

# Air Operated Double Diaphragm Pumps

# Line Introduction

**Ruby Air Double Diahragms Pumps** are available in various designs, from miniature ¼-inch to 3-inch and can handle a wide range of fluids.

They can work with low to highly viscous liquids even if they contain suspended particles.

They are applicable in many industries such as: Chemical, Marine, Food and Beverage, Cosmetic, Paint, Galvanic, Textile, Water and Sludge, Oil and Gas and many more.

Available in both plastic (PP or PVDF) and metal (Aluminum or SS 316) versions these “small giants” may be simple in design but that doesn't stop them from operating across challenging environments.

Their wetted parts are available in various materials which makes them compatible with any type of fluid.

## Main Advantages

Available in PP, PP+CF, PVDF+CF, ALUMINUM and STAINLESS STEEL 316 versions.

- Certified for use in potentially explosive atmospheres (ATEX certification zone 1-2)
- Advanced diaphragms of new technology
- New generation PTFE compound diaphragms for long life operation
- Advanced quality PTFE-A Full capacity diaphragms for high chemical and mechanical applications
- Dry running without risk of damage
- Self-priming capacity
- No need for air lubrication
- Innovative oil free Air Valve
- Adjustable flow rate and head
- Designed for varying flow, and head conditions
- Able to operate while fully submerged in the pumping liquid (On request)
- Twin suction and discharge of separate fluids
- Automatic suction
- Easy manifold reverse
- Long service life
- Reliable, optimal performance at the lowest possible cost
- Ideal for handling abrasive, viscous and shear sensitive or corrosive fluids
- Operating temperatures:
  - PP/PP+CF → -5°C / + 60°C
  - PVDF + CF → -10°C / +120°C
  - Aluminum → -10°C / +130°C
  - Stainless steel → -10°C / 130°C

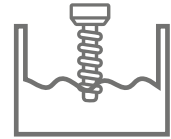
## Main application sectors



CHEMICAL INDUSTRY



SHIPPING



GALVANIC AND  
ELECTRONIC INDUSTRY



GRAPHIC INDUSTRY



PAINT INDUSTRY



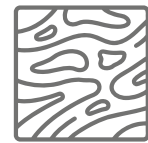
PRODUCTION AND  
STORAGE OF BIODIESEL



AUTOMOTIVE



PACKING, GLUE, PAPER  
AND PAPER MILLS



CERAMIC,  
STONE, MARBLE, GLASS  
AND MINING INDUSTRY



WATER AND SLUDGE  
TREATMENT



TEXTILE AND  
LEATHER INDUSTRY



OIL & GAS



METAL PROCESSING  
INDUSTRY



MECHANICAL AND  
METALLURGIC INDUSTRY

# Ruby Diaphragms

## Introducing the Advanced Composite Diaphragms of Ruby pumps

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, NBR, EPDM, VITON, they meet the specific needs of every pumping application.

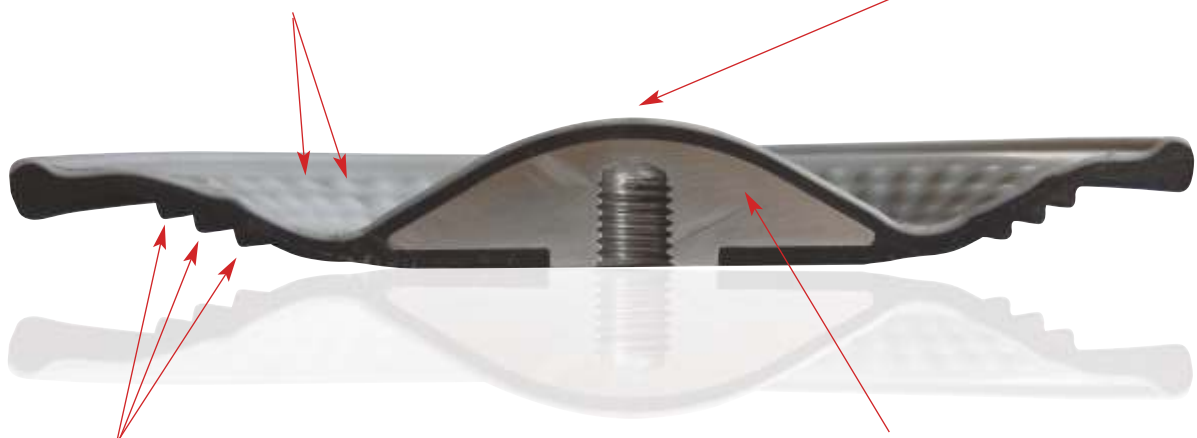


- Excellent, extended service life
- Greater performance
- Higher displacement per cycle
- Easy to install and maintain
- Eliminated leak paths due to absence of central hole
- They can be installed and removed without the use of tools
- Our diaphragms last longer and are considerably stronger than other 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 Ruby 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 Ruby pumps 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

Both plastic and metallic conductive series of Ruby Air Diaphragm Pumps 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.

Plastic Conductive and AISI 316 pumps are also certified by ATEX I M2 for use in underground parts of mines.

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

## Ruby Pumps composition codes:

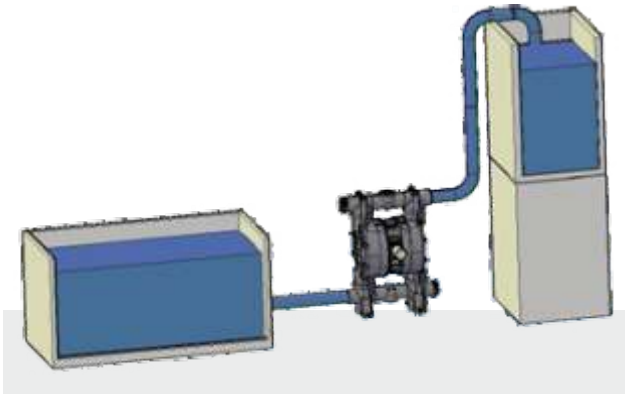
example: model Ruby 126P-P-TPT-F

Pump Model Ruby 126, PP Pump Body, PP Center Section, PTFE Diaphragms, PP Ball Seats, PTFE Ball Valve, VITON O-ring

