



## FORTUNE TECHNICS PVT LTD

1st Floor, Plot # 107A, H. No 2-22-311, Sai Srinivasam, Addagutta Society,  
Western Hills, Opp. JNTU, Kukatpally, Hyderabad-500072  
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MOBILE: +91 73965 02224 | EMAIL: [ramu@fortunetechnics.com](mailto:ramu@fortunetechnics.com)  
CIN: U29309TG2021PTC148732 | GST No. 36AAECF4466G1ZK



Authorized Dealer

Ref :-- FTPL/104/2023

Date – 21-12-2023

To,  
M/s. **CRESCENTIA Labs PVT LTD**  
, Sy no 232,243,Turkapally  
Medchal Malkajgiri  
Telangana, India.

**Kind Attn :-- Mr.P.Prabhakar – Sr.Purchase Manager**

Sub :-- Atlas Copco Vacuum pump offer.

Dear Sir,

We Thank you for your enquiry, with reference to our discussions, We are please to submit our quotation as per your requirement.

Reduction in energy cost & the carbon foot-print is a need of an hour & Atlas Copco knows you have challenging targets to reduce energy costs. We know because we face those targets, too!.

Atlas copco over 22 offices across India and thousands more across the world, we always strive to increase productivity of our customers.

We trust that enclosed information is of your interest and look forward to hear back for further discussions. If you require any further assistance on this or information regarding any of our products and services, please do not hesitate to contact me anytime.

With Regards.

**L Ramu -- Director**

**Fortune Technics Private Limited**

**Atlas Copco Authorized Dealer**

1st Floor, Plot No 107/A, H.No.2-22-311, Sai Srinivasam,Addagutta Society, Western Hills, Opp  
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## GVS-R : The technical scope of supply of Atlas Copco rotary oil-sealed vane Vacuum pumps



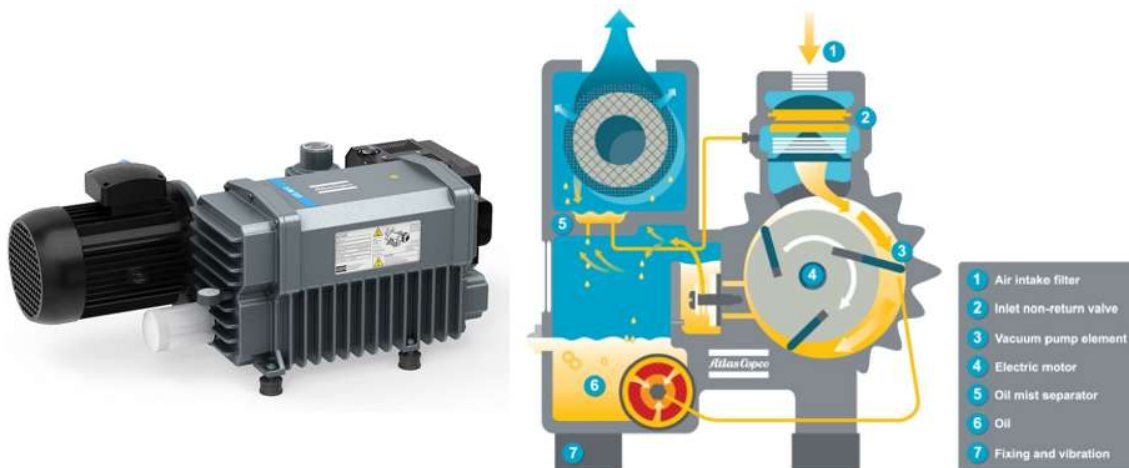
(Reference Image used: GVS 300 R Model)

### GVS R series pump description:

The GVS-R range of rotary vane vacuum pumps are of single stage, oil sealed and air- cooled. They have an integrated oil separator with coalescing filter, and oil return line. They feature a low-pressure drop inlet valve to protect the machine and system against counter-rotation.

A gas ballast valve is fitted as standard to optimize the pumps ability to handle water vapour. An air intake filter is also provided for protection in both humid and dry applications. These features deliver high reliability through a rugged and robust design.

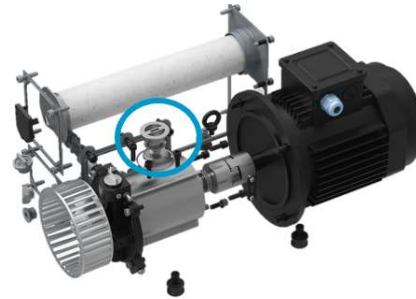
### Excellence by design



### Key Features:

## 1. Inlet anti suck back valve.

The inlet anti suck back valve protects the vacuum pump against rotation in the event of the pump stopping without the prior the point of use. The device also protects back sucking of oil vacuum pump. This assembly is located within the inlet housing, contains an inlet protection screen; an additional protection located downstream of the inlet filter.



