



VortiFox Mass Vortex Flow Meter

MODEL CODES

399 Reservation Road
Marina, CA 93933
831-384-4300
www.foxthermal.com
sales@foxthermal.com

VORTIFOX INSERTION METER

	Code	Description
Parent Model No.	VF3	Insertion Multivariable Mass Vortex Flow Meter
Feature 1: Multivariable Options	V	Volumetric Flowmeter for liquid, gas, and steam
	VT	Velocity and Temperature Sensors
	VTP	Velocity, Temperature, and Pressure Sensors
	VTEP	Velocity, Temperature, and External 4-20mA input (T or P)
	VETEP	Velocity, External RTD Temperature input, External 4-20mA input (T or P)
	VT-EM	Energy output options
	VTP-EM	Energy options with Pressure Sensor
	VTEP-EM	Velocity, Temperature, and External 4-20mA input (T or P)
	VETEP-EM	Velocity, External RTD Temperature input, External 4-20mA input (T or P)
Feature 2: Probe Length	SL	Standard Length
	CL	Compact Length
	EL	Extended Length
Feature 3: Electronics Enclosure	L	NEMA 4X, IP66 Enclosure
	R ()	Remote Electronics NEMA 4X, IP66, Specify cable length in parenthesis
Feature 4: Display Options	DD	Digital Display and Programming Buttons
Feature 5: Input Power	DCL	12-36 VDC, 25mA, 1W max. required on loop powered meters, 1AHL only
	DCH	12-36 VDC, 300mA, 9W max. - use with 1AH, 1AM, 3AH, 34AM
	DCHPOE	12-28 VDC or Power over Ethernet, 5 Watts max, required on 1AMIP, 1ABIP, 3AMIP, 3ABIP
	AC	100-240 VAC, 50/60 Hz line power, 5W max. - use with 1AH, 1AM, 3AH, 3AM
Feature 6: Output	1AHL	Loop powered option - one analog output (4-20mA), one scaled frequency, one pulse, HART, DCL input power only
	1AH	One analog output (4-20mA), one alarm, one pulse, HART Communication Protocol, DCH or AC option only*
	1AM	One analog output (4-20mA), one alarm, one pulse, MODBUS RTU Communication Protocol, DCH or AC option only*
	1AMIP	One analog output (4-20mA), one alarm, one pulse, MODBUS TCP/IP Communication Protocol, DCHPOE ONLY*
	1AB	One analog output (4-20mA), one alarm, one pulse, BACnet MS/TP Communication Protocol, DCH or AC option only*
	1ABIP	One analog output (4-20mA), one alarm, one pulse, BACnet/IP Communication Protocol, DCHPOE ONLY*
	3AH	Three analog outputs (4-20mA), three alarms, one pulse, HART (VT,VTP only), DCH or AC option only*
	3AM	Three analog outputs (4-20mA), three alarms, one pulse, MODBUS RTU (VT,VTP only), DCH or AC option only*
	3AMIP	Three analog outputs (4-20mA), three alarms, one pulse, MODBUS TCP/IP (VT,VTP only), DCHPOE ONLY*
	3AB	Three analog outputs (4-20mA), three alarms, one pulse, BACnet MS/TP (VT,VTP only), DCH or AC option only*
	3ABIP	Three analog outputs (4-20mA), three alarms, one pulse, BACnet/IP (VT,VTP only), DCHPOE ONLY*
Feature 7: Temperature Options	ST	Standard temperature, Process Temperature - 330 to 500°F (-200 to 260°C)
	HT	High temperature, Process Temperature to 750°F (400°C)
Feature 8: Pressure Options	P0	No pressure sensor
	P1	Maximum 30 psia (2 bara), Proof 60 psia (4 bara)
	P2	Maximum 100 psia (7 bara), Proof 200 psia (14 bara)
	P3	Maximum 300 psia (20 bara), Proof 600 psia (41 bara)
	P4	Maximum 500 psia (34 bara), Proof 1000 psia (64 bara)
	P5	Maximum 1500 psia (100 bara), Proof 2500 psia (175 bara)
Feature 9: Process Connections	CNPT	Compression, 2 inch NPT
	C150	Compression, 2 inch 150lb Flange
	C16	Compression, DN50 PN16 Flange
	C300	Compression, 2 inch 300lb Flange
	C40	Compression, DN50 PN40 Flange
	C600	Compression, 2 inch 600lb Flange
	C63	Compression, DN50 PN63 Flange
	C900	Compression, 2 inch 900lb Flange
	PNPT	Packing Gland, 2 inch NPT
	P150	Packing Gland, 2 inch 150lb Flange
	P16	Packing Gland, DN50 PN16 Flange
	P300	Packing Gland, 2 inch 300lb Flange
	P40	Packing Gland, DN50 PN40 Flange
	PNPTR	Packing Gland, 2 inch NPT, Retractor
	P150R	Packing Gland, 2 inch 150lb Flange, Retractor
	P16R	Packing Gland, DN50 PN16 Flange, Retractor
	P300R	Packing Gland, 2 inch 300lb Flange, Retractor
	P40R	Packing Gland, DN50 PN40 Flange, Retractor
	P600R	Packing Gland, 2 inch 600lb Flange, Retractor
	P63R	Packing Gland, DN50 PN63 Flange, Retractor

