

Rotary Vane Vacuum and Pressure Pumps

Product Overview

Model	Flow	Max. Pressure	Max. vaccum	Page
G 01-K-LC	2,2 l/min	80 mbar	7 %	3
G 01-K-EB	1,4 l/min	40 mbar	4 %	4
G 01 EB	1,6 l/min	180 mbar	20 %	5
G 01-4 EB	1,4 l/min	280 mbar	29 %	6
G 02 EB	3,6 l/min	190 mbar	19 %	7
G 02-4 EB	3,7 l/min	310 mbar	31 %	8
G 02-8	2,7 l/min	410 mbar	37 %	9
BL-G 02-4	2,1 l/min	200 mbar	19 %	10
G 04 EB	6,8 l/min	150 mbar	16 %	11
G 04-4 EB	5,1 l/min	240 mbar	26 %	12
G 04-8	4,4 l/min	260 mbar	25 %	13
G 045-LC	6,5 l/min	750 mbar	63 %	14
G 045	6,1 l/min	750 mbar	70 %	15
G 07	21 l/min	1400 mbar	77 %	16
G 07-N	20 l/min	900 mbar	72 %	17
G 08	15,5 l/min	1400 mbar	83 %	18
G 08-T	36 l/min	1400 mbar	93 %	19
BL-G 085 M	8,5 l/min	450 mbar	50 %	20
G 09	11 l/min	370 mbar	35 %	21

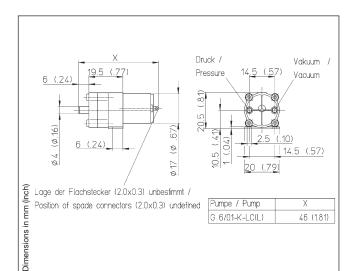


Rotary Vane Pump G 01-K-LC

2,2 l/min
80 mbar
7 %







Pneumatic Data		
Description	G 6/01-K-LCL	G 6/01-K-LC
Part number	50027	50017
Max. flow	2,0 l/min	2,2 l/min
Max. intermittent pressure	60 mbar	80 mbar
Max. continuous pressure	25 mbar	25 mbar
Max. intermittent vacuum	6%	7%
Max. continuous vacuum	2,5%	2,5%

Electrical Data		
Motor type	Permanent magnet	Permanent magnet
Nominal voltage	6 V DC	6 V DC
Min. current consumption	0,17 A	0,18 A
Max. current consumption	0,23 A	0,27 A
Protection class	IP40	IP40
Motor bearing	Sleeve bearing	Sleeve bearing
General Data		

0 to 40 °C

0,03 kg

cw/ccw

All listed values are measured at standard atmospheric conditions.

0 to 40 °C

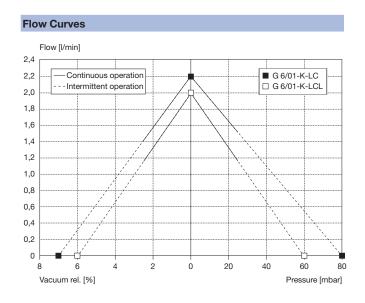
0,03 kg

cw/ccw

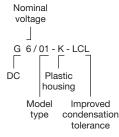
Ambient temperature

Direction of rotation

Weight



Model key:



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500... Stock programme



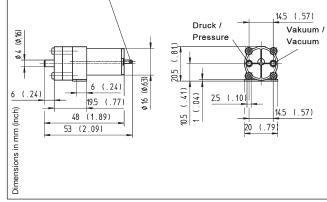
Rotary Vane Pump G 01-К-ЕВ

1,4 l/min
40 mbar
4 %



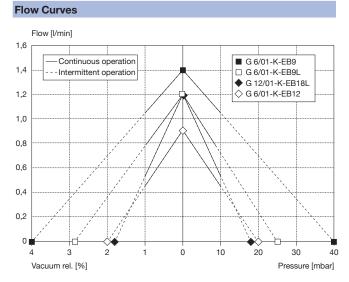


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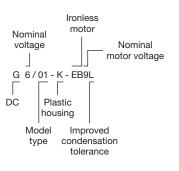


Pneumatic Data				
Description	G 6/01-K-EB12	G 6/01-K-EB9L	G 6/01-K-EB9	G 12/01-K-EB18L
Part number	50251	50094	50250	50080
Max. flow	0,9 l/min	1,2 l/min	1,4 l/min	1,2 l/min
Max. intermittent pressure	20 mbar	25 mbar	40 mbar	18 mbar
Max. continuous pressure	10 mbar	10 mbar	10 mbar	10 mbar
Max. intermittent vacuum	2 %	2,8 %	4 %	1,8 %
Max. continuous vacuum	1 %	1 %	1 %	1 %
Electrical Data				
Motor type	Ironless Core DC	Ironless Core DC	Ironless Core DC	Ironless Core DC
Nominal voltage	6 V DC	6 V DC	6 V DC	12 V DC
Min. current consumption	18 mA	36 mA	50 mA	25 mA
Max. current consumption	30 mA	65 mA	70 mA	48 mA
Protection class	IP50	IP50	IP50	IP50
Motor bearing	Sleeve bearing	Sleeve bearing	Sleeve bearing	Sleeve bearing
General Data				
Ambient temperature	-20 to 40° C			
Weight	0,04 kg	0,04 kg	0,04 kg	0,04 kg
Direction of rotation	cw/ccw	cw/ccw	cw/ccw	cw/ccw

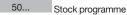
All listed values are measured at standard atmospheric conditions.



