



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

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



II 2/2 G/D Ex h IICT4 Gb/Db
I M2 Ex h Mb

5 YEARS
LIMITED
WARRANTY

Benefits

- Optimal performance
- Economical air consumption, ecological designing
- High efficiency for pressure/capacity
- Oil free operation
- No freezing
- New air valve designing, fully controlled 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
- Twin manifold option (two suction and two delivery)
- Excellent performance and value for money
- Ideal for abrasive, viscous, and shear sensitive media

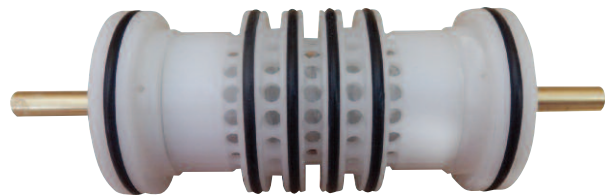
Ruby 140 composition codes

| Model | Pump Body | Center Section | Diaphragms | Ball Seats | Valve Ball | O-ring |
|-------------------|-------------------------------------|----------------------|---|---|---------------------------------|--|
| Ruby 140 - 1 1/2" | P : PP V : PVDF+CF PC : PP+CF | P : PP PC : PP+CF | N : NBR Conductive E : EPDM Conductive F : VITON Conductive T : PTFE+back up (EPDM Conductive) Z : PTFE A+back up (EPDM Conductive) | V : PVDF P : PP N : NBR E : EPDM | T : PTFE N : NBR E : EPDM | T : PTFE F : VITON E : EPDM N : NBR |

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:

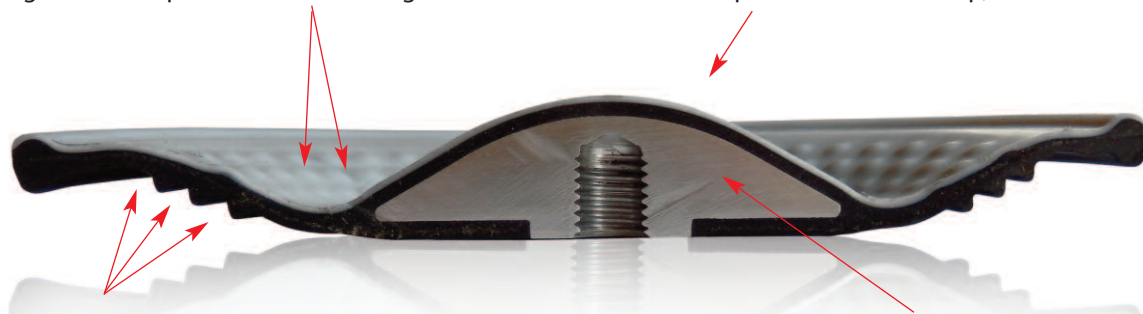
- ✓ Easy installation and maintenance
- ✓ Excellent service life
- ✓ Inventory cost reduction
- ✓ Improved performance
- ✓ Greater displacement per cycle
- ✓ No center hole, elimination of potential leak paths.
- ✓ There is no need for the main axis to be insured
- ✓ They can be screwed and unscrewed 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

