

BAG055

Mini Bayard Alpert Vacuum Gauge Heads - Passive

The hot cathode ionization passive vacuum gauge head BAG055 is a miniature, metal enclosed Bayard-Alpert sensor designed for use with the Vacuum Gauge Controller VGC083A. BAG055 has an electron bombardment (EB) degas and is capable of pressure measurement down to 1×10⁻⁹ mbar. Thanks to its compact size and a large selection of possible flanges and fittings, BAG055 can be installed in every vacuum system easily and with minimal footprint. BAG055 is offered with a dual yttrium oxide coated iridium filament and can be baked up to 200 °C. The high accuracy makes BAG055 a cost effective and robust choice for general vacuum industrial or R&D applications.



ADVANTAGES

- Long standing, reliable and proven gauge head design
- Drop-in replacement thanks to its compact size, large choice of connection flanges and fittings
- · Dual, yttrium oxide coated iridium filament
- · Electron bombardment (EB) degassing

APPLICATIONS

- General vacuum measurement and control in the low to high vacuum range
- Industrial and analytical applications



BAG055

ORDERING INFORMATION	
BAG055	
BA EB-degas, 3/4" tube, Y ₂ O ₃ coated dual iridium filament (Ir)	399-760
BA EB-degas, DN 16 ISO-KF, Y ₂ O ₃ coated dual iridium filament (Ir)	399-761
BA EB-degas, DN 25 ISO-KF, Y ₂ O ₃ coated dual iridium filament (Ir)	399-762
BA EB-degas, DN 40 ISO-KF, Y ₂ O ₃ coated dual iridium filament (Ir)	399-763
BA EB-degas, DN 16 CF-R, Y ₂ O ₃ coated dual iridium filament (Ir)	399-764
BA EB-degas, DN 40 CF-R, Y ₂ O ₃ coated dual iridium filament (Ir)	399-765
BA EB-degas, 8 VCR female, Y ₂ O ₃ coated dual iridium filament (Ir)	399-766
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SPECIFICATIONS

Туре	BAG055	
Measurement system	hot cathode ionization	
Electrode system configuration	Bayard-Alpert	
Measurement range (N ₂)	1.3 × 10 ⁻⁹ 6.7 × 10 ⁻² mbar	
	1 × 10 ⁻⁹ 5 × 10 ⁻² Torr	
	1.3 × 10 ⁻⁷ 6.7 × 10 ⁻² Pa	
X-ray limit	5 × 10 ⁻¹⁰ Torr	
Sensitivity (N ₂ , typical)	10 Torr ⁻¹	
Accuracy (N ₂ , typical)	±15%	
Repeatability (N ₂ , typical)	±5%	
Mounting orientation	any	
Admissible temperature		
Bake-out	200 °C	
Degas		
Electron bombardment (EB)	≤3 W	
Standard operating characteristics with VGC083 controller		
Cathode (filament)		
Heating current	2 2.5 A	
Heating voltage	1.5 2 V (dc)	
Potential	+30 V (dc)	
Anode (grid) potential	+180 V (dc)	
Collector potential	0 V	
Materials exposed to vacuum		
Collector	tungsten (W), ø0.010"	
Cathode (filament)	dual yttria coated iridium	
Anode (grid)	etched stainless steel	
Insulator	glass	
Flange	stainless steel AISI 304	
Length	OMERIO 00 00 01 7 11 01 00 1	
Overall	2.7 3.8 in ¹⁾	
Compatible INFICON controller 2)	VGC083A	
	(PN 399-700)	
	(FN 399-100)	

¹⁾ Depending on flange

²⁾ For corresponding cables to connect gauge with the VGC083x controller please check VGC083x Data Sheet tiba59e1 or VGC083x Operating Manual tinb29e1



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