Model key:



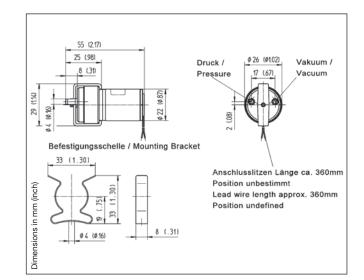
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Rotary Vane Pump G 01 EB

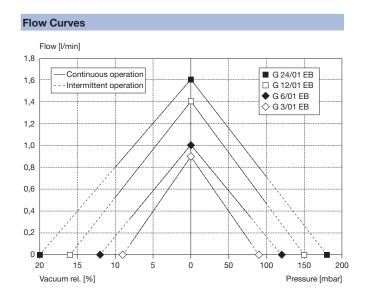
Flow	1,6 l/min	
Max. pressure	180 mbar	
Max. vacuum	20 %	
-	1	
		6
		OIL



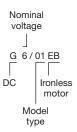
Pneumatic Data				
Description	G 3/01 EB	G 6/01 EB	G 12/01 EB	G 24/01 EB
Part number	50083	50081	50096	50099
Max. flow	0,9 l/min	1,0 l/min	1,4 l/min	1,6 l/min
Max. intermittent pressure	90 mbar	120 mbar	150 mbar	180 mbar
Max. continuous pressure	80 mbar	80 mbar	100 mbar	100 mbar
Max. intermittent vacuum	9 %	12 %	16 %	20 %
Max. continuous vacuum	8 %	8 %	10 %	10 %
Electrical Data				
Motor type	Ironless Core DC	Ironless Core DC	Ironless Core DC	Ironless Core DC
Nominal voltage	3 V DC	6 V DC	12 V DC	24 V DC
Min. current consumption	0,12 A	0,07 A	0,09 A	0,05 A
Max. current consumption	0,28 A	0,19 A	0,20 A	0,13 A
Protection class	IP50	IP50	IP50	IP50
Motor bearing	Sleeve bearing	Sleeve bearing	Sleeve bearing	Sleeve bearing
General Data				
Ambient temperature	-30 to 50 °C			
Weight	0,1 kg	0,1 kg	0,1 kg	0,1 kg
Direction of rotation	CW	CW	CW	CW

Pumps include mounting bracket.

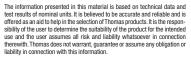
All listed values are measured at standard atmospheric conditions.



Model key:



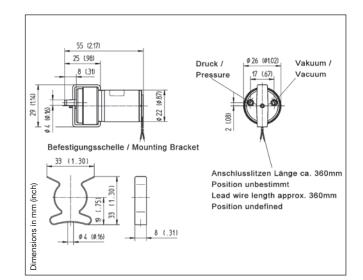
500... Stock programme





Rotary Vane Pump G 01-4-EB

Flow	1,4 l/min	
Max. pressure Max. vacuum	280 mbar 29 %	
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-		6

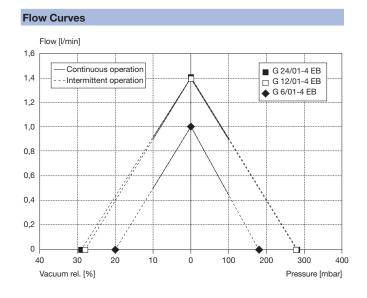


Pneumatic Data				
Description	G 6/01-4 EB	G 12/01-4 EB	G 24/01-4 EB	
Part number	50088	50090	50092	
Max. flow	1,0 l/min	1,4 l/min	1,4 l/min	
Max. intermittent pressure	180 mbar	280 mbar	280 mbar	
Max. continuous pressure	100 mbar	100 mbar	100 mbar	
Max. intermittent vacuum	20 %	28 %	29 %	
Max. continuous vacuum	10 %	10 %	10 %	
Electrical Data				
Motor type	Ironless Core DC	Ironless Core DC	Ironless Core DC	
Nominal voltage	6 V DC	12 V DC	24 V DC	
Min. current consumption	0,10 A	0,11 A	0,06 A	
Max. current consumption	0,32 A	0,31 A	0,17 A	
Protection class	IP50	IP50	IP50	
Motor bearing	Sleeve bearing	Sleeve bearing	Sleeve bearing	
	-	-		
General Data				

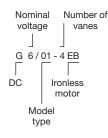
Ambient temperature -30 to 50 °C -30 to 50 °C -30 to 50 °C Weight 0,1 kg 0,1 kg 0,1 kg Direction of rotation cw/ccw cw/ccw cw/ccw	General Data				
	Ambient temperature	-30 to 50 °C	-30 to 50 °C	-30 to 50 °C	
Direction of rotation cw/ccw cw/ccw cw/ccw	Weight	0,1 kg	0,1 kg	0,1 kg	
	Direction of rotation	cw/ccw	cw/ccw	cw/ccw	

Pumps include mounting bracket.

All listed values are measured at standard atmospheric conditions.



