

Silicone Bellows Expansion Joints

Vibration transmission through connections within pipeline systems must be avoided to minimize risks and damage to the system, equipment, and personnel. To ensure flawless operation of the system it is necessary to insert flexible parts to the pipeline system to reduce these vibrations.

For pipeline systems with relatively small diameters and pressures up to 4 bar, Trelleborg offers costeffective silicone bellows to provide the vibration isolation and flexibility necessary. Our portfolio consists of many affordable bellows for various applications. Trelleborg provides the appropriate bellows that compensate movement, expansion or misalignment in the system.

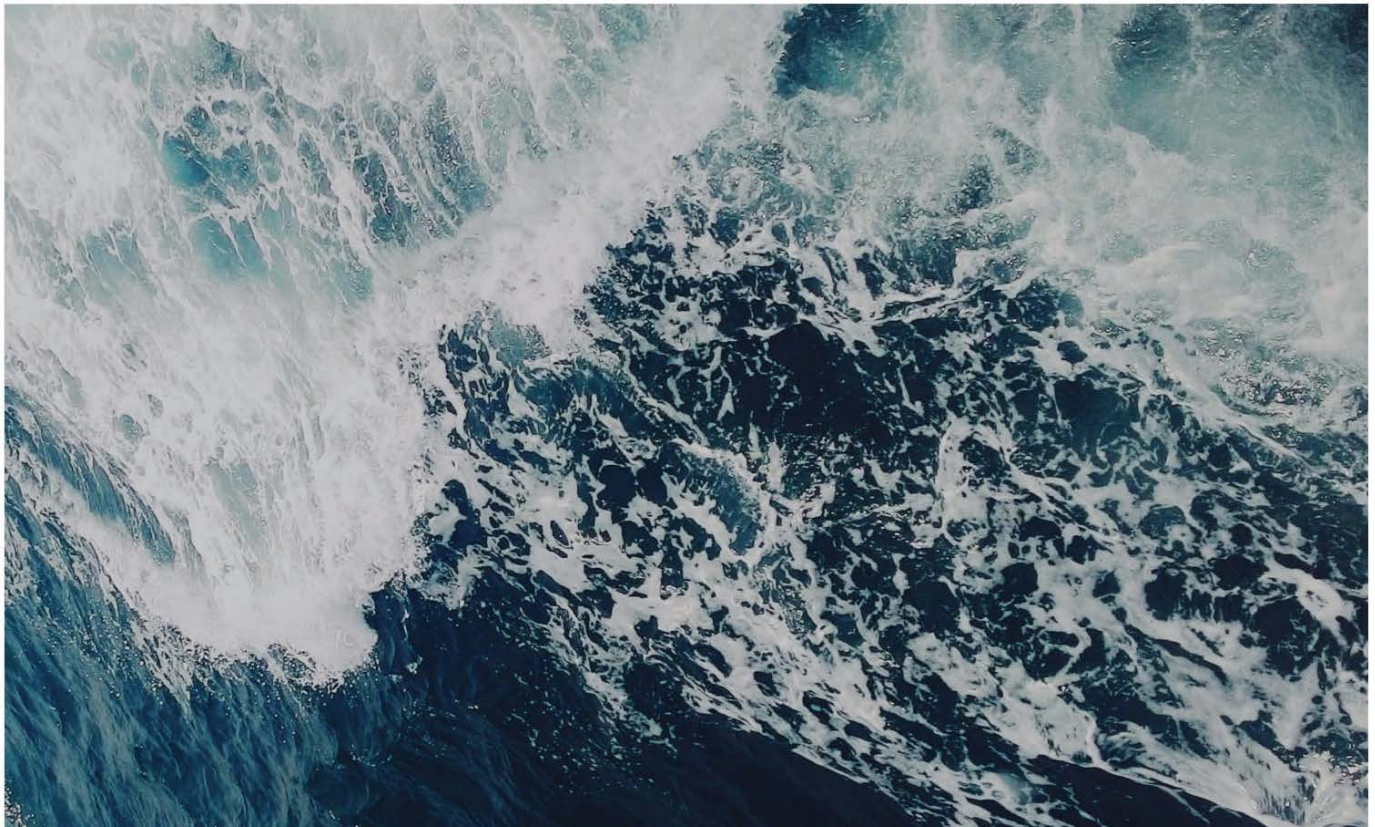
Our silicone bellows are commonly used as connectors in various applications like cooling water systems, air supply systems and pipelines for oil and solvents.

