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

Zero Backlash | Cleanroom | Chemical-proof | SUS Stainless steel

Structure

● Clamping Type

XSTS-C ➡ P.xxxx

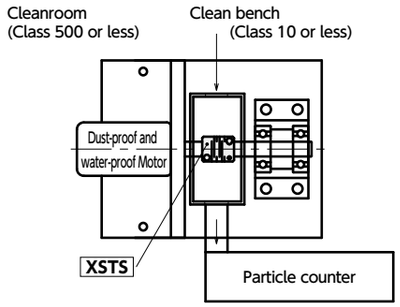
Outside diameter ϕ25, ϕ32

XSTS-C

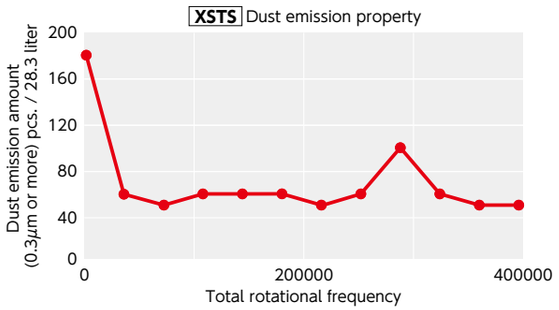
Outside diameter ϕ40 - ϕ63

XWSS-C ➡ P.xxxx

● Dust emission property



XSTS Dust emission property



● 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

RoHS

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

● Part number specification

XSTS - 32C - 12 - 12

Product Code | Size | Bore Diameter

Please refer to dimensional table for part number specification.

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

● Technical Information

● Features and Chemical Components of SUS316L

● Characteristics

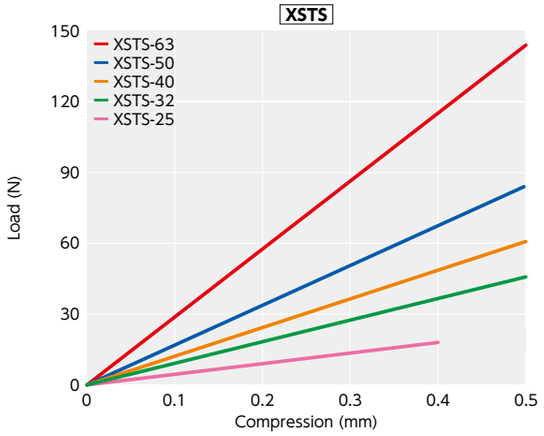
Material Code	Characteristics
SUS304	This features smaller amount of carbon and is superior in corrosion resistance and weldability. This is the most standard product among austenitic stainless steel.
SUS316	This has good corrosion resistance and acid resistance as well as high-temperature strength due 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.

● Chemical Components

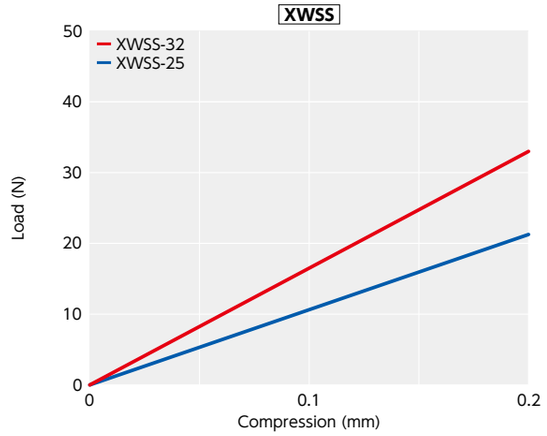
Material Code	Chemical Components (%)				
	C	Si ? Mn ? P ? S	Ni	Cr	Mo
SUS304	0.08 or Less	Equivalent	8.00-10.50	18.00-20.00	–
SUS316	0.08 or Less		10.00-14.00	16.00-18.00	2.00-3.00
SUS316L	0.03 or Less		12.00-15.00	16.00-18.00	2.00-3.00

● Thrust Reaction Force

XSTS

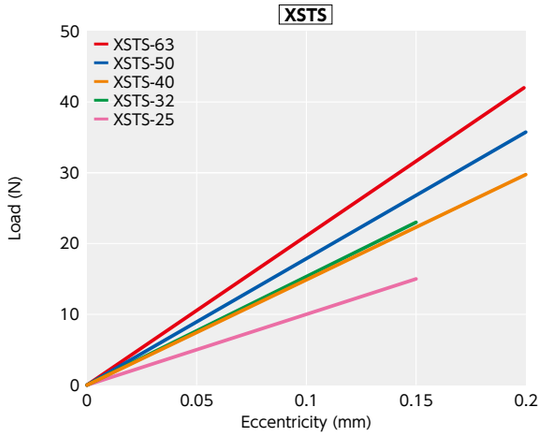


XWSS



● Eccentric Reaction Force

XSTS



● Change in static torsional stiffness due to temperature

This is a value under the condition where the static torsional stiffness at 20℃ 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.