



# Sanitary and Food Pumps



*We Make The Difference*

# Line Introduction

**RubyPharma Air Diaphragm Pump** are designed specifically for food, beverage, and cosmetic applications.

They can handle a wide range of viscosities - from low to highly viscous liquids - and can process fluids containing suspended particles.

Compliant with FDA standards, RubyPharma Air Diaphragm Pumps are constructed from mechanically polished AISI 316L stainless steel featuring an exceptional surface finish of  $\leq Ra\ 0.8\ \mu m$ .

The pump is equipped with standard Tri-Clamp connections.

## Main Advantages

- Constructed from high-grade, mechanically polished AISI 316L stainless steel ( $Ra \leq 0.8\ \mu m$ )
- Thanks to the clamp system, the pump can be dismantled quickly and easily - with no tools required
- Cleaning-in-Place (CIP) and Sterilization-in-Place (SIP) systems are designed to allow automatic cleaning and sterilization without the need for major disassembly of the pump
- The pump is equipped with a nickel-plated metallic center block
- Certified for use in potentially explosive atmospheres (ATEX Zone 1-2)
- Equipped with New-generation PTFE compound diaphragms for extended service life
- High-performance PTFE-A Full-Capacity diaphragms for demanding chemical and mechanical applications
- Capable of dry running without risk of damage
- Automatic self-priming suction
- Operating temperature range:  $-10^{\circ}C$  to  $+130^{\circ}C$

The **Quick Emptying System** of the **RubyPharma** pump allows complete drainage of fluid from the suction chambers. This operation can be easily performed by hand, without the need for tools or special equipment. As a result, the pump is left free of internal residues and ready for washing and sanitization.



# Main application sectors



**Cosmetics and Personal care**  
Cream, shampoo, liquid soap etc.



**Food and beverage**  
Honey, yogurt, fruit pulp & juice,  
glycose, ketchup, wine etc.



# RubyPharma Diaphragms

## Introducing the Advanced Composite Diaphragms of RubyPharma pump

Diaphragms play a crucial role in the operation of a diaphragm pump. No matter what the pumping liquid is, from water to aggressive acids, diaphragms must meet the needs of very specific handling characteristics as they relate to product compatibility.

Diaphragms of Ruby pumps are constructed of high-quality materials and their design, enables them to produce reliable and optimal performance. Available in a full range of options, PTFE, PTFE-A, EPDM they meet the specific needs of every pumping application.

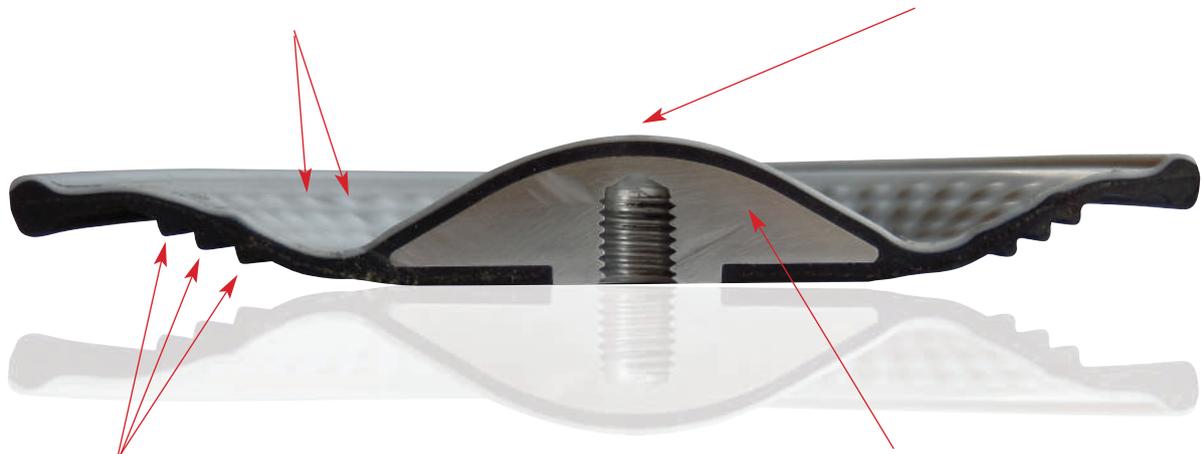


- Excellent, extended service life
- Greater performance
- Higher displacement per cycle
- Easy to install and maintain
- Eliminated leak paths due to absence of central hole
- They can be installed and removed without the use of tools
- Our diaphragms last longer and are considerably stronger than other diaphragms
- They can be used with most chemicals and are ideal for a wide range of pumping tasks
- Longer diaphragm life in more abrasive applications that still require PTFE

