



## Rotary Vane Vacuum and Pressure Pumps



### Product Features

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- Maintenance free
- Oil-less
- Compact
- Pulsation free
- High flow
- Low vibration
- No valves
- Reversible

### Typical Applications

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- Automotive
- Medical
- Analysis
- Automation
- Fuel Cell



# Rotary Vane Vacuum and Pressure Pumps

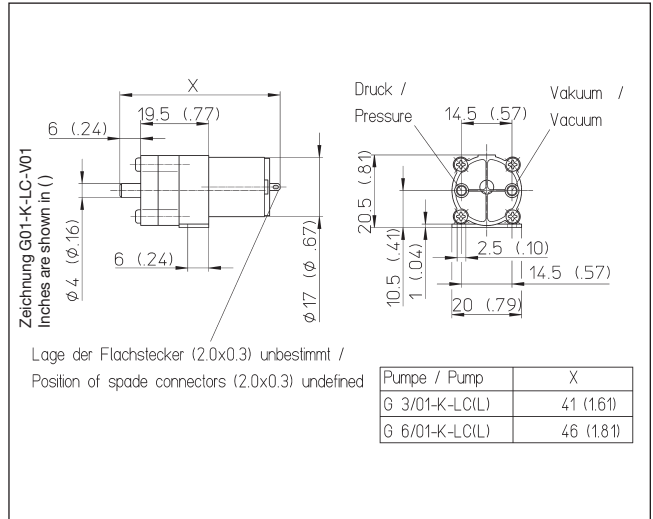
## Product Overview

Model	Flow	Max. pressure	Max. vacuum	Page
<b>G 01-K-LC</b>	2,2 l/min	80 mbar	-70 mbar	<b>3</b>
<b>G 01-K-EB</b>	1,4 l/min	40 mbar	-40 mbar	<b>4</b>
<b>G 01 EB</b>	1,6 l/min	180 mbar	-200 mbar	<b>5</b>
<b>G 01-4 EB</b>	1,4 l/min	280 mbar	-290 mbar	<b>6</b>
<b>BL-G 01-4</b>	1,0 l/min	135 mbar	-130 mbar	<b>7</b>
<b>G 02-LC</b>	3,1 l/min	210 mbar	-210 mbar	<b>8</b>
<b>G 02-4-LC</b>	3,1 l/min	340 mbar	-290 mbar	<b>9</b>
<b>G 02-8-LC</b>	3,2 l/min	600 mbar	-500 mbar	<b>10</b>
<b>G 02 EB</b>	3,6 l/min	190 mbar	-190 mbar	<b>11</b>
<b>G 02-4 EB</b>	3,7 l/min	310 mbar	-310 mbar	<b>12</b>
<b>G 02-8</b>	2,7 l/min	500 mbar	-450 mbar	<b>13</b>
<b>BL-G 02-4</b>	2,4 l/min	200 mbar	-220 mbar	<b>14</b>
<b>G 04 EB</b>	6,8 l/min	150 mbar	-160 mbar	<b>15</b>
<b>G 04-4 EB</b>	5,1 l/min	240 mbar	-260 mbar	<b>16</b>
<b>G 04-8</b>	4,4 l/min	260 mbar	-250 mbar	<b>17</b>
<b>G 045-LC</b>	7,5 l/min	900 mbar	-630 mbar	<b>18</b>
<b>G 045</b>	6,1 l/min	750 mbar	-700 mbar	<b>19</b>
<b>W 045</b>	4,0 l/min	500 mbar	-450 mbar	<b>20</b>
<b>G 07</b>	21 l/min	1400 mbar	-770 mbar	<b>21</b>
<b>G07-N</b>	23 l/min	1100 mbar	-800 mbar	<b>22</b>
<b>G 08</b>	15,5 l/min	1400 mbar	-830 mbar	<b>23</b>
<b>G 08-T</b>	38 l/min	1400 mbar	-930 mbar	<b>24</b>
<b>W 08</b>	16,5 l/min	800 mbar	-760 mbar	<b>25</b>
<b>BL-G 085 M</b>	8,5 l/min	450 mbar	-500 mbar	<b>26</b>
<b>G 09</b>	11 l/min	370 mbar	-350 mbar	<b>27</b>



# Rotary Vane Pump G 01-K-LC

<b>Flow</b>	<b>2,2 l/min</b>
<b>Max. pressure</b>	<b>80 mbar</b>
<b>Max. vacuum</b>	<b>-70 mbar</b>



## Pneumatic Data

Description	G 3/01-K-LCL	G 3/01-K-LC	G 6/01-K-LCL	G 6/01-K-LC
Part number	50026	50008	50027	50017
Max. flow	1,7 l/min	1,8 l/min	2,0 l/min	2,2 l/min
Max. intermittent pressure	30 mbar	40 mbar	60 mbar	80 mbar
Max. continuous pressure	15 mbar	15 mbar	25 mbar	25 mbar
Max. intermittent vacuum	-30 mbar	-40 mbar	-60 mbar	-70 mbar
Max. continuous vacuum	-15 mbar	-15 mbar	-25 mbar	-25 mbar

## Electrical Data

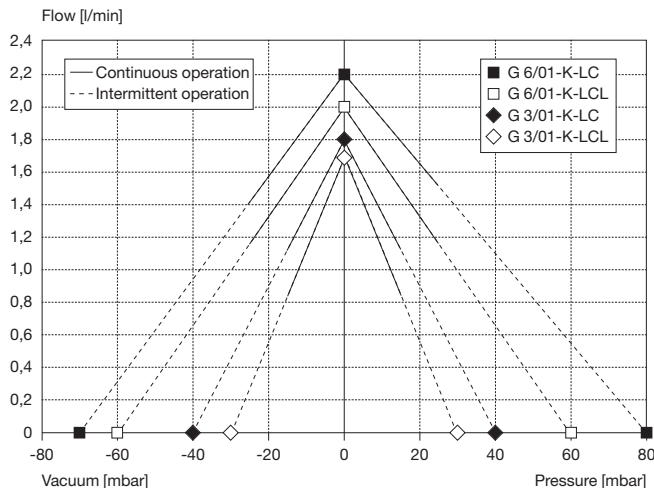
Motor type	Permanent magnet	Permanent magnet	Permanent magnet	Permanent magnet
Nominal voltage*	3 V DC	3 V DC	6 V DC	6 V DC
Min. current consumption	0,26 A	0,27 A	0,17 A	0,18 A
Max. current consumption	0,35 A	0,38 A	0,23 A	0,27 A
Protection class	IP40	IP40	IP40	IP40
Motor bearing	Sleeve bearing	Sleeve bearing	Sleeve bearing	Sleeve bearing

## General Data

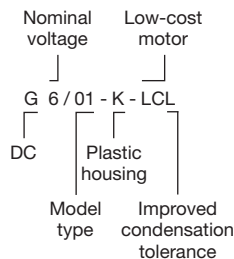
Ambient temperature	0 to 40 °C	0 to 40 °C	0 to 40 °C	0 to 40 °C
Weight	0,02 kg	0,02 kg	0,03 kg	0,03 kg
Direction of rotation	cw/ccw	cw/ccw	cw/ccw	cw/ccw

\* Please contact Thomas if speed control via Pulse-Width-Modulation is required.  
All listed values are measured at standard atmospheric conditions.

## Flow Curves



Model key:



500... Stock programme

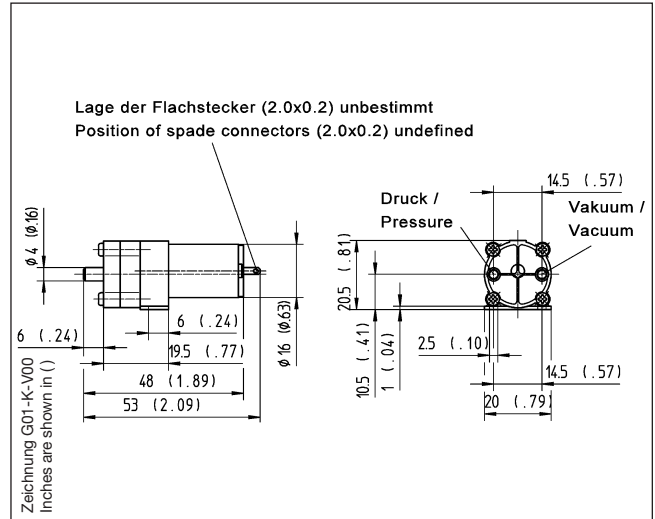
Current consumption:  
Min.: at open flow  
Max.: at max. intermittent vacuum

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# Rotary Vane Pump G 01-K-EB

<b>Flow</b>	<b>1,4 l/min</b>
<b>Max. pressure</b>	<b>40 mbar</b>
<b>Max. vacuum</b>	<b>-40 mbar</b>



### 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	1,3 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	-20 mbar	-28 mbar	-40 mbar	-18 mbar
Max. continuous vacuum	-10 mbar	-10 mbar	-10 mbar	-10 mbar

### Electrical Data

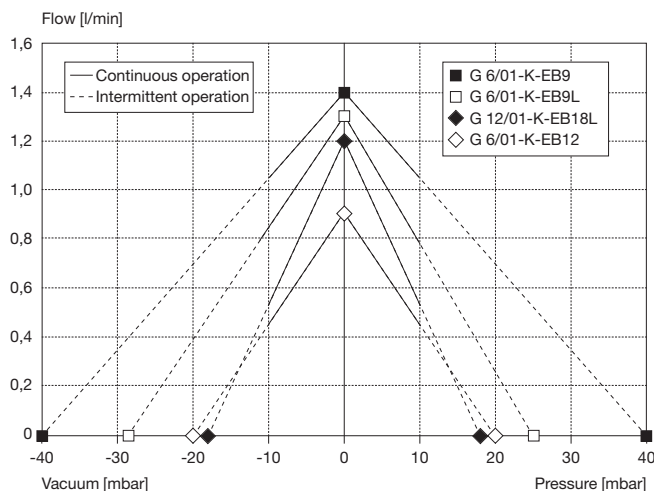
Motor type	Permanent magnet	Permanent magnet	Permanent magnet	Permanent magnet
Nominal voltage*	6 V DC	6 V DC	6 V DC	12 V DC
Min. current consumption	18 mA	36 mA	50 mA	25 mA
Max. current consumption	30 mA	60 mA	70 mA	48 mA
Protection class	IP50	IP50	IP50	IP50
Motor bearing	Sleeve bearing	Sleeve bearing	Sleeve bearing	Sleeve bearing

### General Data

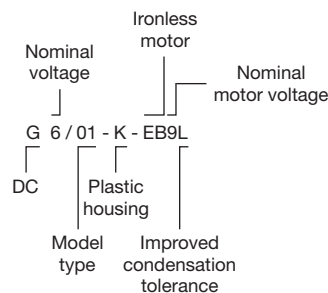
Ambient temperature	-20 to 40° C	-20 to 40° C	-20 to 40° C	-20 to 40° C
Weight	0,04 kg	0,04 kg	0,04 kg	0,04 kg
Direction of rotation	cw/ccw	cw/ccw	cw/ccw	cw/ccw

\* Please contact Thomas if speed control via Pulse-Width-Modulation is required.  
All listed values are measured at standard atmospheric conditions.

