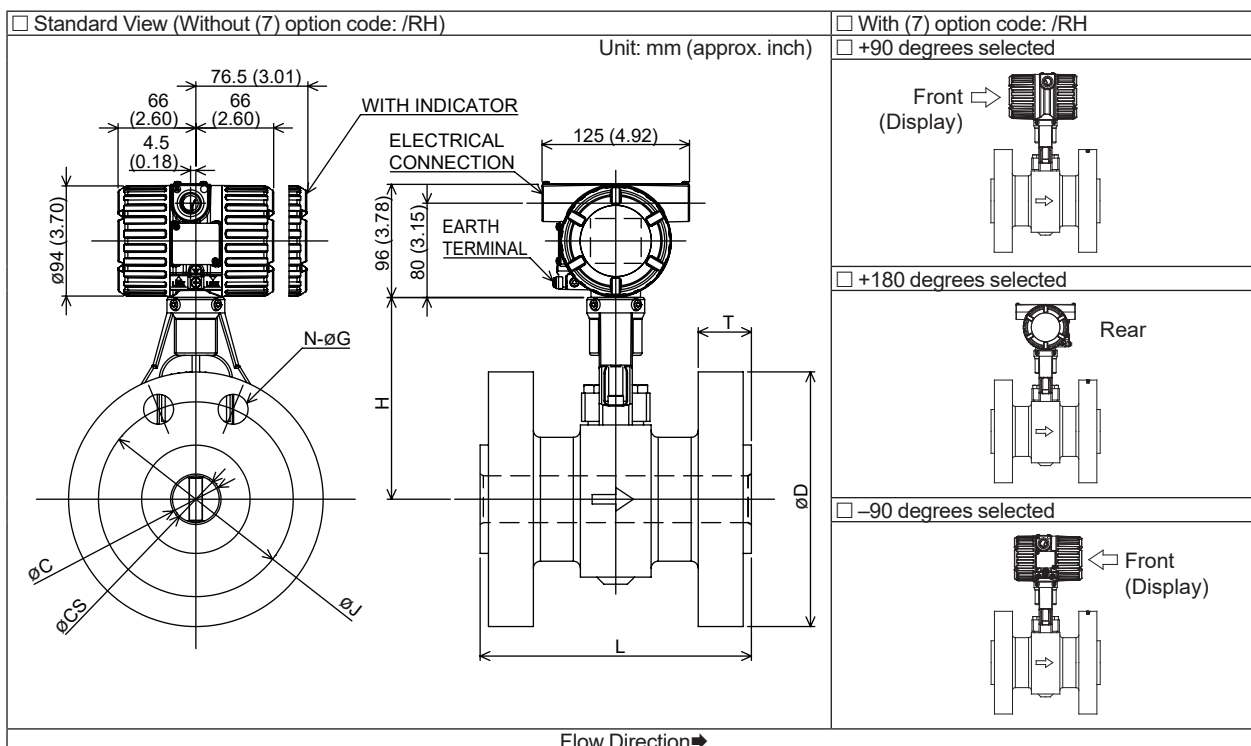


Drawings

Vortex Flowmeter VY Series
VY025, VY040, VY050
High Pressure Reduced Bore Type (1 Size Reduction)
Process Connection: ASME Flange

SD 01F07G01-01EN

- **High Pressure Reduced Bore Type (1 Size Reduction): ASME Flange (Size 25 mm(1 inch), 40 mm(1-1/2 inch), 50 mm(2 inch))**


$$\begin{array}{r} \text{VY}\square\square\square - \square\square\square \text{ -4 } \square\square\square \square\square\square\square - \square\square\square\square\square \text{ 00 } / \square \\ (1) \qquad (2) \quad (3) \qquad (4) \qquad (5) \quad (6) \qquad (7) \end{array}$$

- **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	-4: High Pressure Reduced Bore Type (1 Size Reduction)
(3) Type of Shedder Bar	A: General Type, G: Long Neck Type
(4) Process Connection ASME Flange	[Body Material, Face, Pressure Rating] BBA6: CF8M, Raised Face(RF), Class 1500 BCA6: CF8M, Ring Joint(RJ), Class 1500
(5) Cable Entry : One : Two	0: JIS G1/2 Female, 2: ASME 1/2 NPT Female, 4: ISO M20x1.5 Female A: JIS G1/2 Female, C: ASME 1/2 NPT Female, E: ISO M20x1.5 Female
(6) Communication and Input/Output	JA: HART 7 communication, 4 to 20 mA DC, Pulse/Status output JB: HART 7 communication, 4 to 20 mA DC, Pulse/Status output, Analog input NN: None (Remote Sensor)
(7) Options	/RH: Cable Entry Direction Change □: Other Options (No effect for structural demension)