Model key:



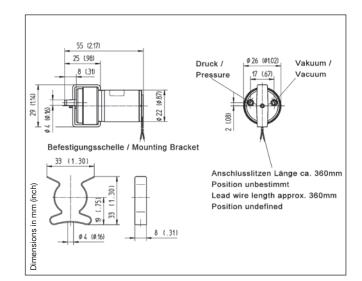
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500... Stock programme



Rotary Vane Pump G 02 EB

Flow	3,6 l/min 190 mbar	
Max. pressure Max. vacuum	19 %	
0		
		OIL



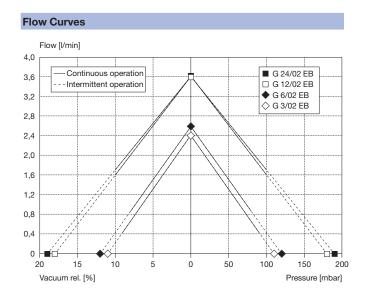
Description	G 3/02 EB	G 6/02 EB	G 12/02 EB	G 24/02 EB
Part number	50084	50103	50095	50098
Max. flow	2,4 l/min	2,6 l/min	3,6 l/min	3,6 l/min
Max. intermittent pressure	110 mbar	120 mbar	180 mbar	190 mbar
Max. continuous pressure	90 mbar	80 mbar	100 mbar	100 mbar
Max. intermittent vacuum	11 %	12 %	18 %	19 %
Max. continuous vacuum	9 %	8 %	10 %	10 %

Motor type	Ironless Core DC	Ironless Core DC	Ironless Core DC	Ironless Core DC
Nominal voltage	3 V DC	6 V DC	12 V DC	24 V DC
Min. current consumption	0,16 A	0,09 A	0,09 A	0,07 A
Max. current consumption	0,53 A	0,30 A	0,33 A	0,18 A
Protection class	IP50	IP50	IP50	IP50
Motor bearing	Sleeve bearing	Sleeve bearing	Sleeve bearing	Sleeve bearing

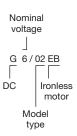
General Data				
Ambient temperature	-30 to 50 °C			
Weight	0,1 kg	0,1 kg	0,1 kg	0,1 kg
Direction of rotation	CW	CW	CW	CW

Pumps include mounting bracket.

All listed values are measured at standard atmospheric conditions.



Model key:



50... Stock programme

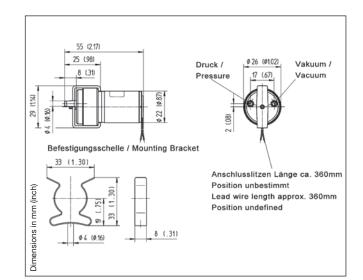
Current consumption: Min.: at open flow Max.: at max. intermittent operation

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Rotary Vane Pump G 02-4 EB

Flow Max. pressure	3,7 l/min 310 mbar
Max. vacuum	31 %
FA	
000	



Pneumatic Data

Description	G 6/02-4 EB	G 12/02-4 EB	G 24/02-4 EB	
Part number	50089	50091	50093	
Max. flow	2,6 l/min	3,5 l/min	3,7 l/min	
Max. intermittent pressure	230 mbar	310 mbar	310 mbar	
Max. continuous pressure	100 mbar	100 mbar	100 mbar	
Max. intermittent vacuum	23 %	31 %	31 %	
Max. continuous vacuum	10 %	10 %	10 %	

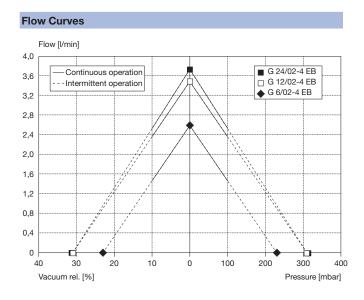
Electrical Data Motor type Ironless Core DC Ironless Core DC Ironless Core DC 12 V DC 24 V DC 6 V DC Nominal voltage Min. current consumption 0,13 A 0,15 A 0,09 A 0,27 A Max. current consumption 0,53 A 0,51 A Protection class IP50 IP50 IP50 Sleeve bearing Motor bearing Sleeve bearing Sleeve bearing

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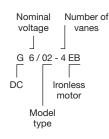
General Data				
Ambient temperature	-30 to 50 °C	-30 to 50 °C	-30 to 50 °C	
Weight	0,1 kg	0,1 kg	0,1 kg	
Direction of rotation	cw/ccw	cw/ccw	cw/ccw	

Pumps include mounting bracket.

All listed values are measured at standard atmospheric conditions.



Model key:



Stock programme Current consumption:

500...

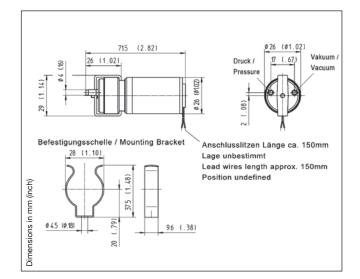
Min.: at open flow Max.: at max. intermittent operation

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Rotary Vane Pump G 02-8





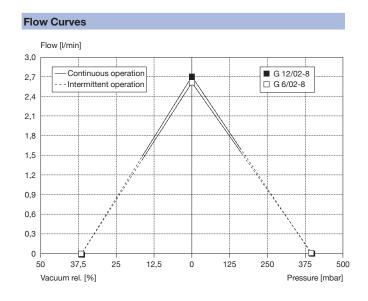
G 6/02-8	G 12/02-8	
50163	50165	
2,6 l/min	2,7 l/min	
410 mbar	410 mbar	
200 mbar	200 mbar	
37 %	37 %	
20 %	20%	
	50163 2,6 l/min 410 mbar 200 mbar 37 %	50163 50165 2,6 l/min 2,7 l/min 410 mbar 410 mbar 200 mbar 200 mbar 37 % 37 %

Electrical Data		
Motor type	Ironless Core DC	Ironless Core DC
Nominal voltage	6 V DC	12 V DC
Min. current consumption	0,23 A	0,11 A
Max. current consumption	0,70 A	0,35 A
Protection class	IP50	IP50
Motor bearing	Ball bearing	Ball bearing

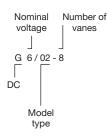
General Data		
Ambient temperature	-30 to 50 °C	-30 to 50 °C
Weight	0,13 kg	0,13 kg
Direction of rotation	cw/ccw	cw/ccw

Pumps include mounting bracket.

All listed values are measured at standard atmospheric conditions.



