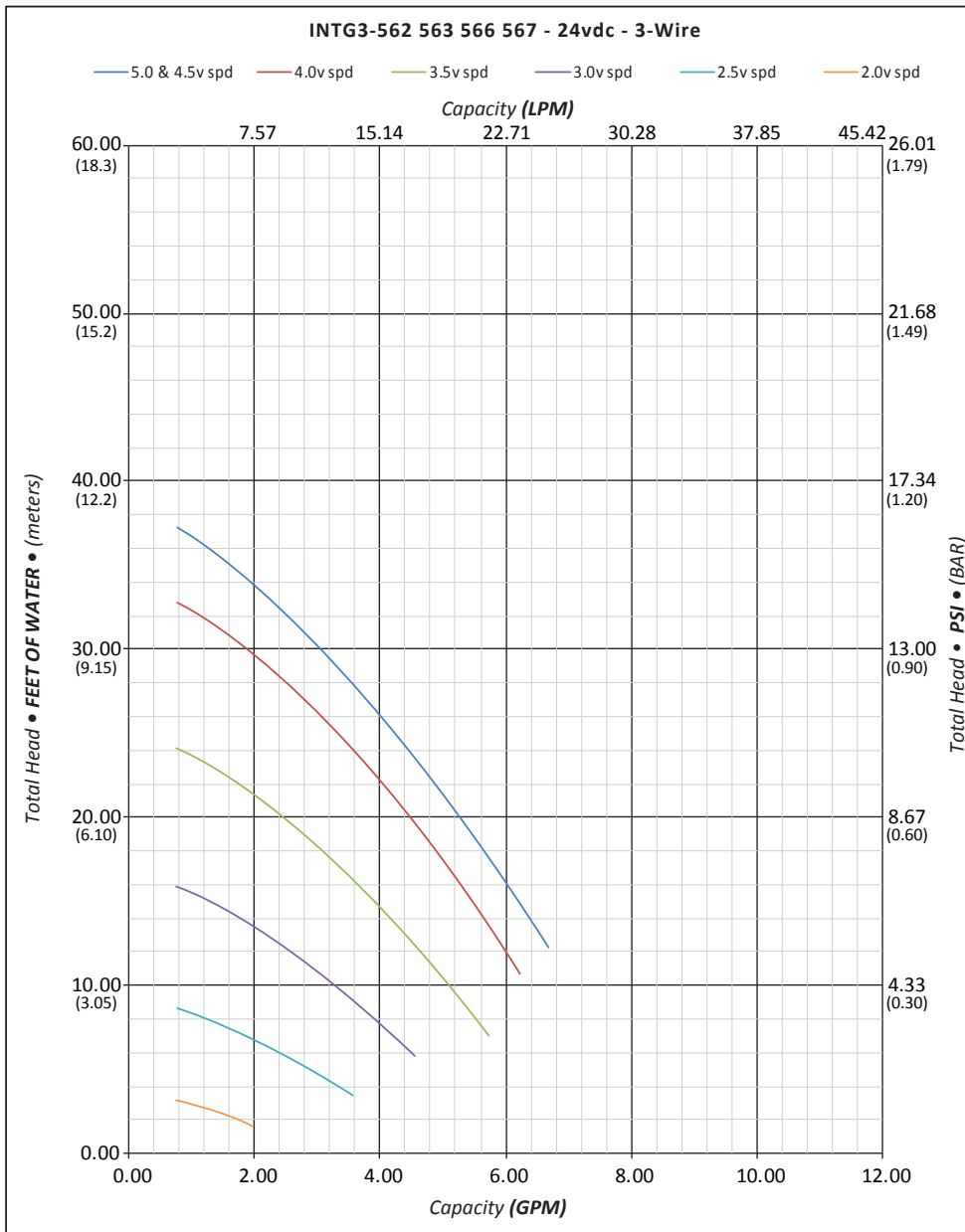


# INTG3-562 EPDM / 563 FKM Performance Curve

**Do Not Run Pumps Dry. Must have a flooded suction environment.**

Note: Testing performed in a controlled laboratory environment. Actual performance may vary (+) or (-) 10% from the information shown.



