

Pivot Pins

Set Screw Flat, Shouldered with Set Screw Flat

Set Screw Flat Type

Type	Material	Hardness	Surface Treatment
CLSG	S45C Equivalent	-	Black Oxide
CLSGH		40~45HRC	
PCLSG		-	Electroless Nickel Plating
PCLSGH	SUS304	40~45HRC	
SCLSG		-	
SCLSGH	SUS440C Equivalent	45~50HRC	

There are identification grooves on the side of CLSG and PCLSG to be distinguished from Hardened Type.
 For L Dimension, Standard Machining Tolerances (Class: Medium) is used.
 This type may have centering holes depending on dimensions.

D Tolerance (g6)

D	Tolerance (g6)
3	-0.002 -0.008
4~6	-0.004 -0.012
8, 10	-0.005 -0.014
12~18	-0.006 -0.017
20~25	-0.007 -0.020

RoHS10

Part Number Type	D	L=0.1mm Increment	1mm Increment		N	Unit Price					
			F	E		CLSG	CLSGH	PCLSG	PCLSGH	SCLSG	SCLSGH
CLSG CLSGH PCLSG PCLSGH SCLSG SCLSGH	3	5.0~50.0	F=0 or 2sFs/L/2	1sEs50	0.5						
	4	10.0~60.0									
	5	10.0~100.0									
	8	15.0~100.0									
	12	15.0~200.0									
	13	25.0~200.0	1sEs50	2							
	14										
	15										
	16										
	17										
	18	30.0~200.0	2sFs/L/2	2							
	20										
	22										
	25										

Example:

SCLSGH may be discolored by hardening.

Shouldered with Set Screw Flat

Type	D Tolerance	Material	Hardness	Surface Treatment
HCLSG	g6	S45C Equivalent	-	Black Oxide
HCLSGH			40~45HRC	
PHCLSG			-	Electroless Nickel
PHCLSGH	SUS304	SUS304	40~45HRC	Plating
SHCLSG			-	
SHCLSGH	SUS440C Equivalent	SUS440C Equivalent	45~50HRC	

For L Dimension, Standard Machining Tolerances (Class: Medium) is used.
 This type may have centering holes depending on dimensions.
 There are identification grooves on the side of HCLSG and PHCLSG to be distinguished from Hardened Type.
 Relief dimension under the shoulder is for reference.

D Tolerance (g6)

D	Tolerance (g6)
3	-0.002 -0.008
4~6	-0.004 -0.012
8, 10	-0.005 -0.014
12~18	-0.006 -0.017
20~25	-0.007 -0.020

RoHS10

Part Number Type	D	L=0.1mm Increment	0.1mm Increment		A	u	T	(n)	(N)	Unit Price					
			E	F						HCLSG	HCLSGH	PHCLSG	PHCLSGH	SHCLSG	SHCLSGH
HCLSG HCLSGH PHCLSG PHCLSGH SHCLSG SHCLSGH	3	5.0~50.0	1sEs50	F=0 or 2sFs/L/2	5.5	2.9	1.5	1.0	0.5						
	4	10.0~60.0			6.5	3.9									
	5	10.0~100.0			8	4.9									
	8	15.0~100.0			9	5.8									
	12	15.0~200.0			12	7.8									
	13	20.0~200.0	1sEs50	2	14	9.8	1.5	1							
	14				17	11.8									
	15				18	12.8									
	16				19	13.8									
	17				20	14.8									
	18	20.0~200.0	2sFs/L/2	2	21	15.8	4	2							
	20				22	16.8									
	22				23	17.8									
	25				26	19.8									
					27	21.8									
					28	23.8									
					30	24.8									

SHCLSGH may be discolored by hardening.

Ordering Example: **CLSGH15 - 100.0 - F20 - E10**

For Set Screw Flat Type and Shouldered with Set Screw Flat Type, specifying order of E and F is reversed.

Alterations	Tapping	Shoulder Thickness	L Dimension Tolerance
Code	MMC	TC	LKC
Spec.	Ordering Code: MMC D M (Coarse) l 6 M3 6 8~14 M4 8 15~22 M6 12 25 M8 16 Not applicable to Shouldered with Set Screw Type. Not applicable to D3~5. (D-M)/2 When (D-M)/2-N≤1, F>Mx2. L>Mx3	Ordering Code: TC3 TC=0.5mm increment T<TC≤5 L1=L+N+d/2+TC Not applicable to Set Screw Flat Type.	Ordering Code: LKC Changes L dimension tolerance to ±0.05. Not applicable to Set Screw Flat Type.

Alterations: **CLSGH15 - 100.0 - F20 - E10 - MMC**

Pivot Pins

D-Cut

Features: Two flats will effectively stop pins from rotating.

Type	Material	Hardness	Surface Treatment
CLSW	S45C Equivalent	-	Black Oxide
CLSWH		40~45HRC	
SCLSW	SUS304	-	

There are identification grooves on the side of CLSW to be distinguished from Hardened Type.
 For L Dimension, Standard Machining Tolerances (Class: Medium) is used.
 This type may have centering holes depending on dimensions.

D Tolerance (g6)

D	Tolerance (g6)
4~6	-0.004 -0.012
8, 10	-0.005 -0.014
12~16	-0.006 -0.017
20, 25	-0.007 -0.020

RoHS10

Part Number Type	D	L=0.1mm Increment	1mm Increment		N	Unit Price		
			F	T		CLSW	CLSWH	SCLSW
CLSW CLSWH SCLSW	4	10.0~50.0	2sF≤20	2sT≤20	0.5			
	5	10.0~60.0						
	6	10.0~100.0						
	8	10.0~100.0	2sF≤30	2sT≤30	1			
	10	15.0~100.0						
	12	15.0~200.0						
	13	25.0~200.0	5sF≤30	5sT≤30	2			
	14							
	15							
	16	30.0~200.0						
	20							
	25							

F+T≤L

Ordering Example: **CLSWH15 - 120.5 - F30 - T30**