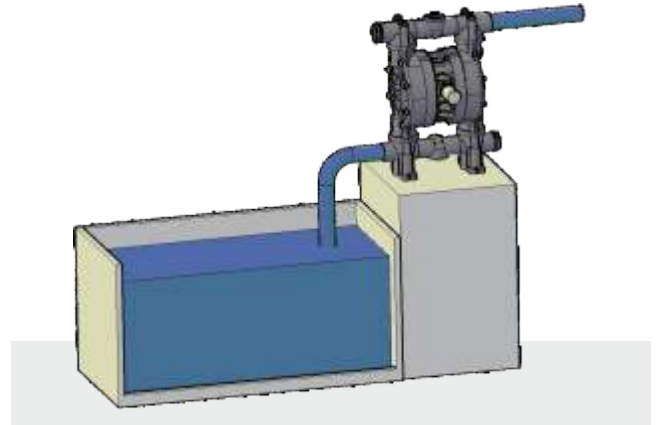
| R 126      | P                       | P              | T                                    | P           | T           | F        | -                       |
|------------|-------------------------|----------------|--------------------------------------|-------------|-------------|----------|-------------------------|
| Pump Model | Pump Body               | Center Section | Diaphragms                           | Ball Seats  | Ball Valve  | O-ring   | Other Options           |
| MINI 005   | P : PP                  | P : PP         | N : NBR Conductive                   | V: PVDF     | T: PTFE     | T: PTFE  | F: Flange PN10/ANSI 150 |
| Ruby 008   | V : PVDF+CF             | A : Aluminum   | E : EPDM Conductive                  | S: AISI 316 | S: AISI 316 | F: VITON | D: Twin Manifold        |
| Ruby 010   | A : Aluminum            | PC: PP+CF      | F : VITON Conductive                 | A: Aluminum | N: NBR      | E: EPDM  |                         |
| Ruby 115   | S : Stainless Steel 316 |                | T : PTFE+back up (EPDM Conductive)   | P: PP       | E: EPDM     | N: NBR   |                         |
| Ruby 120   | PC: PP+CF               |                | Z : PTFE A+back up (EPDM Conductive) | N: NBR      |             |          |                         |
| Ruby 025   |                         |                | ST: PTFE+back up (SANTOPRENE)        | E: EPDM     |             |          |                         |
| Ruby 125   |                         |                | HY: PTFE+ back up (HYTREL)           | O: POM-C    |             |          |                         |
| Ruby 126   |                         |                | NT: PTFE+Back up (NBR)               |             |             |          |                         |
| Ruby 140   |                         |                |                                      |             |             |          |                         |
| Ruby 141   |                         |                |                                      |             |             |          |                         |
| Ruby 150   |                         |                |                                      |             |             |          |                         |
| Ruby 151   |                         |                |                                      |             |             |          |                         |
| Ruby 081   |                         |                |                                      |             |             |          |                         |
| Ruby 180   |                         |                |                                      |             |             |          |                         |

# Installations

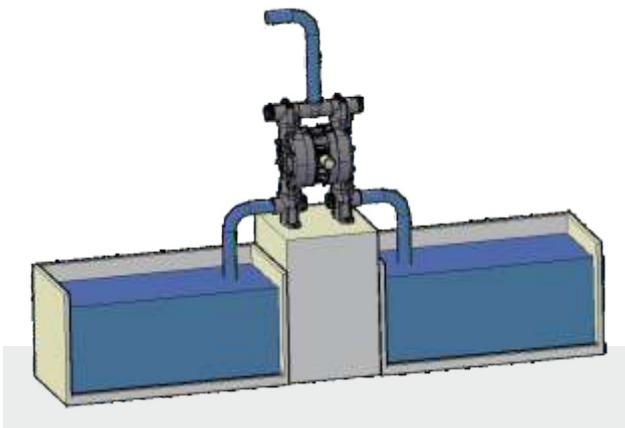
Under Head (Positive suction) \_\_\_\_\_



