

SILICONE BELLOWS
TWINFIT® FLUOR BLUE & 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.

TWINFIT® FLUOR BLUE

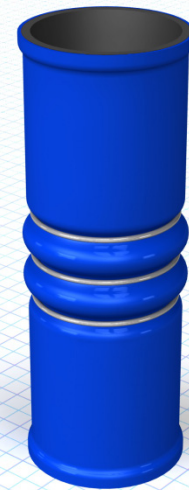
Twinfit® Fluor Blue silicone bellows provide an extremely flexible connection for cooling water systems, clean air supply and turbo air charge systems. This type is oil resistant and suitable for applications with very high temperatures.

- Temperature range from -60°C up to $+250^{\circ}\text{C}$.
- Maximum working pressure 4 bar at 120°C .

CONSTRUCTION

The Twinfit® silicone bellows are constructed with:

- High-quality Black Fluor silicone rubber innertube
- 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



GENERAL

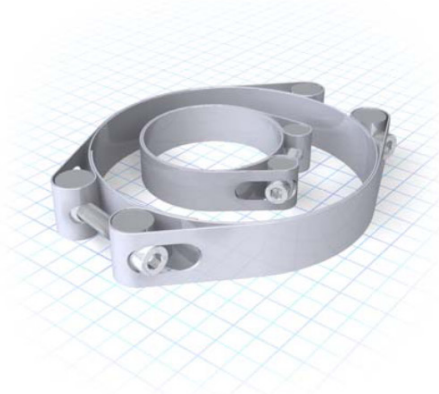
A minimum distance of 50 or 69 mm, depending on bellow size, between the pipe ends is needed for secure operation. On a TwinFit® Fluor Blue clamping bands should be used.

MOVEMENTS

Compression and elongation 13 mm. Lateral 3 mm.

CLAMPING BANDS

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



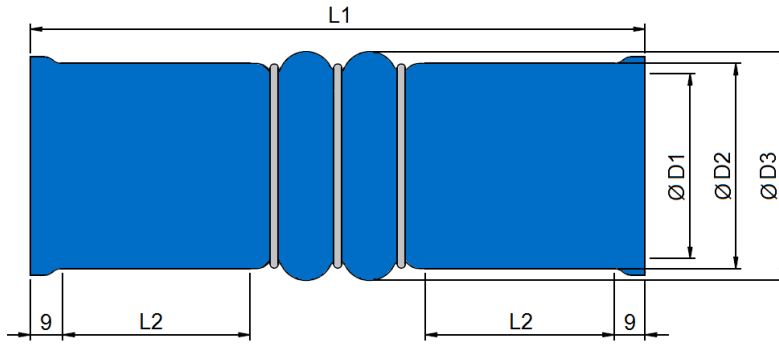
I-1 part



II-2 parts



TECHNICAL DATA



Dimensions are in millimeters (mm)

TWINFIT® FLUOR BLUE

| Bellows article 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 |
| 300 062 087 | 87 | 92 | 106 | 214 | 65 |
| 300 062 089 | 89 | 94 | 106 | 214 | 65 |
| 300 062 108 | 108 | 112 | 124 | 217 | 65 |
| 300 062 112 | 112 | 116 | 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 |

CLAMPING BANDS

| Bellows article no. | Clamp type | Clamp St.37 Zinc-plated Article no. | Clamp Stainless Steel AISI 304 Article 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 |
| 300 062 060 | 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 |
| 300 062 087 | II-2 parts | 300 080 095 | 300 081 095 | 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 |
| 300 062 112 | 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 |

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



Version 03
March 2012

Loggers B.V.

Pieter Zeemanweg 133
3316 GZ Dordrecht
Mail: P.O. Box 194
3300 AD Dordrecht
The Netherlands
Phone: +31 (0) 78 6182844
Fax: +31 (0) 78 6180650
sales@loggers.nl

Loggers Schwingungstechnik GmbH

Am Markt 9
D-27419 Sittensen
Germany
Phone: +49 (0) 4282/5949-0
Fax: +49 (0) 4282/5949-39
sales@loggers.de

