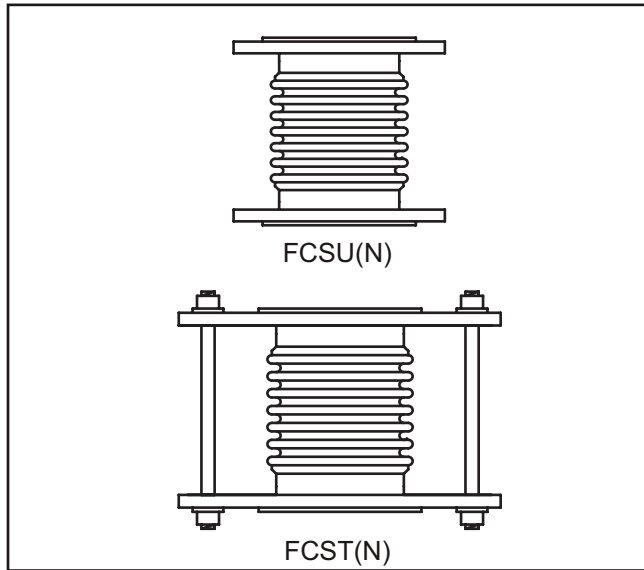


ST. STEEL FLEXIBLE CONNECTORS

Model FCSU(N) + FCST(N)



APPLICATIONS

Stainless steel flexible connectors are designed to reduce noise and vibration transmission from plant items.

These models have either mixed carbon steel / stainless steel internal parts OR stainless steel to ALL wetted parts, and can be used accordingly on steel and copper pipes for the following applications:-

Low Temperature Heating (LTHW)
 Medium Temp. Heating (MTHW)
 High Temp. Heating (HTHW)
 Steam and Condensate
 Fire Protection

Where required, these models are in accordance with WRAS, for the following applications:-

Potable Water Service (Drinking)
 Cold Water Service (CWS)
 Hot Water Service (HWS)



Nominal Size DN (mm)	Installation Length (mm)	Axial Compression (mm)	Axial Elongation (mm)	Lateral Shear (mm)	Product Code (MODEL-SIZE-OAL-ENDS)
50	130	only vibration with small amplitude	only vibration with small amplitude	only vibration with small amplitude	FCS(U)(T)(N)-050-130-PN16
65	130				FCS(U)(T)(N)-065-130-PN16
80	130				FCS(U)(T)(N)-080-130-PN16
100	130				FCS(U)(T)(N)-100-130-PN16
125	130				FCS(U)(T)(N)-125-130-PN16
150	130				FCS(U)(T)(N)-150-130-PN16
50	155 +/-5	5	2	5	FCS(U)(T)(N)-050-155-PN16
65	155 +/-5	5	2	5	FCS(U)(T)(N)-065-155-PN16
80	155 +/-5	5	2	5	FCS(U)(T)(N)-080-155-PN16
100	155 +/-5	5	2	5	FCS(U)(T)(N)-100-155-PN16
125	155 +/-5	5	2	5	FCS(U)(T)(N)-125-155-PN16
150	155 +/-5	5	2	5	FCS(U)(T)(N)-150-155-PN16
200	220 +/-5	5	2	5	FCS(U)(T)(N)-200-220-PN16
250	220 +/-5	5	2	5	FCS(U)(T)(N)-250-220-PN16
300	220 +/-5	5	2	5	FCS(U)(T)(N)-300-220-PN16

The data above is typical for SEP applications.
 For more demanding applications, the length, movement, deflection force and spring rate will be dependant upon the design for the pressure and temperature of the fluid conveyed.

SPECIFICATION

FCSU - Untied flanged model with stainless steel bellows and carbon steel round fixed flanges.

FCSUN - as above, but flanges are complete with stainless steel van-stone facing (lapped pipe end).

FCST - Tied flanged model with stainless steel bellows and carbon steel 'profiled' fixed flanges, complete with tie bars.

FCSTN - as above, but flanges are complete with stainless steel van-stone facing (lapped pipe end).

FCSUN and FCSTN when suffixed "(WRAS)" indicates accordance with WRAS*, approval number 1301064.

*Water Regulations Advisory Scheme.

Conforms with PED* 97/23/EC. *Pressure Equipment Directive.

OPERATING PARAMETERS

Flanged model to EN1092 PN16

Operating Temperature, TS = 110 °C.
 Operating Pressure, PS = 16 Barg.
 Cold Test Pressure, PT = 24 Barg.

WRAS Approved models - Max. Operating Temperature = 90 °C.

Bespoke models are designed to suit the pressure and temperature of the fluid conveyed in compliance with PED 97/23/EC. As a guide, the operating parameters are based on pressure / temperature (p/T) ratings for material group 1E1 ferritic steel flanges from EN1092, where the operating pressure is reduced at elevated operating temperatures.

Operating Temp.	Maximum non-shock Operating Pressure for	PN6	PN10	PN16	PN25
50 °C.		6.0 Barg.	10.0 Barg.	16.0 Barg.	25.0 Barg.
100 °C.		4.8 Barg.	8.0 Barg.	12.8 Barg.	20.0 Barg.
150 °C.		4.5 Barg.	7.5 Barg.	11.9 Barg.	18.7 Barg.
200 °C.		4.1 Barg.	6.9 Barg.	11.0 Barg.	17.2 Barg.

When fitting to plant that is mounted on anti-vibration mounts or on inertia bases, then the Tied Flanged model must be used.