

FLANGES · 16

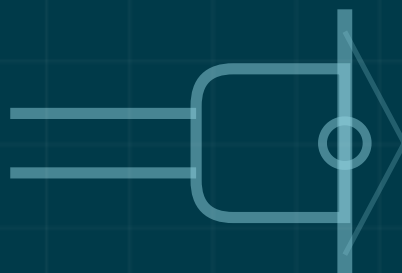
KF / Vacuum Flanges

Stainless-steel vacuum flange fittings — ISO-KF weld-nipple small flanges and ISO-K clamp / collar flanges — for vacuum, analytical and high-purity systems. ISO 2861 / DIN 28403 · ISO 1609 / DIN 28404.

ISO-KF

ISO-K

QF / NW


KF16-50 weld flange

ISO-KF

ISO-K 63-250

clamp/collar

ISO-K

SS 316/316L

stainless

MATERIAL

O-ring + clamp

SEAL

KF / Vacuum Flanges

— 01 / SPECIFICATION

STANDARDS & CONSTRUCTION

ISO-KF (small flange)

ISO-KF

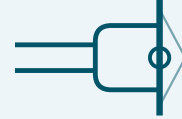
Sizes / OD KF16 Ø30 · KF20/25 Ø40 · KF32/40 Ø55
· KF50 Ø75

Type Weld-nipple flange (tube / hose)

Material SS 316 / SS 304

Assembly Clamp + centering ring + O-ring

Standard ISO 2861 · DIN 28403



KF / Vacuum Flanges — schematic (not to scale)

ISO-K (large flange)

ISO-K

Sizes ISO-K 63 · 100 · 160 · 200 · 250

Type Weld · clamp · collar-ring flange

Material SS 316L · AISI 304

Assembly Double claws / bolted collar

Standard ISO 1609 · DIN 28404

APPLICATIONS

- ◆ Vacuum pumps, chambers & manifolds
- ◆ Analytical & laboratory instruments
- ◆ Semiconductor & thin-film coating
- ◆ High-purity gas & process lines
- ◆ Flexible bellows-hose connections

MATERIAL GRADES

Standard	Grades
ISO-KF weld flanges	SS 316 / SS 304
ISO-K 63 weld flange	SS 316L (machined)
ISO-K clamp / collar	AISI 304 · DIN 28404 + ISO 1609
O-ring / seal	NBR · FKM (Viton) · centering ring

HOW TO ORDER

1 · Product	ISO-KF / ISO-K vacuum flange
2 · Size	e.g. KF25 / ISO-K 100
3 · Type	weld-nipple / clamp / collar
4 · Material	SS 316 / 316L
5 · O-ring	FKM / NBR
6 · Accessories	clamp + centering ring
7 · Cert	EN 10204 3.1

KF25 · weld-nipple flange
SS 316 · Ø40 OD × 20 mm
FKM O-ring + centering ring
Wing-nut clamp

STANDARDS & FACING

ISO 2861

DIN 28403

ISO 1609

DIN 28404

ISO 3669

EN 10204 3.1

ISO 9001:2015

Vacuum Flange Dimensions

— 02 / DIMENSIONS

ISO-KF SMALL FLANGES — MM

ISO-KF weld-nipple flanges · stainless steel				
Size	Flange OD	Bore	Tube Ø	Length
KF16	30	16	17.2	20
KF20	40	20	22.2	20
KF25	40	24	26.2	20
KF32	55	34	38.0	25
KF40	55	39	41.2	25
KF50	75	50	52.4	25

Weld-nipple type, stainless SS 316 / SS 304, for tube & hose (per Aeroflex AEF-0085 drawings).
KF10/16 share Ø30; KF20/25 Ø40; KF32/40 Ø55; KF50 Ø75 — to ISO 2861 / DIN 28403.

FLEXIBLE BELLOWS

ISO-KF flexible bellows hose (NW16–NW50) in stainless steel — extendable and bendable to custom length/angle for vibration isolation and misalignment; ~100 mm free length, 0.15 mm wall. O-rings in NBR or FKM (Viton). Dimensions per drawing / on request.

ISO-K LARGE FLANGES — MM

ISO-K collar / claw flanges · DIN 28404 + ISO 1609				
Size	OD (A)	Bolt-circle (B)	Seat (C)	Bolt holes
ISO-K 63	130	110	95.5	4 × Ø9
ISO-K 100	165	145	130.5	8 × Ø9
ISO-K 160	225	200	180.5	8 × Ø11
ISO-K 200	285	260	240.5	12 × Ø11
ISO-K 250	335	310	290.5	12 × Ø11

Collar / claw clamped flanges, AISI 304 (per Linnemann catalogue). ISO-K 63 weld flange also in SS 316L, Ø95 OD × Ø76.1 tube (Aeroflex AEP-9606). Full geometry per DIN 28404 + ISO 1609.