

## Rotary Feedthroughs ISO-KF / ISO-K

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INFICON's huge variety of mechanical feedthroughs offers the right device for all demanding applications, no matter if it serves e.g. in coating application chambers or in your applied research project under laboratory conditions.

The 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  $1 \times 10^{-9}$  mbar/s. For UHV an all metal designed feedthrough is also available.



### BENEFITS

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- For transmitting high torque
- With FPM shaft seal and ball bearings
- 2011/65/EU RoHS compliant

### ORDER INFORMATION

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Type	FRH016-H	FRH025-H	FRH040-H	FRH063-H
FRH016-H Rotary feedthrough DN 16 ISO-KF	214-300			
FRH025-H Rotary feedthrough DN 25 ISO-KF		214-302		
FRH040-H Rotary feedthrough DN 40 ISO-KF			214-304	
FRH063-H Rotary feedthrough DN 63 ISO-K				214-306

## SPECIFICATIONS

Type		FRH016-H	FRH025-H	FRH040-H	FRH063-H
Vacuum connection		DN 16 ISO-KF	DN 25 ISO-KF	DN 40 ISO-KF	DN 63 ISO-KF
Feedthrough/seal		FPM	FPM	FPM	FPM
Shaft measure	mm	Ø5	Ø8	Ø12	Ø20
Transferable torque	nm	1.5	6	25	100
Rotational speed (1)	RPM	1500	1000	750	500
Idling torque under vacuum	N•cm	≤ 3	≤ 4	≤ 5	≤ 10
Starting torque under vacuum	N•cm	≤ 6	≤ 8	≤ 10	≤ 20
Shaft load vacuum sided					
Radial force	N	60	150	250	500
Axial force	N	30	50	60	100
Service life	Revolutions	20 000 000	20 000 000	20 000 000	10 000 000
Tightness, static	mbar•L/s	1 x 10 <sup>-9</sup>	1 x 10 <sup>-9</sup>	1 x 10 <sup>-9</sup>	1 x 10 <sup>-9</sup>
Pressure (absolute)		1 x 10 <sup>-9</sup> mbar ... 1 bar	1 x 10 <sup>-9</sup> mbar ... 1 bar	1 x 10 <sup>-9</sup> mbar ... 1 bar	1 x 10 <sup>-9</sup> mbar ... 1 bar
Operating temperature	°C	50	50	50	50
Bakeout temperature	°C	110	110	110	110
Materials exposed to process media		stainless steel 420/1.4021, aluminum 6082, elastomer FPM	stainless steel 420/1.4021, aluminum 6082, elastomer FPM	stainless steel 420/1.4021, aluminum 6082, elastomer FPM	stainless steel 420/1.4021, aluminum 6082, elastomer FPM
Weight	kg	0.1	0.2	0.6	2

(1) When a reduced service life is acceptable, the rotational can be increased by up to a factor of two

(2) relevant to DN63 ISO-K:

Centering ring not included in delivery, CR aluminum Part No. 212-251 / FPM Stainless steel Part No. 212-281 .



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