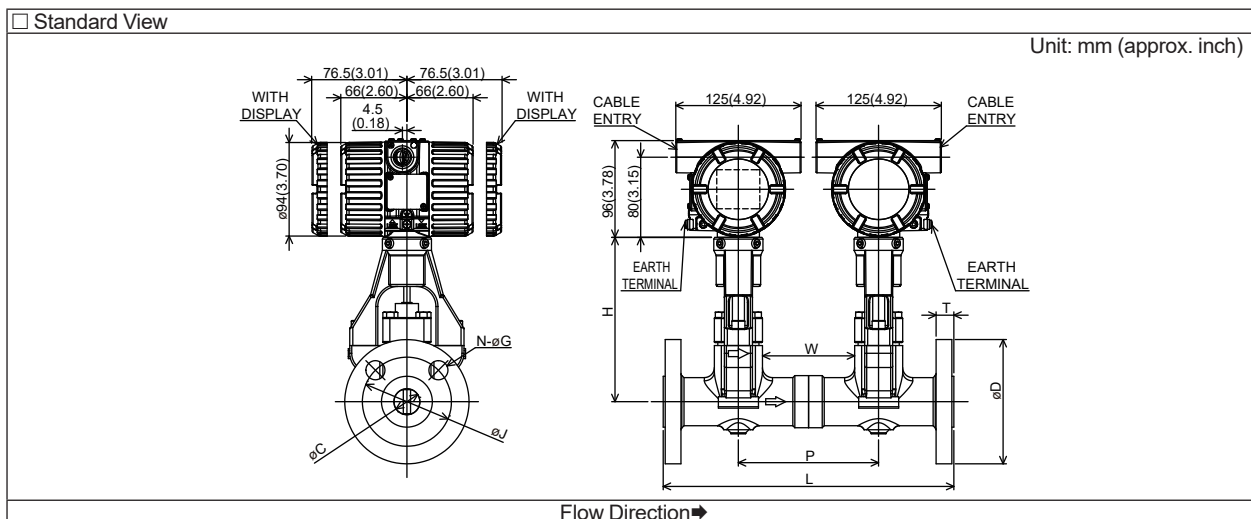


Drawings

Vortex Flowmeter VY Series
VY025, VY040, VY050
Dual-Sensor (Welded) General Type
Process Connection: EN Flange

SD 01F07H02-02EN

• Dual-Sensor (Welded) General Type: EN Flange (25 mm(1 inch), 40 mm(1-1/2 inch), Size 50 mm(2 inch))



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

• Code details for SD

(1) Model	VY025: Size 25 mm(1 inch), VY040: Size 40 mm(1-1/2 inch), VY050: Size 50 mm(2 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

□ VY025		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									
□	EBE4: CF8M, type B1, PN40/25/16/10	290 (11.42)	115 (4.53)	18 (0.71)	85 (3.35)	4	14 (0.55)	140 (5.51)	92 (3.62)	12.7 (27.9) 13.5 (29.7)	

<input type="checkbox"/> VY040		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										
<input type="checkbox"/>	EBE4: CF8M, type B1, PN40/25/16/10	290 (11.42)	150 (5.91)	18 (0.71)	110 (4.33)	4	18 (0.71)	140 (5.51)	92 (3.62)	15.2 (33.4) [16 (35.2)]

□VY050		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										
□	EBE2: CF8M, type B1, PN16/10	320 (12.60)	165 (6.50)	18 (0.71)	125 (4.92)	4	18 (0.71)	150 (5.91)	90 (3.54)	19.4 (42.79) [20.2 (44.4)]
□	EBE4: CF8M, type B1, PN40/25	320 (12.60)	165 (6.50)	20 (0.79)	125 (4.92)	4	18 (0.71)	150 (5.91)	90 (3.54)	8.1 (17.8) [8.9 (19.6)]

*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

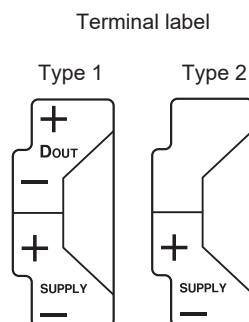
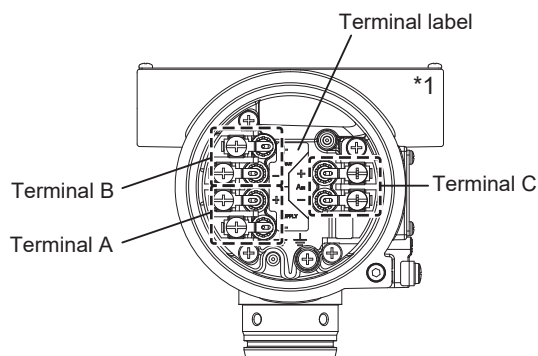
• Dimensions (height and diameters) for each Model

(1) Model		(3) Type of Shedder Bar	Height H mm (inch)	Inner Diameter øC mm (inch)
<input type="checkbox"/>	VY025	N: General Type, P: General Type with Temperature Sensor	164 (6.46)	25.7 (1.01)
<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	224 (8.82)	25.7 (1.01)
<input type="checkbox"/>		N: General Type, P: General Type with Temperature Sensor	171 (6.73)	39.7 (1.56)
<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	231 (9.09)	39.7 (1.56)
<input type="checkbox"/>	VY040	N: General Type, P: General Type with Temperature Sensor	198 (7.80)	51.1 (2.01)
<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	258 (10.16)	51.1 (2.01)

• Terminal Layout Diagram

☐ Integral Transmitter Case

Terminal screw size: M4



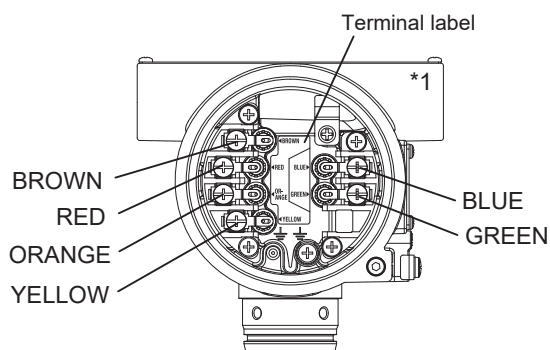
Terminal label	Communication and input/output	Terminal A	Terminal B	Terminal C
Type 1	Jx or xJ	SUPPLY +, SUPPLY – Power supply, HART communication and analog output	D _{OUT} +, D _{OUT} – Pulse/status output	–
Type 2	Fx or xF	SUPPLY +, SUPPLY – Power supply and FOUNDATION Fieldbus communication	– (*2)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

*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.

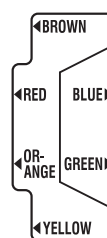
*2: Terminal B is a terminal block only and no screws are attached.

☐ 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.