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## 2. Vacuum pump element.

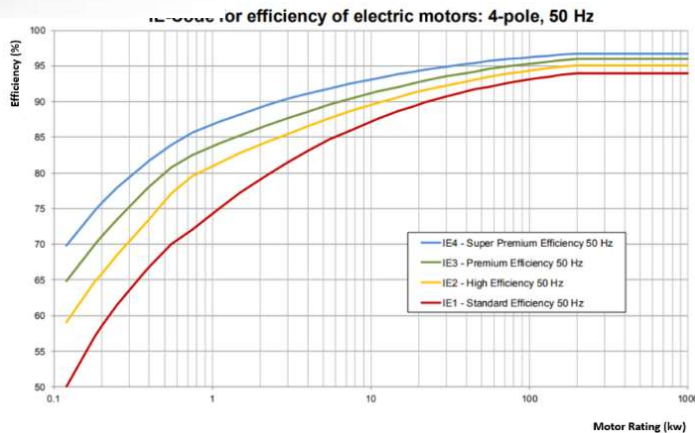
The key components within the element (or stage) have been optimized for efficient vacuum pumping at the lowest possible power consumption and optimal operating temperature. These 3 elements drastically influence the life cycle costs for vacuum pumps, notwithstanding the effects of product carryover. We have simultaneously rationalized some key design features so that these general vacuum units achieve the desired performance profile over the operating range of 1000 mbar(a) to the ultimate pressure. This includes optimization of;

- The surface finish of the vane slots and cylinder.
- Vane material selected for optimal lifetime whilst also considering noise and heat generation.
- Clearances, sealing, compression ratio etc.

## 3. Electric motor



- Motor options have been selected in order to give maximum flexibility to our customers. All motors are with Premium efficiency IE3 standard, 415V-+10%, 3Phase.
- Supplied with Motor flange & flexible coupling
- Optional One size-higher power motor is available for all the models depending upon vacuum application requirements
- Bare-Shaft pump (without motor) or flame proof motors for all the models are available as an option.



#### 4. Oil mist separator (air/oil separator vessel).

Mounted directly onto the vacuum pump element, optimized, and innovative device utilizes multi step with minimal pressure drop. The final step of oil is facilitated by an ultrafine oil coalescing filter which oil retention, thereby making it possible to locate these pumps close to the point of use. The oil is circulated the vacuum pump by the vacuum that is generated element.



this vital, separation separation maximizes vacuum around within the

#### 5. Oil selection.

The oil used within a vacuum pump is critical for longevity, performance, and life cycle costs. Achieving optimal temperature quickly and then maintaining that temperature is a critical design point. We offer various options of lubricants for our vacuum pumps, but our core lubricant is a standard mineral oil which is available commercially and as a fully tested and approved Atlas Copco lubricant (within service kits/separate containers). Atlas Copco provide the first fill of mineral oil with the unit.

#### 6. Integrated back pressure gauge for exhaust mist filter life

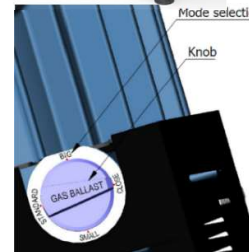
Only GVS 200 R & GVS 300 R vacuum pumps comes with integrated back to monitor exhaust mist filter life. This feature helps to maintain quality ensues maximum uptime for vacuum pump.



pressure gauge of oil and

#### 7. Variable Gas Ballast Valve (For GVS 200 R & GVS 300 R)

This vacuum pump has an inbuilt variable gas ballast valve with easy this feature the condensable gases or vapors can be removed depending applications. This innovate design have 4 different modes : Small, Standard , Big this unique valve design the GB modes can be selected easily by rotating the select the required mode based on application requirement considering water vapor handling and ultimate vacuum. In other models (GVS 16 R, GVS 40 & GVS 100 R) there is built in standard gas ballast.



accessibility; by on different & Close. In knob and capacity of R, GVS 65 R

#### 8. Exhaust Diverter (Only For GVS 200 R & GVS 300 R)



Exhaust diverter valve helps to change direction of exhaust hot air away from the vacuum pump radiator where oil is getting cool. This helps in efficient oil cooling. This valve is standard scope of supply with only GVS 200 R & GVS 300 R models

#### 9. Exhaust Dust Prevention valve (Only For GVS 40 R, GVS 65 R & GVS 100 R)

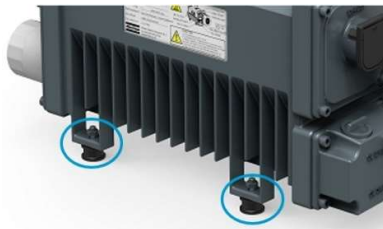


Exhaust dust prevention valve come as standard scope of supply for GVS 40 R, GVS 100 R only. When pump is not in running condition this valve automatically closes the exhaust port and thus helps to prevent dust entering through exhaust port. This helps in maintaining quality of oil.



