Our Ref. No.: 19/TCG-1488(MD1) **Date:** 29-05-2019

(To be quoted for all correspondence) *Page:* 01/02

To: *Fax No.:*

Attention:

SUBJECT: **QUOTATION FOR "ROTARY VANE PUMPS"**

We intend to purchase goods as per following specifications. Kindly send us your best offer in accordance with the following General Conditions as stated below:-.

General Conditions

(a) *Submission of Quotation* — Quotation may be sent immediately through **Fax** or **E-mail** but **Original Pro-forma Invoice** along with **detailed technical brochures / literature** must reach us by mail before the last date mentioned below:

(b) *Last Date of Quotation* — **ASAP**

(c) *Validity* — At least 90 days

(d) *Price Basis* — Firm and fixed C & F Prices

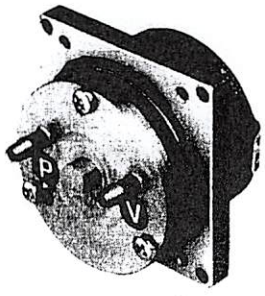
(e) *Payment Mode*

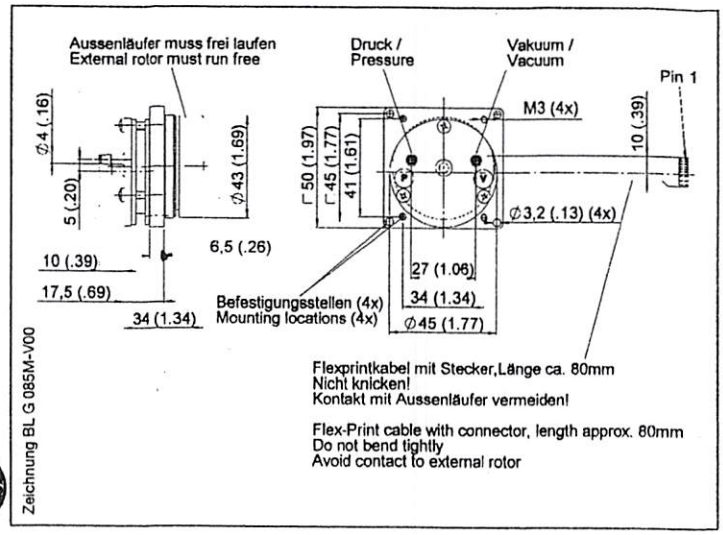
- We accept payment through L/C with condition that all domestic bank charges will be borne by us while all bank charges in beneficiary's country including all L/C conformation (if desired by the supplier) charges will be borne by the beneficiary.
- We accept Pre-payment only against unconditional & irrevocable Bank Guarantee through First Class bank.

S/ No.	Description	Qty (Nos)
1	**Rotary Vane Pump Mode: 50210,** BL-G 12/085 M, including external electronics (63002) + adaptor (63003) for flex-print **Make: Thomas** (Detail specifications attached at page-2)	150
2.	**Rotary Vane Pump, Mode: 50089,** G 6/02-4 EB, **Make: Gardner Denver Thomas** (Detail specifications attached at page-3)	300

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	cw/ccw

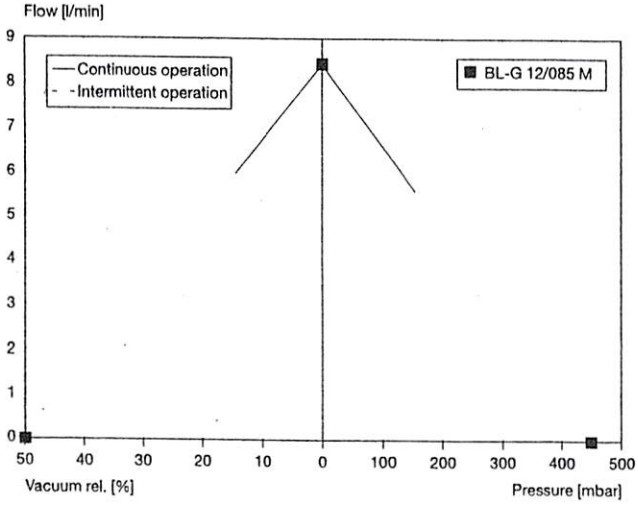
* without electronics

All listed values are measured at standard atmospheric conditions.