# INTG3-562 EPDM / 563 FKM

## Performance, Electrical Data

24 VDC / Speed Control @ 5.0 VDC								
FLOW		TOTAL HEAD				POWER		
GPM	LPM	FEET	PSI	BAR	METER	WATTS	VOLTS	AMPS
6.68	25.29	12.87	5.58	0.38	3.92	56.31	24.01	2.35
6.25	23.64	15.44	6.69	0.46	4.71	55.18	24.01	2.30
6.13	23.21	16.36	7.09	0.49	4.99	54.46	24.01	2.27
4.90	18.55	20.52	8.90	0.61	6.26	51.48	24.01	2.14
4.29	16.25	23.47	10.18	0.70	7.16	49.14	24.01	2.05
3.92	14.84	25.97	11.26	0.78	7.92	47.22	24.01	1.97
3.45	13.06	27.82	12.06	0.83	8.48	45.63	24.01	1.90
2.90	10.99	31.80	13.79	0.95	9.70	43.23	24.01	1.80
2.41	9.11	32.97	14.29	0.99	10.05	40.78	24.01	1.70
1.88	7.10	34.57	14.99	1.03	10.54	37.66	24.01	1.57
1.39	5.25	34.82	15.09	1.04	10.61	34.78	24.01	1.45
0.88	3.32	36.59	15.86	1.09	11.16	31.54	24.01	1.31
0.74	2.79	36.80	15.95	1.10	11.22	30.59	24.01	1.27
0.00	0.00	39.80	17.25	1.19	12.13	26.46	24.01	1.10

24 VDC / Speed Control @ 4.5 VDC								
FLOW		TOTAL HEAD				POWER		
GPM	LPM	FEET	PSI	BAR	METER	WATTS	VOLTS	AMPS
6.70	25.36	12.53	5.43	0.37	3.82	56.38	24.01	2.35
6.33	23.96	14.33	6.21	0.43	4.37	55.39	24.01	2.31
6.04	22.87	16.23	7.04	0.49	4.95	54.25	24.01	2.26
4.85	18.36	20.61	8.93	0.62	6.28	51.41	24.01	2.14
4.25	16.10	24.14	10.47	0.72	7.36	49.06	24.01	2.04
3.90	14.76	25.86	11.21	0.77	7.88	47.05	24.01	1.96
3.43	12.99	28.46	12.34	0.85	8.68	45.34	24.01	1.89
2.86	10.82	31.84	13.80	0.95	9.71	42.93	24.01	1.79
2.36	8.92	33.04	14.33	0.99	10.07	40.50	24.01	1.69
1.87	7.09	34.74	15.06	1.04	10.59	37.61	24.01	1.57
1.34	5.09	36.26	15.72	1.08	11.05	34.40	24.01	1.43
0.84	3.19	36.50	15.82	1.09	11.13	31.15	24.01	1.30
0.74	2.78	36.53	15.84	1.09	11.14	30.35	24.01	1.26
0.00	0.00	38.82	16.83	1.16	11.84	26.29	24.01	1.10

Note: Testing performed in a controlled laboratory environment. Actual performance may vary (+) or (-) 10% from the information shown.



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# INTG3-562 EPDM / 563 FKM

## Performance, Electrical Data

24 VDC / Speed Control @ 4.0 VDC								
FLOW		TOTAL HEAD				POWER		
GPM	LPM	FEET	PSI	BAR	METER	WATTS	VOLTS	AMPS
6.25	23.67	10.93	4.74	0.33	3.33	47.09	24.01	1.96
5.82	22.04	13.10	5.68	0.39	3.99	46.18	24.01	1.92
4.56	17.27	18.35	7.96	0.55	5.59	42.62	24.01	1.78
4.03	15.26	22.01	9.54	0.66	6.71	40.75	24.01	1.70
3.51	13.27	24.02	10.41	0.72	7.32	38.85	24.01	1.62
3.13	11.84	26.20	11.36	0.78	7.99	37.40	24.01	1.56
2.62	9.90	27.79	12.05	0.83	8.47	35.27	24.01	1.47
2.10	7.96	29.57	12.82	0.88	9.02	32.84	24.01	1.37
1.57	5.95	30.82	13.36	0.92	9.40	29.82	24.01	1.24
1.07	4.04	32.63	14.15	0.98	9.95	27.24	24.01	1.13
0.73	2.78	32.12	13.93	0.96	9.79	25.33	24.01	1.06
0.00	0.00	34.24	14.84	1.02	10.44	21.77	24.01	0.91

