

## Ruby 120

Construction materials: **ALUMINIUM**

New pump line with a brand new designing that offers reinforced pumping potentials. The updated designing provides even bigger performance provided with economy.



**EAC**



**II 2 GD c IIB T4**  
Baseefa15ATEX13DR



## Benefits

- Optimal performance
- Economical air consumption, ecological designing
- High efficiency for pressure/capacity
- Oil free operation
- No freezing
- New air valve designing, fully controled air passing
- Easy disassembling and re-assembling
- New generation diaphragms with embodied inner-outer piston
- New generation PTFE diaphragms of embodied type for long-life operation (compound)
- Advanced quality Full capacity PTFE-A diaphragms for high chemical and mechanical applications
- Potential to be submersible (on request)
- Possibility to be used in dirty environments due to their closed designing
- Easy manifold reverse
- Automatic suction

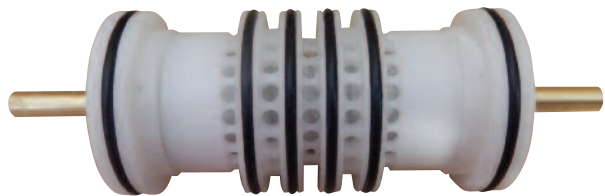
## Ruby 020 composition codes

Pump model	Body	Center block	Diaphragms	Valve Seats	Balls	O-ring	Other options
Ruby 120	A: Aluminium	PP: PP PC: PP+CF	N: NBR Conductive E: EPDM Conductive T: TFM+(EPDM Conductive) Z: TFM-A+(EPDM Conductive)	N: NBR E: EPDM P: PP V: PVDF A: Aluminium S: AISI 316 O: ACETAL	N: NBR E: EPDM T: PTFE S: AISI 316	N: NBR F: FKM T: PTFE F: FKM	D: Twin Manifold F: Flange PN 10/ANSI/315

### Ruby Innovative oil free air valve

The heart of the Ruby pump is our innovative, new design air valve. In respect for New Era demands, to create and offer High Quality product, with high interest for the environment and it's protection, the Air Valve of the Ruby Diaphragm Pumps has been created to offer:

- ✓ Oil free operation
- ✓ Low need for maintenance
- ✓ Not affected by minor contamination of compressed air
- ✓ Significant energy saving
- ✓ Non freezing operation
- ✓ External environment operation
- ✓ No dead centre
- ✓ Long life
- ✓ Reliability



### Advance unified diaphragms featuring:

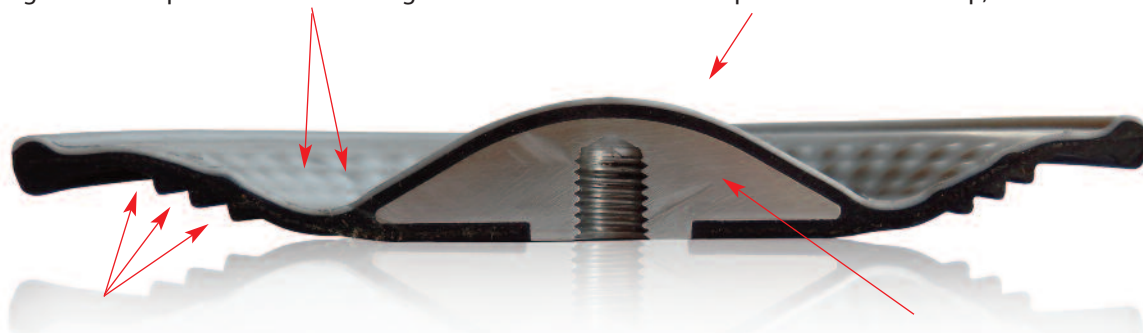
- ✓ Easy installation and maintenance
- ✓ Excellent service life
- ✓ Inventory cost reduction
- ✓ Improved performance
- ✓ Greater displacement per cycle
- ✓ No center hole, elimination of potential leak paths.
- ✓ There is no need for the main axis to be insured
- ✓ They can be screwed and unscrewed without the use of tools