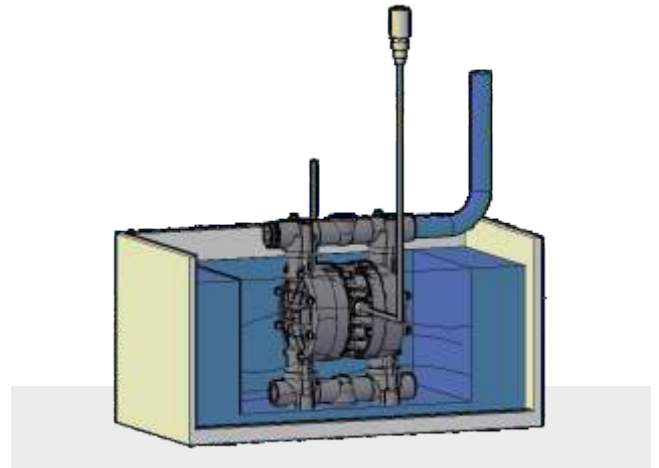
Self Priming \_\_\_\_\_



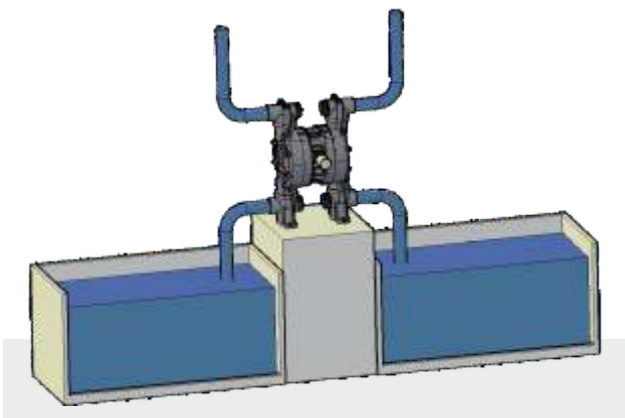
Split Suction \_\_\_\_\_



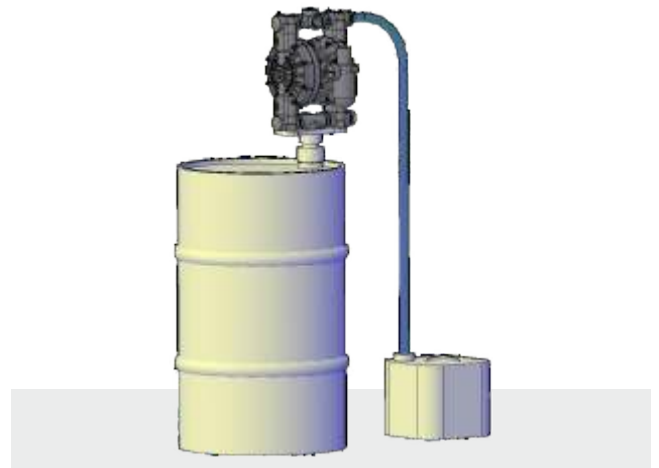
Immersed Transfer \_\_\_\_\_



Split Suction and Discharge \_\_\_\_\_



Drum Transfer \_\_\_\_\_



# Minipump 005

Construction materials: **PP, PP+CF, PVDF+CF**

# Ruby 008



Zone 2 - Zone 22  
Zone 1 - Zone 21  
Zone M2

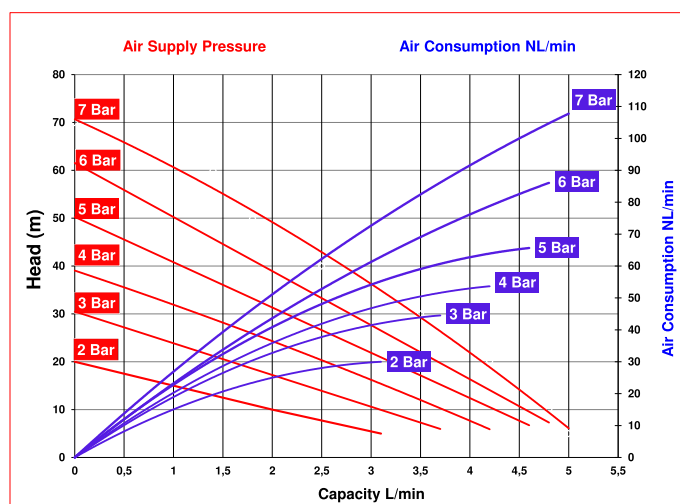
II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc  
II 2G Ex h IIC T4 Gb - II 2D Ex h IIIC T135°C Db  
I M2 Ex h I Mb

## Technical data

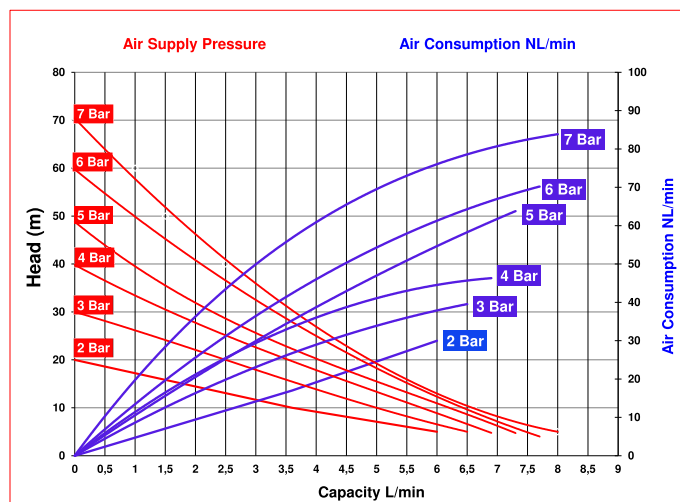
|                                                | Minipump 005            | Ruby 008                |
|------------------------------------------------|-------------------------|-------------------------|
| Suction / Discharge connections                | 1/4" BSP F              | 1/4" BSP F              |
| Air connection                                 | 1/8" BSP F              | 1/8" BSP F              |
| *Max. flow rate                                | 5 L/min                 | 8 L/min                 |
| *Max. self-priming capacity - dry running      | 3 m                     | 3 m                     |
| *Max. negative suction head - with pump primed | 9.5 m                   | 9.5 m                   |
| Max. head                                      | 70 m                    | 70 m                    |
| Max. operating pressure                        | Min. 2 bar - Max. 7 bar | Min. 2 bar - Max. 7 bar |
| Max. size of solids                            | 0.5 mm                  | 0.5 mm                  |
| Max. operating Temperature                     | PP: 60°C , PVDF: 95°C   | PP: 60°C , PVDF: 95°C   |
| Weight PP                                      | 0.7 Kg                  | 0.7 Kg                  |
| Weight PVDF+CF                                 | 1.3 Kg                  | 1.3 Kg                  |



Performances Minipump 005



Performances Ruby 008



\* The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C and vary according the construction material.

# Ruby 010

Construction materials: **PP, PP+CF, PVDF+CF, AISI 316**



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  
 Zone M2 I M2 Ex h I Mb

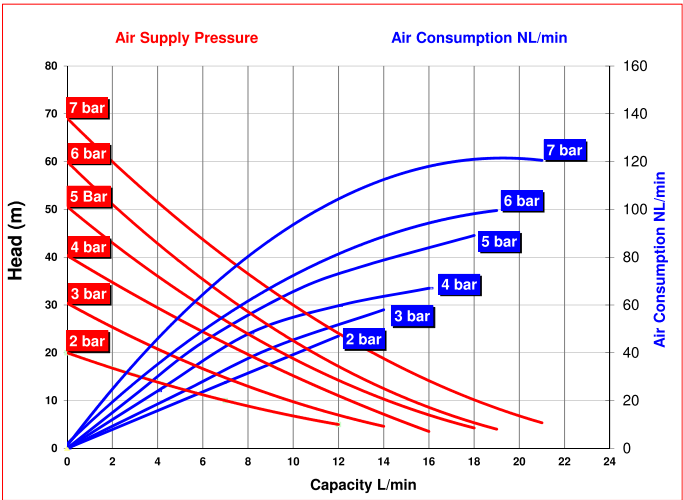
## Technical data

|                                                |                                        |
|------------------------------------------------|----------------------------------------|
| Suction / Discharge connections                | 3/8" BSP F                             |
| Air connection                                 | 3/8" BSP F                             |
| *Max. flow rate                                | 21 L/min                               |
| *Max. self-priming capacity - dry running      | 4 m                                    |
| *Max. negative suction head - with pump primed | 9.5 m                                  |
| Max. head                                      | 70 m                                   |
| Max. operating pressure                        | Min. 2 bar - Max. 7 bar                |
| Max. size of solids                            | 0.5 mm                                 |
| Max. operating Temperature                     | PP: 60°C , PVDF: 95°C , AISI 316: 95°C |
| Weight PP                                      | 1.2 Kg                                 |
| Weight PVDF+CF                                 | 1.9 Kg                                 |
| Weight AISI 316                                | 3.0 Kg                                 |

## Ruby 010



## Performances Ruby 010



\* The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C and vary according the construction material.

# Ruby 115

Construction materials: PP, PP+CF, PVDF+CF, AISI 316, ALUMINUM



Zone 2 - Zone 22  
Zone 1 - Zone 21  
Zone M2

II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc  
II 2G Ex h IIC T4 Gb - II 2D Ex h IIIC T135°C Db  
I M2 Ex h I Mb

