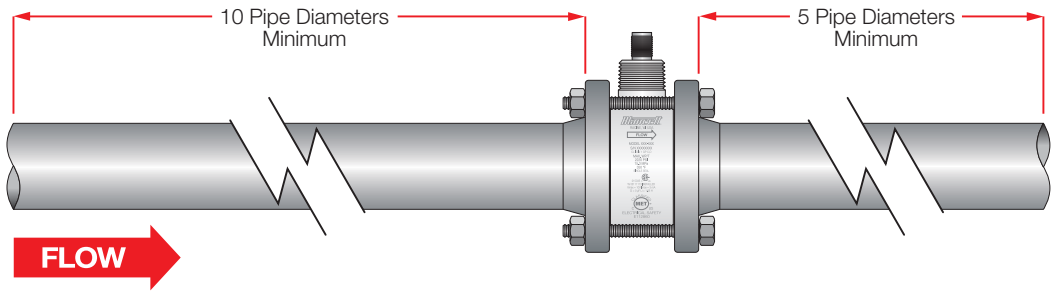
Gas QuikSert® Turbine Flow Meter

When gases need to be measured, look no further than the accurate, rugged Gas QuikSert® meter. This meter provides long service life by offering a durable construction design composed of stainless steel and tungsten carbide shaft and bearings. The unique wafer style design allows for quick installation and easily fits between two flanges. Gas QuikSert® is fully compatible with B2800 Flow Monitors, K-Factor Scalers, Intelligent Converters, and the new B3000 series of flow monitors; pre-configured when purchased together. Gas QuikSert® is compatible with most instruments, PLC's and computers.

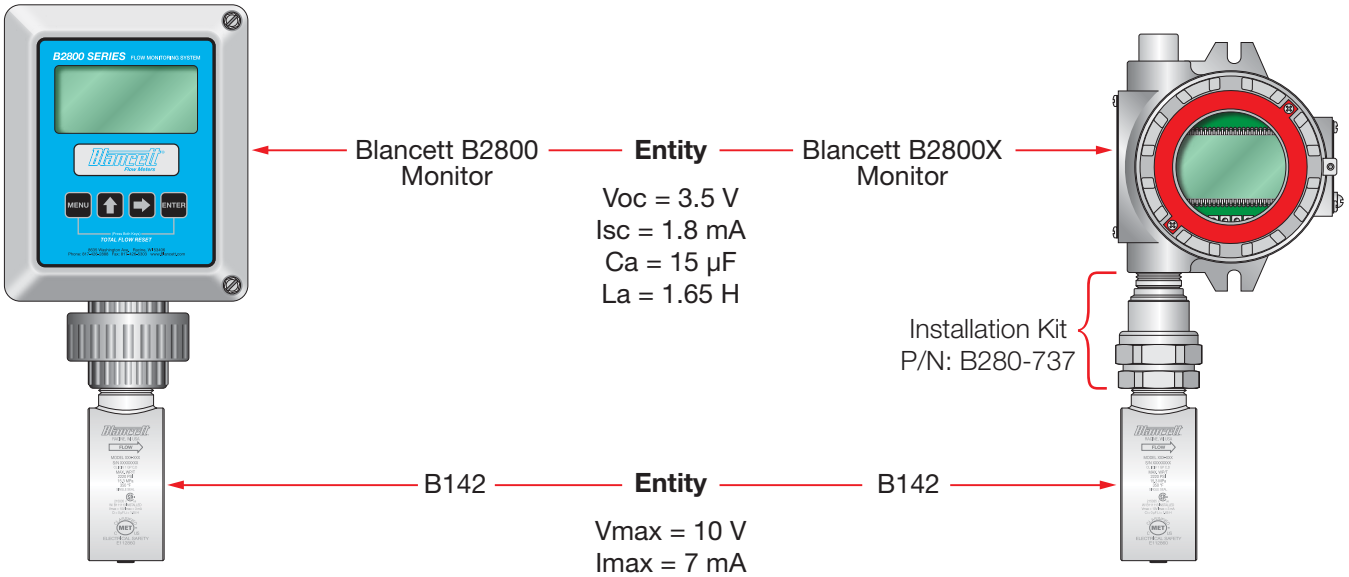
Features and Benefits

- **Consistent, reliable gas flow measurement.**
- **Wafer mounting configuration for limited space requirements.**
- **Light weight, balanced rotor provides instantaneous response to changes in flow.**
- **No mating flange design allows for quick and easy install.**
- **Superior material of construction for high performance in aggressive environments.**