Model key:



501... Stock programme

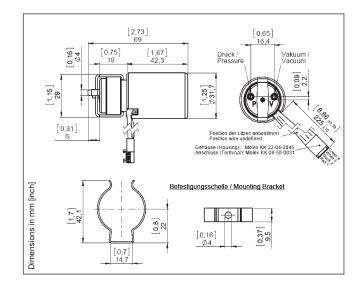
Current consumption: Min.: at open flow Max.: at max. intermittent operation

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Rotary Vane Pump BL-G 02-4

Flow Max. pressure	2,4 l/min 200 mbar	
Max. vacuum	22 %	
4.0-1		
		OIL-LES



Pneumatic Data	а						
Description		BL-G 12/02-4					
Part number		50180					
Max. flow		2,1 l/min					
Max. intermittent	t pressure	200 mbar					
Max. continuous	pressure	150 mbar					
Max. intermittent	t vacuum	19%					
Max. continuous	vacuum	15%					
Electrical Data							
Motor type		Brushless DC					
Nominal voltage		12 V DC					
Drive electronics		integrated with reve	erse sup	ply voltage p	orotection		
Min. current con	sumption	0,16 A					
Max. current cor	sumption	0,33 A					
Protection class		IP00					
Motor bearing		Ball bearing					
Connector	Housing:	Molex KK 22-01-20	45				
	Terminal:	Molex KK 08-50-00	31				
Wiring diagram				Function	Colour	Control	
			Pin 1	V Supply	Red	12 VDC	(max, voltage range: 10, 18 VDC)



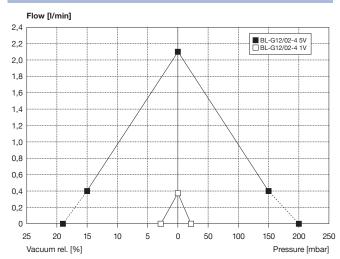
Adapter for 2-wire duty incl. potentiometer for speed adjustment part number 29011932

50-	0031			
		Function	Colour	Control
	Pin 1	V Supply	Red	12 VDC (max. voltage range: 1018 VDC) 24 VDC (max. voltage range: 1028 VDC)
ĺ	Pin 2	Ground	Black	Ground for Vsupply (PIN 1) and Speed Control (PIN3)
	Pin 3	Speed control	White	analog: 05 VDC (max. 28V) PWM: 620 kHz - 1496% Speed voltage input threshold: 0,2 V
	Pin 4	Tacho out	Green	18 pulses per revolution Pulse time "LOW": 195 µs Output level "LOW": 0 / max. 0,5 V Output level "HIGH": min. 4 V / max. 5 V

General Data

donoral Bata	
Ambient temperature	0 to 50 °C
Weight	0,13 kg
Direction of rotation	CW

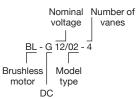
Flow Curves



Pumps include mounting bracket

Above performance values are based on max. control voltage 5V All listed values are measured at standard atmospheric conditions and at 50Hz.

Model key:



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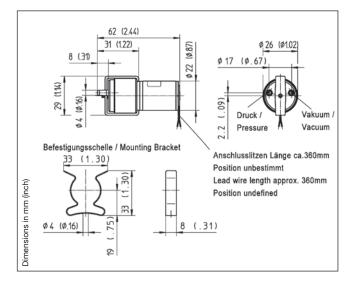


Current consumption: Min.: at open flow Max.: at max. intermittent operation

THOMAS by Gardner Denver

Rotary Vane Pump G 04 EB





G 24/04 EB

50104

6 8 l/min

G 12/04 EB

50097

6 2 l/min

Pneumatic Data Description G 3/04 EB G 6/04 EB Part number 50085 50102 Max. flow 4,5 l/min 4,7 l/min Max. intermittent pressure 100 mbar 110 mbar

Max. flow	4,5 l/min	4,7 l/min	6,2 l/min	6,8 l/min
Max. intermittent pressure	100 mbar	110 mbar	140 mbar	150 mbar
Max. continuous pressure	50 mbar	50 mbar	50 mbar	40 mbar
Max. intermittent vacuum	11 %	12 %	15 %	16 %
Max. continuous vacuum	5 %	5 %	5 %	4 %
Electrical Data				

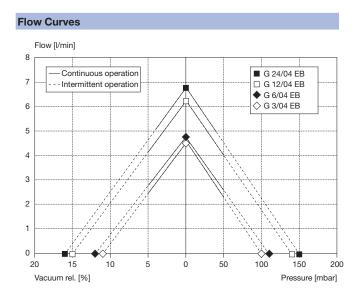
Motor type	Ironless Core DC	Ironless Core DC	Ironless Core DC	Ironless Core DC
Nominal voltage	3 V DC	6 V DC	12 V DC	24 V DC
Min. current consumption	0,26 A	0,16 A	0,18 A	0,11 A
Max. current consumption	0,80 A	0,48 A	0,47 A	0,26 A
Protection class	IP50	IP50	IP50	IP50
Motor bearing	Ball bearing/Sleeve bearing	Ball bearing/Sleeve bearing	Ball bearing/Sleeve bearing	Ball bearing/Sleeve bearing

General Data

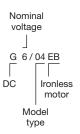
General Data					
Ambient temperature	-30 to 50 °C				
Weight	0,1 kg	0,1 kg	0,1 kg	0,1 kg	
Direction of rotation	CW	CW	CW	CW	

Pumps include mounting bracket.

All listed values are measured at standard atmospheric conditions.