### Flow Curves



Model key:



50... Stock programme

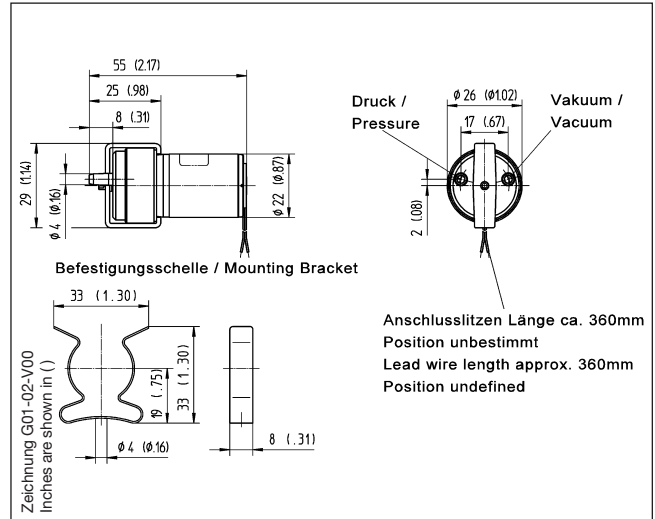
Current consumption:  
Min.: at open flow  
Max.: at max. intermittent vacuum

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# Rotary Vane Pump G 01 EB

<b>Flow</b>	<b>1,6 l/min</b>
<b>Max. pressure</b>	<b>180 mbar</b>
<b>Max. vacuum</b>	<b>-200 mbar</b>



## 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	-90 mbar	-120 mbar	-160 mbar	-200 mbar
Max. continuous vacuum	-80 mbar	-80 mbar	-100 mbar	-100 mbar

## Electrical Data

Motor type	Permanent magnet	Permanent magnet	Permanent magnet	Permanent magnet
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

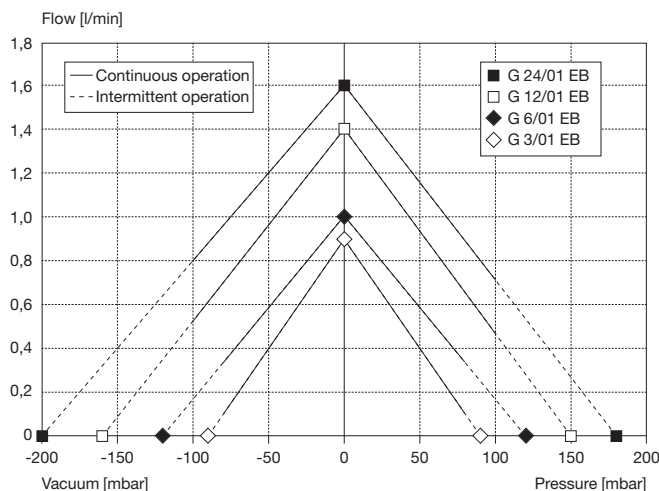
Ambient temperature	-30 to 50 °C	-30 to 50 °C	-30 to 50 °C	-30 to 50 °C
Weight	0,1 kg	0,1 kg	0,1 kg	0,1 kg
Direction of rotation	cw	cw	cw	cw

Pumps include mounting bracket.

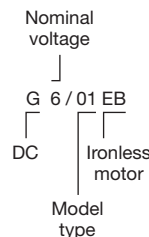
\* Please contact Thomas if speed control via Pulse-Width-Modulation is required.

All listed values are measured at standard atmospheric conditions.

## Flow Curves



Model key:



500... Stock programme

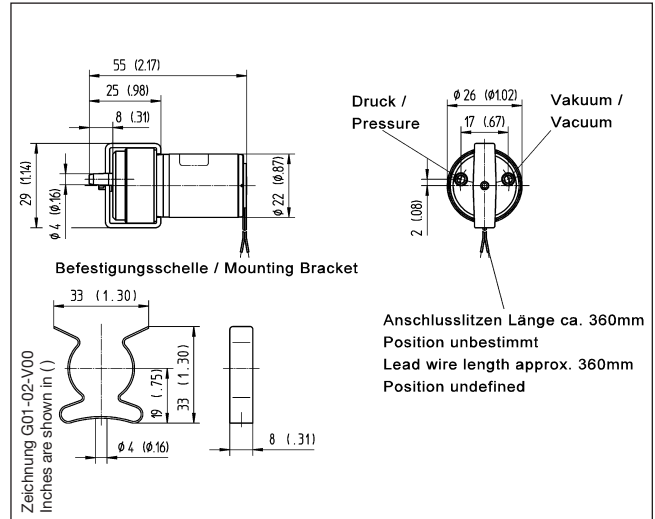
Current consumption:  
Min.: at open flow  
Max.: at max. intermittent vacuum

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# Rotary Vane Pump G 01-4 EB

<b>Flow</b>	<b>1,4 l/min</b>
<b>Max. pressure</b>	<b>280 mbar</b>
<b>Max. vacuum</b>	<b>-290 mbar</b>



## Pneumatic Data

Description	G 3/01-4 EB	G 6/01-4 EB	G 12/01-4 EB	G 24/01-4 EB
Part number	50086	50088	50090	50092
Max. flow	0,9 l/min	1,0 l/min	1,4 l/min	1,4 l/min
Max. intermittent pressure	170 mbar	180 mbar	280 mbar	280 mbar
Max. continuous pressure	100 mbar	100 mbar	100 mbar	100 mbar
Max. intermittent vacuum	-190 mbar	-200 mbar	-280 mbar	-290 mbar
Max. continuous vacuum	-100 mbar	-100 mbar	-100 mbar	-100 mbar

## Electrical Data

Motor type	Permanent magnet	Permanent magnet	Permanent magnet	Permanent magnet
Nominal voltage*	3 V DC	6 V DC	12 V DC	24 V DC
Min. current consumption	0,17 A	0,10 A	0,11 A	0,06 A
Max. current consumption	0,51 A	0,32 A	0,31 A	0,17 A
Protection class	IP50	IP50	IP50	IP50
Motor bearing	Sleeve bearing	Sleeve bearing	Sleeve bearing	Sleeve bearing

## General Data

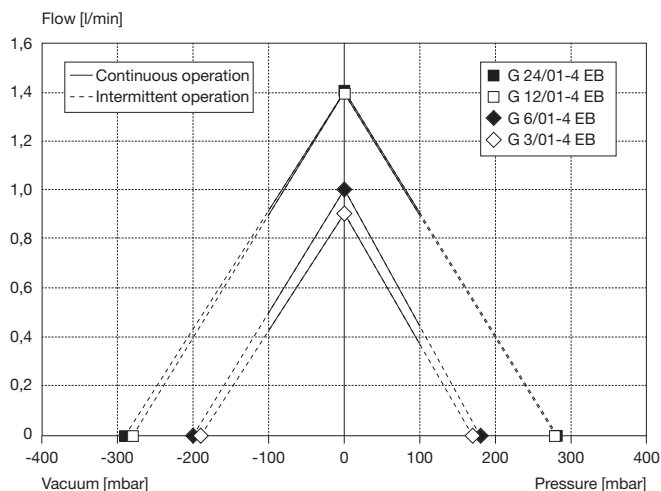
Ambient temperature	-30 to 50 °C	-30 to 50 °C	-30 to 50 °C	-30 to 50 °C
Weight	0,1 kg	0,1 kg	0,1 kg	0,1 kg
Direction of rotation	cw/ccw	cw/ccw	cw/ccw	cw/ccw

Pumps include mounting bracket.

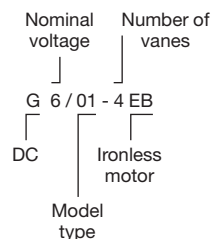
\* Please contact Thomas if speed control via Pulse-Width-Modulation is required.

All listed values are measured at standard atmospheric conditions.

## Flow Curves



Model key:



Current consumption:

Min.: at open flow

Max.: at max. intermittent vacuum

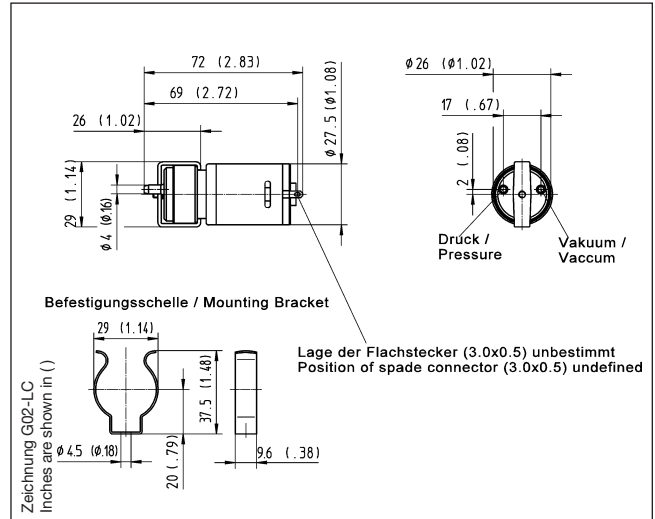
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# Rotary Vane Pump G 02-LC

<b>Flow</b>	<b>3,1 l/min</b>
<b>Max. pressure</b>	<b>210 mbar</b>
<b>Max. vacuum</b>	<b>-210 mbar</b>



## Pneumatic Data

Description	G 6/02-LC	G 12/02-LC
Part number	50136	50137
Max. flow	3,0 l/min	3,1 l/min
Max. intermittent pressure	190 mbar	210 mbar
Max. continuous pressure	80 mbar	80 mbar
Max. intermittent vacuum	-180 mbar	-210 mbar
Max. continuous vacuum	-80 mbar	-80 mbar

## Electrical Data

Motor type	Permanent magnet	Permanent magnet
Nominal voltage*	6 V DC	12 V DC
Min. current consumption	0,34 A	0,18 A
Max. current consumption	0,60 A	0,34 A
Protection class	IP20	IP20
Motor bearing	Sleeve bearing	Sleeve bearing

## General Data

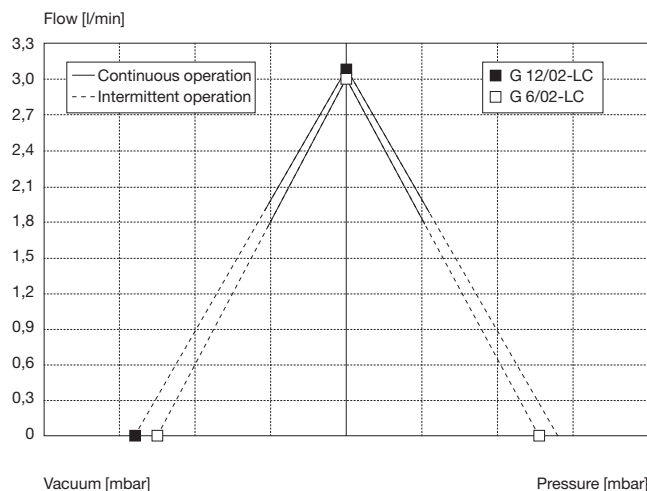
Ambient temperature	0 to 40 °C	0 to 40 °C
Weight	0,1 kg	0,1 kg
Direction of rotation	cw	cw

Pumps include mounting bracket.

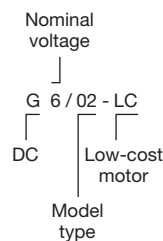
\* Please contact Thomas if speed control via Pulse-Width-Modulation is required.