GVS 60 R &  
pump

## 10. Vibration Isolator

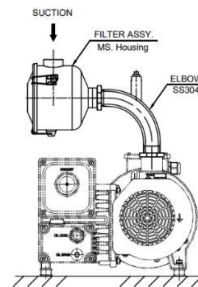


The GVS R range of vacuum pumps has low levels of vibration and does not need fixing down in normal circumstances, such as static installations. However, we supply all our machines with anti-vibration mounts as standard to allow our vacuum products to be built into machinery or fixed in position.

## 11. Air intake filter (Optional)

Filters are designed specifically for vacuum applications due to its optimized Two options available:

- Polyester 5-micron filter cartridge in MS filter housing with SS 304 elbow
- SS 304 wire mesh 40-micron filter cartridge in MS filter housing with SS



pressure drop.

304 elbow

## Standard Scope of supply

- Single stage, oil sealed, Air-cooled
- Inlet anti suck back valve
- First fill of oil
- Integrated oil separator with coalescing filter, oil filter and oil return line.
- A gas ballast valve ( Variable gas ballast for GVS 200 R & GVS 300 R)
- Lifting lug
- Additional damper support underneath motor
- IE 3 Efficiency electrical motor with standard flange mounting
- Exhaust Dust prevention valve (Only in GVS 40 R, GVS 65 R & GVS 100 R)
- Exhaust Diverter (Only in GVS 200 R & GVS 300 R)
- Integrated pressure gauge to monitor exhaust mist filter life. (Only in GVS 200 R & GVS 300 R)



## ■ Technical Specification

|                                                                      | Unit               | GVS 16 R | GVS 40 R   | GVS 65 R   | GVS 100 R  | GVS 200 R         | GVS 300 R           |
|----------------------------------------------------------------------|--------------------|----------|------------|------------|------------|-------------------|---------------------|
| Nominal pumping speed @ 50Hz                                         | m <sup>3</sup> /hr | 17       | 43         | 65         | 102        | 192               | 300                 |
| Ultimate pressure without gas ballast                                | Mbar               | <0.3     | <0.1       | <0.1       | <0.1       | <0.1              | <0.3                |
| Ultimate pressure with gas ballast<br>*Mode: Small / Standard / Big  | Mbar               | <1.5     | <1.5       | <1.5       | <1.5       | <0.8 / <1.5 / <2* | <0.8 / <1.8 / <2.5* |
| Max. water vapour handling capacity<br>*Mode: Small / Standard / Big | Kg/hr              | 0.3      | 0.9        | 1.4        | 2.2        | 1.5 / 2.5 / 4*    | 2.4 / 4.5 / 6*      |
| Maximum water vapour tolerance<br>*Mode: Small / Standard / Big      | mbar               | 40       | 40         | 40         | 40         | 20 / 30 / 40*     | 20 / 30 / 40*       |
| Nominal power rating at 50Hz                                         | kW                 | 0.75     | 1.1        | 1.5        | 2.2        | 3.7               | 5.5                 |
| Inlet connection (Female)                                            | Thread             | G ¾" (F) | G 1 ¼" (F) | G 1 ¼" (F) | G 1 ¼" (F) | G 2" (F)          | G 2" (F)            |
| Outlet connection (Female)                                           | Thread             | G ¾" (F) | G 1 ¼" (F) | G 1 ¼" (F) | G 1 ¼" (F) | G 2" (F)          | G 2" (F)            |
| Noise level (+/- 3dB(A))                                             | dB(A)              | 63       | <60        | 64         | 65         | 69                | 72                  |
| Weight                                                               | kg                 | 29       | 55         | 59         | 80         | 139               | 193                 |

Tested according to Pneurop 6602 part 1 (1979) and IS 6849 part 1 (1999), part 2 (1993) and part 3 (1976)