Model key:

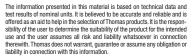


Current consumption:

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Min.: at open flow Max.: at max. intermittent operation

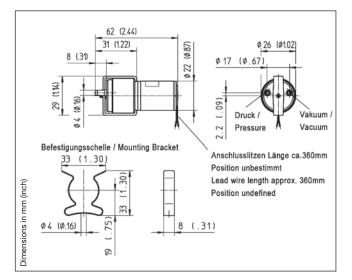
Stock programme





Rotary Vane Pump G 04-4-EB



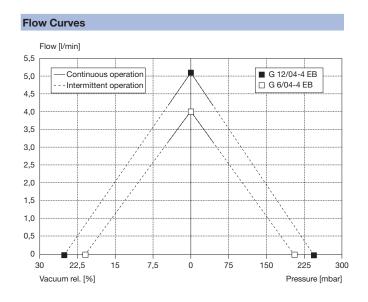


Pneumatic Data		
Description	G 6/04-4 EB	G 12/04-4 EB
Part number	50101	50100
Max. flow	4,0 l/min	5,1 l/min
Max. intermittent pressure	200 mbar	240 mbar
Max. continuous pressure	50 mbar	50 mbar
Max. intermittent vacuum	21 %	26 %
Max. continuous vacuum	5 %	5 %
Electrical Data		
Motor type	Ironless Core DC	Ironless Core DC
Nominal voltage	6 V DC	12 V DC
Min. current consumption	0,30 A	0,29 A
Max. current consumption	0,85 A	0,70 A
Protection class	IP50	IP50
Motor bearing	Ball bearing/Sleeve bearing	Ball bearing/Sleeve bearing
General Data		
Ambient temperature	-30 to 50 °C	-30 to 50 °C
Weight	0,1 kg	0,1 kg

Direction of rotation Pumps include mounting bracket.

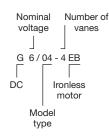
All listed values are measured at standard atmospheric conditions.

cw/ccw



Model key:

cw/ccw



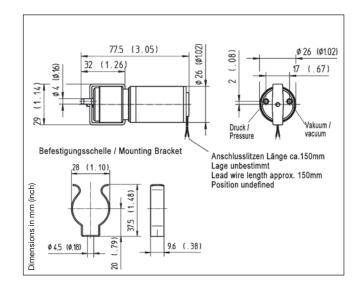
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50... Stock programme



Rotary Vane Pump G 04-8

Flow	4,4 l/min	
Max. pressure	260 mbar	
Max. vacuum	25 %	
1 5° ()/		



Pneumatic Data	
Description	G 12/04-8
Part number	50119
Max. flow	4,4 l/min
Max. intermittent pressure	260 mbar
Max. continuous pressure	100 mbar
Max. intermittent vacuum	25 %
Max. continuous vacuum	10 %
Electrical Data	
Motor type	Ironless Core DC
Nominal voltage	12 V DC
Min. current consumption	0,21 A
Max. current consumption	0,51 A
Protection class	IP50
Motor bearing	Ball bearing
General Data	
Ambient temperature	-30 to 50 °C

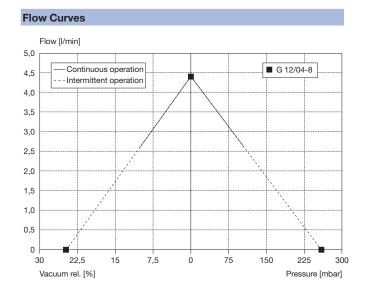
Direction of rotation

Weight

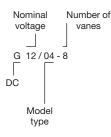
All listed values are measured at standard atmospheric conditions.

0,14 kg

cw/ccw



Model key:



Current consumption: Min.: at open flow Max.: at max. intermittent operation

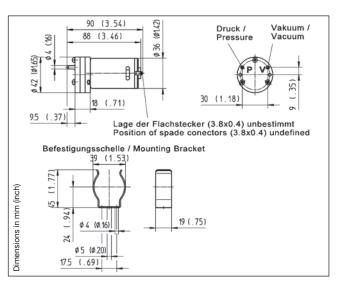
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Rotary Vane Pump G 045-LC

Flow	7,5 l/min	
Max. pressure	900 mbar	
Max. vacuum	63 %	





Pneumatic Data		
Description	G 12/045-LC	
Part number	50213	
Max. flow	6,5 l/min	
Max. intermittent pressure	750 mbar	
Max. continuous pressure	100 mbar	
Max. intermittent vacuum	63 %	
Max. continuous vacuum	10%	
Electrical Data		

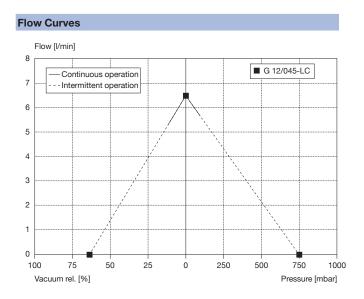
Permanent magnet	
12 V DC	
1,8 A	
3,5 A	
IP20	
Ball bearing/Sleeve bearing	

General Data

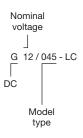
Ambient temperature -10 to 40 °C Weight 0,25 kg Direction of rotation cw/ccw	deneral bata		
	Ambient temperature	-10 to 40 °C	
Direction of rotation cw/ccw	Weight	0,25 kg	
	Direction of rotation	cw/ccw	

Pumps include mounting bracket.

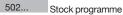
All listed values are measured at standard atmospheric conditions.