All listed values are measured at standard atmospheric conditions.

## Flow Curves



Model key:



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

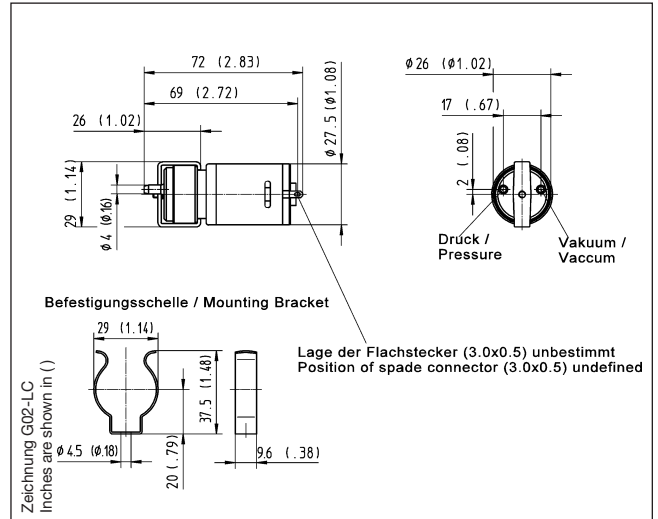
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# Rotary Vane Pump G 02-4-LC

<b>Flow</b>	<b>3,1 l/min</b>
<b>Max. pressure</b>	<b>340 mbar</b>
<b>Max. vacuum</b>	<b>-290 mbar</b>



## Pneumatic Data

Description	G 6/02-4-LC	G 12/02-4-LC
Part number	50158	50159
Max. flow	3,1 l/min	2,6 l/min
Max. intermittent pressure	340 mbar	250 mbar
Max. continuous pressure	80 mbar	80 mbar
Max. intermittent vacuum	-290 mbar	-230 mbar
Max. continuous vacuum	-80 mbar	-80 mbar

## Electrical Data

Motor type	Permanent magnet	Permanent magnet
Nominal voltage*	6 V DC	12 V DC
Min. current consumption	0,45 A	0,18 A
Max. current consumption	0,80 A	0,35 A
Protection class	IP20	IP20
Motor bearing	Sleeve bearing	Sleeve bearing

## General Data

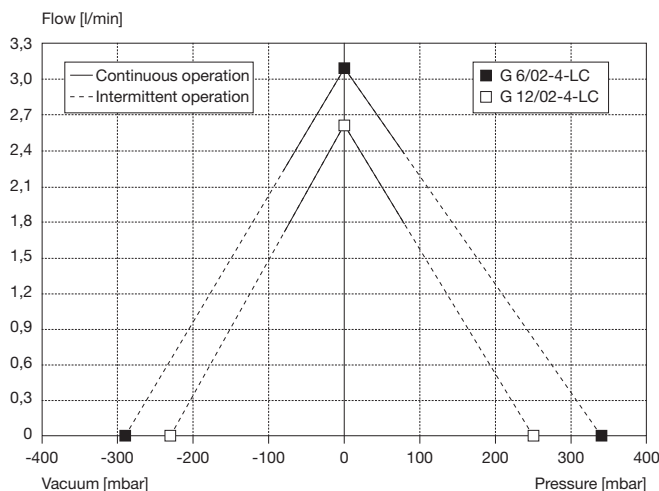
Ambient temperature	0 to 40 °C	0 to 40 °C
Weight	0,1 kg	0,1 kg
Direction of rotation	cw	cw

Pumps include mounting bracket.

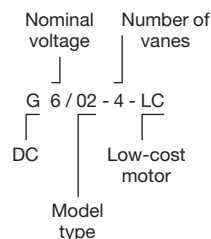
\* Please contact Thomas if speed control via Pulse-Width-Modulation is required.

All listed values are measured at standard atmospheric conditions.

## Flow Curves



Model key:



Current consumption:

Min.: at open flow

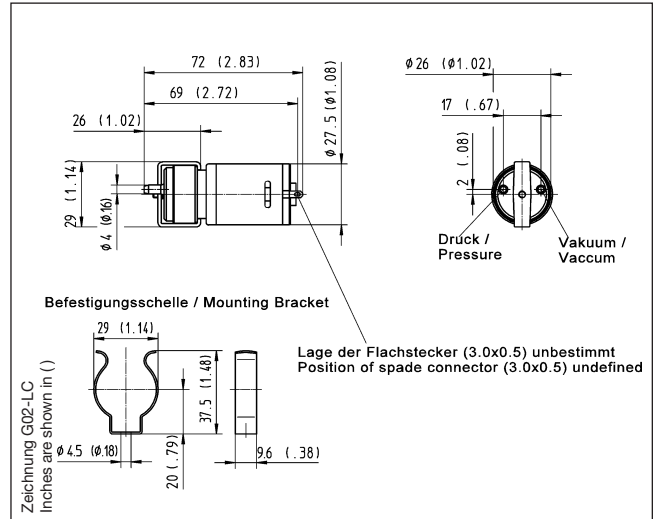
Max.: at max. intermittent vacuum

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# Rotary Vane Pump G 02-8-LC

<b>Flow</b>	<b>3,2 l/min</b>
<b>Max. pressure</b>	<b>600 mbar</b>
<b>Max. vacuum</b>	<b>-500 mbar</b>



### Pneumatic Data

Description	G 6/02-8-LC	G 12/02-8-LC
Part number	50162	50166
Max. flow	2,8 l/min	3,2 l/min
Max. intermittent pressure	600 mbar	450 mbar
Max. continuous pressure	100 mbar	100 mbar
Max. intermittent vacuum	-500 mbar	-400 mbar
Max. continuous vacuum	-100 mbar	-100 mbar

### Electrical Data

Motor type	Permanent magnet	Permanent magnet
Nominal voltage*	6 V DC	12 V DC
Min. current consumption	0,75 A	0,30 A
Max. current consumption	1,35 A	0,55 A
Protection class	IP20	IP20
Motor bearing	Sleeve bearing	Sleeve bearing

### General Data

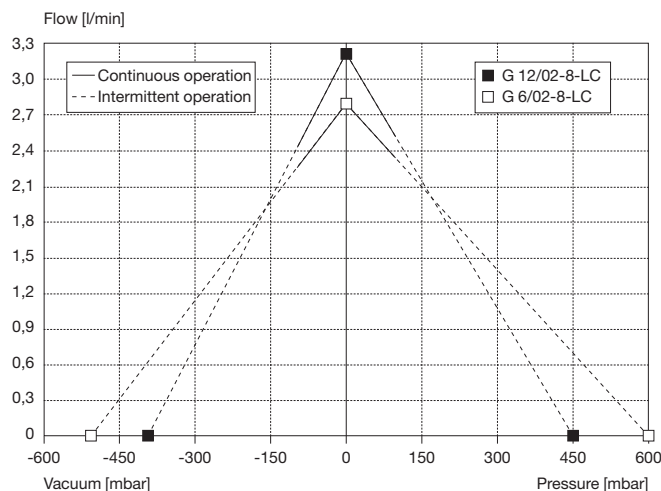
Ambient temperature	0 to 40 °C	0 to 40 °C
Weight	0,1 kg	0,1 kg
Direction of rotation	cw/ccw	cw/ccw

Pumps include mounting bracket.

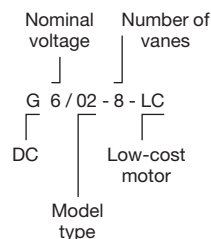
\* Please contact Thomas if speed control via Pulse-Width-Modulation is required.

All listed values are measured at standard atmospheric conditions.

### Flow Curves



Model key:



501... Stock programme

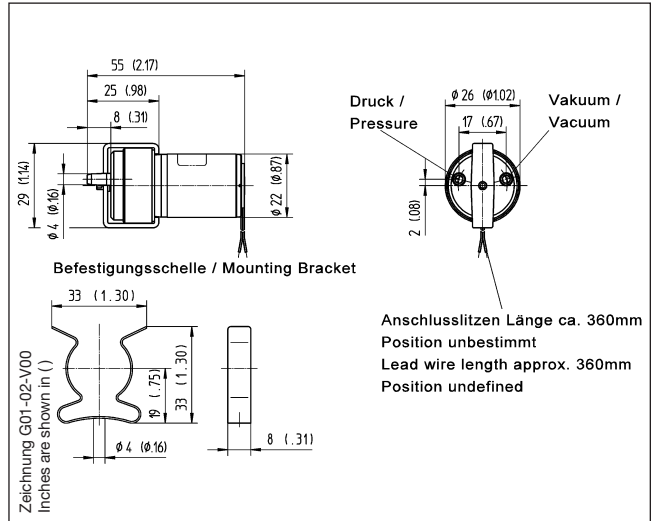
Current consumption:  
Min.: at open flow  
Max.: at max. intermittent vacuum

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# Rotary Vane Pump G 02 EB

<b>Flow</b>	<b>3,6 l/min</b>
<b>Max. pressure</b>	<b>190 mbar</b>
<b>Max. vacuum</b>	<b>-190 mbar</b>



### Pneumatic Data

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	-110 mbar	-120 mbar	-180 mbar	-190 mbar
Max. continuous vacuum	-90 mbar	-80 mbar	-100 mbar	-100 mbar

### Electrical Data

Motor type	Permanent magnet	Permanent magnet	Permanent magnet	Permanent magnet
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

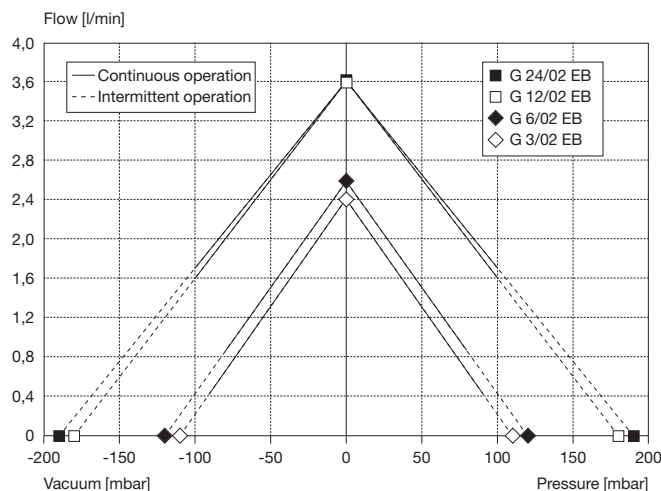
Ambient temperature	-30 to 50 °C	-30 to 50 °C	-30 to 50 °C	-30 to 50 °C
Weight	0,1 kg	0,1 kg	0,1 kg	0,1 kg
Direction of rotation	cw	cw	cw	cw

Pumps include mounting bracket.

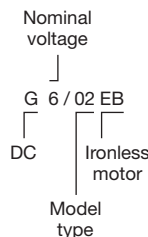
\* Please contact Thomas if speed control via Pulse-Width-Modulation is required.

All listed values are measured at standard atmospheric conditions.