Installation



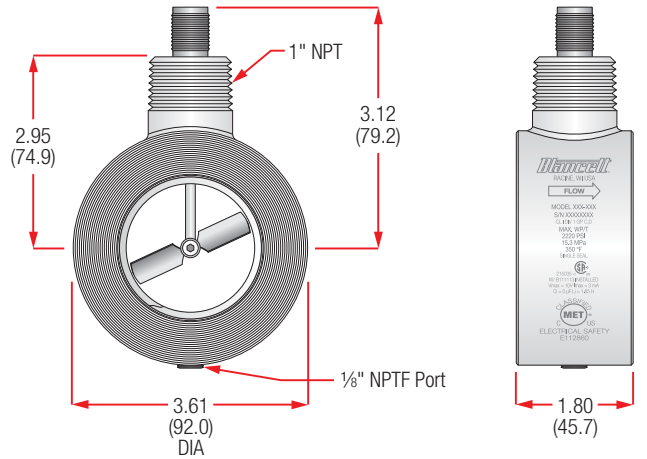
Certification/Compliance



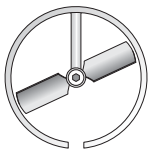
Dimensional Specifications

Mechanical Dimensions: Inches (mm)

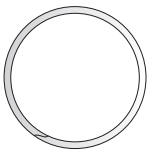
Flow Meter



Repair Kit

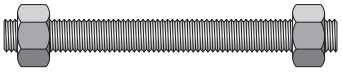


Turbine Assembly

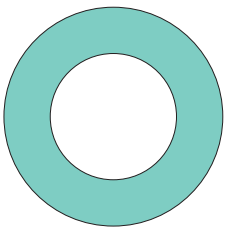


Retaining Ring (2)

Hardware Kit



Bolt/Threaded Rod (4 sets)



Gasket (2)

Specifications

Series B142

Installation	Mounts between two 2" ANSI raised face flanges, ideally sized for 2-inch schedule 40 or 80 pipe; horizontal or vertical orientation
Working Pressure	Vacuum to 2,220 PSIG (15.3 MPa) maximum
Pressure Loss	3 inches of water column (7.5 mbar) maximum (dry air)
Temperature	-40 to +330 ºF (-40 to +165 ºC)
Linearity	±2% of reading over the specified measuring range (see Part Number Construction table below)
System Uncertainty	±1% of reading when integrated with a properly configured Blancett flow monitor or signal conditioner
Repeatability	±0.5% of reading
Output Signal	100 mVpp minimum (with Blancett B111113 magnetic pickup installed)
Nominal K-Factor	See Part Number Construction table below
Materials of Construction	316/316L, 410 and 304 grade stainless steels, tungsten carbide
Certifications	**Intrinsically Safe:** Class I Division 1 Groups C, D [Entity Parameters Vmax = 10V, Imax = 3 mA, Ci = 0 µF and Li = 1.65 H with Blancett B111113 magnetic pickup installed] for US and Canada. Complies with UL 913 and CSA 22.2 No. 157-92 **Explosion-Proof:** Class I Division 1 Groups C, D. Complies with UL1203 and CSA C22.2 No. 30-M1986 **Single Seal:** complies with ANSI/ISA 12.27.01-2003

Part Number Construction

Flow Meter*	Flow Rate		K-Factor	Repair Kit***	Hardware Kit
	ACFM**	MCFD	Pulses/ft³ (Pulses/m³)		
B142-20L	7 - 70	10 - 100	365 (12,900)	B142-20L-KIT	B142-20-150KIT
B142-20M	14 - 210	20 - 300	190 (6,710)	B142-20M-KIT	
B142-20H	35 - 350	50 - 500	85 (3,000)	B142-20H-KIT	

*Does not include magnetic pickup. Order Blancett B111113 Low Drag Pickup
**At 0 PSIG (0 Bar) and 60 ºF (15.6 ºC)
***Compatible with Cameron/NuFlo 2" wafer gas meter

RACINE FEDERATED INC.

Racine Federated Inc. is a private corporation celebrating forty years of continuous operation in Racine, Wisconsin, USA, along with a European location in Thetford, England. The Company is comprised of several divisions that serve the construction, industrial, municipal and commercial markets worldwide. This includes six flow meter divisions representing a variety of measurement technologies including turbine, variable area, hydraulic testing, differential pressure, vortex shedding, and ultrasonic flow measurement. With this unique product mix and a team of dedicated and experienced personnel, RFI offers high quality and cost-effective solutions for most flow measurement applications.

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