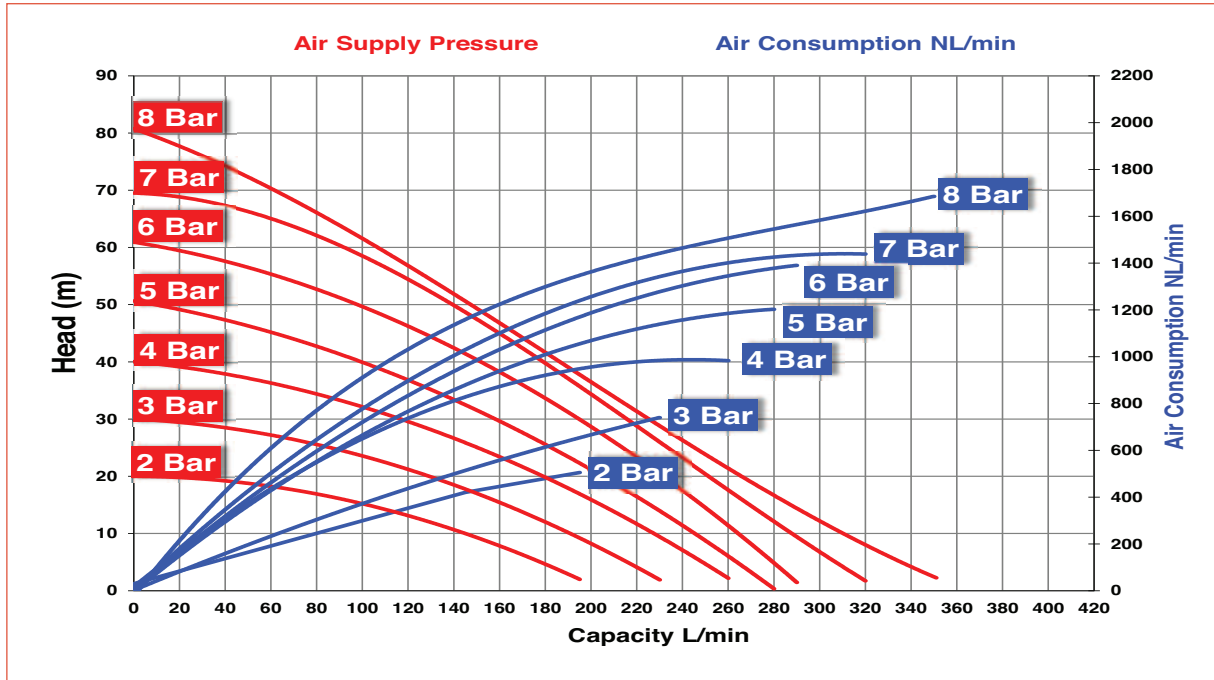
Technical data

| | |
|-----------------------------|---|
| ATEX Certificate | CE  STANDARD : II 3/3 G/D Ex h IIB T4 Gc/Dc CONDUCT : II 2/2 G/D Ex h IIC T4 Gb/Db – I M2 Ex h Mb |
| Construction materials | PP, PVDF+CF, PP+CF |
| Diaphragms | NBR Conductive EPDM Conductive Compound PTFE+Back up EPDM Conductive Compound PTFE A+Back up EPDM Conductive Viton conductive |
| Intake/delivery connections | 1 ½ " BSP F |
| Air connection | 1/2 " |
| * Max self-priming capacity | 4 m |
| * Max. flow rate | 380 l/min |
| Max. solid size (diameter) | 5mm |
| Max head | 80 m |
| Max air supply | 8Bar |
| Max operating Temperature | PP: 60°C PP+CF: 60°C PVDF: 95°C |
| Weight PP | 14 kg |
| Weight PVDF | 22 kg |

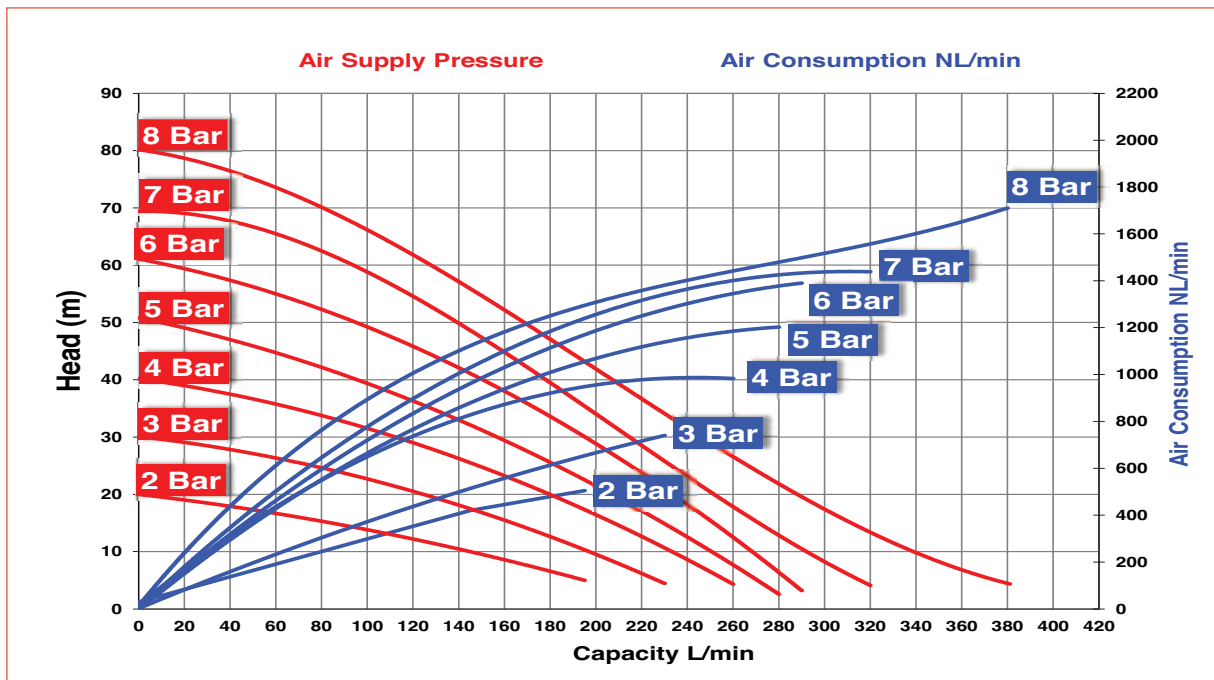
* The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