### Flow Curves



Model key:



50... Stock programme

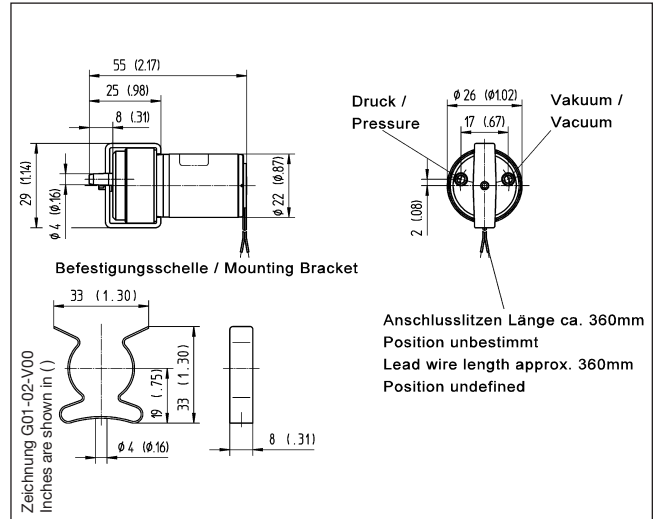
Current consumption:  
Min.: at open flow  
Max.: at max. intermittent vacuum

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# Rotary Vane Pump G 02-4 EB

<b>Flow</b>	<b>3,7 l/min</b>
<b>Max. pressure</b>	<b>310 mbar</b>
<b>Max. vacuum</b>	<b>-310 mbar</b>



### Pneumatic Data

Description	G 3/02-4 EB	G 6/02-4 EB	G 12/02-4 EB	G 24/02-4 EB
Part number	50087	50089	50091	50093
Max. flow	2,4 l/min	2,6 l/min	3,5 l/min	3,7 l/min
Max. intermittent pressure	210 mbar	230 mbar	310 mbar	310 mbar
Max. continuous pressure	100 mbar	100 mbar	100 mbar	100 mbar
Max. intermittent vacuum	-210 mbar	-230 mbar	-310 mbar	-310 mbar
Max. continuous vacuum	-100 mbar	-100 mbar	-100 mbar	-100 mbar

### Electrical Data

Motor type	Permanent magnet	Permanent magnet	Permanent magnet	Permanent magnet
Nominal voltage*	3 V DC	6 V DC	12 V DC	24 V DC
Min. current consumption	0,22 A	0,13 A	0,15 A	0,09 A
Max. current consumption	0,93 A	0,53 A	0,51 A	0,27 A
Protection class	IP50	IP50	IP50	IP50
Motor bearing	Sleeve bearing	Sleeve bearing	Sleeve bearing	Sleeve bearing

### General Data

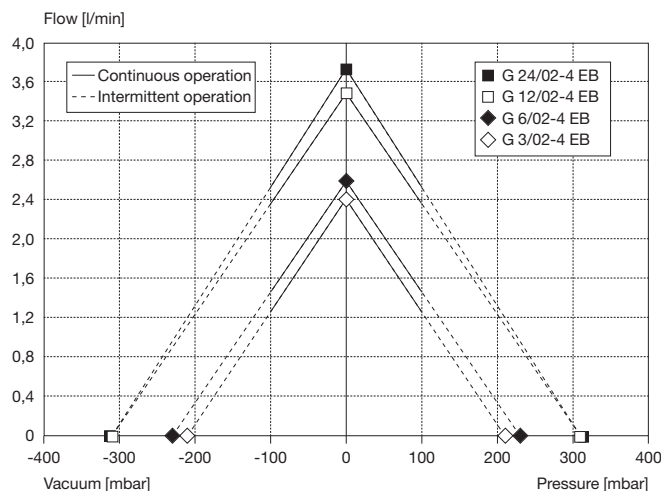
Ambient temperature	-30 to 50 °C	-30 to 50 °C	-30 to 50 °C	-30 to 50 °C
Weight	0,1 kg	0,1 kg	0,1 kg	0,1 kg
Direction of rotation	cw/ccw	cw/ccw	cw/ccw	cw/ccw

Pumps include mounting bracket.

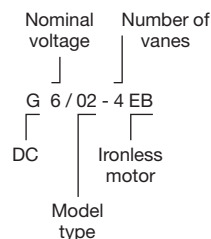
\* Please contact Thomas if speed control via Pulse-Width-Modulation is required.

All listed values are measured at standard atmospheric conditions.

### Flow Curves



Model key:



500... Stock programme

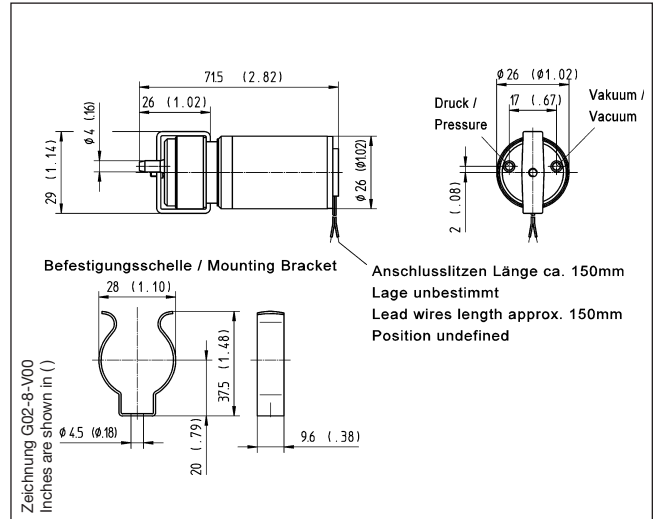
Current consumption:  
Min.: at open flow  
Max.: at max. intermittent vacuum

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# Rotary Vane Pump G 02-8

<b>Flow</b>	<b>2,7 l/min</b>
<b>Max. pressure</b>	<b>500 mbar</b>
<b>Max. vacuum</b>	<b>-450 mbar</b>



## Pneumatic Data

Description	G 6/02-8	G 12/02-8
Part number	50163	50165
Max. flow	2,6 l/min	2,7 l/min
Max. intermittent pressure	500 mbar	500 mbar
Max. continuous pressure	200 mbar	200 mbar
Max. intermittent vacuum	-450 mbar	-450 mbar
Max. continuous vacuum	-200 mbar	-200 mbar

## Electrical Data

Motor type	Permanent magnet	Permanent magnet
Nominal voltage*	6 V DC	12 V DC
Min. current consumption	0,23 A	0,11 A
Max. current consumption	0,70 A	0,32 A
Protection class	IP50	IP50
Motor bearing	Ball bearing	Ball bearing

## General Data

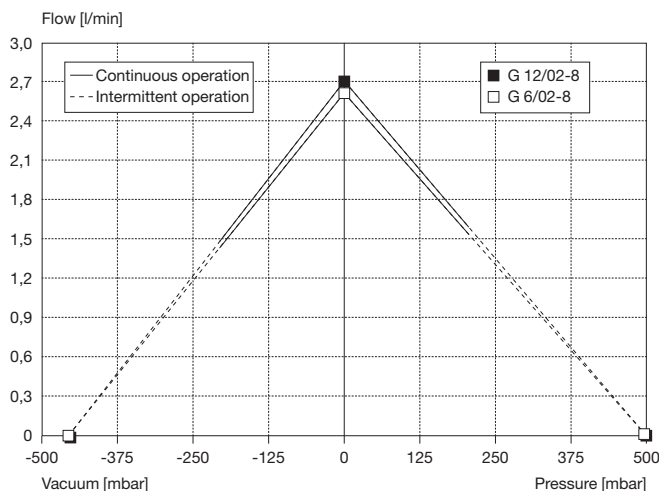
Ambient temperature	-30 to 50 °C	-30 to 50 °C
Weight	0,13 kg	0,13 kg
Direction of rotation	cw/ccw	cw/ccw

Pumps include mounting bracket.

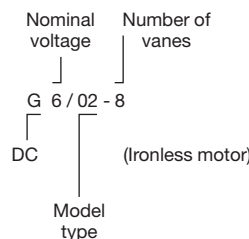
\* Please contact Thomas if speed control via Pulse-Width-Modulation is required.

All listed values are measured at standard atmospheric conditions.

## Flow Curves



Model key:



501... Stock programme

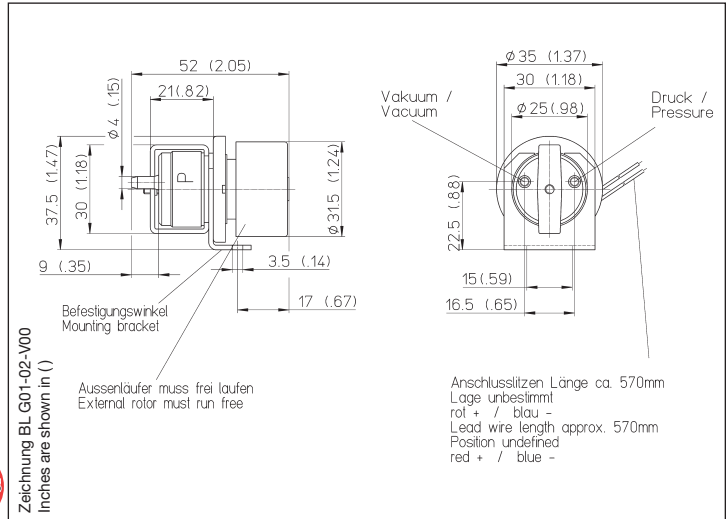
Current consumption:  
Min.: at open flow  
Max.: at max. intermittent vacuum

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# Rotary Vane Pump BL-G 02-4

<b>Flow</b>	<b>2,4 l/min</b>
<b>Max. pressure</b>	<b>200 mbar</b>
<b>Max. vacuum</b>	<b>-220 mbar</b>



## Pneumatic Data

Description	BL-G 12/02-4
Part number	50149
Max. flow	2,4 l/min
Max. intermittent pressure	200 mbar
Max. continuous pressure	100 mbar
Max. intermittent vacuum	-220 mbar
Max. continuous vacuum	-100 mbar

## Electrical Data

Motor type*	Brushless
Nominal voltage	12 V DC
Min. current consumption	0,22 A
Max. current consumption	0,34 A
Protection class	IP00
Motor bearing	Ball bearing

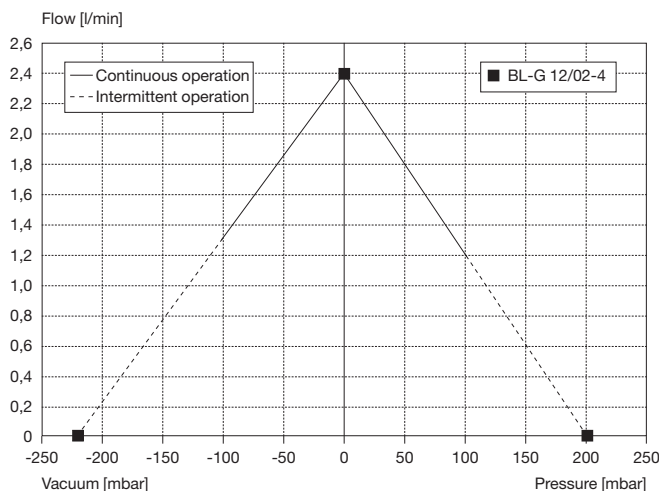
## General Data

Ambient temperature	0 to 40 °C
Weight	0,1 kg
Direction of rotation	ccw

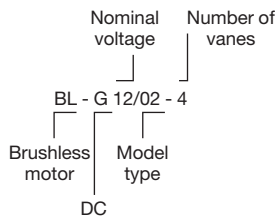
\* with integrated electronics  
 All listed values are measured at standard atmospheric conditions.

