



Flexible vacuum connections

BOA ISO-K

with clamped flanges acc. to DIN 28404

Description

These flexible connectors specially designed by BOA AG comply with the highest quality requirements of the Vacuum Industry from gross to ultra-high vacuum levels. Their special design ensures that only smallest loads are transferred to the end connectors, maintaining nevertheless stability when put under pressure. Fitted with ISO-K clamped flanges, these flexible connectors provide a fast and economic solution. The flexible element of shorter connectors consists of BOA instrument bellows, longer units use annularly (parallel) corrugated BOA metal hoses. Both executions are designed to compensate for axial, lateral and angular movement and to absorb vibration. BOA AG provides short-term delivery for a complete standard range **from DN 63 to DN 250**.

Construction characteristics

Bellows and hose construction according to proven BOA methods and procedures, single-ply, completely made of high level chrome-nickel steel, with **clamped flanges ISO-K according to DIN 28404** welded on both sides.

Material

The bellows or hose unity is made of stainless steel DIN 1.4571 (AISI 316 Ti). This 18-8 austenitic type stainless steel is titanium stabilized and has molybdenum content giving it better corrosion resistance to pitting, stress crack and intercrystalline attack up to a working temperature of 550°C.

Temperature resistance

From -200°C up to +550°C. For higher temperatures please ask.

Leak-tightness

Mass spectrometer tested with helium. Leakage $<1 \times 10^{-9}$ mbar · l/s.

Delivery status

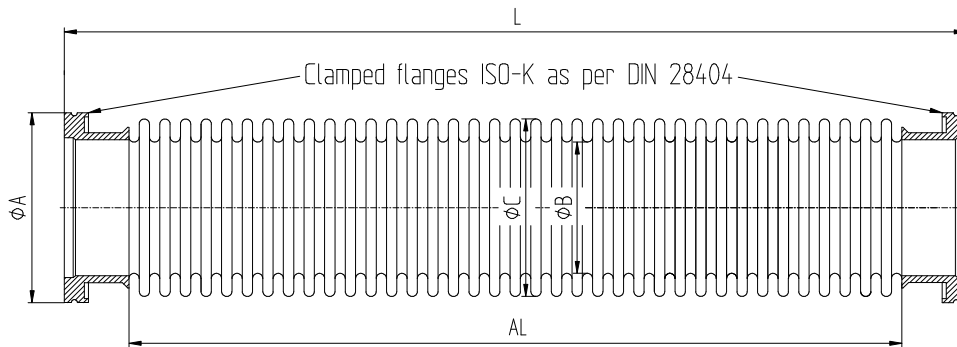
Sealing areas on flanges protected by plastic caps. Dust-free sealed in plastic bag.

Quality management

Design, dimensioning, manufacturing and final tests of BOA products follow latest professional and state-of-the-art procedures. Regular controls and tests executed by accredited authorities for enterprise and product certification confirm the efficient and professional continuity of BOA process management. **BOA AG is certified according to EN ISO 9001:2008 and 14001:2004.**



Flexible vacuum connection with clamped flanges ISO-K



made of BOA Metal Bellows

DN	L	ØA	ØB	ØC	AL	Axial movement** max. ± mm	Lateral movement** max. ± mm	Angular movement** max. ± °	BOA item n°
63	120	95	66	84	56	11	3	17	F-0004517
100	120	130	95	120	56	15	3	15	F-0004529
100	200	130	95	120	136	35	18	38	F-0004530
160	180	180	141	173	116	22.5	6	16.5	F-0004535
160	200	180	141	173	136	27.5	8	20	F-0004547
160	250	180	141	173	186	34	13	25	F-0004536
250	200	290	263	305	116	23.5	3	9.5	F-0004542

** Movement value not cumulative

Additional lengths on request

Subject to change

made of parallel corrugated BOA Metal Hoses

Orders:

Please state the following with your order:

- _____ ← Nominal size, DN
- _____ ← Length, L
- _____ ← BOA item n°
- _____ ← Quantity, needs

DN	L	ØA	ØB	ØC	AL	Bend radius	BOA item n°
63	250	95	66	79	186	186	F-0004520
63	500	95	66	79	436	300	F-0004524
63	750	95	66	79	686	300	F-0004527
63	1000	95	66	79	936	300	F-0004528
100	250	130	101	127	186	550	F-0004531
100	500	130	101	127	436	550	F-0004532
100	750	130	101	127	686	550	F-0004533
100	1000	130	101	127	936	550	F-0004534

Additional lengths on request

Subject to change without notice