Technical Data for CODA-Series Flow Meters and Controllers
100 to 10,000 grams per hour full scale

Standard specifications. Consult Alicat for available options.

SENSOR AND CONTROL PERFORMANCE	
Full Scale Flow Rate Options[1]	100 g/h, 1000 g/h, 10,000 g/h
Flow Accuracy	**Liquid:** ±0.2% of reading or ±0.05% of full scale, whichever is greater **Gas:** ±0.5% of reading or ±0.05% of full scale, whichever is greater
Repeatability	±0.05% of reading or ±0.025% of full scale, whichever is greater
Minimum Measurable Flow	0.2% of full scale
Density Accuracy	±0.005 g/cc
Density Range	0.1–2 g/cc (independent of mass flow measurement)
Viscosity Range	0–200 cP
Zero Stability	±0.05% of full scale (included in the flow accuracy specification)
Temperature Sensitivity	**Mass flow zero shift:** ±0.01% of full scale per °C from tare temperature **Mass flow span shift:** ±0.005% of reading per °C from 25°C
Valve Function	Normally Closed
Typical Control Response Time	<500 ms (T98)

1 Full scale flow range is defined at 15 PSID (water), and correlates with the full scale analog signal.
Increased pressure can achieve higher flow rates, available via digital communication.

MECHANICAL	
Maximum Operating Pressure (Proof)	**100–1000 g/h:** 1500 PSIA **10000 g/h:** 1000 PSIA 3500 PSIA option is available for all ranges
Operating Temperature Range	**Ambient:** 0–60°C **Fluid:** −30–105°C
Ingress Protection	IP40 (IP67 optional, M12 required)
Wetted Materials[2]	FKM, 316L
Process Connections	¼″ VCR Male
Inlet Filter Recommended	**Meter:** 20 microns **Controller:** 1 micron

2 Other wetted materials such as Hastelloy or all-metal seals available. Please contact Alicat.

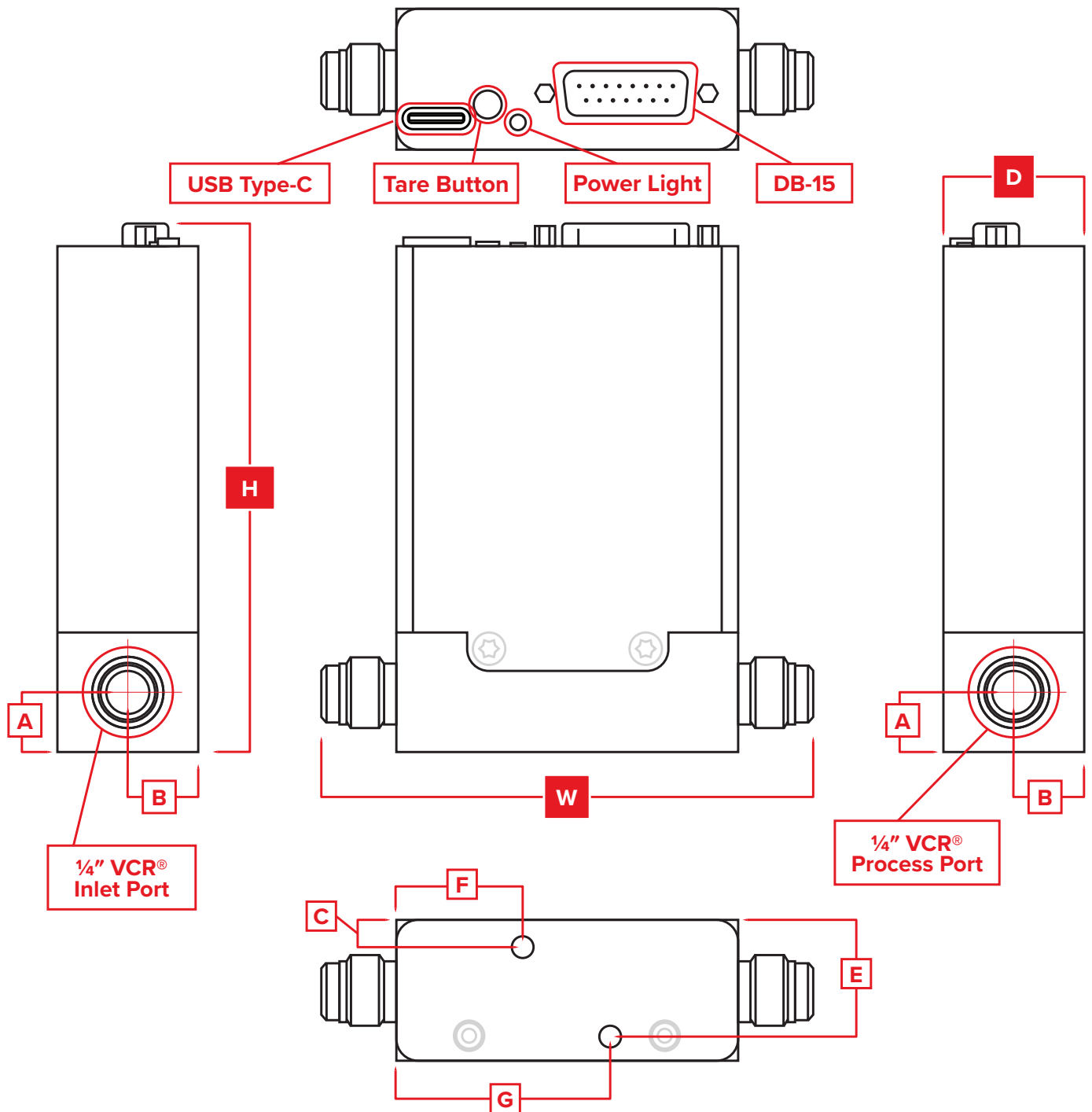| COMMUNICATIONS	
Analog I/O Options	0–5 Vdc, 0–10 Vdc, 4–20 mA
Digital I/O Options	Modbus RTU (over RS-232 or RS-485)
Electrical Connector Options	DB-15 with USB-C (default), M12 (IP67 only)
Power Requirements	**Meter:** 1.4 watts (58 mA at 24 Vdc) via USB-C or DB15/M12 **Controller:** 4 watts (167 mA at 24 Vdc) via DB15/M12 only
Voltage Range (Power)	**Meter:** 5–30 Vdc **Controller:** 12–30 Vdc
Digital Update Rate	50 Hz at 19200 baud
Analog Update Rate	50 Hz

