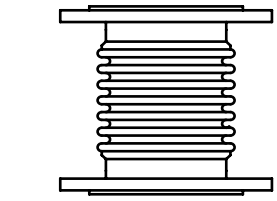
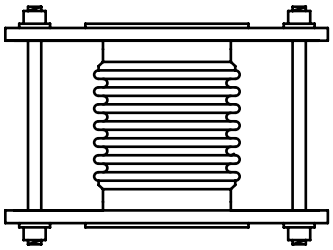
ST. STEEL FLEXIBLE CONNECTORS
Model FCSU(N) + FCST(N)



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)

WRAS APPROVED PRODUCT

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	only	only	FCS(U)(T)(N)-050-130-PN##
65	130	vibration	vibration	vibration	FCS(U)(T)(N)-065-130-PN##
80	130	with	with	with	FCS(U)(T)(N)-080-130-PN##
100	130	small	small	small	FCS(U)(T)(N)-100-130-PN##
125	130	amplitude	amplitude	amplitude	FCS(U)(T)(N)-125-130-PN##
150	130				FCS(U)(T)(N)-150-130-PN##
50	150	5	2	5	FCS(U)(T)(N)-050-150-PN##
65	150	5	2	5	FCS(U)(T)(N)-065-150-PN##
80	150	5	2	5	FCS(U)(T)(N)-080-150-PN##
100	150	5	2	5	FCS(U)(T)(N)-100-150-PN##
125	150	5	2	5	FCS(U)(T)(N)-125-150-PN##
150	150	5	2	5	FCS(U)(T)(N)-150-150-PN##
200	200	5	2	5	FCS(U)(T)(N)-200-200-PN##
250	200	5	2	5	FCS(U)(T)(N)-250-200-PN##
300	200	5	2	5	FCS(U)(T)(N)-300-200-PN##

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 0705087.
*Water Regulations Advisory Scheme.

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

OPERATING PARAMETERS

These 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 ratings for ferritic steel flanges from BS4504 / EN1092, where the working pressure is reduced at elevated working temperatures.

Working Temp.	Maximum non-shock Working Pressure for			
Up to	PN6	PN10	PN16	PN25
120 ºC.	6.0 Barg.	10.0 Barg.	16.0 Barg.	25.0 Barg.
150 ºC.	5.4 Barg.	9.0 Barg.	14.4 Barg.	22.5 Barg.
200 ºC.	4.8 Barg.	8.0 Barg.	12.8 Barg.	20.0 Barg.
250 ºC.	4.2 Barg.	7.0 Barg.	11.2 Barg.	17.5 Barg.
300 ºC.	3.6 Barg.	6.0 Barg.	9.6 Barg.	15.0 Barg.

WRAS Approved models - Max. Working Temperature = 90 ºC.

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