24 VDC / Speed Control @ 3.5 VDC								
FLOW		TOTAL HEAD				POWER		
GPM	LPM	FEET	PSI	BAR	METER	WATTS	VOLTS	AMPS
5.76	21.81	7.04	3.05	0.21	2.15	31.17	24.01	1.30
3.92	14.83	14.00	6.07	0.42	4.27	27.68	24.01	1.15
3.49	13.20	16.36	7.09	0.49	4.99	26.38	24.01	1.10
2.91	11.01	18.71	8.11	0.56	5.70	24.75	24.01	1.03
2.48	9.38	20.11	8.72	0.60	6.13	23.36	24.01	0.97
1.96	7.43	21.72	9.42	0.65	6.62	21.61	24.01	0.90
1.44	5.43	22.87	9.91	0.68	6.97	19.60	24.01	0.82
0.96	3.63	23.61	10.23	0.71	7.20	17.61	24.01	0.73
0.75	2.83	23.80	10.32	0.71	7.26	16.78	24.01	0.70
0.00	0.00	25.00	10.84	0.75	7.62	14.09	24.01	0.59

24 VDC / Speed Control @ 3.0 VDC								
FLOW		TOTAL HEAD				POWER		
GPM	LPM	FEET	PSI	BAR	METER	WATTS	VOLTS	AMPS
4.59	17.37	5.78	2.51	0.17	1.76	17.99	24.01	0.75
3.24	12.27	9.57	4.15	0.29	2.92	16.24	24.01	0.68
2.68	10.16	11.46	4.97	0.34	3.49	15.13	24.01	0.63
2.25	8.54	13.18	5.71	0.39	4.02	14.23	24.01	0.59
1.74	6.58	14.28	6.19	0.43	4.35	13.05	24.01	0.54
1.22	4.61	14.82	6.42	0.44	4.52	11.66	24.01	0.49
0.74	2.78	15.82	6.86	0.47	4.82	10.25	24.01	0.43
0.00	0.00	16.87	7.31	0.50	5.14	8.43	24.01	0.35

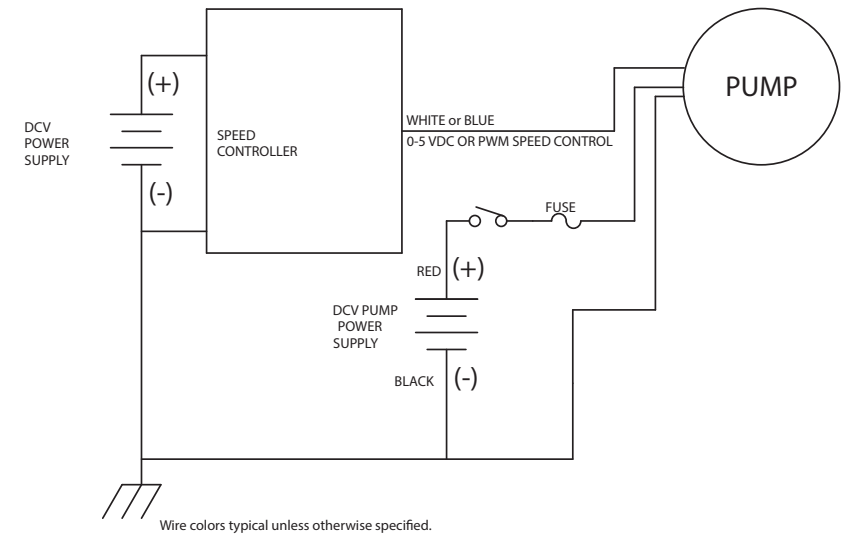
24 VDC / Speed Control @ 2.5 VDC								
FLOW		TOTAL HEAD				POWER		
GPM	LPM	FEET	PSI	BAR	METER	WATTS	VOLTS	AMPS
3.59	13.57	3.43	1.49	0.10	1.04	9.47	24.01	0.39
2.43	9.20	5.53	2.40	0.17	1.69	8.50	24.01	0.35
1.90	7.18	6.79	2.94	0.20	2.07	7.80	24.01	0.32
1.44	5.44	7.91	3.43	0.24	2.41	7.13	24.01	0.30
0.93	3.51	8.64	3.74	0.26	2.63	6.35	24.01	0.26
0.77	2.90	8.38	3.63	0.25	2.55	6.06	24.01	0.25
0.00	0.00	9.12	3.95	0.27	2.78	4.95	24.01	0.21