Performance

RUBY 140 - FULL CAPACITY PTFE - A FITTED

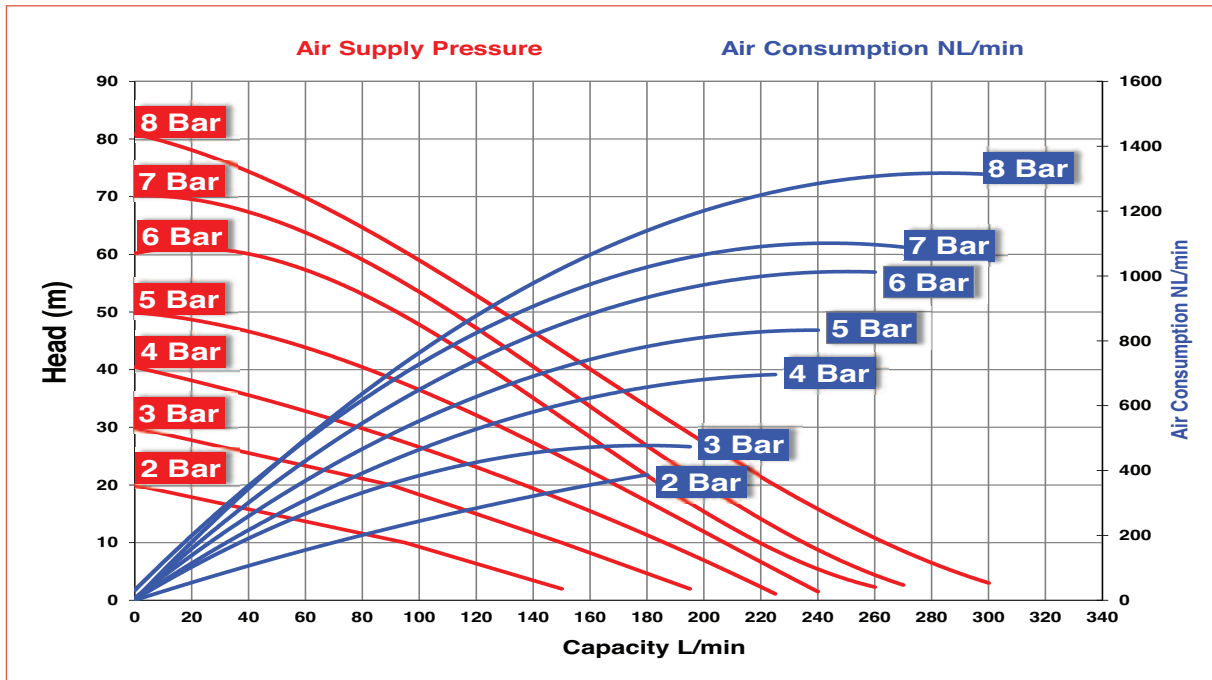


RUBY 140 - RUBBER FITTED

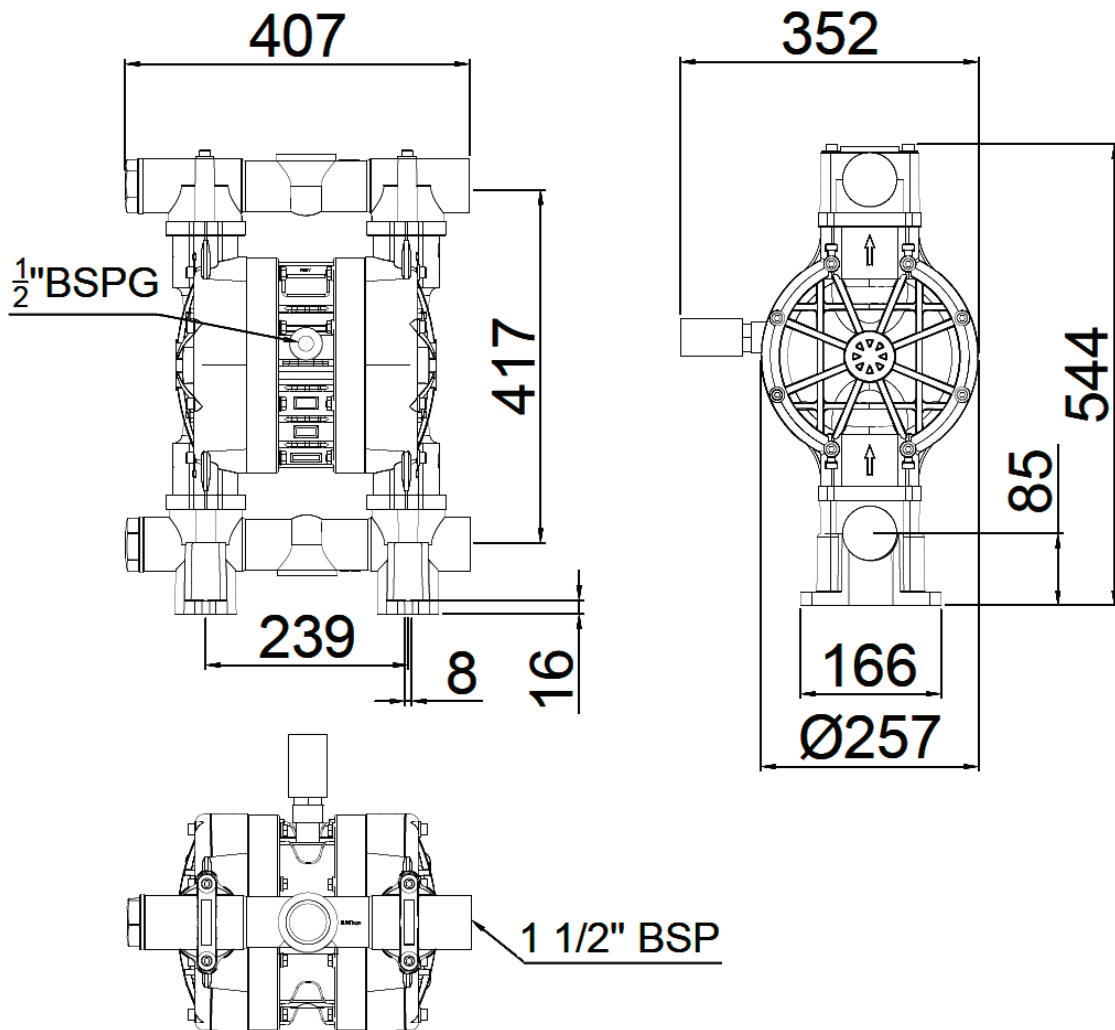


Performance

RUBY 140 - PTFE FITTED



Dimensions





We Make The Difference



Production Plant - Greece

Inofita Industrial area
59th km Nat.Road Athens- Lamia
GR 320 11 Inofita Viotia, Greece
Tel +30 215 215 9520 , +30 215 215 9580
Email: Sales@alphadynamic.eu
www.alphadynamic.eu

Sales Office – England

Rockleigh House, 37 Burton Road
Ashby de la Zouch , Leicestershire
LE65 2LF - United Kingdom (UK)
Registered in ENGLAND & WALES
Registration number 09706219
Tel +44 1213 680 324 , +44 1213 680472
Email: Sales@alphadynamic.eu
www.alphadynamic.eu