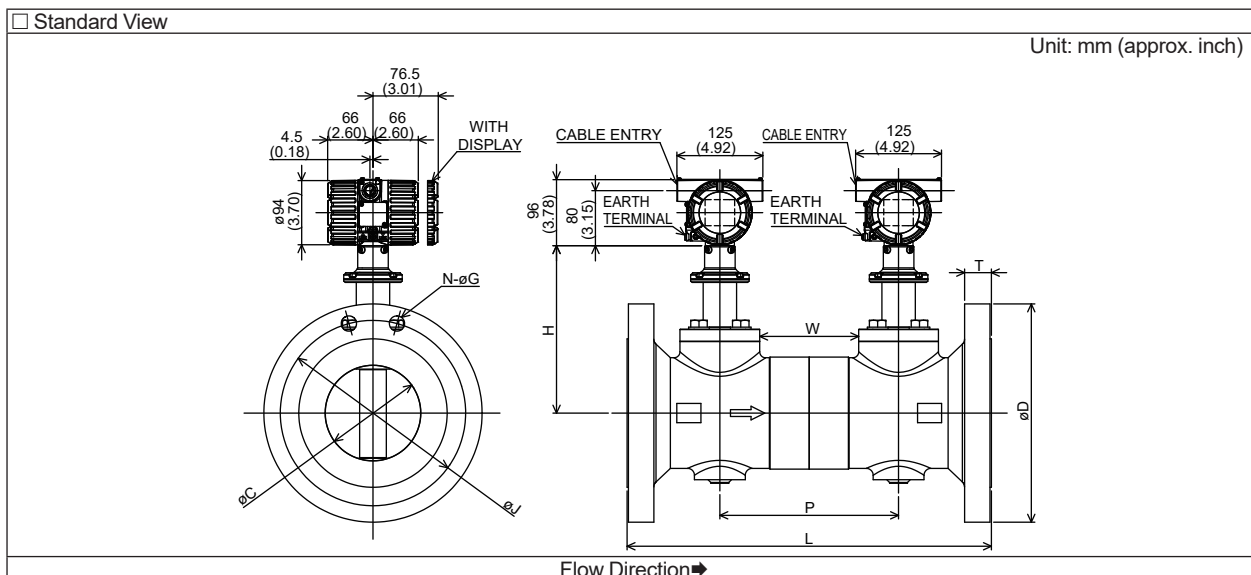


Drawings

Vortex Flowmeter VY Series
VY150, VY200
Dual-Sensor (Welded) General Type
Process Connection: GB Flange

SD 01F07H05-04EN

• Dual-Sensor (Welded) General Type: GB Flange (Size 150 mm(6 inch), 200 mm(8 inch))



VY□□□ -□□□ -6 □ □ □ □ □ □ □ □ □ □ 0 0 /DS1 /□
(1) (2) (3) (4) (5) (6) (7)

• Code details for SD

(1) Model	VY150: Size 150 mm(6 inch), VY200: Size 200 mm(8 inch)
(2) Type of Body	-6: Dual-Sensor (Welded) General Type
(3) Type of Shedder Bar	N: General Type, P: General Type with Temperature Sensor, Q: High Temperature Type, R: High Temperature Type with Temperature Sensor, U: Long Neck Type, V: Long Neck Type with Temperature Sensor
(4) Body&Shedder Bar Material	[Body Material & Shedder Bar Material] EN: CF8M&1.4517, EE: CF8M&CF8M, EJ: CF8M&CW-12MW
(5) Process Connection GB Flange	[Body Material, Pressure Rating] EBC□: CF8M, Raised Face(RF), PN10 to 40 □: Pressure Rating, 1= PN10, 2= PN16, 3= PN25, 4= PN40
(6) Cable Entry : One	0: JIS G1/2 Female, 2: ASME 1/2 NPT Female, 4: ISO M20x1.5 Female
(7) Communication and Input/Output	JJ: Upstream: HART 7 Communication, 4-20 mA DC, Pulse/Status output, Downstream: HART 7 Communication, 4-20 mA DC, Pulse/Status output JF: Upstream: HART 7 Communication, 4-20 mA DC, Pulse/Status output, Downstream: FOUNDATION Fieldbus Communication FJ: Upstream: FOUNDATION Fieldbus Communication, Downstream: HART 7 Communication, 4-20 mA DC, Pulse/Status output FF: Upstream: FOUNDATION Fieldbus Communication, Downstream: FOUNDATION Fieldbus Communication NN: None (Remote Sensor)

• Dimensions (Lay Length, Outer Diameter etc) and Weight for each Model

□VY150		External Dimensions mm (approx. inch)								Weight kg(lb)*2
(4) Process Connection		Lay Length L*1	Outer Diameter øD	Flange thickness T	Bolt circle J	No. of bolt holes N	Bolt hole diameter G	Sensor Distance P	Central Gap Distance W	
Code: Body Material, Pressure Rating										
□	EBC2: CF8M, Raised Face(RF), PN16/10	530 (20.87)	285 (11.22)	22 (0.87)	240 (9.45)	8	22 (0.87)	260 (10.24)	144 (5.67)	54.1 (119.0) [54.1 (119.0)]
□	EBC4: CF8M, Raised Face(RF), PN40/25	530 (20.87)	300 (11.81)	28 (1.10)	250 (9.84)	8	26 (1.02)	260 (10.24)	144 (5.67)	66.9 (147.2) [66.9 (147.2)]