24 VDC / Speed Control @ 2.0 VDC								
FLOW		TOTAL HEAD				POWER		
GPM	LPM	FEET	PSI	BAR	METER	WATTS	VOLTS	AMPS
2.05	7.77	1.43	0.62	0.04	0.44	4.04	24.01	0.17
1.50	5.69	2.19	0.95	0.07	0.67	3.71	24.01	0.15
0.99	3.74	3.04	1.32	0.09	0.93	3.43	24.01	0.14
0.75	2.85	3.06	1.33	0.09	0.93	3.30	24.01	0.14
0.00	0.00	3.37	1.46	0.10	1.03	2.94	24.01	0.12

Note: Testing performed in a controlled laboratory environment. Actual performance may vary (+) or (-) 10% from the information shown.



# Electrical Specifications / Wiring Diagram

<b>60W/24V INTG3</b>		
<b>Wire Colors</b>		
Power (V+/V-)	Red/Black	
Speed	White	
Tach	N/A	
Operating Voltage Range	12-24 V	
Current at Nominal Voltage	2.55 A (at 24 V)	
Maximum Wattage	60 W	
Speed Control (DC Input)		Note: The negative of the control signal must be referenced to the negative of the pump supply. Input impedance of speed control is typically 100K Ohms
<b>OPTIONAL</b> <b>PWM</b>	Duty Cycle	N/A
	Frequency	N/A
	Voltage Range	N/A
	<b>ANALOG</b>	
	Voltage Range (Nominal)	0-5 V
Voltage Range (Actual)	2-4.5 V	Note: this varies with different wattage limits; pumps with lower limits may reach max performance before 4V.
<b>OPTIONAL</b> Tach Signal (DC Output)	Frequency	N/A
	Voltage Range	N/A
	RPM Calculation	N/A
	Note: The tach signal is a square wave; slew rate 40 micro sec/5 volt. Push/pull output. 6 pulses/revolution	
Start-Up Time	< 3 seconds	Note: Pump may take somewhat longer depending on the power supply
Max Inrush Current	At Start-Up	59 A
	50 to 100% Performance	N/A
Recommended Fuse	5 A (fast-acting)	



**INTG3-562 EPDM / 563 FKM**

**General Specifications, Wetted Materials**

**Do Not Run Pumps Dry. Pumps must be in a continuous flooded suction environment.**

General Specifications	
In-House Stator	50 Turns, 25 AWG
Motor Magnets	Segmented Neodymium
Suction Port	1/2" MHB
Discharge Port	1/2" MHB
Mounting Bracket	PPS material
Max Fluid Temp	149°F (65°C)
Max System Pressure	75 PSI
Weight	Approximately .8 LBS
Product Test Report	PTR23865

Wetted Materials	
Pump Body	PPS
Pump Adapter	PPS
Impeller	PPS
Impeller Shaft	Ceramic
Bearing	Ceramic
Static O-Ring	<b>EPDM:</b> INTG3-562 <b>FKM:</b> INTG3-563
Available agency approvals	RoHS/REACH
Contact GRI for UL, NSF, and Ingress Protection (IP) certifications.	Many GRI pumps are RoHS & REACH compliant. For declarations by specific model numbers, please contact GRI.



# INTG3-562 EPDM / 563 FKM Drawing & Dimensions

