DATA SHEET - COPPER GASKETS



INTRODUCTION

The basic seal for the CF flange system is an oxygen free grade (OF) copper gasket that is compressed between the knife-edges of two CF flanges to create a seal capable of achieving ultrahigh vacuum pressures. Copper gaskets have a temperature range of −200°C up to 450°C. These gaskets are precisely punched, de-burred, chemically treated and packaged to eliminate and prevent surface imperfections. CF copper gaskets provide one reliable seal per use. Use a new copper gasket each time you install a CF sealing assembly. Gaskets can be annealed for use with viewports etc and plated for specific environmental requirements.

GENERAL SPECIFICATIONS FOR COPPER GASKETS

Gaskets are manufactured from OF copper that meets the BS EN1652 Cu-OF standard, to suit all standard CF flanges. Rated to 450°C.

All gaskets are 2.032mm thick (0.08" +/-0.003) OF Copper. (Except THK versions which are 3.65mm thick)

Standard gaskets have a hardness of 75 VPN.
Annealed gaskets have a hardness of 38-42 VPN.
(annealing is carried out in an atmosphere of 90% Hydrogen / 10% Nitrogen.

Silver plated gaskets are plated with 7-9 microns of silver (99% pure) Rated to 450°C.

Surface finish
We work to a standard of scratches max. depth 0.02mm, max. width 0.08mm (.001" x .003").

Copper Gaskets

Part code	Outer Diameter (mm)	Inner Diameter (mm)	Thickness (mm)
CG10	13.4	8.5	2.03
CG10-SD	13.4	n/a	2.03
CG16	21.25	16.0	2.03
CG16-SD	21.25	n/a	2.03
CG25	32.8	25.6	2.03
CG25-SD	32.8	n/a	2.03
CG40	48.15	36.86	2.03
CG40-39	48.15	38.7	2.03
CG40-39.2	48.15	39.2	2.03
CG40-SD	48.15	n/a	2.03
CG50	61.6	50.9	2.03
CG50-SD	61.6	n/a	2.03
CG63	82.4	63.45	2.03
CG63-82.5/72	82.4	72	2.03
CG63-SD	82.4	n/a	2.03
CG75	91.4	76.4	2.03
CG75-SD	91.4	n/a	2.03
CG100	120.5	101.7	2.03

Part code	Outer Diameter (mm)	Inner Diameter (mm)	Thickness (mm)
CG100-SD	120.5	n/a	2.03
CG125	141.4	127.2	2.03
CG125-SD	141.4	n/a	2.03
CG160	171.1	152.5	2.03
CG160-SD	171.1	n/a	2.03
CG200	222.0	203.25	2.03
CG200-SD	222.0	n/a	2.03
CG250-273-1	272.87	254.2	2.03
CG250-270-1	270.1	254.0	2.03
CG250-SD	272.87	n/a	2.03
CG275	294.3	274.1	2.03
CG275-SD	294.3	n/a	2.03
CG300	326.2	307.6	2.03
CG300-SD	326.2	n/a	2.03
CG350	376.7	356.5	2.03
CG350-SD	376.7	n/a	2.03
CG400	423.9	405.0	2.03
CG400-SD	423.9	n/a	2.03

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Copper Gaskets - Annealed

Part code	Outer Diameter (mm)	Inner Diameter (mm)	Thickness (mm)
CG10A	13.4	8.5	2.03
CG16A	21.25	16.0	2.03
CG25A	32.8	25.6	2.03
CG40A	48.15	36.86	2.03
CG40-39A	48.15	38.7	2.03
CG40-39.2A	48.15	39.2	2.03
CG40-3.65THK	48.15	36.86	3.65
CG40-39.2-3.65THK	48.15	39.2	3.65
CG50A	61.6	50.9	2.03
CG63A	82.4	63.45	2.03
CG63-82.5/72A	82.4	72	2.03
CG75A	91.4	76.4	2.03

Part code	Outer Diameter (mm)	Inner Diameter (mm)	Thickness (mm)
CG100A	120.5	101.7	2.03
CG100-3.65THK	120.5	101.7	3.65
CG125A	141.4	127.2	2.03
CG160A	171.1	152.5	2.03
CG200A	222.0	203.25	2.03
CG250-273-1A	272.87	254.2	2.03
CG250-270-1A	270.1	254.0	2.03
CG275A	294.3	274.1	2.03
CG300A	326.2	307.6	2.03
CG350A	376.7	356.5	2.03
CG400A	423.9	405.0	2.03

Copper Gaskets - Silver Plated

Part code	Outer Diameter (mm)	Inner Diameter (mm)	Thickness (mm)
CG10AG	13.4	8.5	2.03
CG16AG	21.25	16.0	2.03
CG25AG	32.8	25.6	2.03
CG40AG	48.15	36.86	2.03
CG40-39AG	48.15	38.7	2.03
CG40-39.2AG	48.15	39.2	2.03
CG50AG	61.6	50.9	2.03
CG63AG	82.4	63.45	2.03
CG63-82.5/72AG	82.4	72	2.03
CG75AG	91.4	76.4	2.03

Part code	Outer Diameter (mm)	Inner Diameter (mm)	Thickness (mm)
CG100AG	120.5	101.7	2.03
CG125GAG	141.4	127.2	2.03
CG160AG	171.1	152.5	2.03
CG200AG	222.0	203.25	2.03
CG250-273-1AG	272.87	254.2	2.03
CG250-270-1AG	270.1	254.0	2.03
CG275AG	294.3	274.1	2.03
CG300AG	326.2	307.6	2.03
CG350AG	376.7	356.5	2.03
CG400AG	423.9	405.0	2.03

Copper Gaskets - Silver Plated Annealed

Part code	Outer Diameter (mm)	Inner Diameter (mm)	Thickness (mm)
CG10AGA	13.4	8.5	2.03
CG16AGA	21.25	16.0	2.03
CG25AGA	32.8	25.6	2.03
CG40AGA	48.15	36.86	2.03
CG40-39AGA	48.15	38.7	2.03
CG40-39.2AGA	48.15	39.2	2.03
CG50AGA	61.6	50.9	2.03
CG63AGA	82.4	63.45	2.03
CG63-82.5/72AGA	82.4	72	2.03
CG75AGA	91.4	76.4	2.03

Part code	Outer Diameter (mm)	Inner Diameter (mm)	Thickness (mm)
CG100AGA	120.5	101.7	2.03
CG125GAGA	141.4	127.2	2.03
CG160AGA	171.1	152.5	2.03
CG200AGA	222.0	203.25	2.03
CG250-273-1AGA	272.87	254.2	2.03
CG250-270-1AGA	270.1	254.0	2.03
CG275AGA	294.3	274.1	2.03
CG300AGA	326.2	307.6	2.03
CG350AGA	376.7	356.5	2.03
CG400AGA	423.9	405.0	2.03

Non ISO size Copper Gaskets / Annealed / Silver Plated / Silver Plated Annealed

Part code	Outer Diameter (mm)	Inner Diameter (mm)	Thickness (mm)
CG-US14	313.1	300	2.03
CG-US14A	313.1	300	2.03
CG-US14AG	313.1	300	2.03
CG-US14AGA	313.1	300	2.03

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