

XSTS-C/XWSS-C Cleanroom / Vacuum / Heat Resistant Couplings - Slit Type (SUS316L)

[WEB Selection Tool](#)
[WEB CAD Download](#)
[Zero Backlash](#)
[Cleanroom](#)
[Chemical-proof](#)
[SUS Stainless steel](#)

Structure

Clamping Type

XSTS-C → P.xxxx

Outside diameter $\phi 25, \phi 32$



XSTS-C

Outside diameter $\phi 40 - \phi 63$

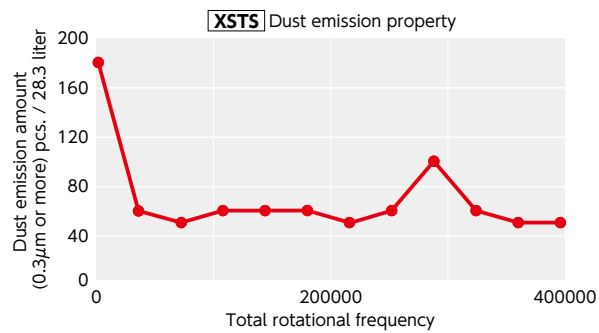
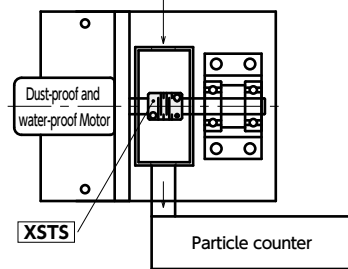


XWSS-C → P.xxxx



Dust emission property

Cleanroom (Class 500 or less) / Clean bench (Class 10 or less)



Property

	XSTS-C	XWSS-C
Low Particle	⊙	⊙
Vacuum-supported	○	○
Low Outgas	○	○
Heat-resistance	○	○
Chemical Resistance	⊙	⊙
Zero Backlash	⊙	⊙
High Torque	○	○
Allowable Misalignment	○	-
Corrosion Resistance (All S.S.)	⊙	⊙

⊙: Excellent ○: Very good

- This is an all stainless steel spring coupling with single-piece construction. A slit is inserted into a cylindrical material.
- Made of SUS316L superior in corrosion resistance.
- Cleanroom wash/cleanroom packing provided. It is intended for applications that require chemical resistance, such as FPD production equipment and semiconductor devices.
- High flexibility type **XSTS-C** and short type **XWSS-C** are standardized.
- XSTS-C** has a plate spring formed by a slit allows eccentricity, angular misalignment, and end-play to be accepted.

Application

FPD manufacturing device / Semiconductor manufacturing device / Offshore instrument

Material/Finish

	XSTS-C / XWSS-C
Main Body	SUS316L Shot Blasting
Hex Socket Head Cap Screw	SUS316L HiMo

Related Products

There is a slit-type flexible coupling **MSX** made of extra super duralumin (A7075). → P.xxxx



Part number specification

XSTS-32C-12-12
 Product Code Size Bore Diameter

Please refer to dimensional table for part number specification. For large order quantity, please contact our customer service.