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USB Type-C   Tare Button   Power Light   DB-15

¼" VCR® Inlet Port

¼" VCR® Process Port

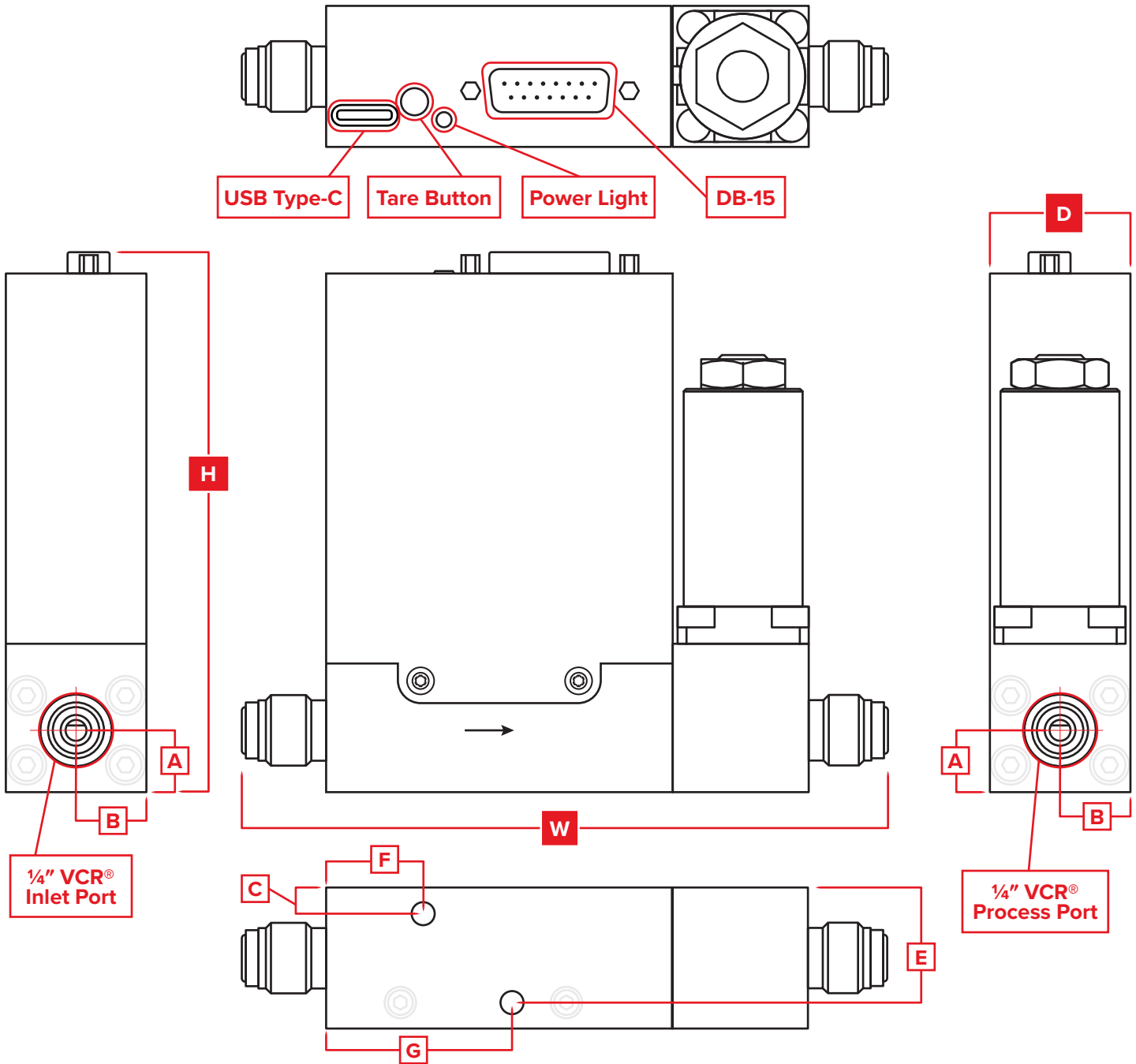| DIMENSIONS									WEIGHT
Type	Height	Width	Depth	A	B	C	E	F	G	
Meter	4.240 in	3.937 in	1.122 in	0.472 in	0.561 in	0.207 in	0.915 in	1.024 in	1.732 in	≈ 1.5 lb
	107.70 mm	100.00 mm	28.50 mm	11.99 mm	14.25 mm	5.26 mm	23.24 mm	26.01 mm	43.99 mm	≈ 0.7 kg

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DIMENSIONS									WEIGHT
Type	Height	Width	Depth	A	B	C	E	F	G	
Controller	4.631 in	5.138 in	1.122 in	0.472 in	0.561 in	0.207 in	0.914 in	1.024 in	1.731 in	≈ 2.0 lb
	117.63 mm	130.51 mm	28.50 mm	11.99 mm	14.25 mm	5.26 mm	23.22 mm	26.01 mm	43.97 mm	≈ 0.9 kg