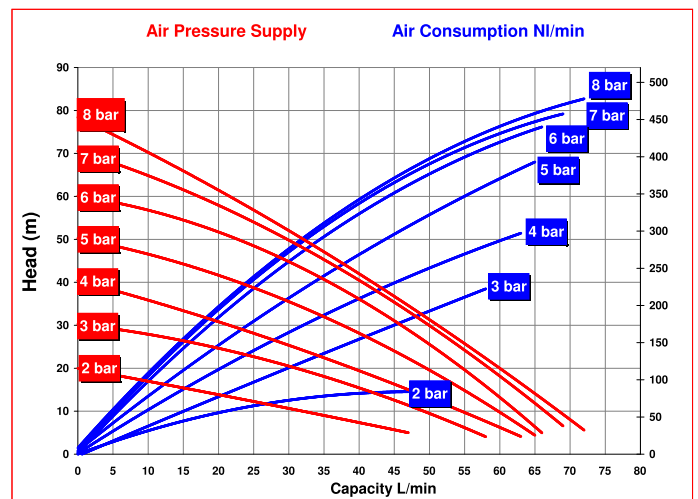
## Technical data

|                                                |                                                         |
|------------------------------------------------|---------------------------------------------------------|
| Suction / Discharge connections                | 1/2" BSP F                                              |
| Air connection                                 | 1/2" BSP F                                              |
| *Max. flow rate                                | 72 L/min                                                |
| *Max. self-priming capacity - dry running      | 3 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 mm                                                    |
| Max. operating Temperature                     | PP: 60°C , PVDF: 95°C , AISI 316: 95°C , ALUMINUM: 95°C |
| Weight PP                                      | 4.0 Kg                                                  |
| Weight PVDF+CF                                 | 5.5 Kg                                                  |
| Weight AISI 316                                | 9.0 Kg                                                  |
| Weight ALUMINUM                                | 6.0 Kg                                                  |

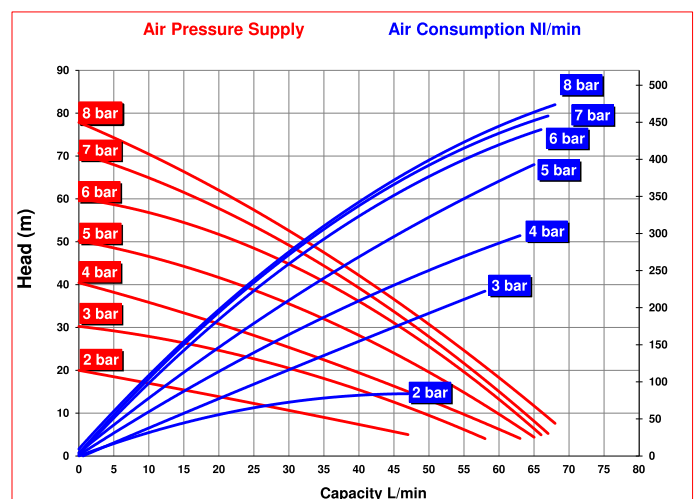
## Ruby 115



## Performances Rubber Fitted



## Performances PTFE+A Fitted



\* The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C and vary according to the construction material.

# Ruby 120

Construction materials: PP, PP+CF, PVDF+CF, AISI 316, ALUMINUM



Zone 2 - Zone 22  
Zone 1 - Zone 21  
Zone M2

II 3G Ex h IIB T4 Gc - II 3D Ex h IIB T135°C Dc  
II 2G Ex h IIC T4 Gb - II 2D Ex h IIC T135°C Db  
I M2 Ex h I Mb

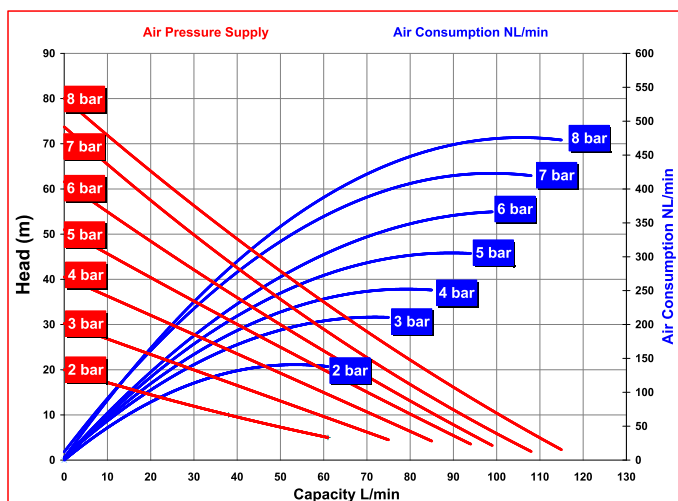
## Technical data

|                                                |                                                         |
|------------------------------------------------|---------------------------------------------------------|
| Suction / Discharge connections                | 3/4" BSP F                                              |
| Air connection                                 | 1/2" BSP F                                              |
| *Max. flow rate                                | 115 L/min                                               |
| *Max. self-priming capacity - dry running      | 3 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 mm                                                    |
| Max. operating Temperature                     | PP: 60°C , PVDF: 95°C , AISI 316: 95°C , ALUMINUM: 95°C |
| Weight PP                                      | 4.0 Kg                                                  |
| Weight PVDF+CF                                 | 5.5 Kg                                                  |
| Weight AISI 316                                | 9.0 Kg                                                  |
| Weight ALUMINUM                                | 6.0 Kg                                                  |

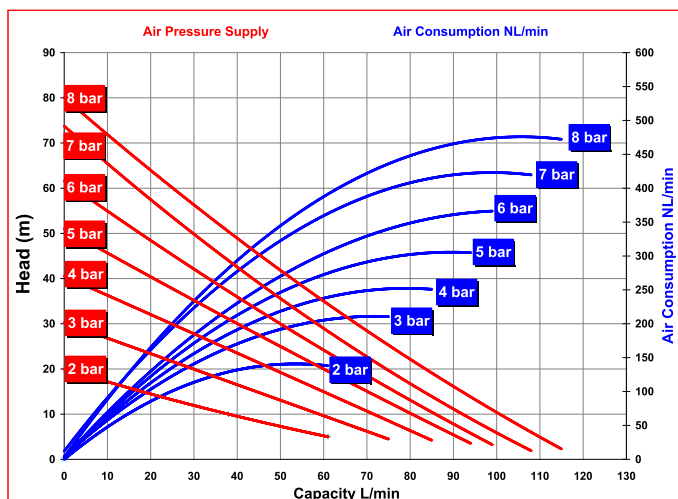
## Ruby 120



### Performances Rubber Fitted



### Performances PTFE+A Fitted



\* The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C and vary according to the construction material.