Model key:



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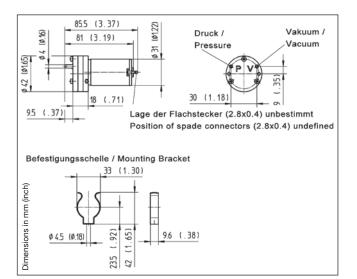


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THO	VI	AS)
by Gar	dner	Denver	

Rotary Vane Pump G 045

6,1 l/min
750 mbar
70 %





G 12/045	G 24/045
50200	50201
5,5 l/min	6,1 l/min
650 mbar	750 mbar
150 mbar	150 mbar
58 %	70 %
15 %	15 %
Permanent magnet	Permanent magnet
12 V DC	24 V DC
0,64 A	0,33 A
1,36 A	0,77 A
IP30	IP30
	50200 5,5 I/min 650 mbar 150 mbar 58 % 15 % Permanent magnet 12 V DC 0,64 A 1,36 A

General Data			
Ambient temperature	10 to 40 °C	10 to 40 °C	
Weight	0,25 kg	0,25 kg	
Direction of rotation	cw/ccw	cw/ccw	

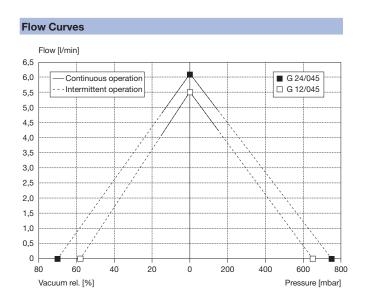
Ball bearing

Ball bearing

Pumps include mounting bracket.

Motor bearing

All listed values are measured at standard atmospheric conditions.



Model key:



50... Stock programme

Current consumption: Min.: at open flow Max.: at max. intermittent operation

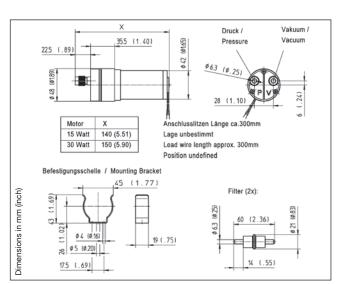
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Rotary Vane Pump G 07

Flow	21 I/min	
Max. pressure	1,4 bar	
Max. vacuum	77 %	

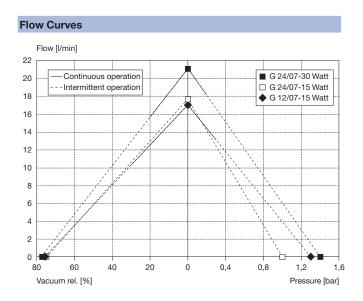




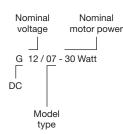
Pneumatic Data			
Description	G 12/07-15 Watt	G 24/07-15 Watt	G 24/07-30 Watt
Part number	50336	50218	50221
Max. flow	17,0 l/min	17,5 l/min	21,0 l/min
Max. intermittent pressure	1,3 bar	1,0 bar	1,4 bar
Max. continuous pressure	0,3 bar		0,2 bar
Max. intermittent vacuum	76 %	75 %	77 %
Max. continuous vacuum	30 %		20 %
Electrical Data			
Motor type	Permanent magnet	Permanent magnet	Permanent magnet
Nominal voltage	12 V DC	24 V DC	24 V DC
Min. current consumption	1,9 A	1,1 A	1,9 A
Max. current consumption	3,2 A	1,6 A	2,5 A
Protection class	IP40	IP40	IP40
Motor bearing	Ball bearing	Ball bearing	Ball bearing
General Data			
Ambient temperature	-10 to 40 °C	-10 to 40 °C	-10 to 40 °C
Weight	0,6 kg	0,6 kg	0,7 kg
Direction of rotation	CW	CW	CW

Pumps include tube connector (2x) G 1/8 to tube I.D. 6 mm, mounting bracket and filter (2x).

All listed values are measured at standard atmospheric conditions.



Model key:



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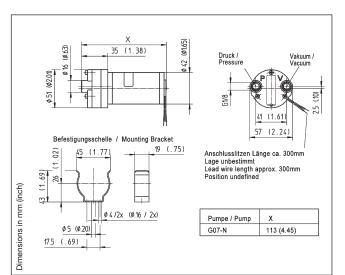
50... Stock programme



Rotary Vane Pump G 07-N

Flow	20 I/min
Max. pressure	0,9 bar
Max. vacuum	72 %





Pneumatic Data			
Description	G 12/07-N	G 24/07-N	G 24/07-N rev.
Part number	50316	50311	50220
Max. flow	20 l/min	18 l/min	17 l/min
Max. intermittent pressure	0,90 bar	0,80 bar	0,7 bar
Max. continuous pressure	0,25 bar	0,30 bar	0,3 bar
Max. intermittent vacuum	70 %	72 %	55 %
Max. continuous vacuum	25 %	30 %	30 %
Electrical Data			
Motor type	Permanent magnet	Permanent magnet	Permanent magnet
Nominal voltage	12 V DC	24 V DC	24 V DC
Min. current consumption	2,6 A	0,8 A	0,9 A
Max. current consumption	4,6 A	1,6 A	2,0 A
Protection class	IP40	IP40	IP40
Motor bearing	Ball bearing	Ball bearing	Ball bearing
General Data			
Ambient temperature	-10 to 40 °C	-10 to 40 °C	-10 to 40 °C
· · · ·			

Pumps include mounting bracket.

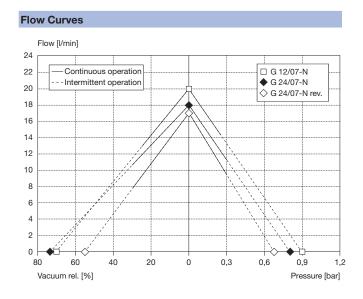
Direction of rotation

Weight

All listed values are measured at standard atmospheric conditions.