## Advanced Composite Diaphragms Offer:

**The prominences decrease**  
the stretching of the PTFE during the regression and prevent it from cracking.

**Innovative conical shape**  
ideal for optimal performance and life, low pressure requirements for start-up, ideal suction



**Innovative diaphragm support side,**  
offers flexibility, long life and protects from cavitation

**Special internal plate**  
supports diaphragm in every movement

# New Air Valve Design

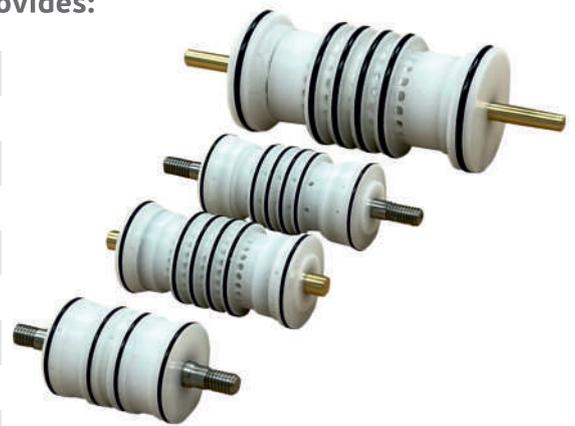
Designed and made using the most innovative technology, the **Air Valve** is the “heart” of the RubyPharma pump.

It functions without the need for lubricants or oils, hence:

- Eliminates the risk of seizing due to lubrication issues
- Protects the environment
- Saves money spent for lubrication

The innovative Air Valve of RubyPharma pump also provides:

- Great saving energy due to fully managed airflow
- Low-maintenance
- Non- Internal freeze
- Non-dead-Centre asymmetric operation
- Long service life
- Low cost of spare parts
- Easy installation
- Reliability
- Does not contain metal parts (excluding shaft)



## ATEX Certificate

RubyPharma Air Operated Diaphragm Pump comply with the demands of EU Directive 2014/34/EU and are certified by ATEX II 2/2 G/D so they can operate safely in potentially explosive atmospheres where flammable gases, mists or dust particles may be present.

ATEX Certificate has been issued by the European notified body TÜV NORD.  
Certificate number : C 004-2

## RubyPharma Pump composition code:

R 125	SU	AN	Z	T	T
Pump Model	Pump Body	Center Section	Diaphragms	Ball Valve	O-ring
Ruby 125	SU: AISI 316L mirror polish	AN : Alu Nickel Plated	E : EPDM Conductive T : PTFE+back up (EPDM Conductive) Z : PTFE A+back up (EPDM Conductive)	T: PTFE S: AISI 316	T: PTFE

# Ruby 125

Construction materials: **Stainless Steel 316L Mirror Polish**  
**Surface Roughness : 0.8µm**



Zone 2 - Zone 22 II 3G Ex h IIB T4 Gc - II 3D Ex h IIB T135°C Dc  
 Zone 1 - Zone 21 II 2G Ex h IIC T4 Gb - II 2D Ex h IIC T135°C Db

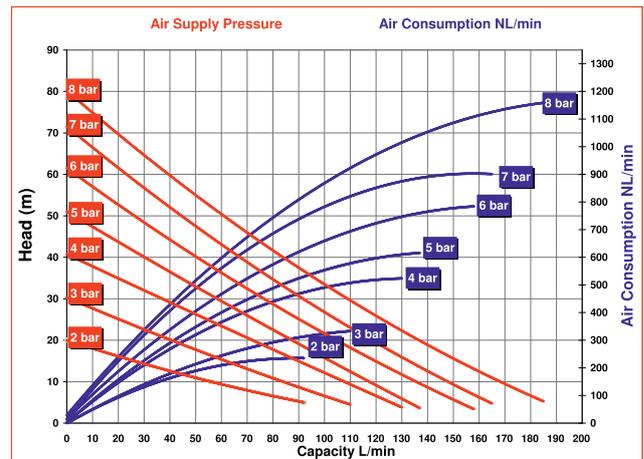
## Technical data

## Ruby 125

Suction / Discharge connections	DN 40 Tri-clamp
Air connection	1/2" BSP F
*Max. flow rate	185 L/min
*Max. self-priming capacity - dry running	4 m
*Max. negative suction head - with pump primed	9.5 m
Max. head	80 m
Max. operating pressure	Min. 2 bar - Max. 8 bar
Max. size of solids	3.5 mm
Max. operating Temperature	95°C
Weight	25.0 Kg



