

Unique Sanitary Flexible Connection Systems

Servolift Offers a wide range of Flexible Compensators for all sanitary powder applications



*Flexible Solutions for you***Parallel FlexiDucts**

Parallel Flexiducts are a range of flexible connectors developed to make the joining of same sized pipes simple. The ends are moulded to allow them to be used in place of the basket of standard quick couplings. Ideal for absorbing vibration and also allow manipulation to dislodge any bridges that form at the restriction.

Materials: Virgin translucent silicone rubber compliant to CFR(FDA) standard 177.2600 and USP class VI. Moulded in a class 100,000 clean room. (Certificate supplied with each duct)

Method of use: Ducts are clamped to adjacent flanges using standard clamps and a specially designed clamping ring (See Fig. 1). The clamping ring is removable.

Crevice Free Transition: When used with standard ferrules there is a crevice free smooth transition from steel to duct leaving no gaps for powder retention to aid CIP cleaning.

Vibration: Absorbs vibrations and ideal for feeding vibrating equipment.

Weighing: Due to their flexibility the ducts are ideal for feeding applications to weighing systems.

Plain Ended Tubes: The Flexiducts are made so that they can be used with plain ended tubes by using a band clamp to secure it to the tube. The formed end of the Flexiduct can be removed if appropriate.

Pressure Rating: Flexiducts are designed to be used at atmospheric pressure.

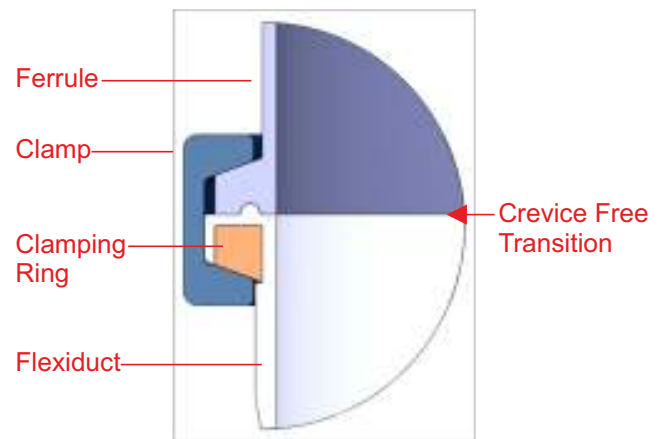


Fig.1 Quick release clamp

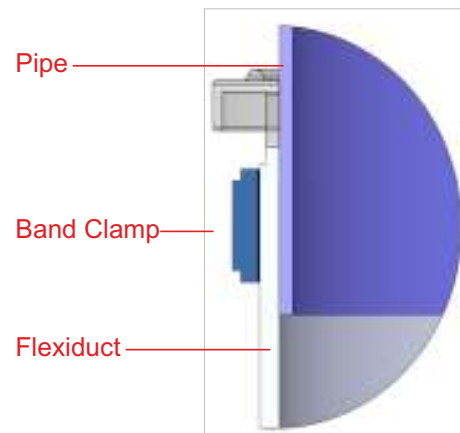


Fig.2 Lap Joint with Band Clamp

Application



Angular Misalignment



Vertical Misalignment

Misalignment

The flexibility of the Flexiduct allows connections between misaligned items. The ducts have been designed to compensate for reasonable levels of misalignment in all planes. The convolutions allow the duct to be stretched, compressed and to cope with angular and vertical misalignments.



Compression



Elongation

Designed to Shed Powder

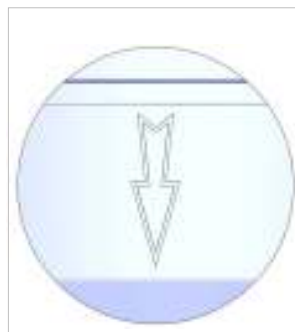
Parallel Flexiducts have a right and wrong way for installation. The convolutions are asymmetric. One side has a steep angle to ensure that so that powder does not collect within the convolution. Arrows moulded into the surface define the flow direction.

Visible Powder Flow

The powder flow within the duct is clearly visible due to the translucent material used for the ducts.



Power Shedding



Flow Direction

Components

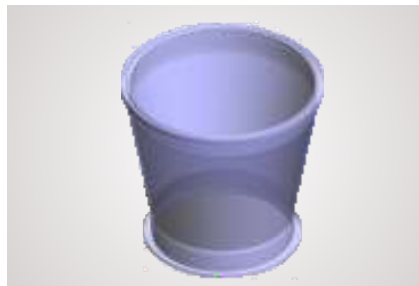
Parallel FlexiDucts are clamped to adjacent flanges using standard Tri-Clamps.

Ferrules: The ducts are designed to work with ferrules to standard BS4825 -Part 3. These correspond to the USA inch sizes also. A ferrule will be required for the equipment to each side of the duct. Please consult us for use with other ferrule types.

Clamping Rings: Made from grade 316 stainless steel the clamping ring is used behind the duct edge to provide the clamping surface.

QR Clamps: Standard Clamps - Single pin in grade 304 stainless steel.

Band Clamps: Made from grade 304 stainless steel and incorporating an over-center latch that can be locked in the closed position.



Conical Flexiduct



Clamping Rings



Ferrules



QR Clamps



Band Clamps

	Diameter 1					
Part No.	300	250	200	150	100	75
Length	200	200	210	150	100	100
Clamp Part No.	F004586	F004585	F004584	F004583	F003427	F003426
Ferrule Part No.	F000044	F000043	F000041	F000039	F000031	F000027
Ferrule Length	28	28	28	21	21	21
Clamp Ring Part No.	32502	32501	32499	32499	32503	34438
Band Clamp Part No.	F003311	F003310	F003309	F003308	F003307	F005964