0,5 kg

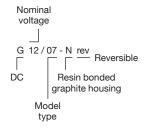
CW



Model key:

0,5 kg

CW



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50... Stock programme

0,5 kg

cw/ccw

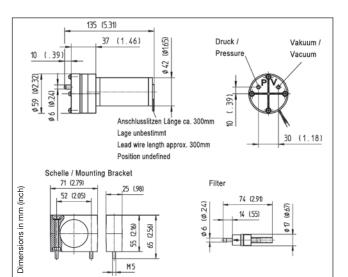
Current consumption: Min.: at open flow Max.: at max. intermittent operation

THOMAS by Gardner Denver

Rotary Vane Pump G 08

15,5 l/min
1,4 bar
83 %





DIL-LESS

Pneumatic Data			
Description	G 12/08-30 Watt	G 24/08-30 Watt	G 24/08-30 Watt rev.
Part number	50325	50358	50360
Max. flow	15,5 l/min	15,5 l/min	15,5 l/min
Max. intermittent pressure	1,2 bar	1,4 bar	1,2 bar
Max. continuous pressure	0,3 bar	0,3 bar	0,3 bar
Max. intermittent vacuum	80 %	83 %	74 %
Max. continuous vacuum	30 %	30 %	30 %
Electrical Data			
Motor type	Permanent magnet	Permanent magnet	Permanent magnet
	Permanent magnet 12 V DC	Permanent magnet 24 V DC	Permanent magnet 24 V DC
Motor type	0	0	
Motor type Nominal voltage	12 V DC	24 V DC	24 V DC
Motor type Nominal voltage Min. current consumption	12 V DC 1,5 A	24 V DC 0,8 A	24 V DC 0,6 A
Motor type Nominal voltage Min. current consumption Max. current consumption	12 V DC 1,5 A 3,2 A	24 V DC 0,8 A 1,6 A	24 V DC 0,6 A 1,8 A
Motor type Nominal voltage Min. current consumption Max. current consumption Protection class	12 V DC 1,5 A 3,2 A IP40	24 V DC 0,8 A 1,6 A IP40	24 V DC 0,6 A 1,8 A IP40

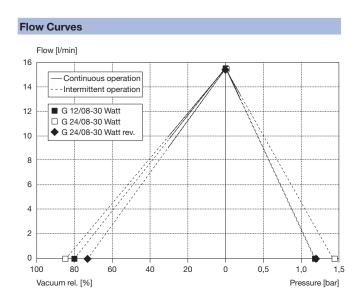
Direction of rotation	CW	

Pumps include mounting bracket and filter.

Weight

All listed values are measured at standard atmospheric conditions.

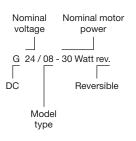
0,75 kg



Model key:

0,75 kg

cw



0,75 kg

cw/ccw

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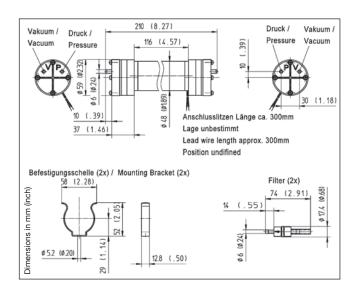
503... Stock programme



Rotary Vane Pump G 08-T

36 l/min
1,4 bar
93 %





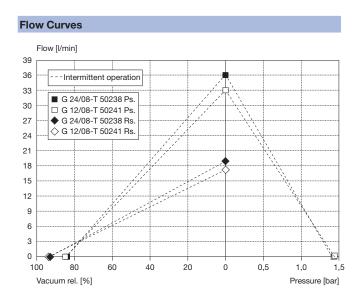
Pneumatic Data				
Description	G 12/08-T	G 12/08-T	G 24/08-T	G 24/08-T
Part number	50241	50241	50238	50238
	connected in series	connected in parallel	connected in series	connected in parallel
Max. flow	17 l/min	33 l/min	19 l/min	36 l/min
Max. intermittent pressure		1,4 bar		1,4 bar
Max. intermittent vacuum	93 %	84 %	93 %	84 %
Electrical Data				
Motor type	Permanent magnet	Permanent magnet	Permanent magnet	Permanent magnet
Nominal voltage	12 V DC	12 V DC	24 V DC	24 V DC
Min. current consumption	4,0 A	4,0 A	2,0 A	2,0 A
Max. current consumption	5,0 A	8,0 A	2,5 A	4,0 A
	IP40	IP40	IP40	IP40
Protection class	11 40			

General Data				
Ambient temperature	-10 to 40 °C			
Weight	1,3 kg	1,3 kg	1,3 kg	1,3 kg
Direction of rotation	CW	CW	CW	CW

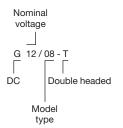
Pumps include mounting bracket (2x) and filter (2x).

These pumps are **not** suitable for continuous operation.

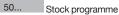
All listed values are measured at standard atmospheric conditions.



