



# KF FLEXIBLE BELLWS SPECIFICATION SHEET

The KF series of flanges and fittings include small size vacuum components having interface dimensions defined by the International Standards Organization.

## MATERIAL

- 304 stainless steel
- 316/316L stainless steel available upon request

## FINISH

- Standard matte finish

## DEFLECTION

- Axial: approximately +15% and -25% of Live Length
- Lateral: approximately 10% of Live Length

## PRESSURE RANGE

Limiting pressure is  $10^{-8}$  Torr. Standard components can be used to slight overpressure of 0-5 psi, with an overpressure ring.

## MANUFACTURING & ASSEMBLY

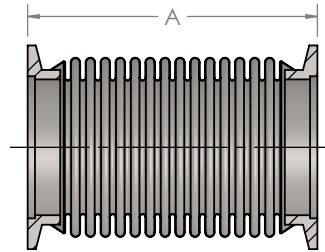
The HIS manufacturing facility is located in Hillsboro, Oregon. HIS uses top quality equipment and the latest orbital welding techniques. All welding is performed to applicable specifications and accepted industry standards.

## PACKAGING AND PROTECTION

QA/QC will verify that all components are suitably packaged and identified per the appropriate specifications.

## TECHNICAL APPLICATIONS INFORMATION

The staff at HIS is always ready to discuss your application. In most cases, it is possible to provide literature references for points discussed here.



| Part No.   | Flange Size | Nominal I.D. | Nominal O.D. | Wall  | A     | Pitch | Working Pressure 70° F | Static Bend Radius 70° F |
|------------|-------------|--------------|--------------|-------|-------|-------|------------------------|--------------------------|
| KF-16FB4.2 | 0.750       | 0.795        | 1.120        | 0.008 | 4.200 | 0.138 | VAC                    | 1.20                     |
| KF-16FB6   | 0.750       | 0.795        | 1.120        | 0.008 | 6.000 | 0.138 | VAC                    | 1.20                     |
| KF-16FB8   | 0.750       | 0.795        | 1.120        | 0.008 | 8.000 | 0.138 | VAC                    | 1.20                     |
| KF-25FB4.2 | 1.000       | 0.992        | 1.390        | 0.008 | 4.200 | 0.146 | VAC                    | 1.50                     |
| KF-25FB6   | 1.000       | 0.992        | 1.390        | 0.008 | 6.000 | 0.146 | VAC                    | 1.50                     |
| KF-25FB8   | 1.000       | 0.992        | 1.390        | 0.008 | 8.000 | 0.146 | VAC                    | 1.50                     |
| KF-40FB4.2 | 1.500       | 1.484        | 2.130        | 0.008 | 4.200 | 0.180 | VAC                    | 1.75                     |
| KF-40FB6   | 1.500       | 1.484        | 2.130        | 0.008 | 6.000 | 0.180 | VAC                    | 1.75                     |
| KF-40FB8   | 1.500       | 1.484        | 2.130        | 0.008 | 8.000 | 0.180 | VAC                    | 1.75                     |
| KF-50FB4.2 | 2.000       | 1.960        | 2.570        | 0.008 | 4.200 | 0.190 | VAC                    | 2.25                     |
| KF-50FB6   | 2.000       | 1.960        | 2.570        | 0.008 | 6.000 | 0.190 | VAC                    | 2.25                     |
| KF-50FB8   | 2.000       | 1.960        | 2.570        | 0.008 | 8.000 | 0.190 | VAC                    | 2.25                     |

All measurements are listed in inches. Custom lengths available upon request. Contact us for thin wall bellows information.