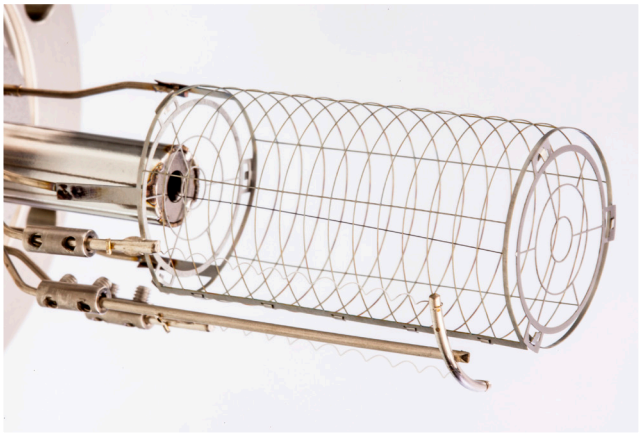
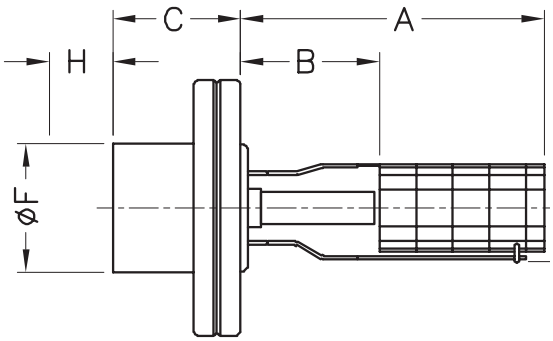
VIG Ion Gauge

When operating below the Pirani gauge range (10^{-3} mbar), an ion gauge can be used to measure pressure.





There are a range of gauge heads and filament materials to cover specific pressure ranges and vacuum requirements in this region. The VACGEN ion gauge heads operate using the same principle but vary in design and construction to most accurately monitor pressures within specific ranges.

VIG Series Ion Gauges														
Flange Size OD mm	Flange Size OD inch	Bakeout Temp1 °C	Filament Materi-als[2]	Sensi-tivity	Gauge Pressure Range mbar	X-ray Limit in mbar	Dim A mm	Dim B mm	Dim C mm	Dim D mm	Dim E mm	Dim F mm	Dim G mm	Dim H mm	Order Code
70	2.75	400 (250)	2 x W	19	10^{-3} to 10^{-11}	3 x 10^{-11}	83	28	35	24	16	34	70	34	ZVIG173
70	2.75	400 (250)	2 x Th Ir	19	10^{-3} to 10^{-11}	3 x 10^{-11}	83	28	35	24	16	34	70	34	ZVIG18
70	2.75	400 (250)	2 x W	17	10^{-3} to 10^{-10}	3 x 10^{-10}	72	28	35	21	14	34	70	34	ZVIG223
70	2.75	400 (250)	2 x Th Ir	17	10^{-3} to 10^{-10}	3 x 10^{-10}	72	28	35	21	14	34	70	34	ZVIG24

Notes
(1) With leads connected, maximum temperature is 250°C
(2) W = tungsten, Th Ir = thoriated iridium
(3) Cannot be used with the IGC5

Ion Gauge Heads - Spare Filaments	
Gauge Head	Order Code
ZVIG17	ZWW17
ZVIG18	ZTIR23
ZVIG22	ZWW17
ZVIG24	ZTIR23