

BRUSHLESS DC

Compressors and Vacuum Pumps

Piston & Diaphragm

MODELS:

Piston: 010ZC26, 415ZC36, 2618ZC44, 2619ZC44

Diaphragm: 107ZC18

FEATURES:

- No brushes
- High efficiency
- High starting torque
- High speed operation
- Long, service-free life
- Reversible
- Precise speed control (if needed)
- Variable speed
- Low noise
- Operates on highly portable DC power
- Oil-less operation

OPTIONS:



Electronic Controller Module required for operation of Brushless DC Motors. Control Modules are available from Thomas Industries. Consult factory for details.

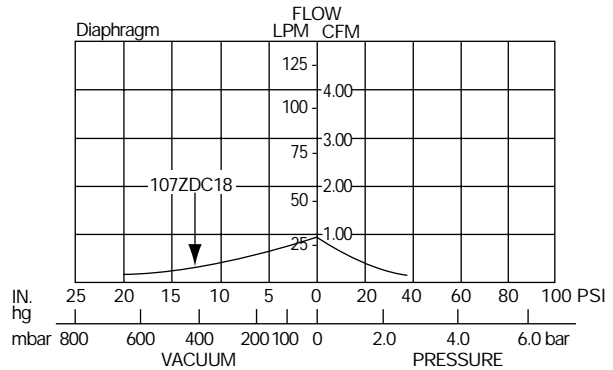
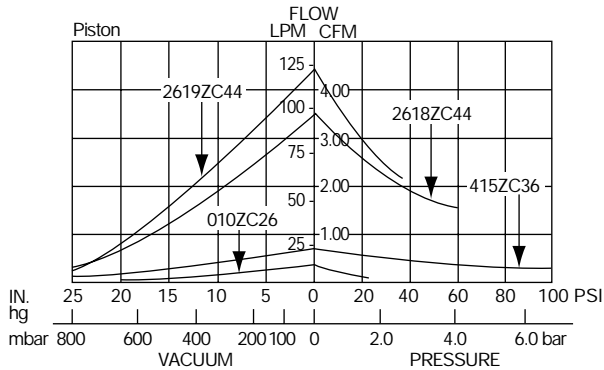


PISTON PERFORMANCE DATA:

DIAPHRAGM

MODEL NUMBER:		010ZC26		415ZC36		2618ZC44		2619ZC44	
HEAD CONFIGURATION:		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum	
STROKE:		.260 Inches		.360 Inches		.440 Inches		.440 Inches	
PRESSURE:		Flow @ 24v BLDC		Flow @ 24v BLDC		Flow @ 24v BLDC		Flow @ 24v BLDC	
CFM @ PSI	LPM @ bar								
PSI	bar	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM
0	0	.38	10.8	.64	18.1	3.59	101.7	4.40	124.6
5	.5	.32	8.3	.59	16.2	3.26	88.5	4.01	107.3
10	1.0	.26	5.8	.55	15.1	2.96	76.0	3.52	91.3
15	1.5	.20	3.8	.53	14.1	2.65	67.8	3.19	78.3
20	2.0	.15	2.2	.51	13.0	2.45	61.2	2.86	67.7
25	3.0	.10		.48	11.7	2.29	50.1	2.59	50.2
30	5.0	.07		.45	10.1	2.13		2.34	
35	7.0			.43	8.7	1.97		2.13	
40				.42		1.81			
50				.40		1.69			
60				.38		1.58			
70				.36					
80				.34					
90				.32					
100				.31					
MAX. CONTINUOUS PRESSURE:		30 PSI	2.1 bar	100 PSI	6.9 bar	50 PSI	3.4 bar	35 PSI	2.4 bar
MAX. INTERMITTENT PRESSURE:		30 PSI	2.1 bar	100 PSI	6.9 bar	50 PSI	3.4 bar	35 PSI	2.4 bar
VACUUM:		Flow @ 24v BLDC		Flow @ 24v BLDC		Flow @ 24v BLDC		Flow @ 24v BLDC	
CFM @ IN.hg	LPM @ mbar								
IN.hg	mbar	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM
0	0	.38	10.8	.64	18.1	3.59	101.7	4.40	124.6
5	100	.27	9.0	.49	15.6	2.64	85.8	3.14	103.5
10	200	.18	7.2	.39	13.4	1.97	71.3	2.30	84.6
15	400	.10	4.3	.28	10.0	1.36	49.5	1.54	57.3
20	600	.02	1.6	.18	6.4	.82	30.2	.88	33.4
25	800			.08	3.0	.32	13.0	.27	12.4
MAX. VACUUM:		20.0" hg	700 mbar	27.0" hg	915 mbar	27.5" hg	932 mbar	27.5" hg	932 mbar
MAX. AMBIENT TEMPERATURE:		104°F	40°C	104°F	40°C	104°F	40°C	104°F	40°C
MIN. AMBIENT TEMPERATURE:		50°F	10°C	50°F	10°C	50°F	10°C	50°F	10°C
MOTOR VOLTAGE/FREQUENCY:		24v BLDC		24v BLDC		24v BLDC		24v BLDC	
HORSEPOWER:		1/30		1/10		1/3		1/3	
MOTOR TYPE:		Brushless DC		Brushless DC		Brushless DC		Brushless DC	
CURRENT AT RATED LOAD (AMPS):		1.3		3.3		16.0		16.0	
TEST SPEED (NO LOAD) (RPM):		3000*		2000*		2000*		2000*	

MODEL NUMBER:		107ZC18	
HEAD CONFIGURATION:		Pressure/Vacuum	
STROKE:		.180 Inches	
PRESSURE:		Flow @ 24v BLDC	
CFM @ PSI	LPM @ bar		
PSI	bar	CFM	LPM
0	0	.96	27.2
5	.5	.77	20.0
10	1.0	.63	14.8
15	1.5	.51	10.3
20	2.0	.40	6.7
25	3.0	.30	
30	5.0	.22	
35	7.0	.11	
MAX. CONTINUOUS PRESSURE:		35 PSI	2.4 bar
MAX. INTERMITTENT PRESSURE:		35 PSI	2.4 bar
VACUUM:		Flow @ 24v BLDC	
CFM @ IN.hg	LPM @ mbar		
IN.hg	mbar	CFM	LPM
0	0	.96	27.2
5	100	.69	22.7
10	200	.46	18.4
15	400	.29	11.3
20	600	.12	5.6
25	800		
MAX. VACUUM:		23.0" hg	800 mbar
MAX. AMBIENT TEMPERATURE:		104°F	40°C
MIN. AMBIENT TEMPERATURE:		50°F	10°C
MOTOR VOLTAGE/FREQUENCY:		24v BLDC	
HORSEPOWER:		1/20	
MOTOR TYPE:		Brushless DC	
CURRENT AT RATED LOAD (AMPS):		2.3	
TEST SPEED (NO LOAD) (RPM):		2000*	



*Brushless DC Motors are variable speed. Consult the factory with your specific design requirements.

The information presented in this material is based on technical data and test results of nominal units. It is believed to be accurate and reliable and is offered as an aid to help in the selection of Thomas products. It is the responsibility of the user to determine the suitability of the product for his intended use and the user assumes all risk and liability whatsoever in connection therewith. Thomas Industries does not warrant, guarantee or assume any obligation or liability in connection with this information.

Note: Models pictured are representative of the series and do not represent a specific model number. Consult factory for detailed physical description.