## Performances PTFE+A Fitted



ISO 9001:2015



FDA COMPLIANT



1935/2004/EC



ATEX

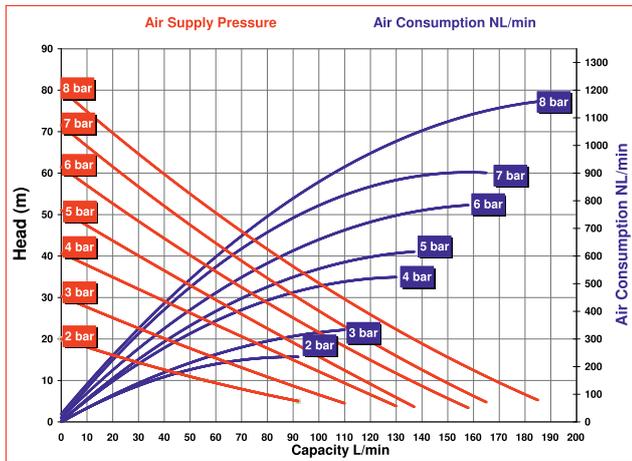


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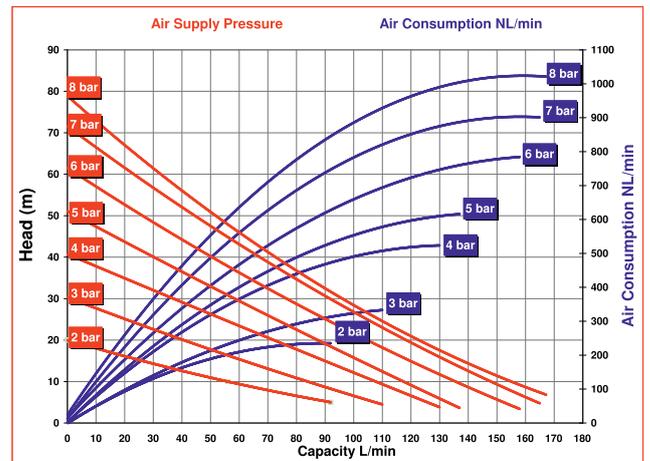


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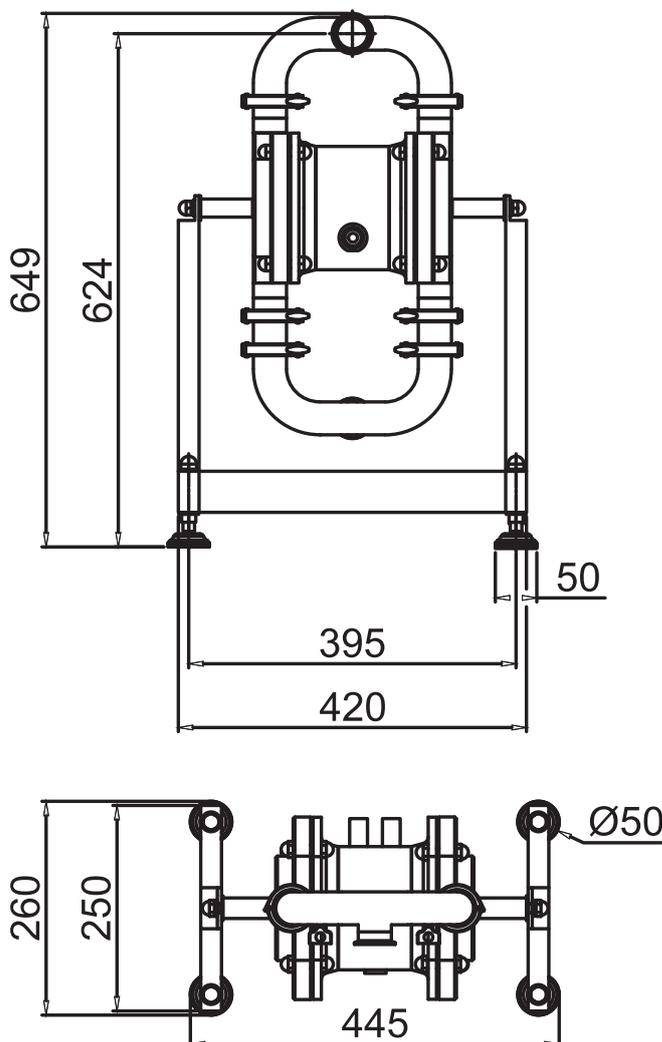
### Performances EPDM Fitted



### Performances PTFE Fitted



## Dimensions:





*We Make The Difference*

**Headquarters / Factory:**

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