# Ruby 025

Construction materials: **PP, PP+CF, PVDF+CF**



Zone 2 - Zone 22  
Zone 1 - Zone 21  
Zone M2

II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc  
II 2G Ex h IIC T4 Gb - II 2D Ex h IIIC T135°C Db  
I M2 Ex h I Mb

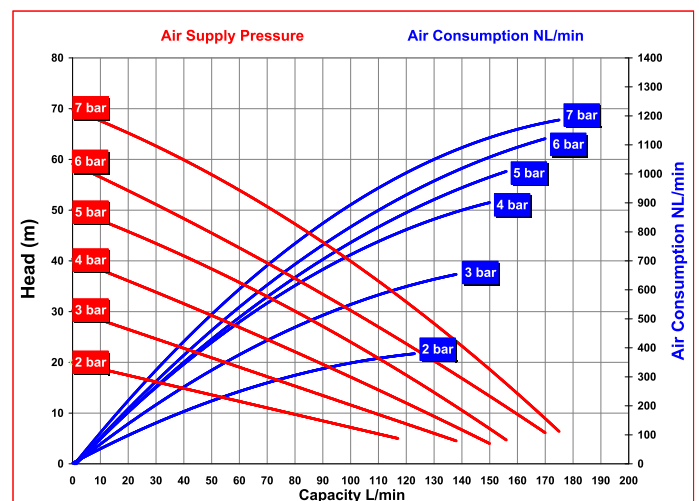
## Technical data

|                                                |                         |
|------------------------------------------------|-------------------------|
| Suction / Discharge connections                | 1" BSP F                |
| Air connection                                 | 1/2" BSP F              |
| *Max. flow rate                                | 175 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. 7 bar |
| Max. size of solids                            | 3.5 mm                  |
| Max. operating Temperature                     | PP: 60°C , PVDF: 95°C   |
| Weight PP                                      | 6.0 Kg                  |
| Weight PVDF+CF                                 | 7.0 Kg                  |

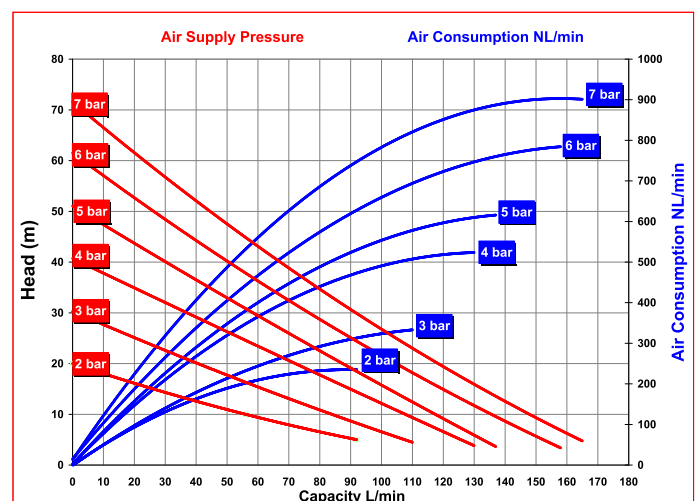
## Ruby 025



## Performances Rubber Fitted



## Performances PTFE+A Fitted



\* The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C and vary according the construction material.



# Ruby 125

Construction materials: PP, PP+CF, PVDF+CF, AISI 316, ALUMINUM



Zone 2 - Zone 22 II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc  
Zone 1 - Zone 21 II 2G Ex h IIC T4 Gb - II 2D Ex h IIIC T135°C Db  
Zone M2 I M2 Ex h I Mb

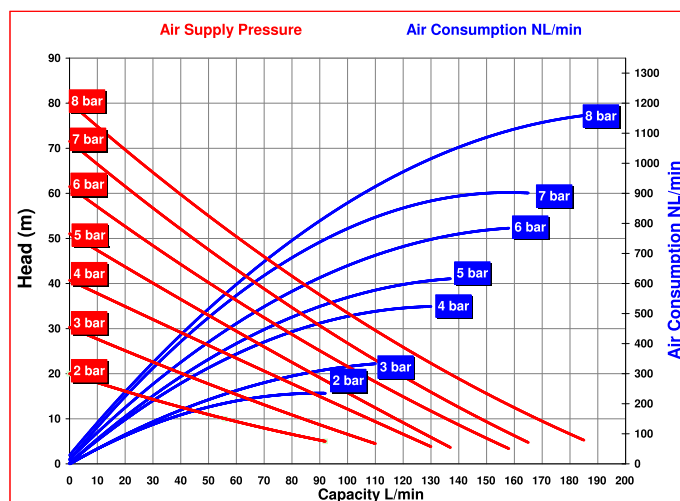
## Technical data

|                                                |                                                                              |
|------------------------------------------------|------------------------------------------------------------------------------|
| Suction / Discharge connections                | 1" BSP F                                                                     |
| 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                     | PP: 60°C , PVDF - AISI 316 - ALUMINUM: 95°C , w/metallic center block: 130°C |
| Weight PP                                      | 6.0 Kg                                                                       |
| Weight PVDF+CF                                 | 7.0 Kg                                                                       |
| Weight AISI 316                                | 14.0 Kg                                                                      |
| Weight ALUMINUM                                | 8.0 Kg                                                                       |

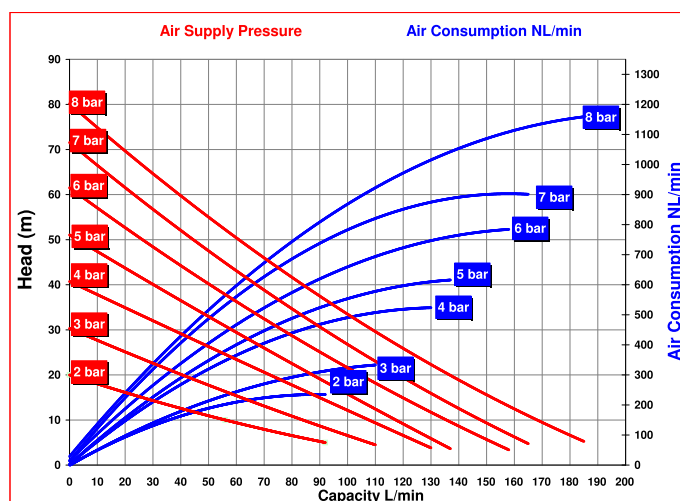
## Ruby 125



### Performances Rubber Fitted



### Performances PTFE+A Fitted



\* The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C and vary according to the construction material.

# Ruby 126

Construction materials: **PP, PP+CF, PVDF+CF**



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  
Zone M2 I M2 Ex h I Mb

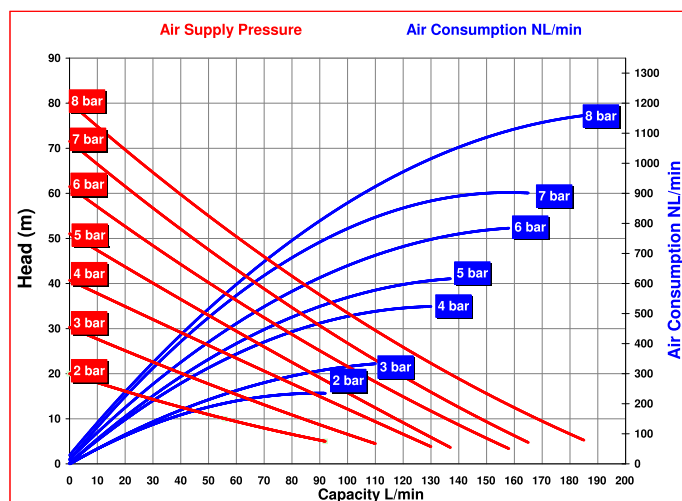
## Technical data

|                                                |                           |
|------------------------------------------------|---------------------------|
| Suction / Discharge connections                | 1" Flange DN 25 / ANSI 25 |
| 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                     | PP: 60°C , PVDF: 95°C     |
| Weight PP                                      | 7.0 Kg                    |
| Weight PVDF+CF                                 | 8.0 Kg                    |

