

# PEECO FLOW RATE DATA

(All switches tested @ 100PSI & 300PSI Standard Units with 15A 125-250-480 SPDT Micro-Switch)

I= Increasing Flow | D= Decreasing Flow | P= Pressure Drop in PSI



Flow Rate and Pressure Drop Information		** Below are the Minimum Flow Rates Require				
Pipeline Size		GPM H2O	P	SCFM GN2	P	
1/4" Standard	I	1.174	4.72	I	6.62	1.54
	D	1.155	4.39	D	4.20	0.65
1/4" Low Flow	I	.0148	4.59	I	Less than 0.05	0.43
	D	0.13	4.58	D	Less than 0.05	0.425
1/4" Low-Low Flow	I	Less than 0.05	6.39	I	Less than 0.05	0.425
	D	Less than 0.05	8.84	D	Less than 0.05	0.425
1/2" Standard	I	1.94	0.64	I	8.90	0.50
	D	1.66	0.60	D	8.00	0.50
1/2" Low Flow	I	0.22	0.70	I	Less than 0.04	0.798
	D	0.20	0.70	D	Less than 0.04	0.735
1/2" Low-Low Flow	I	Less than 0.01	1.15	I	Less than 0.04	0.798
	D	Less than 0.01	1.13	D	Less than 0.04	0.70
3/4" Standard	I	3.14	0.06	I	13.90	0.07
	D	2.42	0.06	D	11.42	0.07
3/4" Low Flow	I	5.99	0.80	I	5.37	0.036
	D	.513	0.80	D	4.67	0.036
3/4" Low-Low Flow	I	0.01	1.22	I	Less than 0.05	0.036
	D	0.01	1.22	D	Less than 0.05	0.036
1" Standard	I	3.20	0.06	I	23.63	0.07
	D	2.50	0.06	D	19.41	0.07
1" Low Flow	I	0.655	0.785	I	9.129	0.036
	D	0.64	0.78	D	7.939	0.036
1" Low-Low Flow	I	Less than 0.01	1.15	I	Less than 0.03	0.03
	D	0.01	1.1	D	Less than 0.03	0.03
1-1/2" Standard	I	3.44	0.72	I	26.0	0.07
	D	3.40	0.72	D	23.8	0.05
1-1/2" Low Flow	I	0.756	1.20	I	Less than 1.0	0.78
	D	0.755	1.20	D	Less than 1.0	0.67
1-1/2" Low-Low Flow	I	0.314	1.70	I	Less than 1.0	1.10
	D	0.313	1.70	D	Less than 1.0	0.93
2" Standard	I	5.98	0.70	I	35.40	0.07
	D	5.80	0.68	D	32.80	0.05
2" Low Flow	I	0.76	1.20	I	Less than 1.0	0.70
	D	0.75	1.20	D	Less than 1.0	0.61
2" Low-Low Flow	I	0.76	1.20	I	Less than 1.0	0.70
	D	0.32	1.90	D	Less than 1.0	0.86

\* Minimum Flow Rate Required For Actuation By H2O & GN<sup>2</sup> (based on vertical installation on horizontal pipe runs). All minimum actuation points are based on the switch being installed vertically (within 5° of vertical) in a horizontal pipe. Other installations must be called out at time of quotation. Water and nitrogen are used for flow testing to establish minimum activation and deactivation points. Switches will not work properly in turbulent flow and we recommend a minimum of 10 pipe diameters of straight run in front of the switch as well as 5 pipe diameters of straight run after it. All switches must be adjusted after installation unless a 3rd party calibration has been requested and provided.

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## Flow Rate and Pressure Drop Information

**\*\* Below are the Minimum Flow Rates Require**

Pipeline Size	GPM H2O		P	SCFM GN2		P
3" Standard 1-1/8" Wide Paddle	I	8.8	Less than 0.05	I	60.0	Less than 0.05
	D	8.20	Less than 0.05	D	57.30	Less than 0.05
3" Special 1-7/8" Wide Paddle	I	7.20	Less than 0.05	I	20.0	Less than 0.05
	D	6.50	Less than 0.05	D	16.80	Less than 0.05
4" Standard 1-1/8" Wide Paddle	I	21.0	Less than 0.05	I	69.0	Less than 0.05
	D	19.50	Less than 0.05	D	58.80	Less than 0.05
4" Special 1-7/8" Wide Paddle	I	11.80 **	Less than 0.05	I	20.10	Less than 0.05
	D	10.50 **	Less than 0.05	D	14.50	Less than 0.05
6" Standard 1-1/8" Wide Paddle	I	36.50	Less than 0.05	I	110.0	Less than 0.05
	D	33.0	Less than 0.05	D	40.40	Less than 0.05
6" Special 1-7/8" Wide Paddle	I	25.50 **	Less than 0.05	I	69.0	Less than 0.05
	D	20.50 **	Less than 0.05	D	58.90	Less than 0.05
8" Standard 1-1/8" Wide Paddle	I	45.0	Less than 0.05	I	140.0	Less than 0.05
	D	37.50	Less than 0.05	D	80.2	Less than 0.05
8" Special 1-7/8" Wide Paddle	I	35.70 **	Less than 0.05	I	95.0	Less than 0.05
	D	27.40 **	Less than 0.05	D	81.40	Less than 0.05
10" Standard 1-1/8" Wide Paddle	I	59.0	Less than 0.05	I	159.80	Less than 0.05
	D	42.50	Less than 0.05	D	94.20	Less than 0.05
10" Special 1-7/8" Wide Paddle	I	49.50 **	Less than 0.05	I	120.50	Less than 0.05
	D	35.0 **	Less than 0.05	D	82.0	Less than 0.05
12" Standard 1-1/8" Wide Paddle	I	79.90	Less than 0.05	I	170.50	Less than 0.05
	D	58.0	Less than 0.05	D	98.90	Less than 0.05
12" Special 1-7/8" Wide Paddle	I	71.0 **	Less than 0.05	I	140.0	Less than 0.05
	D	49.0 **	Less than 0.05	D	91.0	Less than 0.05

\*\* For Lower Actuation - Use Special Folding Paddle.

Velocity Chart			
Specific Gravity	Multiplier	Specific Gravity	Multiplier
0.40	1.65	0.95	1.03
0.45	1.55	1.00	1.00
0.50	1.46	1.05	0.97
0.55	1.39	1.10	0.95
0.60	1.33	1.15	0.92
0.65	1.27	1.20	0.90
0.70	1.22	1.25	0.88
0.75	1.17	1.30	0.86
0.80	1.13	1.35	0.84
0.85	1.10	1.40	0.82
0.90	1.06	1.45	0.80

Liquid Flow	
Velocity	Modification Required
Under 7 FPS	None - Use Standard Switch
7 - 10 FPS	Paddle Shroud
Over 10 FPS	High Flow Configuration

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