

ZEROVAC ISO-KF STAINLESS STEEL BELLOWS

Vacuum Components / ISO-KF Vacuum Fittings



DN 10 • DN 16 • DN 25 • DN 40 • DN 50

■ 5 NOMINAL SIZES

Five ISO-KF connection sizes from DN 10 to DN 50.

■ FLEXIBLE MOVEMENT

Bellows geometry accommodates axial, angular and lateral movement.

■ 304 + 316Ti CONSTRUCTION

AISI 304 flanges with an AISI 316Ti flexible bellows element.

ISO-KF Stainless Steel Bellows

The ZEROVAC ISO-KF stainless steel bellows is designed to accommodate vibration, installation tolerances and limited axial, angular or lateral movement in vacuum lines. AISI 304 stainless steel flanges combined with an AISI 316Ti flexible bellows element provide a durable and reliable connection. Five ISO-KF sizes are available from DN 10 to DN 50.

Advantages

- Helps reduce vibration transmission and mechanical stress
- Accommodates axial, angular and lateral movement
- Design aligned with ISO 2861/1, DIN 28403 and Pneurop 6606
- Leak rate below 1×10^{-9} mbar·L/s
- Durable AISI 304 flange and AISI 316Ti bellows construction

Applications

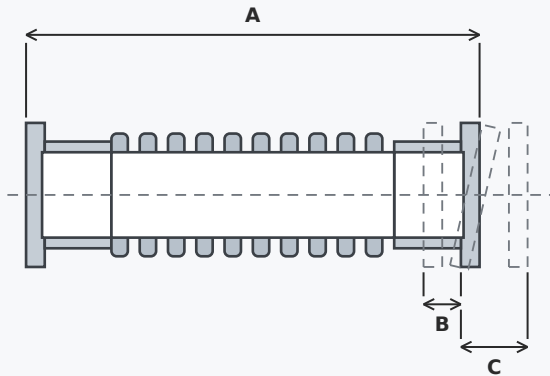
- Vacuum pumps and central vacuum systems
- Vacuum chambers and process lines
- Connections between rigid piping sections
- Vibration-producing equipment connections
- Laboratory, R&D and industrial vacuum systems

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Technical Dimensions and Ordering Information



A: unstressed length • B: max. axial compression • C: max. axial extension
D: max. angular deviation • E: max. lateral displacement

Product Summary

Connection standard	ISO-KF
Nominal sizes	DN 10 - DN 50
Flange material	AISI 304 / EN 1.4301
Bellows material	AISI 316Ti / EN 1.4571
Leak rate	$< 1 \times 10^{-9}$ mbar·L/s

Dimensions and Ordering Codes

ISO-KF	Dimensions					Max. Internal Pressure	Ordering Code
	A (mm)	B (mm)	C (mm)	D (°)	E (mm)		
DN 10	70	3.5	3	23°	5	4 bar	211326
DN 16	70	6.4	4.1	21°	4	4 bar	211327
DN 25	80	8	5	17°	3.5	4 bar	211328
DN 40	100	11	7	15°	7	4 bar	211329
DN 50	100	10	6	15°	8	4 bar	211330

A, B, C and E are in mm; D is in degrees. Movement directions are shown in the technical drawing.

Installation Note: Install the flanges concentrically and free from mechanical stress. Do not twist the bellows, exceed the stated movement limits or allow it to support the piping weight.