## Advance Unified Diaphragm offers:

**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 your diaphragm in every movement

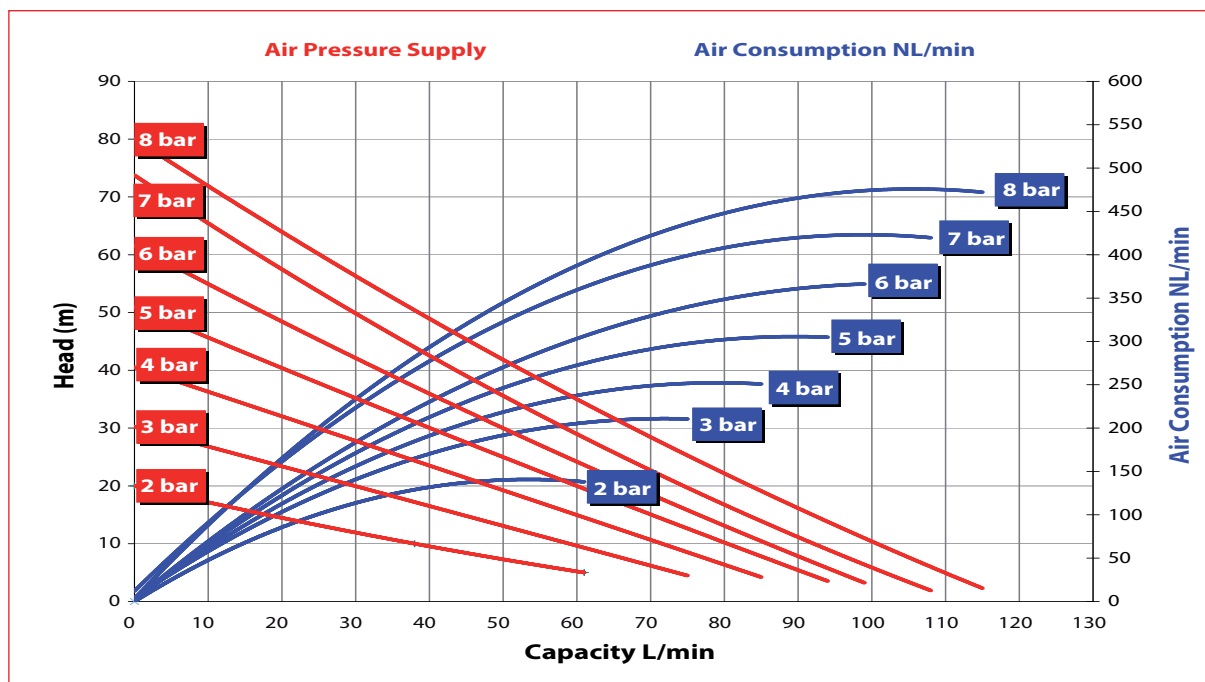
## Technical data

ATEX certification	II 2 GD c IIB T4 135°C
Construction materials	ALUMINIUM
Diaphragms	NBR Conductive EPDM Conductive Compound PTFE+Back up EPDM Conductive Compound PTFE A+Back up EPDM Conductive
Intake/delivery connections	3/4" BSP G -Flange on Request
Air connection	½ "
*Max. self-priming capacity	4 m
*Max. flow rate	117 l/min
Max. head	80 m
Max. air supply pressure	8 bar
Diameter	3,0 mm
Max. operating temp.	95°C
Weight	6,0 kg

