

Orifice flow meter calibration curve versus DP meter signal CM3215 Fall 2015

Station	Names	Q(gpm) vs I(mA)	Time/ Section
1	_____	_____	9A
2	Brian Barbell Nick Carlson	$Q(gpm) = 0.1145(I) + 0.2349$	9A
3	Richard Louys Caleb Korson	$Q(gpm) = 0.7688\sqrt{I} - 0.7882$	9A
4	Ben Southgate Amber Toboyek	$Q(gpm) = \frac{0.4920}{0.1193} I (mA) + 0.2935$	9A
5	Lifan Zhou	$Q(gpm) = 0.0962 I (mA) + 0.5302$	9A
6	Michael Bakowski Brandon Ballard	$Q(gpm) = 0.120 (mA) + 0.318$	9A
7	Andrew Delong	$Q(gpm) = 0.7544\sqrt{I} - 0.914 gpm$	9A
9	_____	_____	9A
8	Jimmy Krueger Nicole Field	$Q(gpm) = 0.7762(\sqrt{I}) - 1.1806$	9A
10	Derek Ballou Austin Conn	$Q(gpm) = 0.661\sqrt{I} (\sqrt{mA}) - 0.717 gpm$	9A

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Station	Names	Q(gpm) vs I(mA)	Time/ Section
1	Andrew Hubbell Mike Oates	$Q(\text{gpm}) = 0.8145\sqrt{I(\text{mA})} - 1.1266$	9B
2	Jakob Nawicki Ryan Oshe	$Q = 0.7648\sqrt{\Delta P(\text{mA})} - 0.9961$	9B
3	Robert Simone Kris Seelman	$Q(\text{gpm}) = 0.7581\sqrt{I(\text{mA})} - 0.9712$	9B
4	Melissa Stendley Zanebn Talaska	$Q(\text{gpm}) = -0.0041(I)^2 + 0.1442(I) + 0.0496$	9B
8	—————	—————	9B
6	MIK Gibson Blake Fische	$Q(\text{gpm}) = 0.1252 I(\text{mA}) + 0.2282$	9B
7	Aaron Krieg Hannah Townsend	$Q = 0.13(I) + 0.123$	9B
5	Derin Wickman	$Q = 0.0497 \text{ mA} - 0.068$	9B
9	—————	—————	9B
10	Julia Zayan Ethan Nagy	$Q = 0.7019\sqrt{\Delta P} - 0.8746$	9B

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Station	Names	Q(gpm) vs I(mA)	Time/ Section
1	_____	_____	1A
2	Alex Gietek Maggie Hildebrandt	$Q(gpm) = (0.1198 I(mA) + 0.2311)$	1A
3	James Horner Rich Hubert	$Q(gpm) = 0.1267 I(mA) + 0.2727$	1A
4	Jeanette Kussow Whitney Niedziel	$Q(gpm) = (0.00759 \pm 0.005) I(mA) + (0.0073 \pm 0.1)$	1A
5	Kane Rasner Caroline Spezia		1A
6	Samantha Wilczanski Travis Wisstrom	$Q(gpm) = 0.6969 I(mA) - 0.5226$	1A
7	Beth Merz Matt Moreman	$Q(gpm) = 0.7522 \times \sqrt{I} (\sqrt{mA}) - 0.8602$	1A
8	_____	_____	1A
9	_____	_____	1A
10	Mark Malachuk Chris Blevings	$Q(gpm) = \sqrt{0.2891 \cdot I(mA) - 1.2695}$	1A

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Station	Names	Q(gpm) vs I(mA)	Time/ Section
1	_____	_____	1B
2	Michael Alexson Michael Alexson		1B
3	Thao Duong Xi Chen	$Q(\text{gpm}) = 0.7\sqrt{I(\text{mA})} - 0.71$	1B
4			1B
5	Sarah Podes Eric Schmidt	$Q(\text{gpm}) = 0.712\sqrt{\Delta P(\text{mA})} - 0.9122$	1B
6	Mike Turki Austin Weick	$Q(\text{gpm}) = 0.781 I^{1/2}(\text{mA}) - 0.888$	1B
7	Nate Blaszak Daniel Kulas	$Q = 0.79(I)^{1/2} - 0.9$	1B
8	Jennifer Lentner Erin Knoeck	$Q(\text{gpm}) = 0.0999 \times I(\text{mA}) + 0.27$	1B
9	_____	_____	1B
10	Danielle Alexander Michael Archambo	$Q = 0.752 I - 1.28$	1B

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Station	Names	Q(gpm) vs I(mA)	Time/ Section
1	_____	_____	3A
2	Mark DeFouw Ben Gresko	$Q = 0.8107(I^{1/2}) - 1.2233$	3A
3	Tyler Hammond Chris Glazier	$I(mA) = 0.1123 Q(gpm) + 0.3649$	3A
4	Gabriel Hartman Sam Kane	$Q(gpm) = 0.1191 I(mA)^{1/2} + 0.3383$	3A
5	Ej Neubert Sheldon Ritt	$Q(gpm) = 0.1058 I(mA) + 0.4013$	3A
6	Guy Smith Ryan Smith	$mA = 2.824 (gpm)^2 - 0.9455 (gpm) + 4.5481$	3A
7	Nate Hexline Steven Raboin	$Q(gpm) = 1.3363 (\sqrt{I}) + 1.1508$	3A
8	Katie Smeberg Abbie Payne	$Q(gpm) = 0.7889 \sqrt{mA} - 1.0449$	3A
9	Joseph Peterson Joel Van Lanen	$Q(gpm) = 0.7316 \sqrt{mA} - 1.0397$	3A
10	Joel Reckard David Van Bergen	$Q(gpm) = 0.6702 \sqrt{mA} - 0.7958$	3A