

**Z-Axis precision
manipulator, stainless
steel, DN 100 CF**



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Z-Axis manipulator

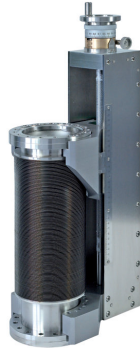
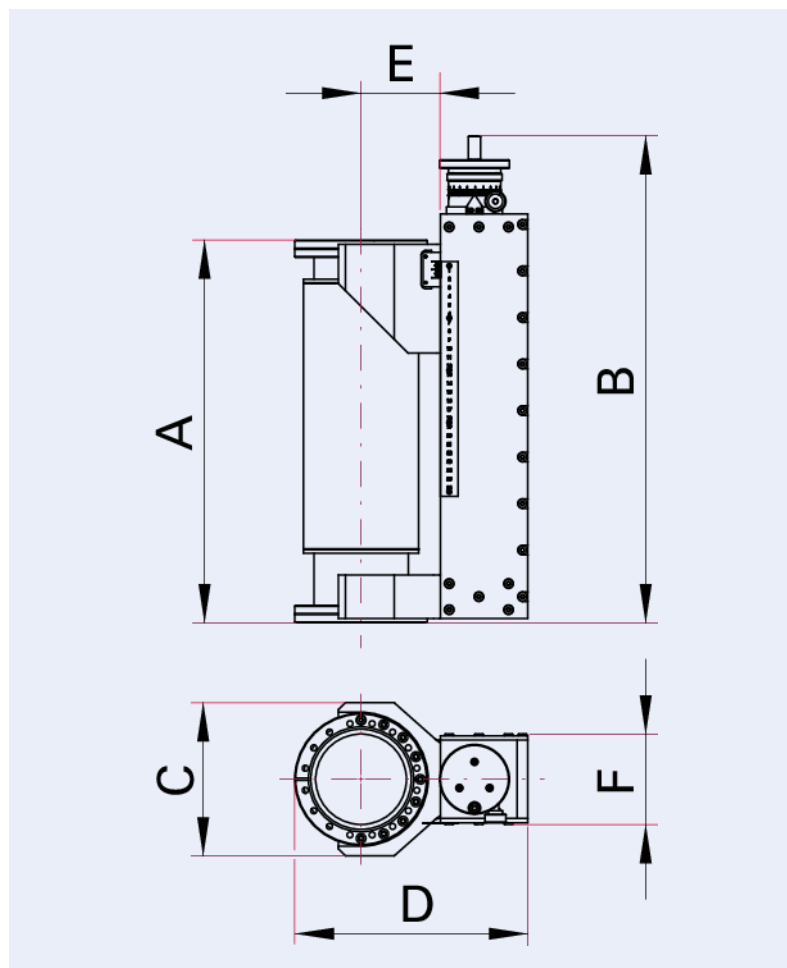


Illustration only

Z-Axis precision manipulator, stainless steel, DN 100 CF

- Recirculating ball bearing guides and recirculating ball screw drive
- Zero backlash and no slip-stick effect
- Guide and drive are wear-free and maintenance-free
- Extremely stable design concept minimizes position offset due to pressure changes
- Fixing brake prevents independent movement
- Connection flange with through holes, traversable flange with threaded holes
- Adjustable zero set point

Dimensions



A	190 - 490 mm
B	610 mm
C	176 mm
D	267 mm
E	91 mm
F	104 mm

Technical Data	Z-Axis precision manipulator, stainless steel, DN 100 CF
Pitch of ball screw drive	2 mm/Rotation
Bellows guidance necessary	No
Operating temperature	-15 – 80 °C
Mounting orientation	Arbitrary
Tightness	$<1 \cdot 10^{-11}$ Pa m ³ /s $<7.5 \cdot 10^{-11}$ Torr l/s $<1 \cdot 10^{-10}$ mbar l/s
Stroke	300 mm 11.81103 inch
Maximum allowable payload	20 kg 44.09 lb
Resolution	5 µm
Repeatable precision	5 µm
Connection flange	DN 100 CF
Pressure range	$1 \cdot 10^{-10}$ hPa – to ambient pressure
Inner diameter	DN 40: 38 mm; DN 63: 65 mm; DN 100: 102 mm
Material	Stainless steel (bellows: 316L, flange and tube 304L, housing 304)

Order number	Z-Axis precision manipulator, stainless steel, DN 100 CF
Z-Axis precision manipulator, stainless steel, DN 100 CF	420MZA100-300

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Pfeiffer Vacuum Components & Solutions GmbH Germany
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