ADVANTAGES

- Suitable for relatively high temperatures
- Various variations available (dimensions, medium)
- Versions with reinforcement rings available
- Special versions for use with saltwater, oils, chemicals, and solvents
- Easy installation with PARI clamps
- Stock item

APPLICATION EXAMPLES

- Cooling water systems
- (Clean) air supply systems
- Turbo air charge systems
- Pipeline systems for chemicals



TWINFIT FLUOR BLUE & CLAMPING BANDS

APPLICATION

Twinfit Fluor Blue silicone bellows provide an extremely flexible connection for cooling water systems, clean air supply, and turbo air charge systems. This type is oil resistant and suitable for applications with very high temperatures.

- Temperature range from -60°C up to +250°C
- Maximum working pressure 4 bar at 120°C

CONSTRUCTION

The Twinfit silicone bellows are constructed with:

- High-quality Black Fluor silicone rubber inner tube
- Heavy-duty DuPont Nomex cord reinforcement
- Blue silicone rubber cover
- Three stainless steel reinforcement rings on the outside
- Special beads on each end for positioning the clamping bands

CLAMPING BANDS

We recommend using our heavy-duty clamping bands. The clamping bands are either made of zinc-plated carbon steel or full stainless steel.

MOVEMENTS

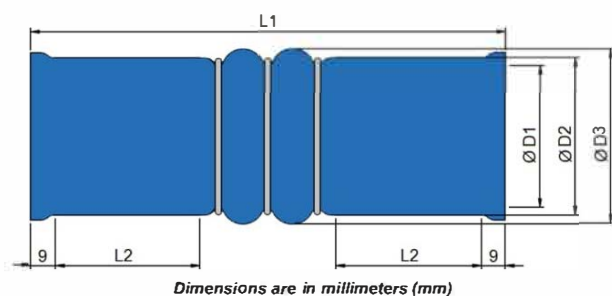
Compression and elongation 13 mm. Lateral 3 mm.

GENERAL

A minimum distance of 50 or 69 mm, depending on bellow size, between the pipe ends is needed for secure operation. On a TwinFit Fluor Blue clamping bands should be used.



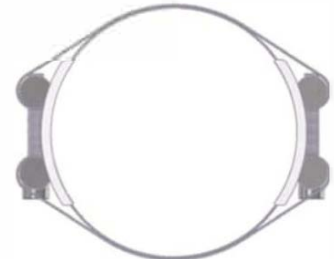
TECHNICAL DRAWING



I-1 part



II-2 parts



TWINFIT FLUOR BLUE & CLAMPING BANDS

PRODUCT DATA: TWINFIT FLUOR BLUE

PART NO.	INSIDE DIAMETER D1 [MM]	OUTSIDE DIAMETER D2 [MM]	BELLOWS DIAMETER D3 [MM]	NEUTRAL LENGTH L1 [MM]	CUFF LENGTH L2[MM]
300 062 034	34	39	42	178	55
300 062 038	38	44	47	178	55
300 062 042	42	48	55	178	55
300 062 048	48	53	60	178	55
300 062 054	54	59	66	178	55
300 062 060	60	65	69	185	60
300 062 076	76	80	90	188	60
300 062 080	80	85	90	214	65
300 062 089	89	94	106	214	65
300 062 108	108	112	124	217	65
300 062 114	114	118	124	217	65
300 062 133	133	138	144	217	65
300 062 139	139	144	154	217	65

PRODUCT DATA: CLAMPING BANDS

FOR BELLOW PART NO.	CLAMP TYPE	CLAMP ST.37 ZINC-PLATED PART NO.	CLAMP STAINLESS STEEL AISI 304 PART NO.	REQUIRED QUANTITY
300 062 034	I-1 part	300 070 040	300 071 040	4
300 062 038	I-1 part	300 070 045	300 071 045	4
300 062 042	I-1 part	300 070 050	300 071 050	4
300 062 048	I-1 part	300 070 055	300 071 055	4
300 062 054	I-1 part	300 070 060	300 071 060	4
300 062060	I-1 part	300 070 065	300 071 065	4
300 062 076	I-1 part	300 070 080	300 071 085	4
300 062 080	I-1 part	300 070 085	300 071 085	4
300 062 089	II-2 parts	300 080 095	300 081 095	4
300 062 108	II-2 parts	300 080 115	300 081 115	4
300 062 114	II-2 parts	300 080 125	300 081 120	4
300 062 133	II-2 parts	300 080 140	300 081 140	4
300 062 139	II-2 parts	300 080 150	300 081 150	4

TYPE A-BLUE & CLAMPING BANDS

APPLICATION

Trelleborg Type A-Blue silicone bellows provide an extremely flexible connection for general purposes. These all-round silicone bellows are typically used in cooling water systems and pipe systems for clean air. The Type A-Blue silicone bellow is suitable for applications with very high temperatures.