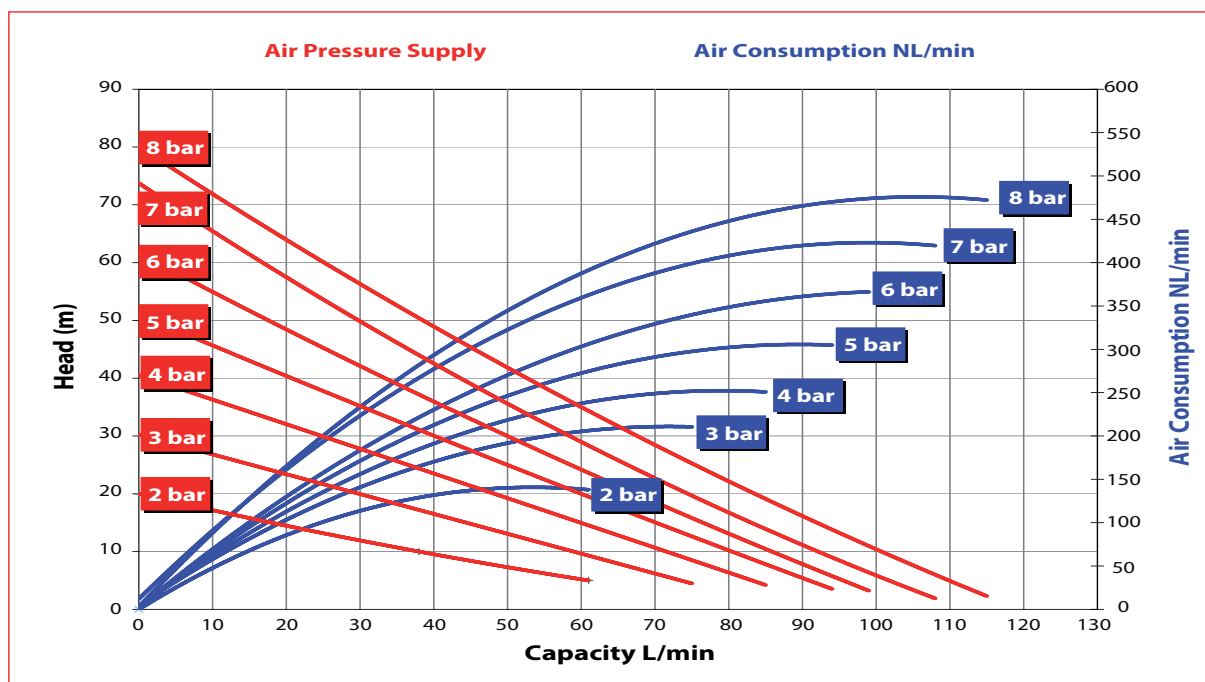
\* The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

