

PCMXYJ Electroforming Precision Bellows

Features

- High precision
- Stain resistance
- Low leakage rate
- The tube wall thickness can be 0.008 millimeter

Applications and industries

- Instruments and apparatus
- Automatic communication control
- Medical facility
- Aeronautic & Astronautics
- Military equipment

Notes:

- 1 Please read the Instruction Manual of the product carefully before installation and check the relevant information of the product.
- 2 Misuse of the product may cause danger or personal injury.



Product Overview

There are 5 kinds of metal bellows: rolled, hydroformed, welded, chemically deposited, electroformed. The electroplate metal onto a mandrel with aluminum material. The mandrel will be dissolved after electroforming.

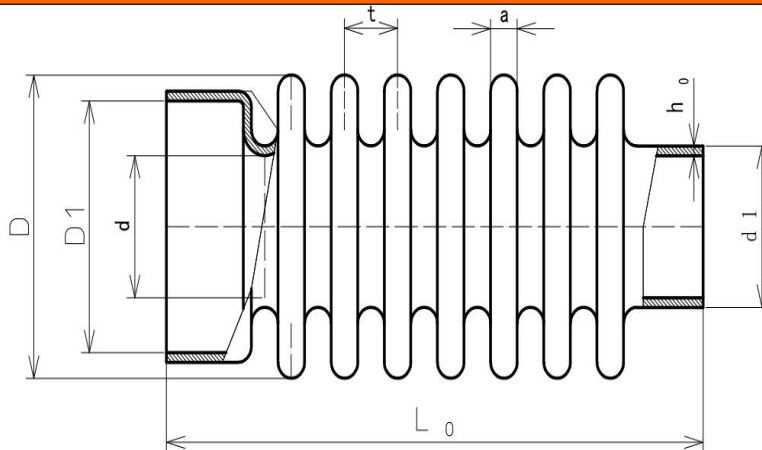
Notes:

- 1 Do not misuse documentation.
- 2 The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- 3 Complete installation, operation, and maintenance information is provided in the instructions of the product.
- 4 Misuse of the product may cause danger or personal injury.