- Temperature range from -60°C up to $+180^{\circ}\text{C}$.
- Maximum working pressure 4 bar at 20°C .

CONSTRUCTION

Type A-Blue silicone bellows are constructed with:

- Red silicone rubber inner tube
- Polyester reinforcements
- Blue silicone outer cover

GENERAL

Due to its construction, the required distance between the two pipe ends connected by the bellows may vary from 5 to 15 mm for secure operation. On a Type A-Blue silicone bellow, the use of heavy-duty clamping bands is recommended.



PRODUCT DATA: TYPE A BLUE

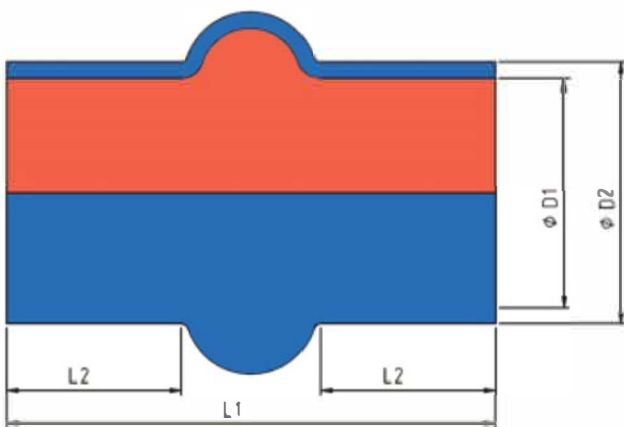
PART NO.	INSIDE DIAMETER D1 [MM]	OUTSIDE DIAMETER D2 [MM]	NEUTRAL LENGTH L1 [MM]	CUFF LENGTH L2 [MM]
300 060 034	34	45	130	47
300 060 038	38	49	130	47
300 060 042	42	53	130	47
300 060 048	48	59	130	47
300 060 054	54	64	130	47
300 060 057	57	69	130	47
300 060 060	60	71	130	47
300 060 064	64	75	130	47
300 060 070	70	81	170	62
300 060 076	76	87	170	62
300 060 080	80	91	170	62
300 060 085	85	97	170	62
300 060 089	89	101	170	62
300 060 108	108	120	170	62
300 060 114	114	126	170	62
300 060 133	133	145	170	62
300 060 139	139	152	170	62

TYPE A-BLUE & CLAMPING BANDS

PRODUCT DATA: CLAMPING BANDS

FOR BELLOW PART NO.	CLAMP TYPE	CLAMP ST.37 ZINC-PLATED PART NO.	CLAMP STAINLESS STEEL AISI 304 PART NO.	REQUIRED QUANTITY
300 060 034	I-1 part	300 070 045	300 071 045	2
300 060 038	I-1 part	300 070 050	300 071 050	2
300 060 042	I-1 part	300 070 055	300 071 055	2
300 060 048	I-1 part	300 070 060	300 071 060	2
300 060 054	I-1 part	300 070 065	300 071 065	4
300 060 057	I-1 part	300 070 070	300 071 070	4
300 060 060	I-1 part	300 070 075	300 071 075	4
300 060 064	I-1 part	300 070 080	300 071 080	4
300 060 070	I-1 part	300 070 085	300 071 085	4
300 060 076	I-1 part	300 070 090	300 071 090	4
300 060 080	II-2 parts	300 080 095	300 081 095	4
300 060 085	II-2 parts	300 080 100	300 081 100	4
300 060 089	II-2 parts	300 080 105	300 081 105	4
300 060 108	II-2 parts	300 080 125	300 081 125	4
300 060 114	II-2 parts	300 080 130	300 081 130	4
300 060 133	II-2 parts	300 080 150	300 081 150	4
300 060 139	II-2 parts	300 080 160	300 081 160	4

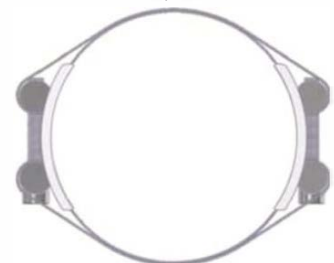
TECHNICAL DRAWING



I-1 part



II-2 parts



TYPE A-GREEN & CLAMPING BANDS

TYPE A-GREEN & CLAMPING BANDS

Trelleborg Type A-Green silicone bellows provide an extremely flexible connection for applications with fluids like saltwater, oils, chemicals, and solvents. Additionally, this specific type of bellows is also suitable for drinking water systems and applications with very high temperatures.