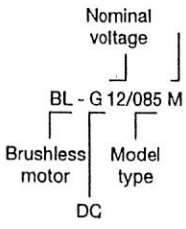
Please contact Thomas if further information regarding electrical connection and electronics is required.

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

Flow Curves



Model key:



50210 Stock programme

Current consumption:

Min.: at open flow

Max.: at max. intermittent vacuum

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

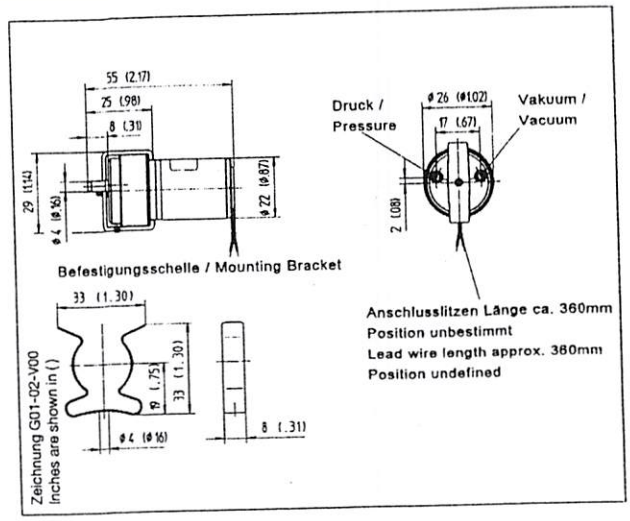
BL-G 12/085 M **50210** including external electronics (63002) + adaptor (63003) for Flex-Print connector

THOMAS
A Gardner Denver Product

Rotary Vane Pump G 02 EB

THOMAS
A Gardner Denver Product

Flow	**3,6 l/min**
Max. pressure	**190 mbar**
Max. vacuum	**-190 mbar**



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

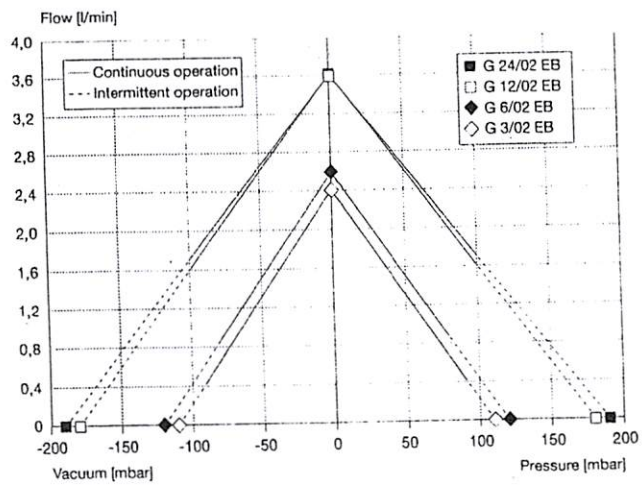
Motor type	Permanent magnet	Permanent magnet	Permanent magnet	Permanent magnet
Nominal voltage*	3 V DC	6 V DC	12 V DC	24 V DC
Min. current consumption	0,16 A	0,09 A	0,09 A	0,07 A
Max. current consumption	0,53 A	0,30 A	0,33 A	0,18 A
Protection class	IP50	IP50	IP50	IP50
Motor bearing	Sleeve bearing	Sleeve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

General Data

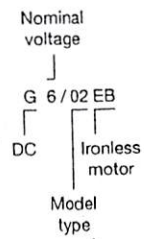
Ambient temperature	-30 to 50 °C	-30 to 50 °C	-30 to 50 °C	-30 to 50 °C
Weight	0,1 kg	0,1 kg	0,1 kg	0,1 kg
Direction of rotation	cw	cw	cw	cw

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