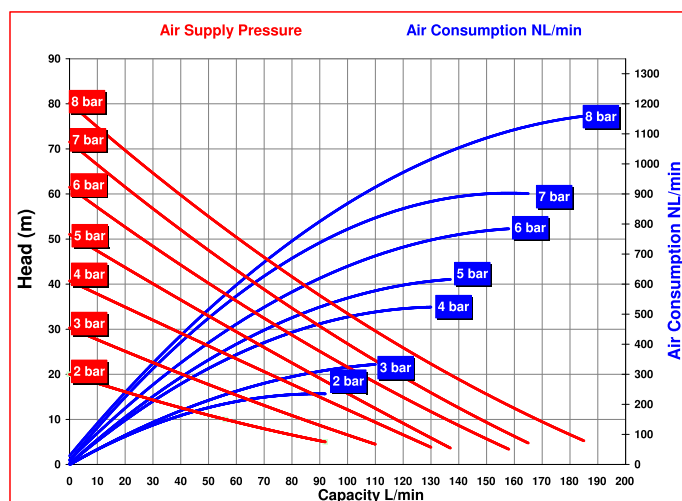
## Ruby 126



## Performances Rubber Fitted



## Performances PTFE+A Fitted



\* The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C and vary according the construction material.

# Ruby 140

Construction materials: PP, PP+CF, PVDF+CF, AISI 316, ALUMINUM



Zone 2 - Zone 22 II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc  
Zone 1 - Zone 21 II 2G Ex h IIC T4 Gb - II 2D Ex h IIIC T135°C Db  
Zone M2 I M2 Ex h I Mb

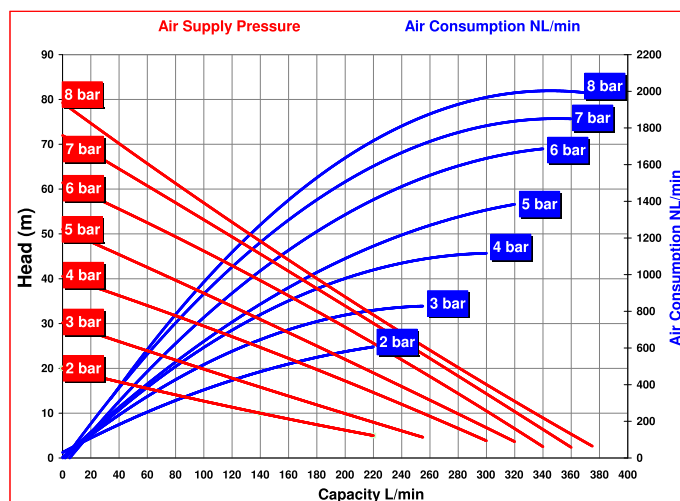
## Technical data

|                                                |                                                                              |
|------------------------------------------------|------------------------------------------------------------------------------|
| Suction / Discharge connections                | 1 1/2" BSP F                                                                 |
| Air connection                                 | 1/2" BSP F                                                                   |
| *Max. flow rate                                | 380 L/min                                                                    |
| *Max. self-priming capacity - dry running      | 5 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                            | 5 mm                                                                         |
| Max. operating Temperature                     | PP: 60°C , PVDF - AISI 316 - ALUMINUM: 95°C , w/metallic center block: 130°C |
| Weight PP                                      | 14.0 Kg                                                                      |
| Weight PVDF+CF                                 | 22.0 Kg                                                                      |
| Weight AISI 316                                | 26.0 Kg                                                                      |
| Weight ALUMINUM                                | 14.0 Kg                                                                      |

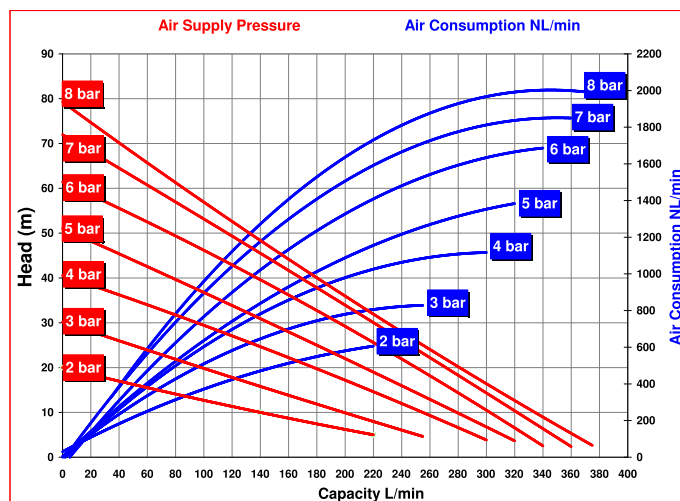
## Ruby 140



### Performances Rubber Fitted



### Performances PTFE+A Fitted



\* The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C and vary according the construction material.

# Ruby 141

Construction materials: **PP, PP+CF, PVDF+CF**



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  
Zone M2 I M2 Ex h I Mb

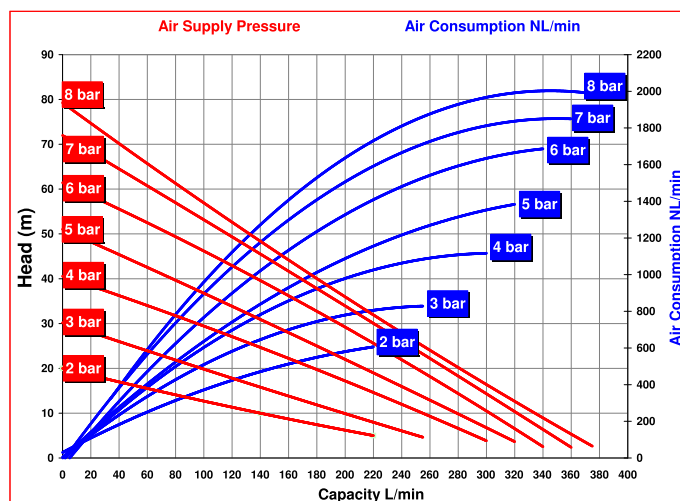
## Technical data

|                                                |                               |
|------------------------------------------------|-------------------------------|
| Suction / Discharge connections                | 1 1/2" Flange DN 40 / ANSI 40 |
| Air connection                                 | 1/2" BSP F                    |
| *Max. flow rate                                | 380 L/min                     |
| *Max. self-priming capacity - dry running      | 5 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                            | 5 mm                          |
| Max. operating Temperature                     | PP: 60°C , PVDF: 95°C         |
| Weight PP                                      | 14.0 Kg                       |
| Weight PVDF+CF                                 | 22.0 Kg                       |