Model key:



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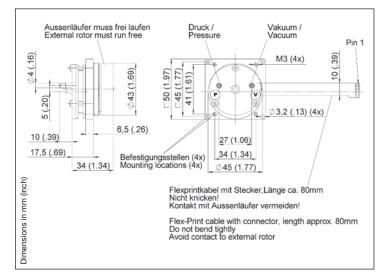




Rotary Vane Pump BL-G 085 M

Flow	8,5 l/min
Max. pressure	450 mbar
Max. vacuum	50 %





Pneumatic Data	
Description	BL-G 12/085 M
Part number	50209
Max. flow	8,5 l/min
Max. intermittent pressure	450 mbar
Max. continuous pressure	150 mbar
Max. intermittent vacuum	50 %
Max. continuous vacuum	15 %
Electrical Data	
Motor type*	Brushless DC
Nominal voltage	12 V DC
Min. current consumption	0,7 A
Max. current consumption	2,0 A
Protection class	IP00
Motor bearing	Ball bearing
Electrical connection	Flex-Print connector, 11 poles, pitch 1,0 mm, top contact style
General Data	
Ambient temperature	-40 to 60 °C
Weight	0,15 kg

Direction of rotation

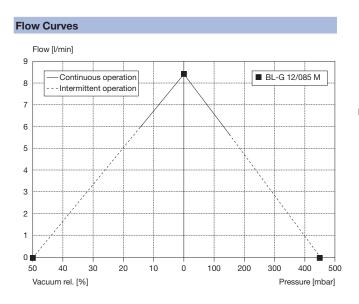
* without electronics

All listed values are measured at standard atmospheric conditions.

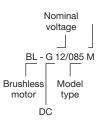
Please contact Thomas if further information regarding electrical connection and electronics is required.

cw/ccw

Use provided mounting locations only. Do not allow force on either motor or pump head. Motor bearing can be damaged.



Model key:



50210 Stock programme Current consumption: Min.: at open flow Max.: at max. intermittent operation

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Pin 1 4,5 - 18 VDC Pin 2 Hall sensor 3 Pin 3 Hall sensor 1 Pin 4 Hall sensor 2 Pin 5 GND Pin 6 Motor winding 3 Pin 7 Motor winding 2 Pin 8 Motor winding 1

Option:

Adaptor for Flex-Print connector to terminal board, part number 63003 BL-G 12/085 M 50210 including external electronics (63002) + adaptor (63003) for Flex-Print connector

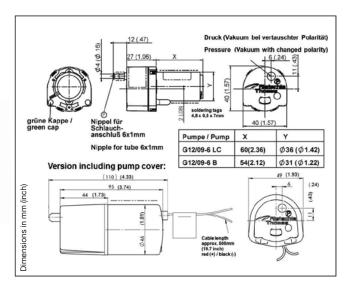


Rotary Vane Pump G 09

Flow	11 l/min	
Max. pressure	370 mbar	
Max. vacuum	35 %	







Description	G 12/09-6 B	G 12/09-6 LC	G 24/09-6 LC
Part number	50330	50555/50556 ¹⁾	50554/50552 ¹⁾
Max. flow	11,0 l/min	9,0 l/min	9,0 l/min
Max. intermittent pressure	370 mbar	350 mbar	350 mbar
Max. continuous pressure	200 mbar	150 mbar	150 mbar
Max. intermittent vacuum	32 %	35 %	35 %
Max. continuous vacuum	20 %	15%	15%

Motor type	Permanent magnet	Permanent magnet	Permanent magnet
Nominal voltage	12 V DC	12 V DC	24 V DC
Min. current consumption	0,7 A	0,7 A	0,4 A
Max. current consumption	1,8 A	2,2 A	1,3 A
Protection class	IP30	IP20	IP20
Motor bearing	Ball bearing	Ball bearing/Sleeve bearing	Ball bearing/Sleeve bearing

General Data			
Ambient temperature	-20 to 50 °C	-20 to 50 °C	-20 to 50 °C
Weight	0,24 kg	0,30 kg	0,30 kg
Direction of rotation	cw/ccw	cw/ccw	cw/ccw
Mounting bracket (Option)	31947	31911/31914	31911/31914

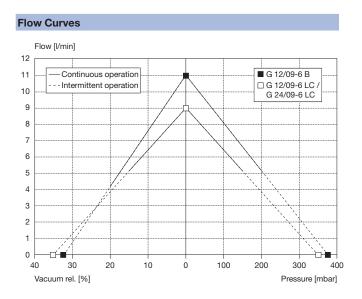
All listed values are measured at standard atmospheric conditions.

¹⁾ Pump including EPDM-cover for sound reduction.

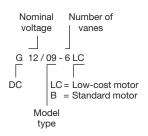
For vacuum operation: change electrical polarity.

For noise reduction: do not remove green cap. To optimise flow: remove green cap.

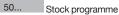




Model key:



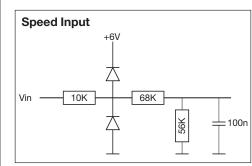
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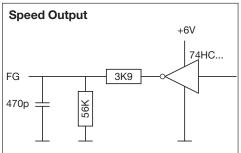




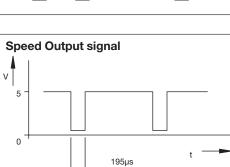
Wiring diagram (Brushless DC motor)

		Function	Colour	Control	
	Pin 1	V Supply	Red	12 VDC (max. voltage range: 1018 VDC)	
				24 VDC (max. voltage range: 1028 VDC)	
	Pin 2	Ground	Black	Ground for Vsupply (PIN 1) and Speed Control (PIN3)	
	Pin 3	Speed control	White	analog: 05 VDC (max. 28V)	
				PWM: 620 kHz - 1496%	
				Speed voltage input threshold: 0,2 V	
	Pin 4	Tacho out	Green	18 pulses per revolution	
				Pulse time "LOW": 195 µs	
				Output level "LOW": 0 / max. 0,5 V	
				Output level "HIGH": min. 4 V / max. 5 V	





Optional: Adapter for 2-wire duty incl. potentiometer for speed adjustment



Options / Accessories

P/N 29011932

Adapter for BLDC motor 4-2 wire w/ manual speed control 12 V DC "red"

P/N 29011933 Adapter for BLDC motor 4-2 wire w/ manual speed control 24 V DC "black"





Notes







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