

FLOWCOM® 1000 DM

DROP METER FOR VIP

Chart's Flowcom® 1000 DM (Drop Meter) System is designed for accurately metering cryogenic liquid in a vacuum insulated pipe system where liquid inventory management is desired. Differential Pressure across the metering element generates very accurate results with no moving parts in the flow stream. No moving parts means: low maintenance, stable calibration, submersible, and a lifetime meter element warranty.

The system module includes a metering element encased in a vacuum insulated housing with Chart's MVE Shrink-Fit Bayonets™ for an easy connection into our standard VIP product. The Flowcom 1000 DM controller is our proprietary flow metering controller. The metering element and the electronic control is designed and manufactured at Flow Instruments in Germany, providing optimum quality and long-term reliability.

The Flowcom 1000 DM module utilizes the differential head from a typical VIP inlet drop (8 feet minimum) to keep the liquid sub-cooled during metering. The meter is available in four sizes: ½", 1", 1 ½" and 2" to match your VIP system requirements.



Flowcom 1000 Display



A Chart Industries Company



Innovation. Experience. Performance.®



PRODUCT HIGHLIGHTS

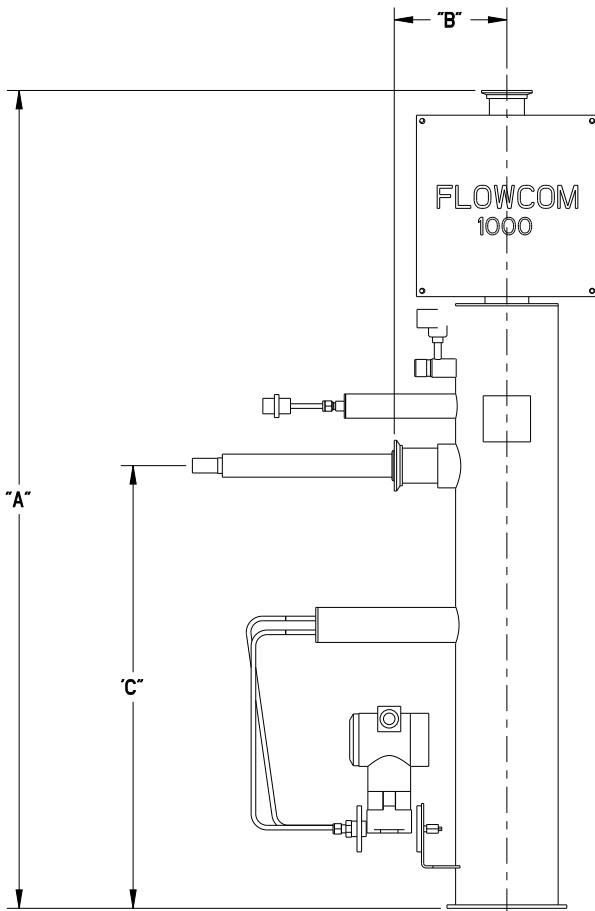
- Ideal for applications that require LIN, LAR, or LOX inventory management
- MVE Shrink-Fit Bayonet™ technology provides a frost-free connection
- Meter section and internal piping fully encased in a vacuum insulated stainless steel housing for minimum heat transfer
- Meter section contains no moving parts: low maintenance, calibration stability and a lifetime warranty
- Flowcom® 1000 Flow Meter Controller with proven technology and control and data options
- 0.3% factory meter calibration enables system accuracies (8 feet minimum drop)
- Digital display with range of units (kg, lb, liters, gallons, cuft, etc.)
- Exclusively designed for Chart's VIP systems for easy module installation
- Available in four sizes: ½", 1", 1 ½" and 2"

*Chart Vacuum Technology® (CVT 10/20):
10 year limited vacuum insulated pipe
warranty, 20 year design life.