Warning: reversing polarity will damage electronics.  
 Mounting on bracket only. Do not allow force on either motor or pump head. Motor bearing can be damaged.

## Flow Curves



## Model key:



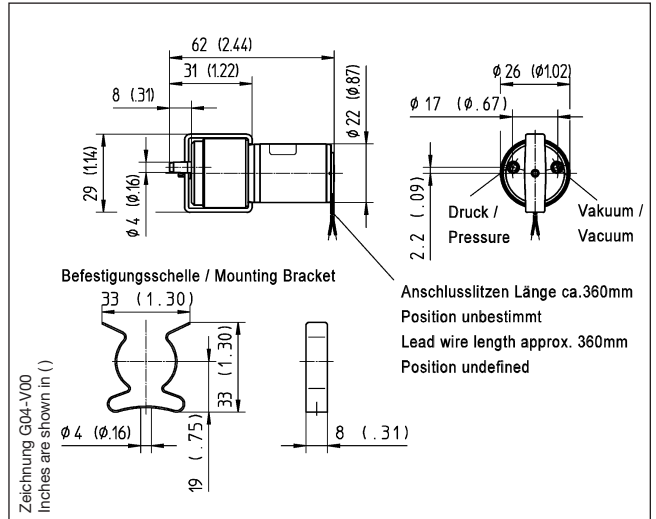
Current consumption:  
 Min.: at open flow  
 Max.: at max. intermittent vacuum

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# Rotary Vane Pump G 04 EB

<b>Flow</b>	<b>6,8 l/min</b>
<b>Max. pressure</b>	<b>150 mbar</b>
<b>Max. vacuum</b>	<b>-160 mbar</b>



## Pneumatic Data

Description	G 3/04 EB	G 6/04 EB	G 12/04 EB	G 24/04 EB
Part number	50085	50102	50097	50104
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	-110 mbar	-120 mbar	-150 mbar	-160 mbar
Max. continuous vacuum	-50 mbar	-50 mbar	-50 mbar	-40 mbar

## Electrical Data

Motor type	Permanent magnet	Permanent magnet	Permanent magnet	Permanent magnet
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	Ball bearing/Sleeve bearing	Ball bearing	Ball bearing

## General Data

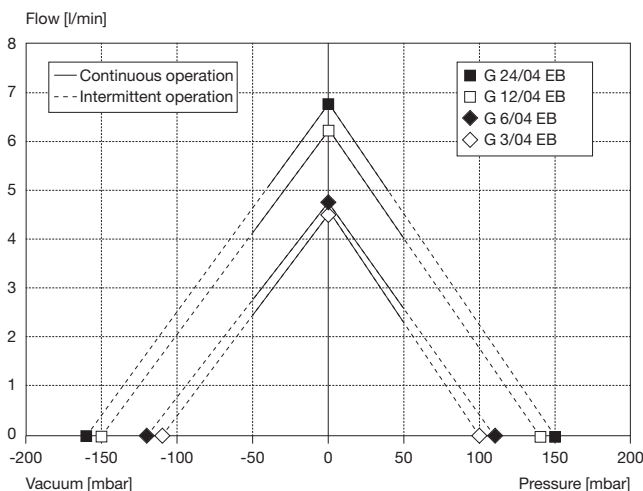
Ambient temperature	-30 to 50 °C	-30 to 50 °C	-30 to 50 °C	-30 to 50 °C
Weight	0,1 kg	0,1 kg	0,1 kg	0,1 kg
Direction of rotation	cw	cw	cw	cw

Pumps include mounting bracket.

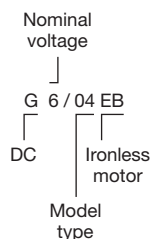
\* Please contact Thomas if speed control via Pulse-Width-Modulation is required.

All listed values are measured at standard atmospheric conditions.

## Flow Curves



Model key:



50... Stock programme

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

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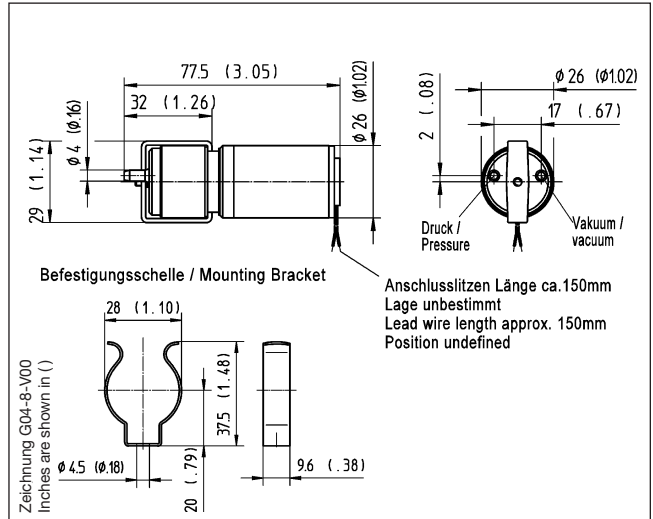






# Rotary Vane Pump G 04-8

<b>Flow</b>	<b>4,4 l/min</b>
<b>Max. pressure</b>	<b>260 mbar</b>
<b>Max. vacuum</b>	<b>-250 mbar</b>



## 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	-250 mbar
Max. continuous vacuum	-100 mbar

## Electrical Data

Motor type	Permanent magnet
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

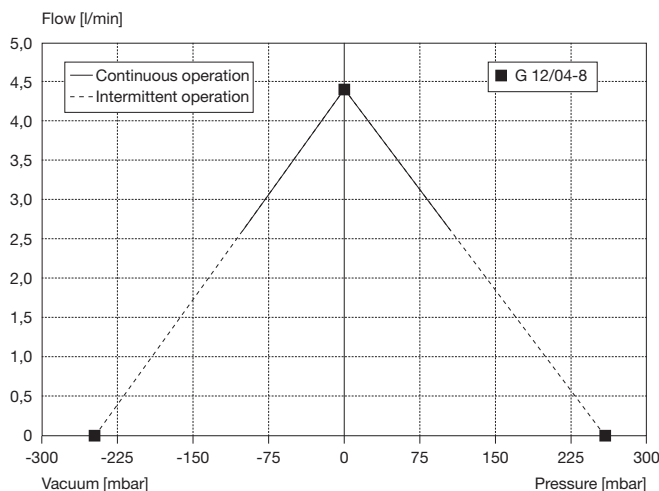
Ambient temperature	-30 to 50 °C
Weight	0,14 kg
Direction of rotation	cw/ccw

Pumps include mounting bracket.

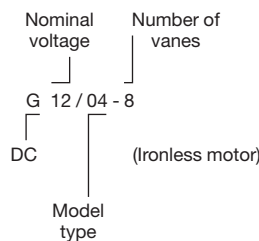
\* Please contact Thomas if speed control via Pulse-Width-Modulation is required.

All listed values are measured at standard atmospheric conditions.

## Flow Curves



Model key:



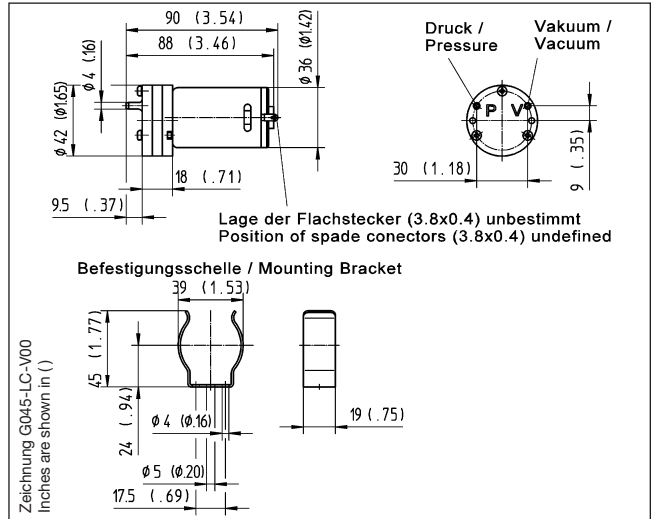
Current consumption:  
Min.: at open flow  
Max.: at max. intermittent vacuum

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# Rotary Vane Pump G 045-LC

<b>Flow</b>	<b>7,5 l/min</b>
<b>Max. pressure</b>	<b>900 mbar</b>
<b>Max. vacuum</b>	<b>-630 mbar</b>



## Pneumatic Data

Description	G 12/045-LC
Part number	50202
Max. flow	7,5 l/min
Max. intermittent pressure	900 mbar
Max. continuous pressure	100 mbar
Max. intermittent vacuum	-630 mbar
Max. continuous vacuum	-100 mbar

## Electrical Data

Motor type	Permanent magnet
Nominal voltage*	12 V DC
Min. current consumption	1,8 A
Max. current consumption	3,2 A
Protection class	IP20
Motor bearing	Sleeve bearing

## General Data

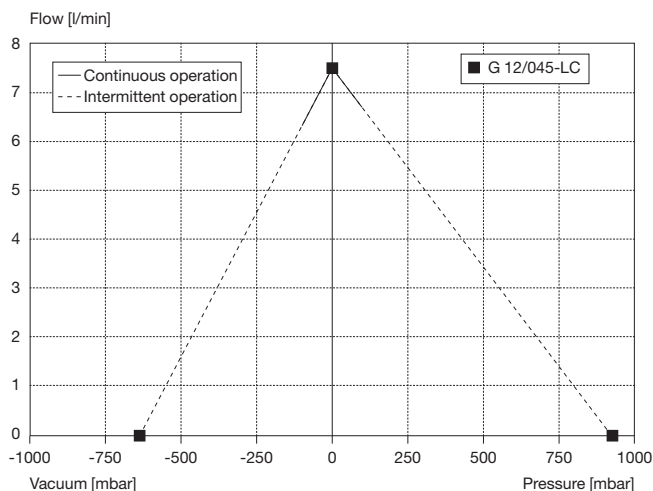
Ambient temperature	-10 to 40 °C
Weight	0,25 kg
Direction of rotation	cw/ccw

Pumps include mounting bracket.

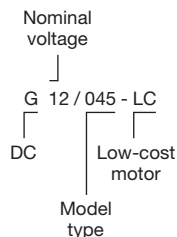
\* Please contact Thomas if speed control via Pulse-Width-Modulation is required.

All listed values are measured at standard atmospheric conditions.