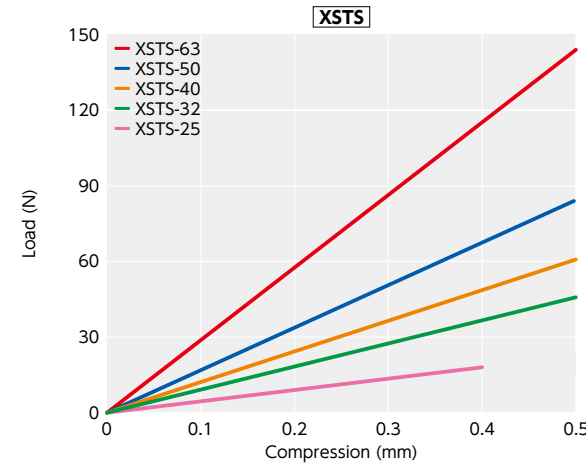
Technical Information

Features and Chemical Components of SUS316L

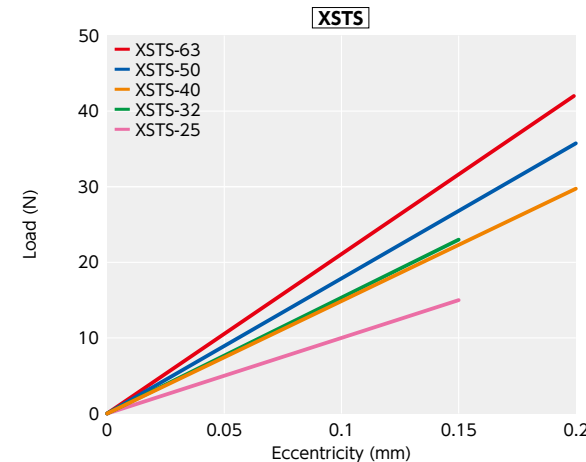
Characteristics

Material Code	Characteristics
SUS304	This features smaller amount of carbon and is superior in corrosion resistance and weldability. This is the most standard product among austenitic stainless steel.
SUS316	This has good corrosion resistance and acid resistance as well as high-temperature strength due to addition of Mo and is used as heat resistant steel.
SUS316L	Carbon content is lower than that of SUS316 and the grain boundary corrosivity and weldability are improved.

Thrust Reaction Force

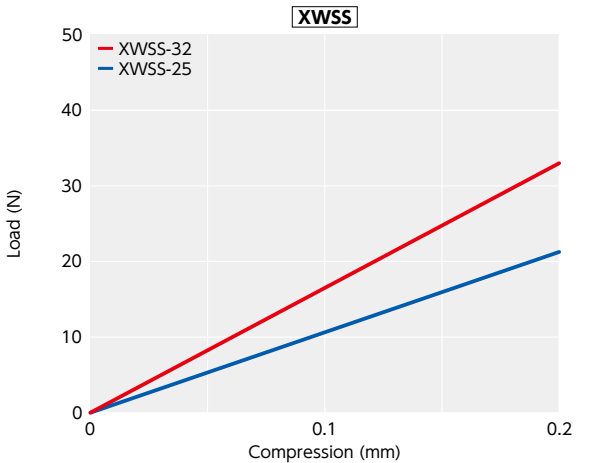


Eccentric Reaction Force



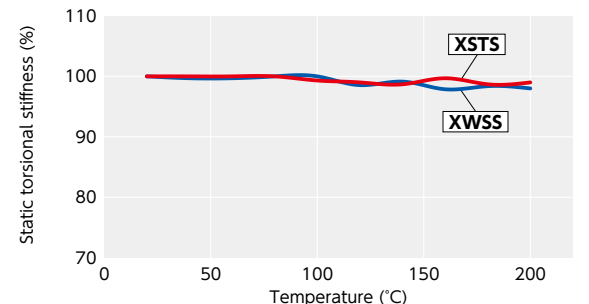
Chemical Components

Material Code	Chemical Components (%)					
	C	Si / Mn / P / S	Ni	Cr	Mo	
SUS304	0.08 or Less		8.00-10.50	18.00-20.00	-	
SUS316	0.08 or Less	Equivalent	10.00-14.00	16.00-18.00	2.00-3.00	
SUS316L	0.03 or Less		12.00-15.00	16.00-18.00	2.00-3.00	



Change in static torsional stiffness due to temperature

This is a value under the condition where the static torsional stiffness at 20°C is 100%. The change of **XSTS** and **XWSS** in torsional stiffness due to temperature is small and the change in responsiveness is extremely small. If the unit is used under higher temperature, be careful about misalignment due to elongation or deflection of the shaft associated with thermal expansion.



[Additional Keyway at Shaft Hole → P.xxxx](#)
[Cleanroom Wash & Packaging → P.xxxx](#)
[Change to Stainless Steel Screw → P.xxxx](#)

Please feel free to contact us Cleanroom washed and packed Changed to the S.S. screw