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

	(4) Process Connection Code: Body Material, Face, Pressure Rating	External Dimensions mm (approx. inch)					Weight kg(lb)
		Lay Length L*1	Outer Diameter øD	Flange Thickness T	Bolt Circle Diameter øJ	No. of Bolt Holes N	
☐	BBA6: F316, RF, Class 1500	220(8.66)	149.4(5.88)	35.4(1.39)	101.6(4)	4	14.9(32.8)
☐	BCA6: F316, RJ, Class 1500	220(8.66)	149.4(5.88)	34.9(1.37)	101.6(4)	4	16.2(35.7)

	(4) Process Connection Code: Body Material, Face, Pressure Rating	External Dimensions mm (approx. inch)					Weight kg(lb)
		Lay Length L*1	Outer Diameter øD	Flange Thickness T	Bolt Circle Diameter øJ	No. of Bolt Holes N	
☐	BBA6: F316, RF, Class 1500	220(8.66)	177.8(7)	38.8(1.53)	124(4.88)	4	23.4(51.6)
☐	BCA6: F316, RJ, Class 1500	220(8.66)	177.8(7)	38.2(1.5)	124(4.88)	4	25.2(55.6)

	(4) Process Connection Code: Body Material, Face, Pressure Rating	External Dimensions mm (approx. inch)					Weight kg(lb)
		Lay Length L*1	Outer Diameter øD	Flange Thickness T	Bolt Circle Diameter øJ	No. of Bolt Holes N	
☐	BBA6: F316, RF, Class 1500	230(9.06)	215.9(8.5)	45.1(1.78)	165.1(6.5)	8	37.7(83.1)
☐	BCA6: F316, RJ, Class 1500	230(9.06)	215.9(8.5)	46.1(1.81)	165.1(6.5)	8	40.7(89.7)

*1: Lay Length (L) tolerances are as follows:

In case of Process Connction: BBA6

- VY025 to VY150: ± 3.0 mm

In case of Process Connction: BCA6

- VY025 to VY050: ± 4.0 mm
- VY080 to VY150: ± 5.0 mm

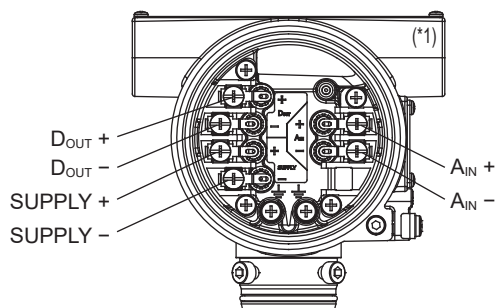
• Dimensions (height and diameters) for each Model

	(1) Model	(3) Type of Shedder Bar	Height H mm (inch)	Inner Diameter øC mm (inch)	Sensor Diameter øCS mm (inch)
☐	VY025	A: General type, G: Long Neck type	136.5(5.37)	25.7(1.01)	14.6(0.57)
☐	VY040	A: General type, G: Long Neck type	164(6.46)	39.7(1.56)	25.7(1.01)
☐	VY050	A: General type, G: Long Neck type	171(6.73)	51.1(2.01)	39.7(1.56)

• Terminal Layout Diagram

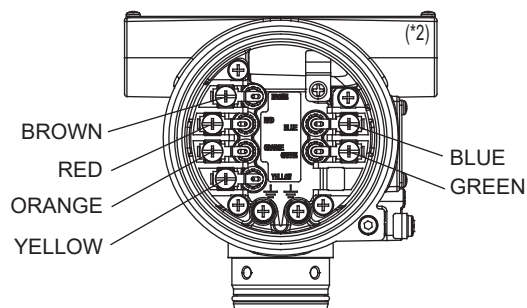
□ Integral Transmitter Case

Terminal screw size: M4



□ Remote Sensor Terminal Box

Terminal screw size: M4



	Terminal	Note
Integral Transmitter Case	SUPPLY + SUPPLY -	HART communication and analog output
	D _{OUT} + D _{OUT} -	Pulse/status output
	A _{IN} + A _{IN} -*3	Analog input
Remote Sensor Terminal Box	BROWN, RED, ORANGE, YELLOW, GREEN, BLUE*4	Connect the vortex flowmeter signal cable (VY1C)

*1: When (5) Cable Entry: 0, 2, or 4 is selected, The cable entry is only located on the right side in this view.

*2: The cable entry is located on the right side in this view

*3: When (6) Communication and Input/Output: JB is selected, the A_{IN} terminal is located

*4: Match the colors of the vortex flowmeter signal cable (VY1C) with the corresponding terminals