- Temperature range from -60°C up to $+180^{\circ}\text{C}$.
- Maximum working pressure 4 bar at 20°C .

CONSTRUCTION

Type A-Green silicone bellows are constructed with:

- Special blue fluor-silicone inner tube
- Polyester reinforcements
- Green silicone outer cover

GENERAL

Due to its construction, the required distance between the two pipe ends connected by the bellows may vary from 5 to 15 mm for secure operation. On a Type A-Green silicone bellow, the use of heavy-duty clamping bands is recommended.

MOVEMENTS

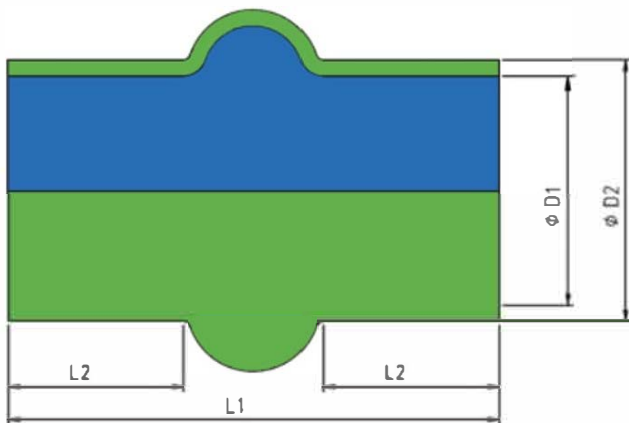
Compression and elongation 3 mm. Lateral 2 mm.



CLAMPING BANDS

To ensure the operation and safety of this type of bellow, the use of our heavy-duty clamping bands is strongly recommended. These clamping bands are available in zinc-plated carbon steel or full stainless steel.

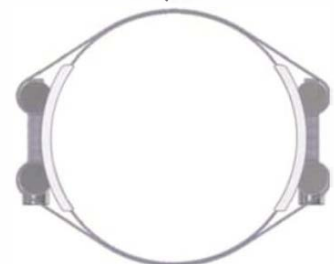
TECHNICAL DRAWING



I-1 part



II-2 parts



TYPE A-GREEN & CLAMPING BANDS

PRODUCT DATA: TYPE A-GREEN

PART NO.	INSIDE DIAMETER D1 [MM]	OUTSIDE DIAMETER D2 [MM]	NEUTRAL LENGTH L1 [MM]	CUFF-LENGTH L2 [MM]
300 050 030	30	43	130	45
300 050 034	34	46	130	45
300 050 038	38	51	130	45
300 050 042	42	55	130	52
300 050 044	44	57	130	52
300 050 048	48	61	130	60
300 050 054	54	67	165	60
300 050 057	57	70	165	60
300 050 060	60	73	165	60
300 050 076	76	89	200	75
300 050 089	89	102	200	75
300 050 108	108	121	200	75
300 050 114	114	131	200	75
300 050 133	133	149	200	75
300 050 139	139	163	200	75

PRODUCT DATA: CLAMPING BANDS

FOR BELLOW PART NO.	CLAMP TYPE	STEEL CLAMP ST.37 ZINC-PLATED PART NO.	CLAMP STAINLESS STEEL AISI 304 PART NO.	REQUIRED QUANTITY
300 050 030	I-1 part	300 070 043	300 071 045	2
300 050 034	I-1 part	300 070 050	300 071 050	2
300 050 038	I-1 part	300 070 050	300 071 050	2
300 050 042	I-1 part	300 070 055	300 071 055	2
300 050 044	I-1 part	300 070 060	300 071 060	2
300 050 048	I-1 part	300 070 060	300 071 060	2
300 050 054	I-1 part	300 070 070	300 071 070	4
300 050 057	I-1 part	300 070 075	300 071 070	4
300 050 060	I-1 part	300 070 075	300 071 075	4
300 050 076	I-1 part	300 070 090	300 071 090	4
300 050 089	II-2 parts	300 080 105	300 081 105	4
300 050 108	II-2 parts	300 080 130	300 081 120	4
300 050 114	II-2 parts	300 080 130	300 081 130	4
300 050 133	II-2 parts	300 080 155	300 081 150	4
300 050 139	II-2 parts	300 080 170	300 081 170	4