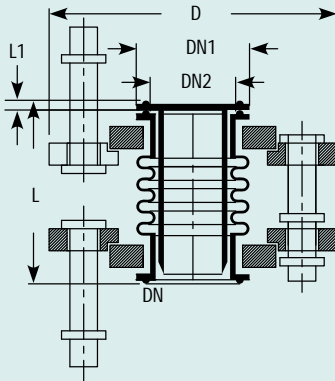


Cat.Ref.	DN	D	D1	D2	L
FBN1*	25	95	41	31	65
FBN1.5*	40	105	56	43	65
FBN2*	50	120	69	55	65
FBN3*	80	155	98	82	65
FBN4*	100	200	132	111	65
FBN6*	150	275	184	162	65
FBN9*	225	350	258	230	65
FBN12	300	420	340	308	65



Vacuum bellows

For pipelines of 80DN and above operating under vacuum, the bellows are provided with an internal sleeve which supports the convolutions without affecting the flexibility of the bellow. These bellows can withstand a temperature of 200°C under full vacuum. For size upto 50DN, line bellows can be used for these applications.

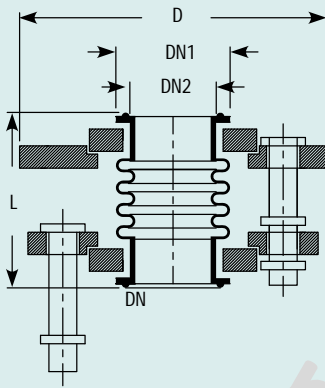
Cat.Ref.	DN	D	D1	D2	L	L1	t
VB3*	80	155	98	82	70	5	3.0
VB4*	100	200	132	111	70	5	3.5
VB6*	150	275	184	162	70	5	4.0
VB9*	225	350	253	230	70	5	5.0
VB12	300	420	338	308	70	5	5.0

PTFE BELLOWS - GLASS TO METAL

These bellows are used in installation of glass equipment for following purposes :

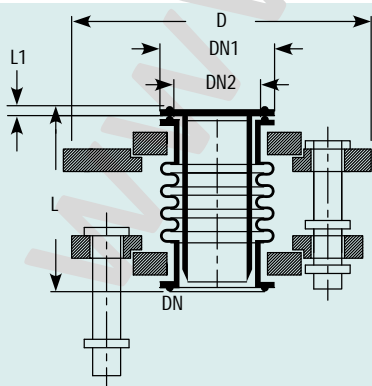
- to minimise the transfer of vibrations from the rotating equipments which are connected to the glass assembly.
- to accommodate the thermal expansion of any metallic (non-glass) equipment which are connected to the glass pipeline.

These are similar to the bellows for glass-to-glass in construction, but having adaptor bellow flange at one end. Generally this adaptor flange is supplied undrilled so that it can be drilled as per the configuration of mating flange. However, this adaptor bellow flange can be supplied drilled AS per "Table E", "Table F" or "ASA 150" standards, if Specified.



Line bellows

Cat.Ref.	Cat.Ref.	Cat.Ref.	Cat.Ref.	DN	D	L
Undrilled	Table E	Table F	ASA 150			
FBF1*	FBF1/E	FBF1/F	FBF1/A	25	115	60
FBF1.5*	FBF1.5/E	FBF1.5/F	FBF1.5/A	40	150	65
FBF2*	FBF2/E	FBF2/F	FBF2/A	50	165	65
FBF3*	FBF3/E	FBF3/F	FBF3/A	80	200	65
FBF4*	FBF4/E	FBF4/F	FBF4/A	100	220	65
FBF6*	FBF6/E	FBF6/F	FBF6/A	150	285	65
FBF9*	FBF9/E	FBF9/F	FBF9/A	225	395	65
FBF12	FBF12/E	FBF12/F	FBF12/A	300	445	65



Vacuum bellows

Cat.Ref.	Cat.Ref.	Cat.Ref.	Cat.Ref.	DN	D	L
Undrilled	Table E	Table F	ASA 150			
VBF3*	VBF3/E	VBF3/F	VBF3/A	80	200	70
VBF4*	VBF4/E	VBF4/F	VBF4/A	100	220	70
VBF6*	VBF6/E	VBF6/F	VBF6/A	150	285	70
VBF9*	VBF9/E	VBF9/F	VBF9/A	225	395	70
VBF12	VBF12/E	VBF12/F	VBF12/A	300	445	70

* marked items are available fast.