Technical Indicators

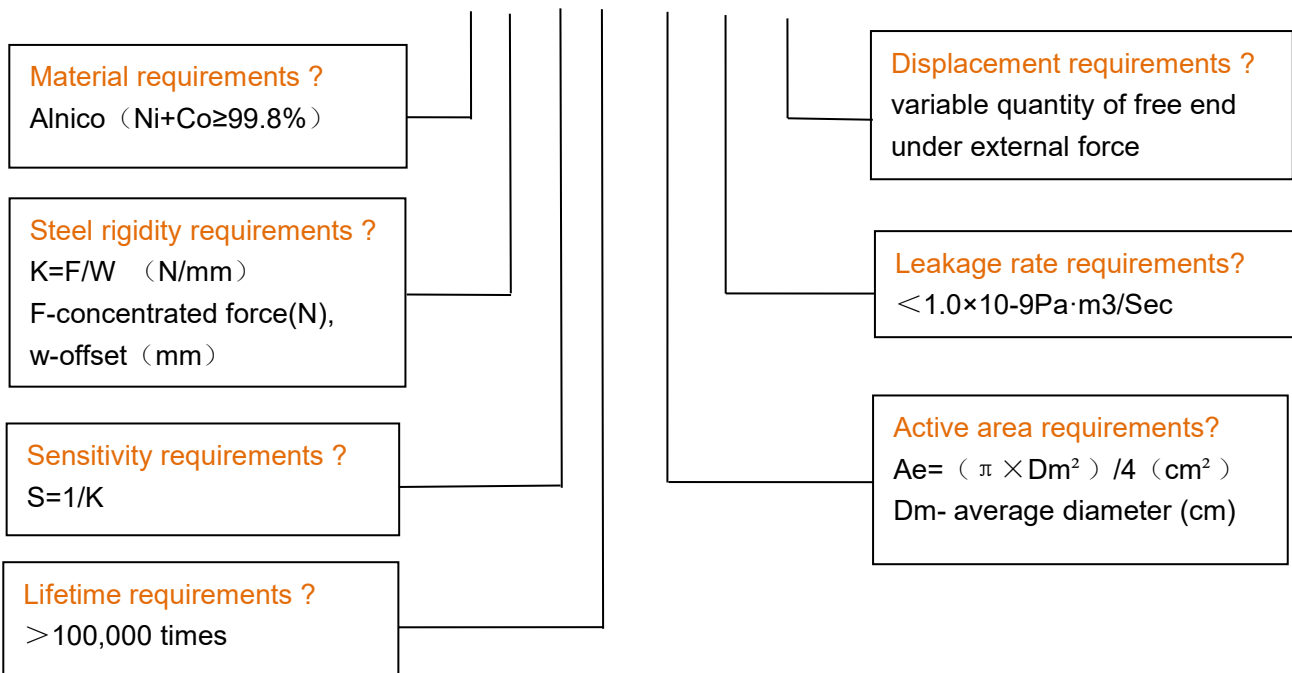
1. Environmental suitability											
Temperature		-196℃~176℃		1. The elasticity remains in liquid nitrogen and the mechanical strength is improved. 2. The high temperature limit is about 176℃, which will lead to bellows embrittlement or annealing							
Corrosion resistance		Corrosion resistance in dry air and alkaline environment			Not resistant to acid, salt and sea water						
Magnetic characteristic		Magnetic									
2. Specification and size											
No	Inner diameter (mm)	Outer diameter (mm)	Pitch of waves (mm)	Max splash n	Wall thickness (mm)	Max pressure resistance (Mpa)	Single wave steel K			Maximum allowable single-wave displacement (mm)	Active area S (cm ²)
							Axial	Angular	Horizontal		
							N/4mm	Nm/Grad	N/mm		
1	2	3	0.5	10	0.025	1.6	47	0.96	2600	±0.025	0.05
2	2	3.5	0.5	10	0.025	0.61	16	0.45	1200	±0.04	0.061
3	2	4	0.5	10	0.025	0.29	7.4	0.27	730	±0.06	0.073
4	4	5.5	0.5	10	0.03	0.85	55	3.8	10000	±0.04	0.179
5	4	6	0.5	10	0.03	0.42	26	2.1	5600	±0.06	0.199
6	4	7	0.8	16	0.03	0.22	7.4	0.82	870	±0.12	0.243
7	6	8	0.5	10	0.03	0.44	38	5.5	15000	±0.06	0.387
8	6	9	0.8	16	0.03	0.21	11	2	2100	±0.14	0.448
9	6	10	1.2	24	0.03	0.15	4.5	1	480	±0.20	0.513
10	8	11	0.8	16	0.04	0.35	35	9.5	10000	±0.11	0.715
11	8	12	1.2	24	0.04	0.24	14	4.6	2200	±0.19	0.796
12	8	13	0.2	24	0.04	0.14	7.8	2.9	1400	±0.26	0.882
13	10	13	0.8	16	0.04	0.35	44	17	18000	±0.11	1.045
14	10	15	1.2	24	0.04	0.14	10	4.9	2300	±0.28	1.24
15	10	17	2	40	0.04	0.08	3.4	2.2	370	±0.43	1.46
16	12	16	1.2	24	0.05	0.33	42	24	11000	±0.16	1.55
17	12	18	2	40	0.05	0.19	12	8.7	1500	±0.32	1.79
18	12	20	2	40	0.05	0.094	5.5	4.9	840	±0.49	2.05
19	16	21	1.2	24	0.06	0.28	53	52	24000	±0.19	2.7
20	16	24	2	40	0.06	0.13	13	16	2800	±0.47	3.18
21	16	27	2	60	0.06	0.073	4.8	7.7	590	±0.72	3.71
22	20	26	2	40	0.07	0.31	55	83	14000	±0.28	4.18
23	20	30	3	60	0.07	0.14	12	25	1900	±0.62	4.97
24	20	33	3	60	0.07	0.062	6	15	1100	±0.92	5.63
3. Surface treatment (select according to the demand)											
Gold plated or silver plated		Improve the weld-ability, electrical conductivity, turbidity resistance of bellows									
Organic coating		Improve the turbidity resistance of bellows									

Structure



How to order

PCMX YJ Electroforming Precision Bellows



Note:

Bellows are generally not in stock, customers can contact us to design suitable bellows according to your specific requirements.

Wotian reserves the right to make any change in this publication without notice. The information provided is believed to be accurate and reliable as of this product sheet.



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