## Flow Curves



Model key:



502... Stock programme

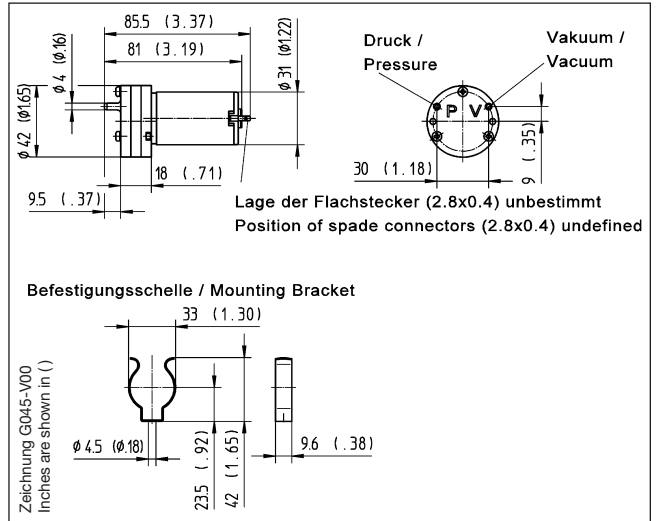
Current consumption:  
Min.: at open flow  
Max.: at max. intermittent vacuum

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# Rotary Vane Pump G 045

<b>Flow</b>	<b>6,1 l/min</b>
<b>Max. pressure</b>	<b>750 mbar</b>
<b>Max. vacuum</b>	<b>-700 mbar</b>



## Pneumatic Data

Description	G 6/045	G 12/045	G 24/045
Part number	50199	50200	50201
Max. flow	5,4 l/min	5,5 l/min	6,1 l/min
Max. intermittent pressure	590 mbar	650 mbar	750 mbar
Max. continuous pressure	150 mbar	150 mbar	150 mbar
Max. intermittent vacuum	-520 mbar	-580 mbar	-700 mbar
Max. continuous vacuum	-150 mbar	-150 mbar	-150 mbar

## Electrical Data

Motor type	Permanent magnet	Permanent magnet	Permanent magnet
Nominal voltage*	6 V DC	12 V DC	24 V DC
Min. current consumption	1,20 A	0,64 A	0,33 A
Max. current consumption	2,47 A	1,36 A	0,77 A
Protection class	IP30	IP30	IP30
Motor bearing	Ball bearing	Ball bearing	Ball bearing

## General Data

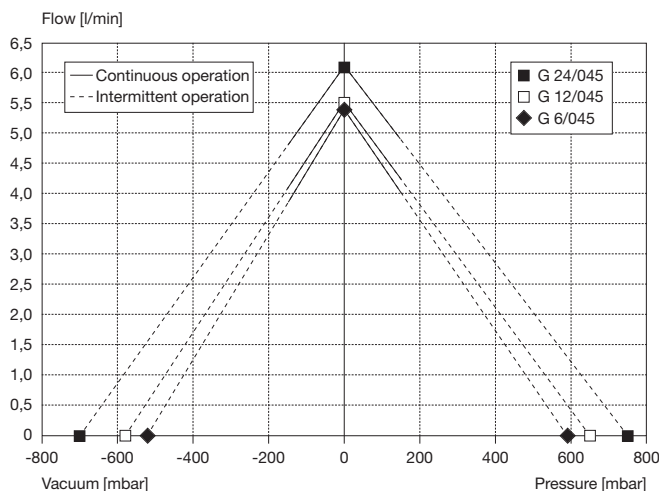
Ambient temperature	10 to 40 °C	10 to 40 °C	10 to 40 °C
Weight	0,25 kg	0,25 kg	0,25 kg
Direction of rotation	cw/ccw	cw/ccw	cw/ccw

Pumps include mounting bracket.

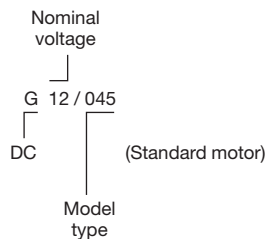
\* Please contact Thomas if speed control via Pulse-Width-Modulation is required.

All listed values are measured at standard atmospheric conditions.

## Flow Curves



Model key:



50... Stock programme

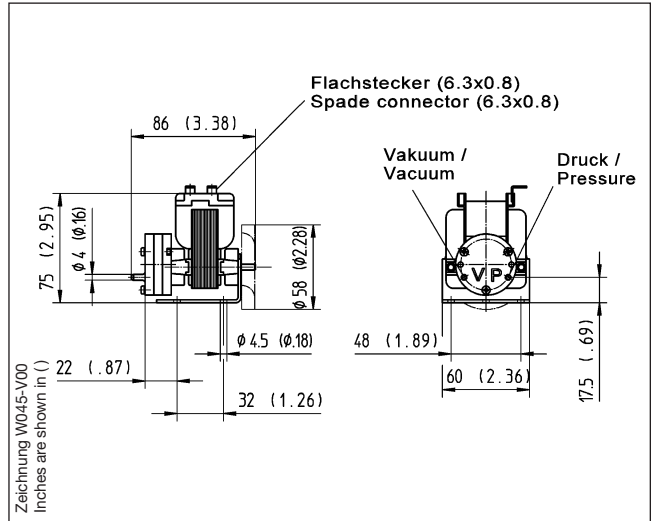
Current consumption:  
 Min.: at open flow  
 Max.: at max. intermittent vacuum

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# Rotary Vane Pump W 045

<b>Flow</b>	<b>4,0 l/min</b>
<b>Max. pressure</b>	<b>500 mbar</b>
<b>Max. vacuum</b>	<b>-450 mbar</b>



## Pneumatic Data

Description	W 045-S 230/50	W 045-S 110/60
Part number	50413	50414
Max. flow	3,5 l/min	4,0 l/min
Max. intermittent pressure	380 mbar	500 mbar
Max. continuous pressure	150 mbar	150 mbar
Max. intermittent vacuum	-410 mbar	-450 mbar
Max. continuous vacuum	-150 mbar	-150 mbar

## Electrical Data

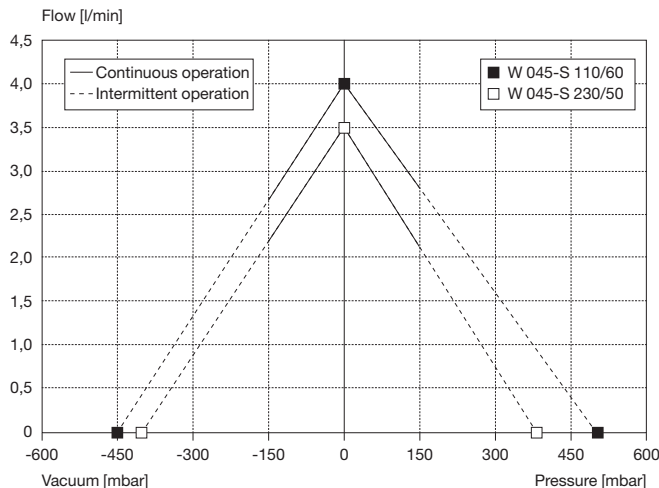
Motor type	Shaded pole	Shaded pole
Nominal voltage	230 V/50 Hz	110 V/60 Hz
Min. current consumption	0,18 A	0,45 A
Max. current consumption	0,21 A	0,50 A
Insulation class	E	E
Protection class	IP00	IP00
Motor bearing	Sleeve bearing	Sleeve bearing

## General Data

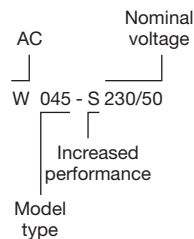
Ambient temperature	0 to 40 °C	0 to 40 °C
Weight	0,55 kg	0,55 kg
Direction of rotation	cw	cw

All listed values are measured at standard atmospheric conditions.

## Flow Curves



Model key:



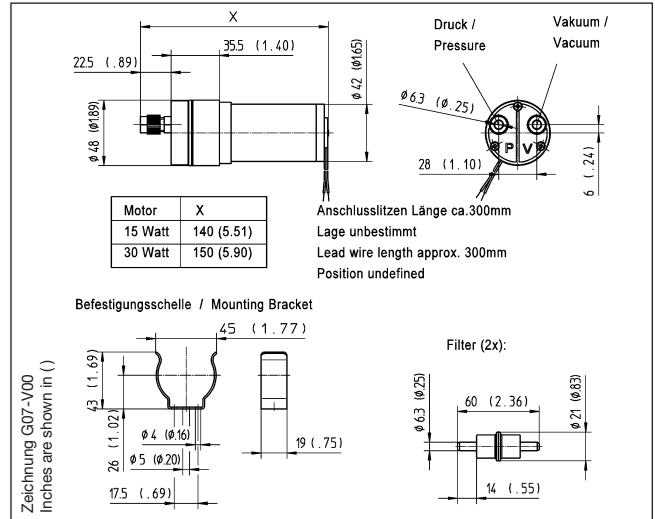
Current consumption:  
 Min.: at open flow  
 Max.: at max. intermittent vacuum

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# Rotary Vane Pump G 07

<b>Flow</b>	<b>21 l/min</b>
<b>Max. pressure</b>	<b>1,4 bar</b>
<b>Max. vacuum</b>	<b>-770 mbar</b>



## Pneumatic Data

Description	G 12/07-15 Watt	G 12/07-30 Watt	G 24/07-15 Watt	G 24/07-30 Watt
Part number	50336	50369	50218	50221
Max. flow	17,0 l/min	16,0 l/min	17,5 l/min	21,0 l/min
Max. intermittent pressure	1,3 bar	1,4 bar	1,0 bar	1,4 bar
Max. continuous pressure	0,3 bar	0,3 bar		0,2 bar
Max. intermittent vacuum	-760 mbar	-760 mbar	-750 mbar	-770 mbar
Max. continuous vacuum	-300 mbar	-300 mbar		-200 mbar

## 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	1,9 A	2,0 A	1,1 A	1,9 A
Max. current consumption	3,2 A	3,4 A	1,6 A	2,5 A
Protection class	IP40	IP40	IP40	IP40
Motor bearing	Ball bearing	Ball bearing	Ball bearing	Ball bearing

## General Data

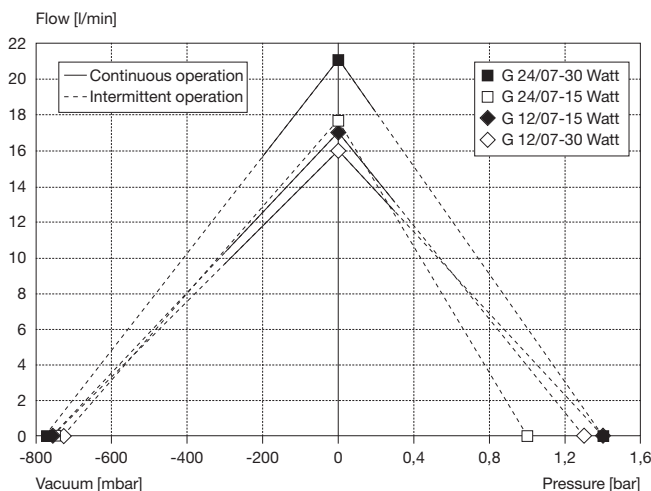
Ambient temperature	-10 to 40 °C	-10 to 40 °C	-10 to 40 °C	-10 to 40 °C
Weight	0,6 kg	0,7 kg	0,6 kg	0,7 kg
Direction of rotation	cw	cw	cw	cw

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

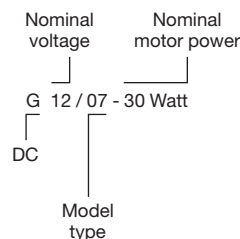
\* Please contact Thomas if speed control via Pulse-Width-Modulation is required.

All listed values are measured at standard atmospheric conditions.

