

Superior quality and accuracy



## The Component Family

High vacuum and ultra high vacuum  
fittings & feedthrough family

# Family Overview



**ISO-KF FITTING FAMILY  
DN 10 TO DN 50**

INFICON ISO-KF fittings are manufactured according ISO 2861/1, DIN 28403 and Pneurop 6606. These quality fittings are the standard vacuum components for all vacuum and high vacuum applications. They are designed and tested for leak rates less than  $1 \times 10^{-9}$  mbarl/s.

This line includes a wide range of:

- connecting elements
- seals and centering rings
- flanges
- pipe fittings
- metal bellows and hoses
- PVC and rubber hoses
- transition pieces/ reducers

This line is available in aluminum or stainless steel 304 or 316L.



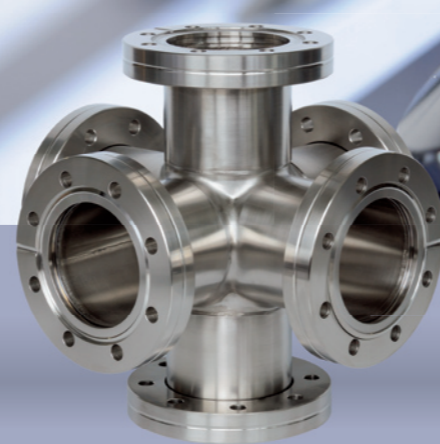
**ISO-K / ISO-F FITTING FAMILY  
DN 63 TO DN 630 / 1000**

INFICON ISO-K quality fittings are manufactured according ISO 1609, DIN 28404 and Pneurop 6606. These large diameter fittings are the standard vacuum components for all vacuum and high vacuum lines. They are designed and tested for leak rates less than  $1 \times 10^{-9}$  mbarl/s.

This line includes a wide range of:

- clamp & claw connecting elements
- seals & centering rings (up to DN 1000)
- flanges
- pipe fittings
- metal bellows and hoses
- transition pieces/ reducers
- collar flanges with retaining ring (ISO-F)

This line is available made of stainless steel 304 or 316L. Partly aluminum and nickel plated steel is available too.



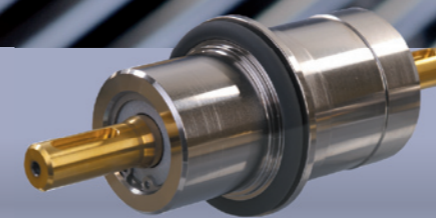
**CF FITTING FAMILY  
DN 16 TO DN 250 / 350**

INFICON CF quality fittings are manufactured according ISO 3669 and the latest TS/ISO 3669-2 standard. These Ultra high vacuum fittings are designed for UHV applications down to  $1 \times 10^{-12}$  mbar and bakeout temperatures up to 400°C.

This line includes a wide range of:

- connecting elements
- all metal gaskets
- flanges
- pipe fittings
- metal bellows and hoses
- transition pieces/ reducers

This line is available made of stainless steel 304L or in the higher graded 316LN ESR/ESU.



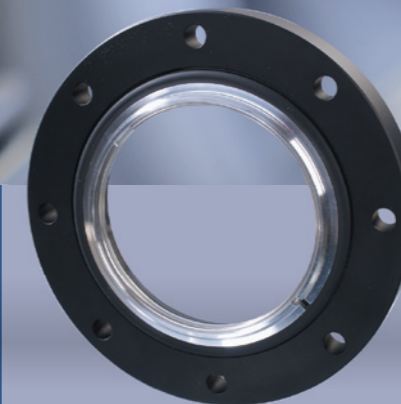
**MECHANICAL  
FEEDTHROUGH FAMILY  
DN 16 TO DN 63**

The huge variety of mechanical feedthroughs offers the right device for demanding applications, no matter if it serves e.g. in an OEM customers coating chamber or in your applied research project under laboratory conditions.

Mechanical feedthroughs are available as:

- Rotary Feedthrough
- Rotary/linear combination feedthrough
- Linear feedthrough

Available flange designs ISO-KF/ISO-K and CF corresponds to our fitting line. All feedthroughs are suited to work in vacuum systems with leak rates up to  $1 \times 10^{-9}$  mbarl/s. For UHV needs an all metal designed feedthrough is available.



**VIEWPORT FAMILY  
DN 16 TO DN 160**

A wide range of industrial approved viewports make this line fitting into nearly all applications where a view port is needed.