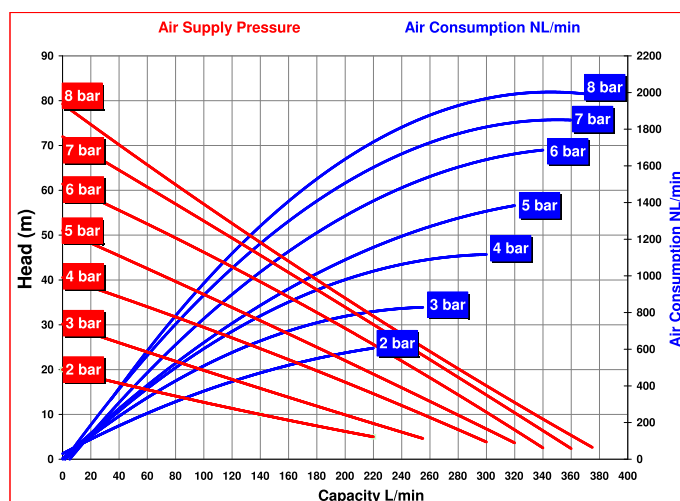
## Ruby 141



## Performances Rubber Fitted



## Performances PTFE+A Fitted



\* The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C and vary according the construction material.

# Ruby 150

Construction materials: **AISI 316, ALUMINUM**



Zone 2 - Zone 22 II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc  
Zone 1 - Zone 21 II 2G Ex h IIC T4 Gb - II 2D Ex h IIIC T135°C Db  
Zone M2 I M2 Ex h I Mb

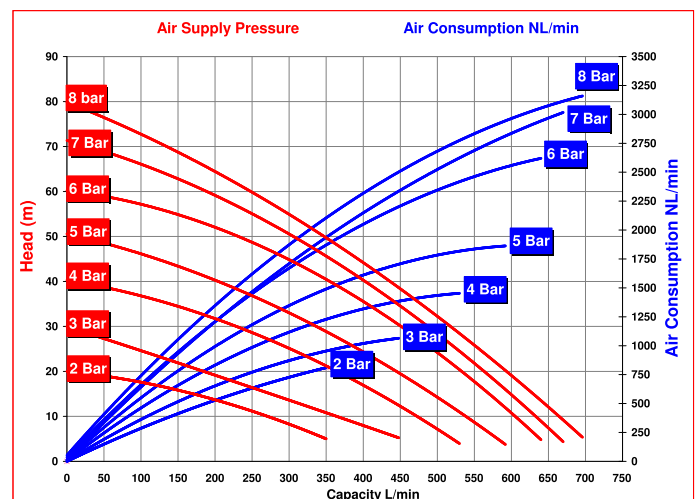
## Technical data

|                                                |                                                            |
|------------------------------------------------|------------------------------------------------------------|
| Suction / Discharge connections                | 2" BSP F                                                   |
| Air connection                                 | 3/4" BSP F                                                 |
| *Max. flow rate                                | 696 L/min                                                  |
| *Max. self-priming capacity - dry running      | 5 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                            | 8 mm                                                       |
| Max. operating Temperature                     | AISI 316 - ALUMINUM: 95°C , w/metallic center block: 130°C |
| Weight AISI 316                                | 64.0 Kg                                                    |
| Weight ALUMINUM                                | 35.0 Kg                                                    |

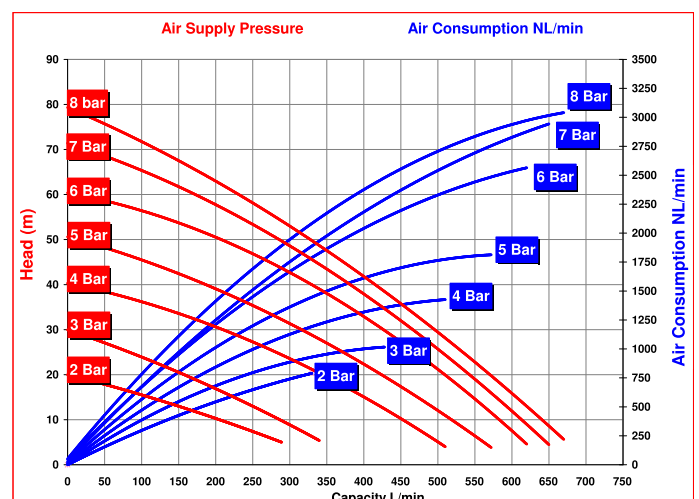
## Ruby 150



### Performances Rubber Fitted



### Performances PTFE+A Fitted



\* The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C and vary according the construction material.

# Ruby 151

Construction materials: **PP, PP+CF, PVDF+CF**



Zone 2 - Zone 22 II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc  
Zone 1 - Zone 21 II 2G Ex h IIC T4 Gb - II 2D Ex h IIIC T135°C Db  
Zone M2 I M2 Ex h I Mb

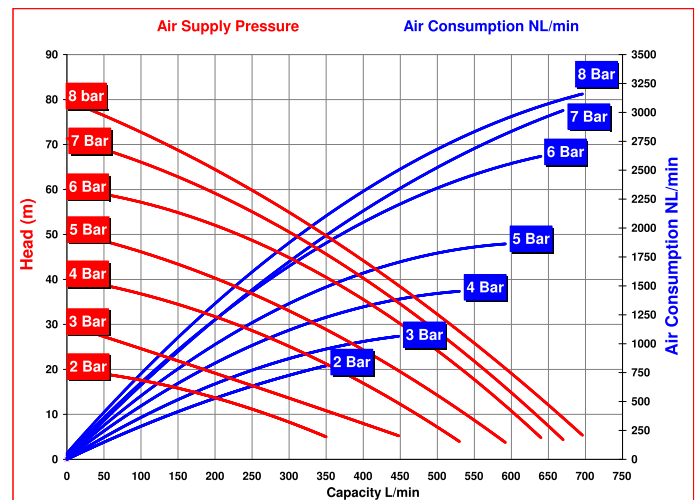
## Technical data

|                                                |                         |
|------------------------------------------------|-------------------------|
| Suction / Discharge connections                | 2" BSP F                |
| Air connection                                 | 3/4" BSP F              |
| *Max. flow rate                                | 696 L/min               |
| *Max. self-priming capacity - dry running      | 5 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                            | 8 mm                    |
| Max. operating Temperature                     | PP: 60°C , PVDF: 95°C   |
| Weight PP                                      | 40.0 Kg                 |
| Weight PVDF+CF                                 | 48.0 Kg                 |

