

Application Note: Comparison of Specifications of InstruTech CVG and Brooks Automation/Granville-Phillips 275 Convector® Gauges

Specifications	InstruTech CVG	Convector®
measurement range	1x10 ⁻⁴ to 1000 Torr 1x10 ⁻⁴ to 1333 mbar 1x10 ⁻² Pa to 133 kPa	1x10 ⁻⁴ to 1000 Torr 1x10 ⁻⁴ to 1333 mbar 1x10 ⁻² Pa to 133 kPa
resolution	1x10 ⁻⁴ Torr, 1x10 ⁻⁴ mbar, 1x10 ⁻² Pa	1x10 ⁻⁴ Torr, 1x10 ⁻⁴ mbar, 1x10 ⁻² Pa
temperature - operating range	0 to 50 °C	0 to 50 °C
temperature - bakeout	150 °C maximum, non-operating, with cable or electronics removed	150 °C maximum, non-operating, with cable or electronics removed
humidity - operating range	0 to 95% RH non-condensing	0 to 95% RH non-condensing
mounting orientation	horizontal	horizontal
materials exposed to vacuum	gold-plated tungsten, 304 & 316 stainless steel, glass, nickel, Teflon	gold-plated tungsten, 304 stainless steel, glass, Kovar, alumina, NiFe alloy, polyimide
internal volume	26 cm ³ (1.589 in ³)	40 cm ³ (2.5 in ³)
internal surface area	59.7 cm ² (9.25 in ²)	218.8 cm ² (33.92 in ²)
leak integrity	< 1x10 ⁻⁹ atm cc/sec He	< 1x10 ⁻⁹ atm cc/sec He
weight	85 gm (3 oz)	85 gm (3 oz)

Part Number Cross Reference	InstruTech CVG	GP Convector®
Standard Gauges		
1/8"NPT - 1/2" tube	CVG 101 G A	275071
NW16KF	CVG 101 G B	275203
NW25KF	CVG 101 G C	275196
NW40KF	CVG 101 G D	275316
1-1/3" Mini-CF / NW16CF Mini-Conflat®	CVG 101 G E	275256
2-3/4" CF / NW35CF Conflat®	CVG 101 G F	275238
1/4" Cajon® 4VCR female	CVG 101 G G	275185
1/2" Cajon® 8VCR female	CVG 101 G H	275282
Replacement Gauges for Mini-Convector® Modules		
1/8"NPT - 1/2" tube	CVG 102 G A	275810
NW16KF	CVG 102 G B	275816
NW25KF	CVG 102 G C	275817
NW40KF	CVG 102 G D	275818
1-1/3" Mini-CF / NW16CF Mini-Conflat®	CVG 102 G E	275813
2-3/4" CF / NW35CF Conflat®	CVG 102 G F	275814
1/4" Cajon® 4VCR female	CVG 102 G G	275811
1/2" Cajon® 8VCR female	CVG 102 G H	275864

Convector® is a registered trade mark of Brooks Automation/Granville-Phillips.
Cajon® is a registered trade mark of the Swagelok Company.
Conflat® is a registered trade mark of Varian Vacuum Technologies



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