Viewports are available in:

- borosilicate glass
- kodial glass
- sapphire glass

Available flange designs ISO-KF/ISO-K/ISO-F and CF corresponds to our fitting line.

All viewports are at least He-leak tight up to  $1 \times 10^{-9}$  mbarl/s. For UHV needs the CF flanged and metal sealed UHV viewports are best suited.



**ELECTRICAL  
FEEDTHROUGH FAMILY  
DN 16 TO DN 40**

Inficon offers economically priced ISO-KF flanged feedthroughs which can be found in all standard vacuum applications all over the world for many years. In addition to this feedthroughs a choice of connectors for vacuum and atmosphere side of the vacuum chamber is configured.

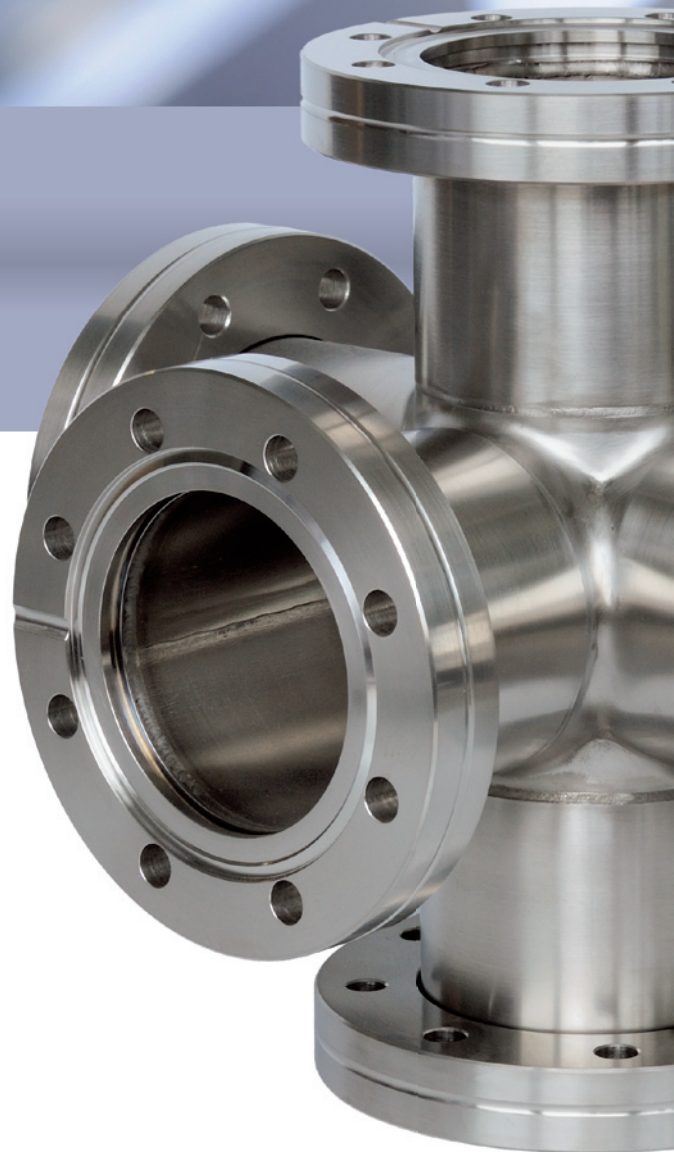
For UHV applications CF flanged feedthroughs are available in different sizes and technical specifications.

For special demand our BNC/MHV Coaxial Feedthroughs, based on MIL-C-39012A, is available in 3 different flange design / sizes and in 5 different specification ranges.



## **INFICON COMPONENTS FAMILY ADVANTAGES AT A GLANCE**

- Competitively priced
- 100% leak tested to less than  $1 \times 10^{-9}$  mbar-l-s
- Complete fitting & feedthrough component program for ISO-KF, ISO-K, ISO-F and CF Flange designs
- Design and measures follow strictly international respected standards
- Surface finish, welds, material specifications and cleanliness meet or exceed high vacuum specifications
- 98% of the component line is available even in bigger quantities directly from stock for immediate worldwide delivery



## EXCELLENT CUSTOMER SUPPORT IS A COMMITMENT

INFICON provides a global network of sales and service centers. These centers are staffed with local service and application experts who can assist you in choosing the best solution for your individual product application and provide fast support if service is needed.

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Due to our continuing program of product improvements, specifications are subject to change without notice.

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