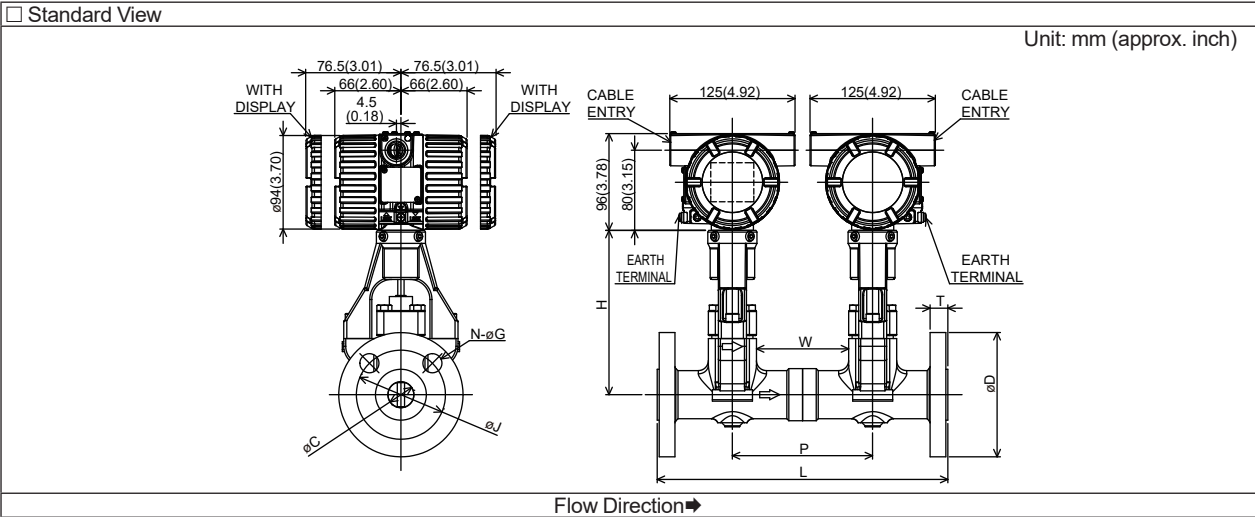


Drawings

Vortex Flowmeter VY Series
VY080, VY100
Dual-Sensor (Welded) General Type
Process Connection: EN Flange

SD 01F07H02-03EN

• Dual-Sensor (Welded) General Type: EN Flange (80 mm(3 inch), 100 mm(4 inch))



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

• Code details for SD

(1) Model	VY080: Size 80 mm(3 inch), VY100: Size 100 mm(4 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, S: Cryogenic Type, U: Long Neck Type, V: Long Neck Type with Temperature Sensor
(4) Process Connection EN Flange	[Body Material, Pressure Rating] EBE□: CF8M, Type B1, PN10 to 40 □: Pressure Rating, 1= PN10, 2= PN16, 3= PN25, 4= PN40
(5) Cable Entry : One	0: JIS G1/2 Female, 2: ASME 1/2 NPT Female, 4: ISO M20x1.5 Female
(6) 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

	(4) Process Connection Code: Body Material, Pressure Rating	External Dimensions mm (approx. inch)								Weight kg(lb)*2
		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	
<input type="checkbox"/>	EBE2: CF8M, type B1, PN16/10	370 (14.57)	200 (7.87)	20 (0.79)	160 (6.30)	8	18 (0.71)	170 (6.69)	102 (4.02)	32.8 (72.2) [33.6 (73.9)]
<input type="checkbox"/>	EBE4: CF8M, type B1, PN40/25	370 (14.57)	200 (7.87)	24 (0.94)	160 (6.30)	8	18 (0.71)	170 (6.69)	102 (4.02)	32.7 (71.9) [33.5 (73.7)]

	(4) Process Connection Code: Body Material, Pressure Rating	External Dimensions mm (approx. inch)								Weight kg(lb)*2
		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	
<input type="checkbox"/>	EBE2: CF8M, type B1, PN16/10	420 (16.54)	220 (8.66)	20 (0.79)	180 (7.09)	8	18 (0.71)	200 (7.87)	120 (4.72)	40.0 (88.0) [60.8 (133.8)]
<input type="checkbox"/>	EBE4: CF8M, type B1, PN40/25	420 (16.54)	235 (9.25)	24 (0.94)	190 (6.30)	8	22 (0.87)	200 (7.87)	120 (4.72)	45.5 (100.1) [46.3 (101.9)]

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

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

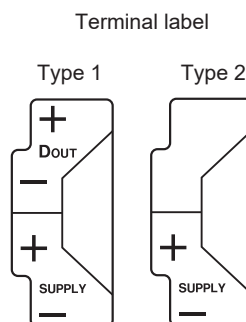
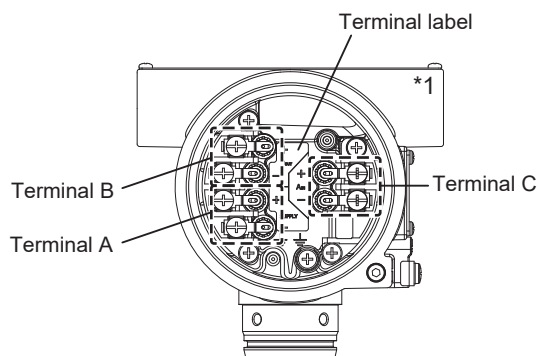
• Dimensions (height and diameters) for each Model

	(1) Model	(3) Type of Shedder Bar	Height H mm (inch)	Inner Diameter øC mm (inch)
<input type="checkbox"/>	VY080	N: General Type, P: General Type with Temperature Sensor	215 (8.46)	71 (2.80)
<input type="checkbox"/>		Q: High Temperature Type, R: High Temperature Type with Temperature Sensor, S: Cryogenic Type, U: Long Neck Type, V: Long Neck Type with Temperature Sensor	275 (10.83)	71 (2.80)
<input type="checkbox"/>		N: General Type, P: General Type with Temperature Sensor	236 (9.29)	93.8 (3.69)
<input type="checkbox"/>		Q: High Temperature Type, R: High Temperature Type with Temperature Sensor, S: Cryogenic Type, U: Long Neck Type, V: Long Neck Type with Temperature Sensor	296 (11.65)	93.8 (3.69)

• Terminal Layout Diagram

□ Integral Transmitter Case

Terminal screw size: M4



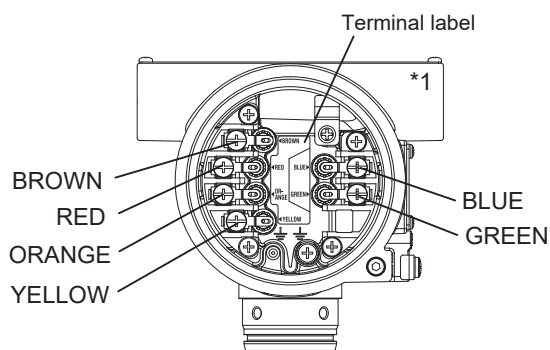
Terminal label	Communication and input/output	Terminal A	Terminal B	Terminal C
Type 1	Jx or xJ	SUPPLY +, SUPPLY – Power supply, HART communication and analog output	D _{OUT} +, D _{OUT} – Pulse/status output	–
Type 2	Fx or xF	SUPPLY +, SUPPLY – Power supply and FOUNDATION Fieldbus communication	– (*2)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

*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.