## Flow Curves



Model key:



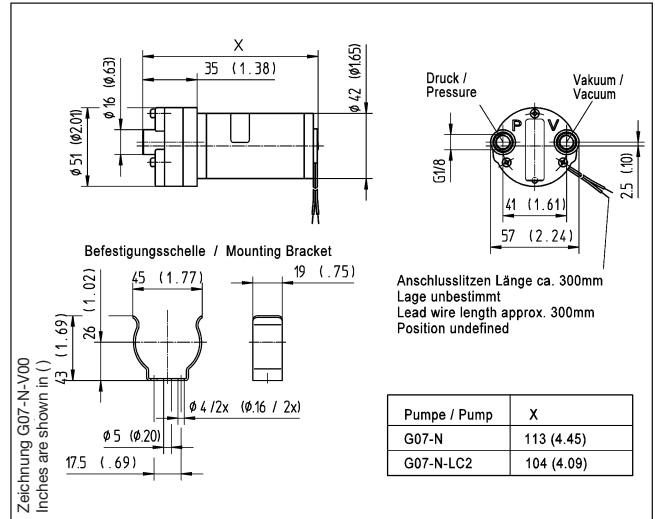
Current consumption:  
Min.: at open flow  
Max.: at max. intermittent vacuum

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# Rotary Vane Pump G 07-N

<b>Flow</b>	<b>23 l/min</b>
<b>Max. pressure</b>	<b>1,1 bar</b>
<b>Max. vacuum</b>	<b>-800 mbar</b>



## Pneumatic Data

Description	G 12/07-N	G 24/07-N	G 24/07-N rev.	G 12/07-N LC2
Part number	50316	50311	50220	50300
Max. flow	20 l/min	18 l/min	17 l/min	23 l/min
Max. intermittent pressure	0,90 bar	0,80 bar	0,70 bar	1,10 bar
Max. continuous pressure	0,25 bar	0,30 bar	0,30 bar	
Max. intermittent vacuum	-700 mbar	-720 mbar	-550 mbar	-800 mbar
Max. continuous vacuum	-250 mbar	-300 mbar	-300 mbar	

## Electrical Data

Motor type	Permanent magnet	Permanent magnet	Permanent magnet	Permanent magnet
Nominal voltage*	12 V DC	24 V DC	24 V DC	12 V DC
Min. current consumption	2,6 A	0,8 A	0,9 A	3,7 A
Max. current consumption	4,6 A	1,6 A	2,0 A	7,4 A
Protection class	IP40	IP40	IP40	IP20
Motor bearing	Ball bearing	Ball bearing	Ball bearing	Sleeve bearing

## General Data

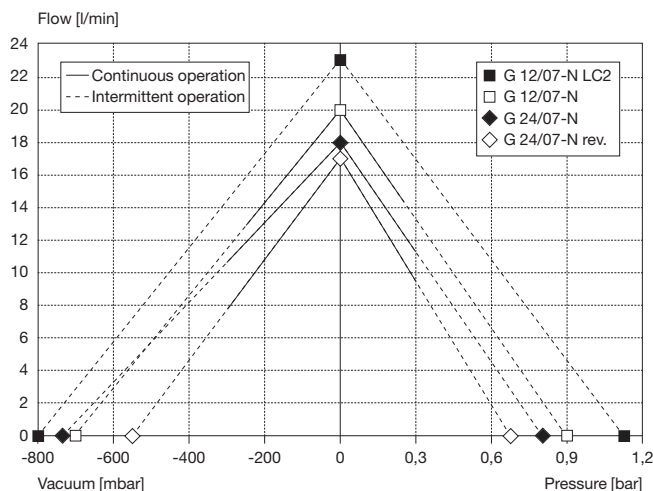
Ambient temperature	-10 to 40 °C	-10 to 40 °C	-10 to 40 °C	-10 to 40 °C
Weight	0,5 kg	0,5 kg	0,5 kg	0,4 kg
Direction of rotation	cw	cw	cw/ccw	cw

Pumps include mounting bracket.

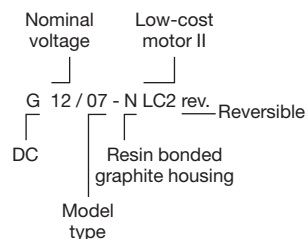
\* Please contact Thomas if speed control via Pulse-Width-Modulation is required.

All listed values are measured at standard atmospheric conditions.

## Flow Curves



Model key:



50... Stock programme

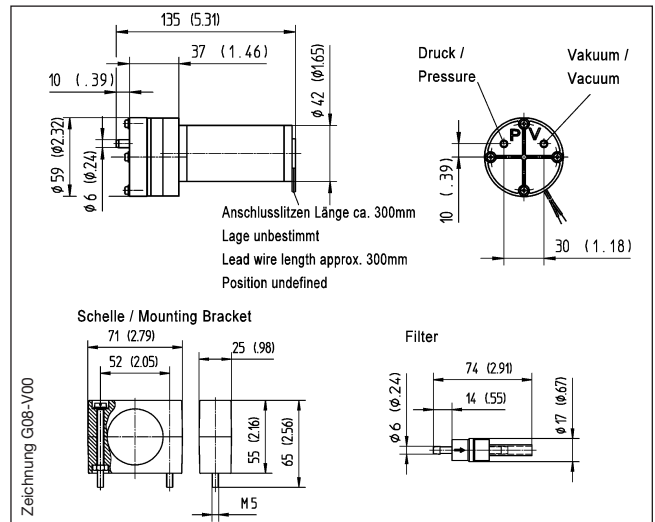
Current consumption:  
Min.: at open flow  
Max.: at max. intermittent vacuum

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# Rotary Vane Pump G 08

<b>Flow</b>	<b>15,5 l/min</b>
<b>Max. pressure</b>	<b>1,4 bar</b>
<b>Max. vacuum</b>	<b>-830 mbar</b>



## 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	-800 mbar	-830 mbar	-740 mbar
Max. continuous vacuum	-300 mbar	-300 mbar	-300 mbar

## Electrical Data

Motor type	Permanent magnet	Permanent magnet	Permanent magnet
Nominal voltage*	12 V DC	24 V DC	24 V DC
Min. current consumption	1,5 A	0,8 A	0,6 A
Max. current consumption	3,2 A	1,6 A	1,8 A
Protection class	IP40	IP40	IP40
Motor bearing	Ball bearing	Ball bearing	Ball bearing

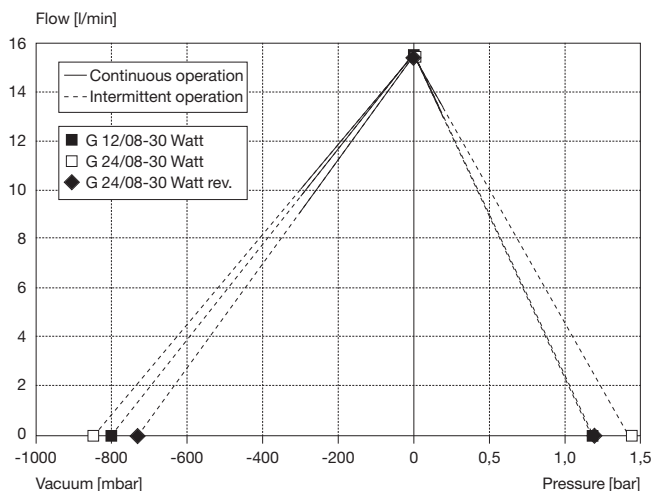
## General Data

Ambient temperature	-10 to 40 °C	-10 to 40 °C	-10 to 40 °C
Weight	0,75 kg	0,75 kg	0,75 kg
Direction of rotation	cw	cw	cw/ccw

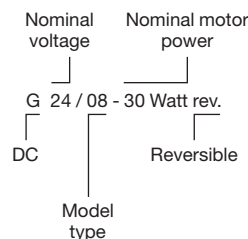
Pumps include mounting bracket and filter.

\* Please contact Thomas if speed control via Pulse-Width-Modulation is required.  
All listed values are measured at standard atmospheric conditions.

## Flow Curves



Model key:



503... Stock programme

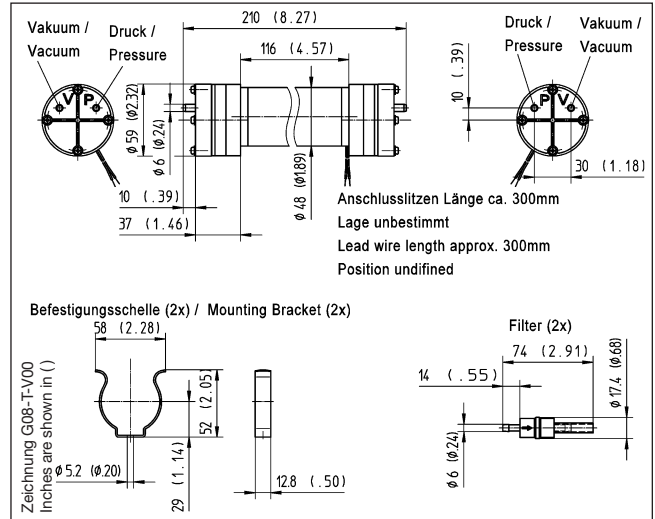
Current consumption:  
Min.: at open flow  
Max.: at max. intermittent vacuum

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# Rotary Vane Pump G 08-T

<b>Flow</b>	<b>38 l/min</b>
<b>Max. pressure</b>	<b>1,4 bar</b>
<b>Max. vacuum</b>	<b>-930 mbar</b>



## Pneumatic Data

Description	G 12/08-T (-S)	G 12/08-T (-S)	G 24/08-T (-S)	G 24/08-T (-S)
Part number	50241 (50242)	50241 (50242)	50238 (50239)	50238 (50239)
	connected in series	connected in parallel	connected in series	connected in parallel
Max. flow	17 (19) l/min	33 (35) l/min	19 (21) l/min	36 (38) l/min
Max. intermittent pressure	1,4 (1,0) bar	1,4 (1,0) bar	1,4 (1,0) bar	1,4 (1,0) bar
Max. intermittent vacuum	-930 (-930) mbar	-840 (-850) mbar	-930 (-930) mbar	-840 (-850) mbar

## 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	3,2 A	3,2 A	1,9 A	1,9 A
Max. current consumption	5,0 A	6,2 A	2,5 A	3,6 A
Protection class	IP40	IP40	IP40	IP40
Motor bearing	Ball bearing	Ball bearing	Ball bearing	Ball bearing

## General Data

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

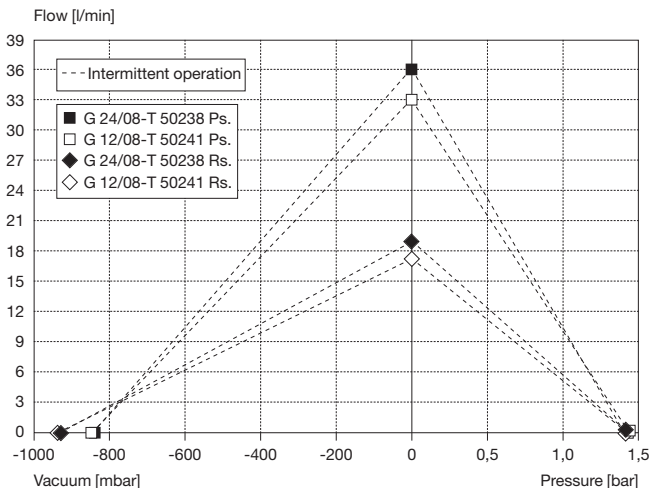
Pumps include mounting bracket (2x) and filter (2x).