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SPECIFICATIONS

MEASURING SYSTEM

Meter Controller	Flowcom 1000
Measurement Method	Bernoulli
Accuracy	Factory Calibration +/- 0.3%

OPERATING CONDITIONS

Temperature	-40 to +55°C (-40 to 131°F)
Humidity	5% to 95% (non condensing jacket)
Power supply	9-36VDC (1 amp)

Smart Number Product	Meter Size	Inlet Size	Outlet Size
FC1000DM = Flowcom 1000 Drop Meter	08 = 1/2" 16 = 1" 24 = 1 1/2" 32 = 2"	MVE1 = 1/2" Female Bayonet MVE2 = 1/2" Male Bay. MVE3 = 1" Female Bay. MVE4 = 1" Male Bay. MVE5 = 1 1/2" Female Bayonet MVE6 = 1 1/2" Male Bay. MVE7 = 2" Female Bay. MVE8 = 2" Male Bay. 6M = 625 Male Bay. 8FPT = 1/2" FPT 16FPT = 1" FPT 24FPT = 1 1/2" FPT 32FPT = 2" FPT	MVE1 = 1/2" Female Bayonet MVE2 = 1/2" Male Bay. MVE3 = 1" Female Bay. MVE4 = 1" Male Bay. MVE5 = 1 1/2" Female Bayonet MVE6 = 1 1/2" Male Bay. MVE7 = 2" Female Bay. MVE8 = 2" Male Bay. 6M = 625 Male Bay. 8FPT = 1/2" FPT 16FPT = 1" FPT 24FPT = 1 1/2" FPT 32FPT = 2" FPT

TECHNICAL INFORMATION

SMART PART NUMBER	INLET SIZE	FLOW	DIM "A"	OUTLET SIZE	DIM "B"	DIM "C"
FC1000DM-08-MVE1-6M	1/2" PS F BAYONET	1.0 – 4.8 gpm	47-1/4"	3/4"ODT 625 M BAYONET	4-15/16"	23-15/16"
FC1000DM-08-MVE1-MVE2	1/2" PS F BAYONET	1.0 – 4.8 gpm	47-1/4"	1/2" PS M BAYONET	6-1/8"	23-15/16"
FC1000DM-08-8FPT-8FPT	1/2" FPT	1.0 – 4.8 gpm	47-1/4"	1/2" FPT	4-15/16"	23-15/16"
FC1000DM-08-MVE1-8FPT	1/2" PS F BAYONET	1.0 – 4.8 gpm	47-1/4"	1/2" FPT	4-15/16"	23-15/16"
FC1000DM-16-16FPT-16FPT	1" PS FPT	2.8 – 14.1 gpm	47-3/4"	1" FPT	7-3/8"	25-1/4"
FC1000DM-16-MVE3-16FPT	1" PS F BAYONET	2.8 – 14.1 gpm	47-3/4"	1" FPT	7-3/8"	25-1/4"
FC1000DM-16-MVE3-MVE4	1" PS F BAYONET	2.8 – 14.1 gpm	47-3/4"	1" PS M BAYONET	7-3/8"	25-1/4"
FC1000DM-24-24FPT-24FPT	1-1/2" FPT	10.0 – 50.0 gpm	69"	1-1/2" FPT	7-3/4"	42-5/8"
FC1000DM-24-MVE5-24FPT	1-1/2" PS F BAYONET	10.0 – 50.0 gpm	69"	1-1/2" FPT	7-3/4"	42-5/8"
FC1000DM-24-MVE5-MVE6	1-1/2" PS F BAYONET	10.0 – 50.0 gpm	69"	1-1/2" PS M BAYONET	7-3/4"	42-5/8"
FC1000DM-32-32FPT-32FPT	2" FPT	10.0 – 50.0 gpm	71-5/8"	2" FPT	9"	43"
FC1000DM-32-MVE7-32FPT	2" PS F BAYONET	10.0 – 50.0 gpm	71-5/8"	2" FPT	9"	43"
FC1000DM-32-MVE7-MVE8	2" PS F BAYONET	10.0 – 50.0 gpm	71-5/8"	2" PS M BAYONET	9"	43"

Your Local Representative



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Chart Inc.
U.S.: 1-888-877-3093
Worldwide: 1-952-758-4484
www.ChartVIP.com

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