FA A01 A03 B C F G AAA AAB AAJ

C

ZA,DA,1

DA,1,10,1, 'M3', 3, 10, 4, 5.5, 1.65, 0.8, 0.6, 2.0

C

C

ED

BD

ID,NN,'GB 949—88'

ID,NT,'开槽半沉头不脱出螺钉'

ID,NB,'NB="螺钉 GB 949—88—\$ A01. x \$ B. "'

ID,AD,'1989. 07. 01'

ID,VD,941215,1

ID,FA,1,'CN 400008888 000000'

ID,FD,2.1

GE,KT,'KT="D7K20"'

GE,PA,D7K20 ,A03 ,B ,C ,F ,G ,AA, AAB, AAC, AAD, AAJ

GE,SM,D7K20,'GB10091',1

VI,DA,A01 ,A3 ,A03 ,I2 ,B ,I2 ,C ,I2 ,F ,F4.1 ,

* G ,F4.2,AAA ,F3.1 ,AAB ,F3.1 ,AAC ,F3.1 ,AAD ,F4.1 ,AAJ ,F3.1

C

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C 特性描述项

C

ZA,MM,13

MM,SM,1,	10,1,1,A01	'螺纹规格'	,	,	,T
MM,SM,1,	20,1,1,A03	'螺纹大径'	'd'	'mm'	,Z
MM,SM,1,	30,1,1,B	'公称长度'	'l'	'mm'	,Z
MM,SM,1,	40,1,1,C	'螺纹长度'	'b'	'mm'	,Z
MM,SM,1,	50,1,1,F	'头部直径'	'dk'	'mm'	,Z
MM,SM,1,	60,1,1,G	'头部高度'	'K'	'mm'	,Z
MM,SM,1,	70,1,0,H	'性能等级'	,	,	,Z
MM,SM,1,	80,1,0,J	'表面处理'	,	,	,T
MM,GM,1,	90,1,1,AAA	'槽宽'	'n'	'mm'	,Z
MM,GM,1,	100,1,1,AAB	'槽深'	't'	'mm'	,Z
MM,GM,1,	110,1,1,AAC	'头球面高'	'f'	'mm'	,Z
MM,GM,1,	120,1,1,AAD	'头球面半径'	'rf'	'mm'	,Z
MM,GM,1,	130,1,1,AAJ	'细杆直径'	'd1'	'mm'	,Z

C

C

C 特性数据项

C

C AE IDNR FA A01 A03 B C F G AAA AAB AAC AAD AAJ

C

ZA,DA,1

DA,1,10,1, 'M3', 3, 10, 4, 5.5, 1.65, 0.8, 1.2, 0.7, 6.0, 2.0

C

C

ED