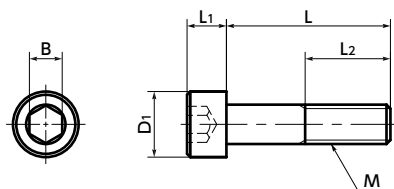


# SNSX Hex Socket Head Cap Screws - High Intensity S.S.

SUS Stainless steel Heat-resistance Chemical-proof Non-Magnetic High strength



## ● Application

FPD production equipment, semiconductor devices, sputtering equipment, aquatic applications, and general industrial machines

## ● Material/Finish



	SNSX-88	SNSX-109
Main Body	SUS316L HiMo	SUS316L HiMo
Strength Class	8.8	10.9

- High intensity socket head cap screws are made of stainless steel. (Strength Class 8.8 or 10.9)
- For applications that require both high strength and corrosion resistance.
- High strength per a screw is useful for space and weight saving by decreasing thread diameter and number.
- Screws with excellent heat resistance and corrosion resistance.
- Nonmagnetic.
- Conforms to JIS B 1176, ISO 4762, and DIN 912.

**SNSX-88** Unit : mm

Part Number	M (Coarse)		L								Strength Class	D1	L1	B	L2*1	Mass (g)		
	Nominal of Thread	Pitch	6	8	10	12	16	20	25	30								
SNSX-M3-88	M3	0.5	6	8	10	12	16	20	25		8.8	5.5	3	2.5	18(L=25)	0.71 - 1.6		
SNSX-M4-88	M4	0.7	6	8	10	12	16	20	25		8.8	7	4	3	Full Thread	1.5 - 3.2		
SNSX-M5-88	M5	0.8			10	12	16	20	25	30	8.8	8.5	5	4	22(L=30)	2.7 - 5.6		
SNSX-M6-88	M6	1				12	16	20	25	30	8.8	10	6	5	Full Thread	5.1 - 8.3		
SNSX-M8-88	M8	1.25					16	20	25	30	35	40	8.8	13	8	6	28(L=40)	12 - 21

\*1: If the "L" value is other than the value in parentheses, the screw is full thread.

**SNSX-109** Unit : mm

Part Number	M (Coarse)		L								Strength Class	D1	L1	B	L2*1	Mass (g)
	Nominal of Thread	Pitch	16	20	25	30	40	50	10.9							
SNSX-M6-109	M6	1	16	20	25	30	40	50	10.9	10	6	5	24(L≥40)	5.8 - 13		
SNSX-M8-109	M8	1.25	16	20	25	30	40	50	10.9	13	8	6	28(L≥40)	12 - 25		
SNSX-M10-109	M10	1.5			20		30	40	50	10.9	16	10	8	32(L=50)	23 - 39	
SNSX-M12-109	M12	1.75					30	40	50	10.9	18	12	10	Full Thread	39 - 55	

\*1: If the "L" value is other than the value in parentheses, the screw is full thread.

## ● Mechanical property

Part Number · Strength Class \ Property	Tensile Strength (N / mm <sup>2</sup> )	0.2% Proof Stress (N / mm <sup>2</sup> )	Elongation after Break Minimum (mm)
A2-50 · A4-50	500	210	0.6d
A2-70 · A4-70	700	450	0.4d
SNSX-88 8.8	800	640	0.3d
SNSX-109 10.9	1,000	900	0.2d

● Values in chart are for reference only. They are not guaranteed values.

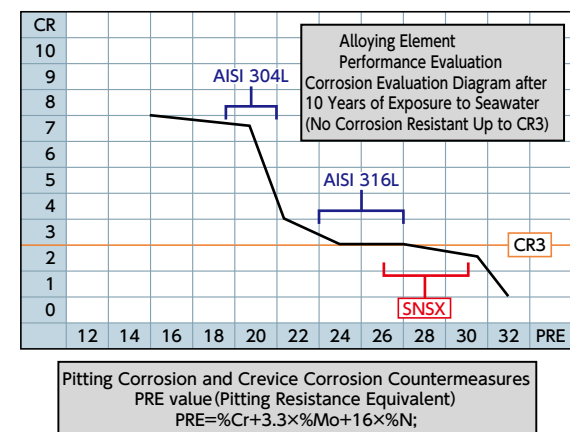
## ● Durability by temperature (N/mm<sup>2</sup>)

Part Number · Material	20°C	100°C	200°C	300°C	400°C	500°C	600°C
SNSX-88 SUS316L HiMo	640	576	576	544	512	480	448
SNSX-109 SUS316L HiMo	900	855	855	855	810	810	765
SUSXM7	450	382	360	337	315	-	-
SCM435	1,100	1,020	925	825	-	-	-

● Values in chart are for reference only. They are not guaranteed values.

● Result of corrosion test by metal materials  
SUS316L HiMo steel used in SNSX is a special steel alloy with reduced carbon and increased Cr, Ni, and Mo. Reducing carbon shows an increased resistance to grain boundary corrosion cracking, and adding Cr and Mo increases resistance to pitting corrosion and crevice corrosion. In addition, adding Ni effectively reduces the risk of stress corrosion cracking.

The chart below shows the degree of corrosion after 10 years of exposure to conditions similar to seawater environment, and there was no corrosion for CR3 or lower.



## ● Sulfuric acid corrosion test (H<sub>2</sub>SO<sub>4</sub>, 50°C and mm / year)

Part Number · Material \ Density	3%	10%	20%
SUS304	1.08	3	-
SUS316, SUS316L	0	0.3	1.3
SNSX-88 SNSX-109	0	0	0.44

● Values in chart are for reference only. They are not guaranteed values.

## ● Magnetic permeability comparison

Part Number / Material	Magnetic Permeability
SNSX-88 SUS316L HiMo	1.006
SNSX-109 SUS316L HiMo	1.007
SUSL SUS316L	1.006
SUSXM7	1.4

● Values in chart are for reference only. They are not guaranteed values.

## ● Part number specification

**SNSX - M3 - 25 - 88**  
Product Code 1 2 3

Individual Sales → P.0000 Cleanroom Wash & Packaging → P.0000 Screw Length Adjustment → P.0000 Vibration Resistant → P.0000 Modification process for captive use → P.0000  
1 piece in 1 pack Please feel free to contact us Available / Add'l charge Available / Add'l charge Available / Add'l charge