*JIS flanges available upon request



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VORTIFOX INLINE METER

	Code	Description
Parent Model No.	VF4	Inline Vortex Flow Meter
	VF4-R	Inline Reduced Bore Vortex Flow Meter
Feature 1: Multivariable Options	V	Volumetric Flowmeter for liquid, gas, and steam
	VT	Velocity and Temperature Sensors
	VTP	Velocity, Temperature, and Pressure Sensors
	VTEP	Velocity, Temperature, and External 4-20mA input (T or P)
	VETEP	Velocity, External RTD Temperature input, External 4-20mA input (T or P)
	VT-EM	Energy output options
	VTP-EM	Energy options with Pressure Sensor
	VTEP-EM	Velocity, Temperature, and External 4-20mA input (T or P)
	VETEP-EM	Velocity, External RTD Temperature input, External 4-20mA input (T or P)
Feature 2: Flow Body	(VF4 Flow Body)	
	04	1/2-inch Nominal Bore (15mm)
	06	3/4-inch Nominal Bore (20mm)
	08	1-inch Nominal Bore (25mm)
	12	1.5-inch Nominal Bore (40mm)
	16	2-inch Nominal Bore (50mm)
	24	3-inch Nominal Bore (80mm)
	32	4-inch Nominal Bore (100mm)
	48	6-inch Nominal Bore (150mm)
	64	8-inch Nominal Bore (200mm)
	80	10-inch Nominal Bore (250mm)
	96	12-inch Nominal Bore (300mm)
Feature 3: Meter Body Material	(VF4-R Reducing Flow Body)	
	04	1/2-inch by 1/2-inch Reducing Meter (15mm)
	08	1-inch by 1/2-inch Reducing Meter (15mm)
	12	1.5-inch by 1-inch Reducing Meter (25mm)
Feature 4: Process Connection	150	ANSI 150lb Flange
	300	ANSI 300lb Flange
	600	ANSI 600lb Flange
	900	ANSI 900lb Flange
	W	Wafer ANSI 600lb
	16	PN 16
Feature 5: Electronics Enclosure	L	NEMA 4X, IP66 Enclosure
	R ()	Remote Electronics NEMA 4X, IP66, Specify cable length in parenthesis, Standard 50 ft
Feature 6: Display Options	DD	Digital Display and Programming Buttons
Feature 7: Input Power	DCL	12-36 VDC, 25mA, 1W max. required on loop powered meters, 1AHL only
	DCH	12-36 VDC, 300mA, 9W max. - use with 1AH, 1AM, 3AH, 34AM
	DCHPOE	12-28 VDC or Power over Ethernet, 5 Watts max, required on 1AMIP, 1ABIP, 3AMIP, 3ABIP
	AC	100-240 VAC, 50/60 Hz line power, 5W max. - use with 1AH, 1AM, 3AH, 3AM
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	1AM	One analog output (4-20mA), one alarm, one pulse, MODBUS RTU Communication Protocol, DCH or AC option only*
	1AMIP	One analog output (4-20mA), one alarm, one pulse, MODBUS TCP/IP Communication Protocol, DCHPOE ONLY*
	1AB	One analog output (4-20mA), one alarm, one pulse, BACnet MS/TP Communication Protocol, DCH or AC option only*
	1ABIP	One analog output (4-20mA), one alarm, one pulse, BACnet/IP Communication Protocol, DCHPOE ONLY*
	3AH	Three analog outputs (4-20mA), three alarms, one pulse, HART (VT,VTP only), DCH or AC option only*
	3AM	Three analog outputs (4-20mA), three alarms, one pulse, MODBUS RTU (VT,VTP only), DCH or AC option only*
	3AMIP	Three analog outputs (4-20mA), three alarms, one pulse, MODBUS TCP/IP (VT,VTP only), DCHPOE ONLY*
	3AB	Three analog outputs (4-20mA), three alarms, one pulse, BACnet MS/TP (VT,VTP only), DCH or AC option only*
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Feature 9: Temperature Options	ST	Standard temperature, Process Temperature - 330 to 500°F (-200 to 260°C)
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* Includes scaled frequency output