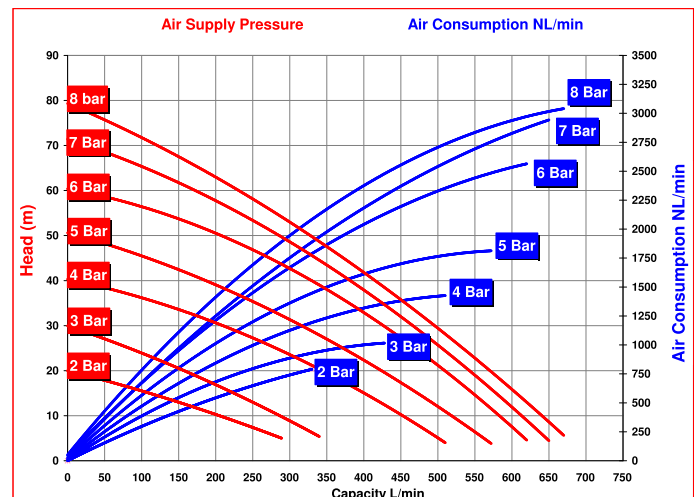
## Ruby 151



## Performances Rubber Fitted



## Performances PTFE+A Fitted



\* The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C and vary according the construction material.



# Ruby 081

Construction materials: **PP, PP+CF, PVDF+CF**



Zone 2 - Zone 22  
 Zone 1 - Zone 21  
 Zone M2

II 3G Ex h IIB T4 Gc - II 3D Ex h IIB T135°C Dc  
 II 2G Ex h IIC T4 Gb - II 2D Ex h IIC T135°C Db  
 I M2 Ex h I Mb

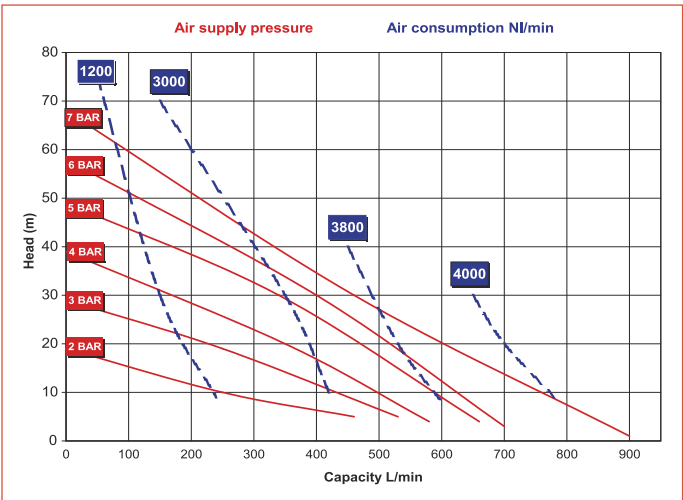
## Technical data

|                                                |                         |
|------------------------------------------------|-------------------------|
| Suction / Discharge connections                | 3" BSP F                |
| Air connection                                 | 3/4" BSP F              |
| *Max. flow rate                                | 900 L/min               |
| *Max. self-priming capacity - dry running      | 4 m                     |
| *Max. negative suction head - with pump primed | 9.5 m                   |
| Max. head                                      | 70 m                    |
| Max. operating pressure                        | Min. 2 bar - Max. 7 bar |
| Max. size of solids                            | 10 mm                   |
| Max. operating Temperature                     | PP: 60°C , PVDF: 95°C   |
| Weight PP                                      | 50.0 Kg                 |
| Weight PVDF+CF                                 | 67.0 Kg                 |

## Ruby 081



Performances Ruby 081



\* The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C and vary according the construction material.

# Ruby 180

Construction materials: **AISI 316, ALUMINUM**



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  
Zone M2 I M2 Ex h I Mb

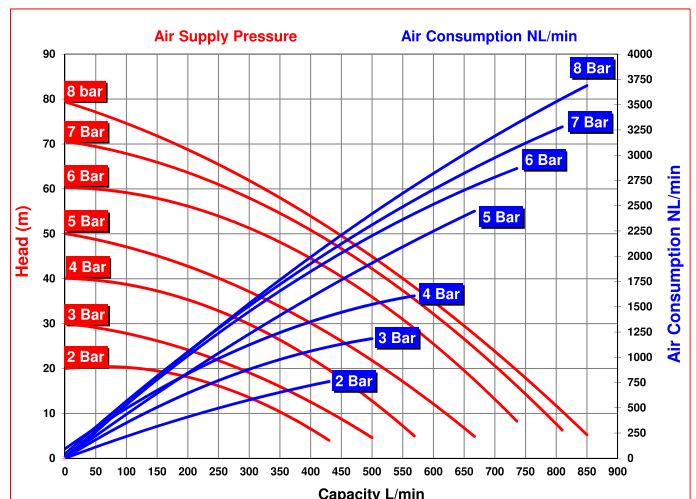
## Technical data

|                                                |                                                            |
|------------------------------------------------|------------------------------------------------------------|
| Suction / Discharge connections                | 3" BSP F                                                   |
| Air connection                                 | 3/4" BSP F                                                 |
| *Max. flow rate                                | 850 L/min                                                  |
| *Max. self-priming capacity - dry running      | 5 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                            | 8 mm                                                       |
| Max. operating Temperature                     | AISI 316 - ALUMINUM: 95°C , w/metallic center block: 130°C |
| Weight AISI 316                                | 88.0 Kg                                                    |
| Weight ALUMINUM                                | 50.0 Kg                                                    |

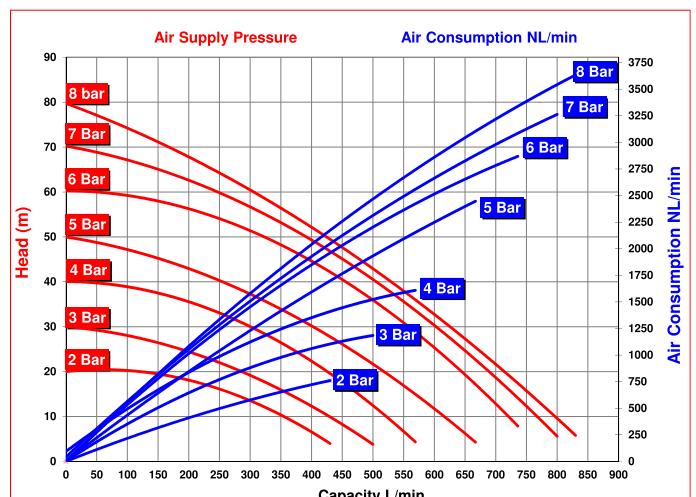
## Ruby 180



### Performances Rubber Fitted



### Performances PTFE+A Fitted



\* The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C and vary according to the construction material.



*We Make The Difference*

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2024.4/1000