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

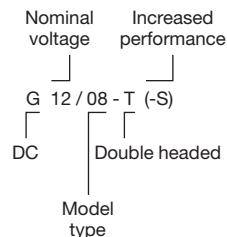
\* Please contact Thomas if speed control via Pulse-Width-Modulation is required.

All listed values are measured at standard atmospheric conditions.

## Flow Curves



Model key:



Current consumption:

Min.: at open flow

Max.: at max. intermittent vacuum

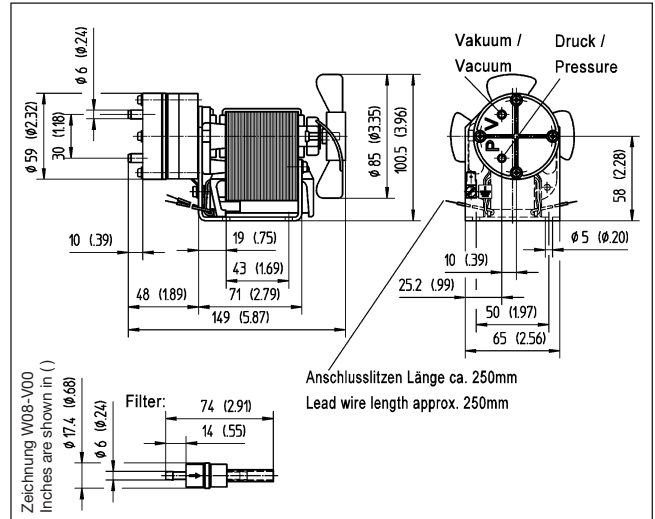
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# Rotary Vane Pump W 08

<b>Flow</b>	<b>16,5 l/min</b>
<b>Max. pressure</b>	<b>800 mbar</b>
<b>Max. vacuum</b>	<b>-760 mbar</b>



## Pneumatic Data

Description	W 08 230/50	W 08 115/60
Part number	50419	50427
Max. flow	14,0 l/min	16,5 l/min
Max. intermittent pressure	800 mbar	800 mbar
Max. continuous pressure	150 mbar	150 mbar
Max. intermittent vacuum	-750 mbar	-760 mbar
Max. continuous vacuum	-150 mbar	-150 mbar

## Electrical Data

Motor type	Shaded pole	Shaded pole
Nominal voltage	230 V/50 Hz	115 V/60 Hz
Min. current consumption	0,7 A	1,5 A
Max. current consumption	0,9 A	2,0 A
Insulation class	F	F
Protection class	IP00	IP00
Motor bearing	Ball bearing	Ball bearing

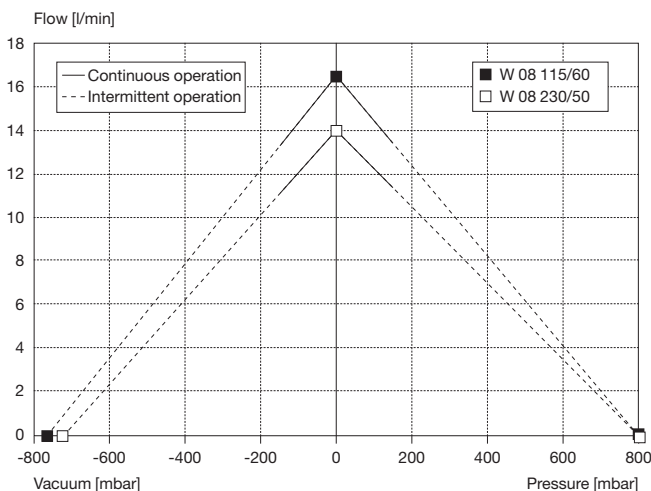
## General Data

Ambient temperature	0 to 40 °C	0 to 40 °C
Weight	1,7 kg	1,7 kg
Direction of rotation	cw	cw

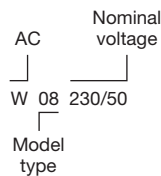
Pumps include filter.

All listed values are measured at standard atmospheric conditions.

## Flow Curves



Model key:



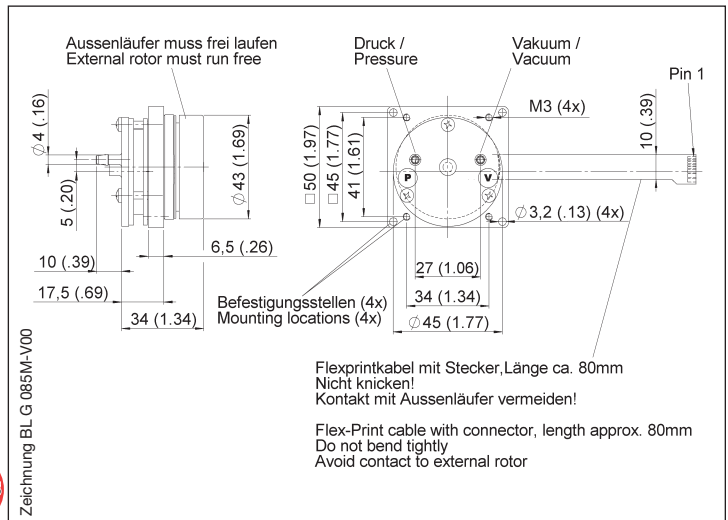
Current consumption:  
Min.: at open flow  
Max.: at max. intermittent vacuum

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# Rotary Vane Pump BL-G 085 M

<b>Flow</b>	<b>8,5 l/min</b>
<b>Max. pressure</b>	<b>450 mbar</b>
<b>Max. vacuum</b>	<b>-500 mbar</b>



## 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	-500 mbar
Max. continuous vacuum	-150 mbar

## Electrical Data

Motor type*	Brushless
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	cw/ccw

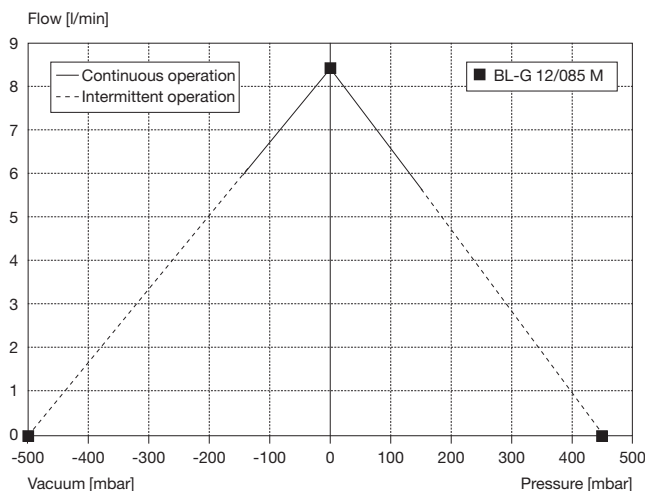
\* without electronics

All listed values are measured at standard atmospheric conditions.

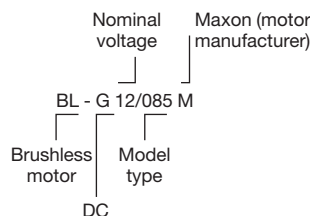
Please contact Thomas if further information regarding electrical connection and electronics is required.

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

## Flow Curves



Model key:



Pin allocation:

- 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 (50209) inclusive separate electronics (63002) + adaptor (63003) for Flex-Print connector, part number 50210

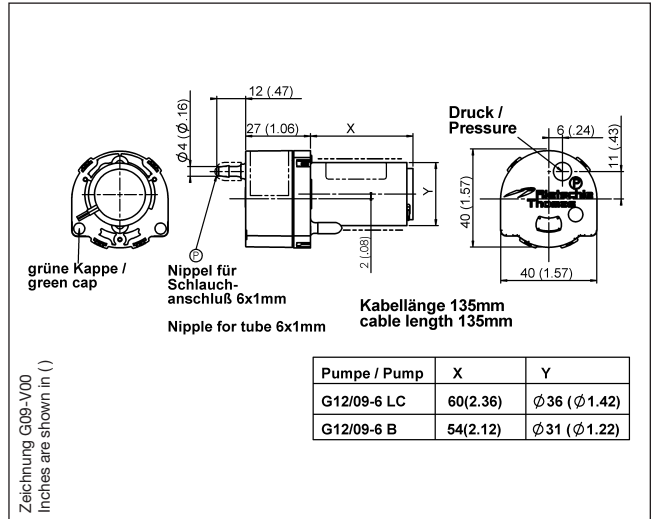
Current consumption:  
 Min.: at open flow  
 Max.: at max. intermittent vacuum

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# Rotary Vane Pump G 09

<b>Flow</b>	<b>11 l/min</b>
<b>Max. pressure</b>	<b>370 mbar</b>
<b>Max. vacuum</b>	<b>-350 mbar</b>



## Pneumatic Data

Description	G 12/09-6 LC	G 12/09-6 B
Part number	50532	50330
Max. flow	9,0 l/min	11,0 l/min
Max. intermittent pressure	350 mbar	370 mbar
Max. continuous pressure	150 mbar	200 mbar
Max. intermittent vacuum	-350 mbar	-320 mbar
Max. continuous vacuum	-150 mbar	-200 mbar

## Electrical Data

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

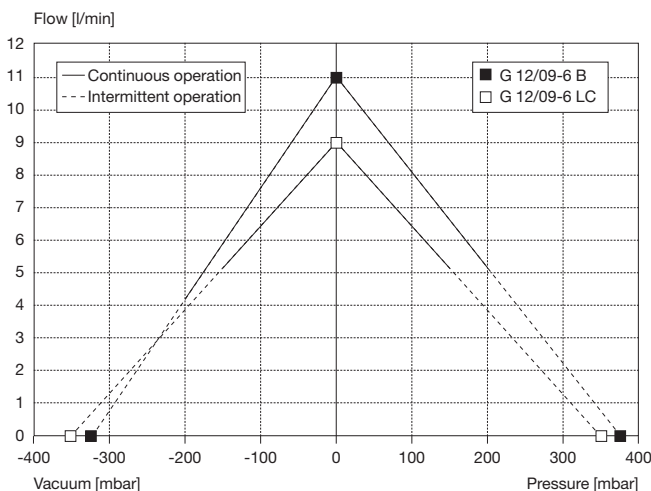
## General Data

Ambient temperature	-20 to 50 °C	-20 to 50 °C
Weight	0,30 kg	0,24 kg
Direction of rotation	cw/ccw	cw/ccw

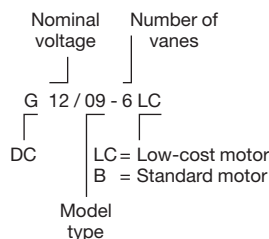
\* Please contact Thomas if speed control via Pulse-Width-Modulation is required.  
All listed values are measured at standard atmospheric conditions.

For vacuum operation: change electrical polarity.  
For noise reduction: do not remove green cap. To optimise flow: remove green cap.  
Mounting on motor body only. Do not allow force on pump head.

## Flow Curves



## Model key:



50... Stock programme

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

## Option:

G 12/09-6 LC noise reduced, part number 50533.  
Photo see frontcover.  
Mounting bracket for:  
G 12/09-6 LC, part number 31911  
G 12/09-6 LC noise reduced, part number 31914  
G 12/09-6 B, part number 31947

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