

SILICONE BELLOWS

TYPE A-GREEN & CLAMPING BANDS



LOGGERS

INTRODUCTION

Pipeline systems are influenced by for instance vibrations, movements or chemicals. To ensure optimal operation of the pipeline and its environment and to minimize the impact of these influences, flexible parts are inserted for connections in the pipeline system

For pipeline systems with relatively small diameters and pressures up to 4 bar silicone bellows can provide the necessary vibration isolation and flexibility. The product portfolio of Loggers contains many affordable silicone bellows that are available in different sizes and various linings.

APPLICATION

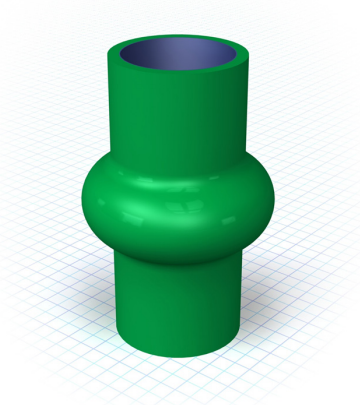
Loggers Type A-Green silicone bellows provide an extremely flexible connection for applications with fluids like salt water, oils, chemicals and solvents. In addition, this specific type of bellows is also suitable for drinking water systems and applications with very high temperatures.

- 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 fluorosilicone innertube
- Polyester reinforcements
- Green silicone outer cover



GENERAL

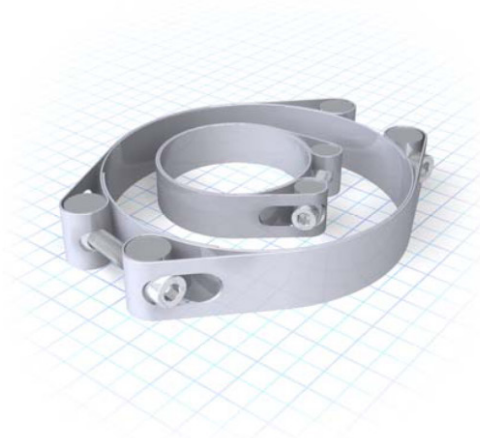
Due to its construction the required distance between the two pipe ends connected by the bellows may vary from 5 to 15 mm for secure operation. On a silicone bellow type A-Green we recommend to use heavy duty clamping bands.

MOVEMENTS

Compression and elongation 3 mm. Lateral 2 mm.

CLAMPING BANDS

For this type of bellows the use of our heavy duty clamping bands is recommended. These clamping bands are either made of zinc-plated carbon steel or full stainless steel.



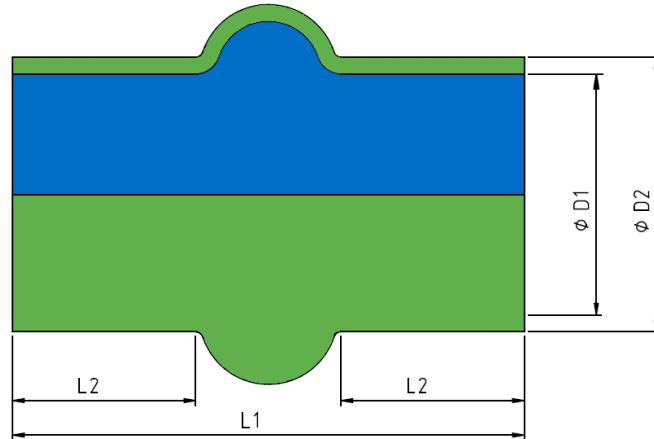
I-1 part



II-2 parts



TECHNICAL DATA



TYPE A-GREEN

Bellows article no.	Inside diameter	Outside diameter	Neutral length	Cuff-length
	D1 [mm]	D2 [mm]	L1 [mm]	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

CLAMPING BANDS

Bellows article no.	Clamp type	Clamp St.37 Zinc-plated	Clamp Stainless Steel AISI 304	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	300 070 095	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

ABOUT LOGGERS

Loggers is **thought leader** and international recognized solution provider in the field of shock, vibration and noise control. With **excellent technical know-how** in combination with proven market knowledge and experience Loggers designs, develops and engineers **innovative solutions** for the most complex and challenging situations for leading clients worldwide for over 90 years.

Loggers understands all difficulties in the area of vibration, shock and noise control entirely.

We bring up the best and most cost effective solution for every challenge, regardless of its complexity. Loggers defines and engineers all deliverables necessary for solving your problem, ranging from standard to tailor-made solutions. Loggers' state-of-the-art portfolio contains all products and services to provide you with the optimal solution for relatively simple as well as the most complex challenges.

Products

- Vibration mounts
- Expansion joints
- Shock mounts

Services

- Assessment of current situation (on site)
- Analysis design including construction drawings
- Structural design and stress analysis
- Vibration measurement, calculation and analysis, if needed on site
- Solution definition based on:
 - standard products
 - customized products, or even
 - tailor-made new products, including prototyping
- Complete simulation of solution to ensure its effectiveness
- Testing including certification by independent certification authorities
- On site support during installation

Loggers understands both business and technology and brings both worlds together in satisfying customers' needs in rapidly changing environments. By working closely with clients Loggers enables them to realize their strategic targets through solving specific operational issues in the following market segments:

- Shipbuilding
- Dredging
- Defense
- Machinery
- Offshore
- Transportation



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