## Performance

### RUBY 120 - FULL CAPACITY PTFE - A FITTED

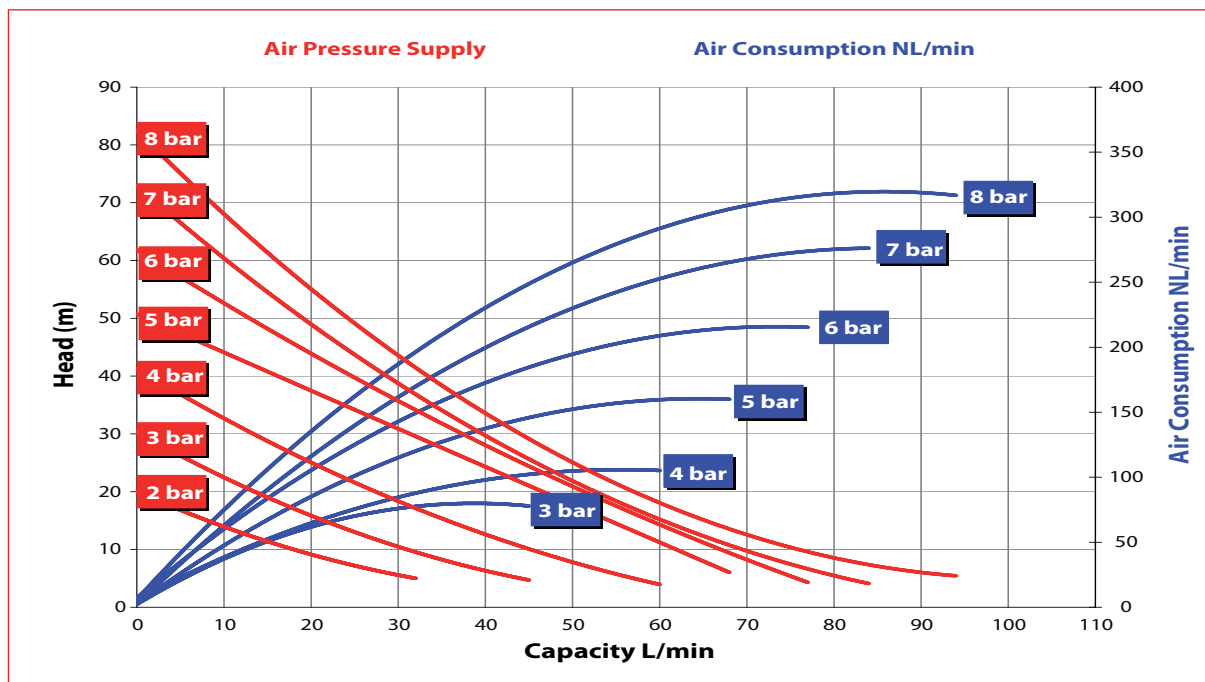


### RUBY 120 - RUBBER FITTED

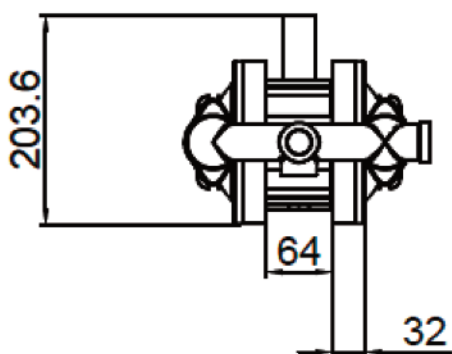
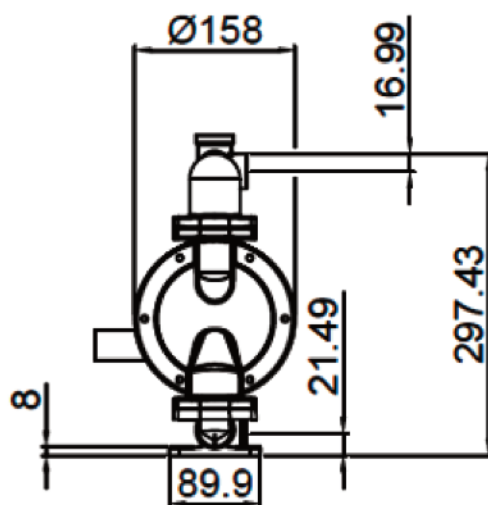
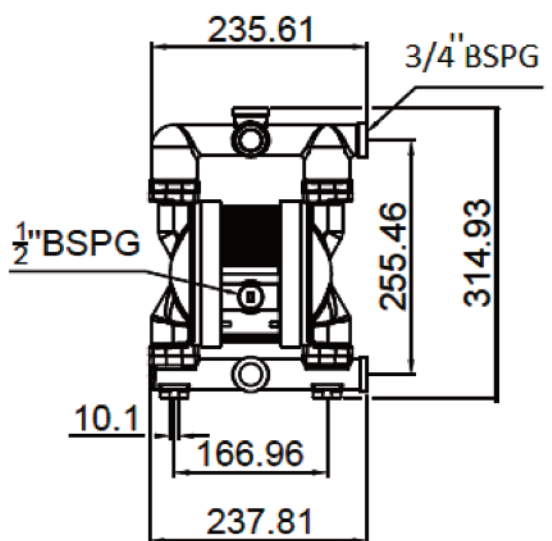


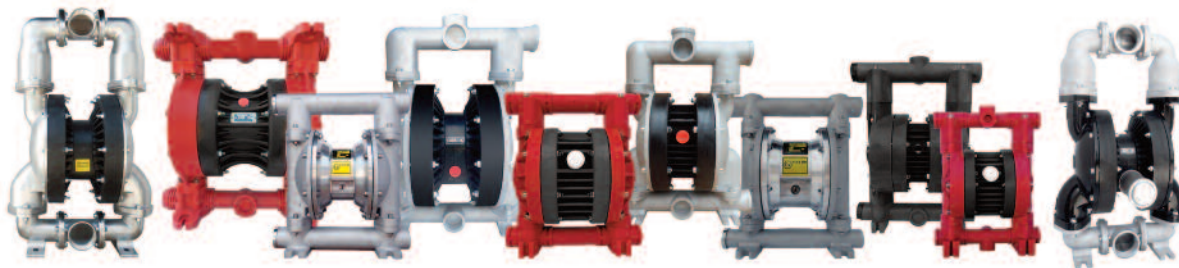
## Performance

### RUBY 120 - PTFE FITTED



## Dimensions Aluminium





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