## ■ Scope Matrix for Various Models

| Scope Matrix                                                     | GVS 16 R | GVS 40 R | GVS 65 R | GVS 100 R | GVS 200 R | GVS 300 R |
|------------------------------------------------------------------|----------|----------|----------|-----------|-----------|-----------|
| Exhaust dust prevention valve                                    | ×        | ✓        | ✓        | ✓         | ×         | ×         |
| Exhaust diverter                                                 | ×        | ×        | ×        | ×         | ✓         | ✓         |
| Integrated pressure gauge<br>to monitor exhaust mist filter life | ×        | ×        | ×        | ×         | ✓         | ✓         |
| Integral Anti suck back valve (At Inlet)                         | ✓        | ✓        | ✓        | ✓         | ✓         | ✓         |
| Blower Fan ( To cool the pump body)                              | ×        | ×        | ✓        | ✓         | ×         | ×         |
| Radiator with Blower Fan ( To cool oil & pump body)              | ×        | ×        | ×        | ×         | ✓         | ✓         |
| Standard gas ballast (ON & Close)                                | ✓        | ✓        | ✓        | ✓         | ×         | ×         |
| Variable gas ballast ( Small, Standard, Big, Close)              | ×        | ×        | ×        | ×         | ✓         | ✓         |
| One Size higher motor or Flame Proof Motor                       | ✓        | ✓        | ✓        | ✓         | ✓         | ✓         |

## Price Schedule

| Sr. No | Model                                                                                                                                                | Qty | Special Price<br>INR – Ex Works |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------|
| 1      | Atlas Copco make Oil-Sealed Rotary Vane Vacuum Pump <b>Model GVS 100 R</b> along-with <b>FLP IE3 Premium efficiency motor</b> and first fill of oil. | 02  | 8,83,000/-                      |
| 2      | Buffer tank- SS304 (8mm thick)                                                                                                                       | 01  |                                 |
| 3      | Solenoid valve air operated 1 1/2"                                                                                                                   | 02  |                                 |
| 4      | Pressure Guage                                                                                                                                       | 01  |                                 |
| 5      | Vacuum Switch                                                                                                                                        | 02  |                                 |
| 6      | Control panel and Interconnecting piping                                                                                                             | 01  |                                 |



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CIN: U29309TG2021PTC148732 | GST No. 36AAECF4466G1ZK



Authorized Dealer

## TERMS & CONDITIONS

**Prices:** Ex.Turkapally

**GST:** GST 18% Extra

**Packing & Forwarding:** Included

**Transit Insurance:** If the insurance will be in Fortune Technics Pvt Ltd scope then on receipt of material it needs to be immediately inspected by opening all the boxes & if any material is found damaged / short supply then it needs to be intimated to us with a week of receipt of the material. Insurance cost will be recovered separately and must be agreed in advance with customer. After 1 week no any request / claim in this regard will be entertained.

**Delivery Period:** Material will be despatched 8-10weeks from the date of receipt of your Purchase Order complete in all respects along with the road permit form. However, Atlas Copco will always try for earliest possible delivery.

**Warranty:** 12 months from the date of commissioning or 18 months from the date of dispatch or 4000 running hours, whichever is earlier for the Equipment supply only.

**Supervision of Erection and Commissioning:** For the supervision of Erection and Commissioning work. Kindly follow only Atlas Copco guidelines for Erection & Commissioning.

**Exclusions (Unless specified in the quotation):**

- Building/ Civil works/ Ventilations
- Unloading/Offloading/Utilities/Commissioning/ Erection at site.
- All 3<sup>rd</sup> party inspection and fees
- Mechanical and electrical Installations
- Anything not mentioned is to be discuss and get incorporated in offer, subject to price change

**Payment:** 30% advance balance 70% against proforma Invoice prior dispatch

**Freight:** Included

**Force Majeure:** This clause is applicable.

**Validity:** This offer shall be valid for a period of 30 days; the validity can be extended with our written consent.

**Safety Norms:** ACIL is certified for Occupational Health & Safety, Environment, Energy & Quality Management System as per ISO 9001:2015, ISO 14001:2015, ISO 50001:2011 & OHSAS 18001:2007 requirements. Our Field Service Team shall work at your site in accordance to all SHEQ requirements.

Should you have any site-specific safety requirements, specifically relevant to Atlas Copco's proposed scope of supply, please communicate these in writing to the relevant company representative for proper consideration. We anticipate that you will provide safe & healthy working atmosphere for our Field Service Team to support you.

**Bank Details for Payment:**





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CIN: U29309TG2021PTC148732 | GST No. 36AAECF4466G1ZK



**Authorized Dealer**

|                           |                                                                      |
|---------------------------|----------------------------------------------------------------------|
| Bank Name<br>Account name | ICICI Bank.<br>FORTUNE TECHNICS PVT LTD                              |
| Branch / Branch code      | LB Nagar Branch/0001314                                              |
| Account No / Account Type | 131405003351 (Current Account)                                       |
| Address                   | 3-11-467, Beside Kushal Convention, LB Nagar, Mansoorabad, Hyderabad |
| IFSC Code                 | ICIC0001314                                                          |
| MICR Code                 | 500229047                                                            |