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VORTIFOX OPTIONS AND ACCESSORIES

	Code	Description
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Options for All VortiFox Models - VF3, VF4, VF4-R

Options: Certification and Cleaning	MC	Material Certificates--US Mill certs on all R-Wetted parts
	PT	Pressure Test Certificate
	CC	Certificate of Conformance
	CO	Certificate of Origin, not validated*
	COV	Certificate of Origin, Validated by local Chamber of Commerce**
	NC	NACE Certification
	O2	Oxygen Cleaning
	PED	PED certified bodies (Stainless steel meters only)
Options: Remote Cables	ARM25V	25' Armored Cable R-With Glands(ATEX, IECEX) V meter only - Adder to Remote option
	ARM50V	50' Armored Cable R-With Glands(ATEX, IECEX) V meter only - Adder to Remote option
	ARM25VTP	25' Armored Cable R-With Glands(ATEX, IECEX) VT, VTP meter only - Adder to Remote option
	ARM50VTP	50' Armored Cable R-With Glands(ATEX, IECEX) VT, VTP meter only - Adder to Remote option
Options: M20 Conversion Kits	M20 Local	3/4" NPT to M20 conversion kit - Local electronics
	M20 Remote	3/4" NPT to M20 conversion kit -Remote electronics

Options for VF3 Insertion Models Only

Options: Removable Retractors	RR-SL	Removable retractor transportable (PM ,PF, and PG only)
	RR-EL	Removable retractor transportable for extended length probes (LE only; PM ,PF, and PG only)
Options: Isolation Gate Valves	VKBT-125 ()	Bronze, threaded 200 psi @100F; 400F @125 psi
	VKBT-150 ()	Bronze, threaded300 psi@100F;400F @125 psi
	VKBT-300 ()	Bronze, threaded1000 psi@100F; 550F@300 psi
	VKST-200 ()	Bronze, threaded275 psi@100F; 350F@200 psi
	VACF-150	Carbon steel, 150# Flange
	VACF-300	Carbon steel 300# Flange
	VACF-600	Carbon steel 600# flange
	VASF-150	Stainless steel 150# Flange
	VASF-300	Stainless steel 300# Flange
	VASF-600	Stainless steel 600# flange
	PP	External pressure port. Only available with packing gland connections
	Note: Pipe OD in parentheses	
Options: Mounting Accessories	PACT ()	Threaded Carbon Steel pipe adapter
	PAST ()	Threaded Stainless steel pipe adapter
	PACF-150 ()	Carbon steel, 150# Flange
	PACF-300 ()	Carbon steel 300# Flange
	PACF-600 ()	Carbon steel 600# flange
	PASF-150 ()	Stainless steel 150# Flange
	PASF-300 ()	Stainless steel 300# Flange
	PASF-600 ()	Stainless steel 600# flange
	Note: Pipe OD in parentheses	

* A Certificate of Origin is typically only needed and included for international orders as this is required for customs.
This is automatically included if the shipments require it.

** The validated version of the Certificate of Origin would be stamped by the Chamber of Commerce, incurring an additional fee.