□ VY200		External Dimensions mm (approx. inch)								Weight kg(lb)*2	
(4) Process Connection		Lay Length L*1	Outer Diameter øD	Flange thickness T	Bolt circle J	No. of bolt holes N	Bolt hole diameter G	Sensor Distance P	Central Gap Distance W		
Code: Body Material, Pressure Rating											
□	EBC1: CF8M, Raised Face(RF), PN10	610 (24.02)	340 (13.39)	24 (0.94)	295 (11.61)	8	22 (0.87)	300 (11.81)	162 (6.38)	71.9 (158.2) [71.9 (158.2)]	
□	EBC2: CF8M, Raised Face(RF), PN16	610 (24.02)	340 (13.39)	24 (0.94)	295 (11.61)	12	22 (0.87)	300 (11.81)	162 (6.38)	71.4 (157.1) [71.4 (157.1)]	
□	EBC3: CF8M, Raised Face(RF), PN25	610 (24.02)	360 (14.17)	30 (1.18)	310 (12.20)	12	26 (1.02)	300 (11.81)	162 (6.38)	81.9 (180.2) [81.9 (180.2)]	
□	EBC4: CF8M, Raised Face(RF), PN40	610 (24.02)	375 (14.76)	34 (1.34)	320 (12.60)	12	30 (1.18)	300 (11.81)	162 (6.38)	89.4 (196.7) [89.4 (196.7)]	

*1: Lay Length tolerances: ± 4 mm (± 0.16 inch)

*2: In case of Type of Shedder Bar: Q,R,U,V, Refer to the value in square brackets

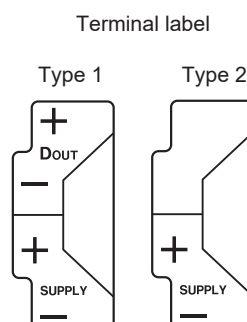
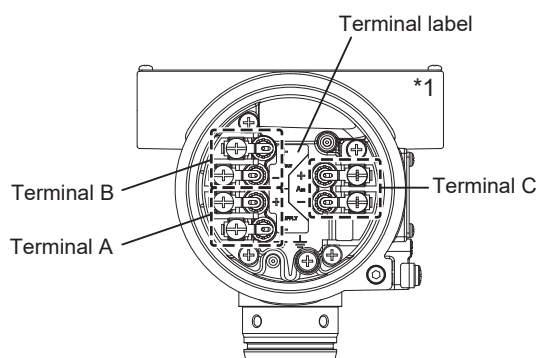
• Dimensions (height and diameters) for each Model

	(1) Model	(3) Type of Shedder Bar	(4) Body&Shedder Bar Material	Height H mm (inch)	Inner Diameter øC mm (inch)
☐	VY150	N: General Type,	EN, EJ	244.5 (9.63)	138.8 (5.46)
☐		P: General Type with Temperature Sensor	EE	251.5 (9.90)	138.8 (5.46)
☐		Q: High Temperature Type,	EN, EJ	344.5 (13.56)	138.8 (5.46)
☐		R: High Temperature Type with Temperature Sensor, U: Long Neck Type, V: Long Neck Type with Temperature Sensor	EE	351.5 (13.84)	138.8 (5.46)
☐	VY200	N: General Type,	EN, EJ	286.5 (11.28)	185.6 (7.31)
☐		P: General Type with Temperature Sensor	EE	293.5 (11.56)	185.6 (7.31)
☐		Q: High Temperature Type,	EN, EJ	406.5 (16.00)	185.6 (7.31)
☐		R: High Temperature Type with Temperature Sensor, U: Long Neck Type, V: Long Neck Type with Temperature Sensor	EE	413.5 (16.28)	185.6 (7.31)

• Terminal Layout Diagram

□ Integral Transmitter Case

Terminal screw size: M4



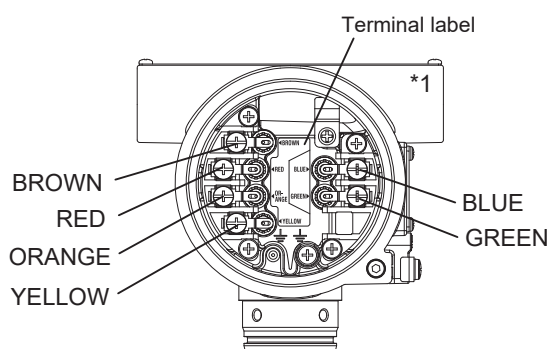
Terminal label	Communication and input/output	Terminal A	Terminal B	Terminal C
Type 1	Jx or xJ	SUPPLY +, SUPPLY – Power supply, HART communication and analog output	D _{OUT} +, D _{OUT} – Pulse/status output	–
Type 2	Fx or xF	SUPPLY +, SUPPLY – Power supply and FOUNDATION Fieldbus communication	– (*2)	–

*1: When -0 (JIS G1/2 female, one electrical connection), -2 (ASME 1/2 NPT female, one electrical connection), or -4 (ISO M20x1.5 female, one electrical connection) is selected for the cable entry, it is only located on the right side in this view.

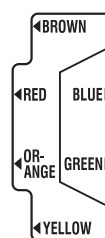
*2: Terminal B is a terminal block only and no screws are attached.

□ Remote Sensor Terminal Box

Terminal screw size: M4



Terminal label



Terminal	Application
BROWN, RED, ORANGE, YELLOW, GREEN, BLUE (*2)	Connect the vortex fowmeter signal cable (VY1C)

*1: The cable entry is only located on the right side when viewed from the front.

*2: Match the colors of the vortex fowmeter signal cable (VY1C) with the corresponding terminals.