

Black Line **Air Operated Diaphragm Pumps**

Model 1-1/2"

Construction materials: PP Body, PP Center Section

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

with economy.



Features

- 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

BlackLine Nomenclature

Pump model	Pump Body	Center block	Diaphragms	Ball Seats	Balls	O-ring	Other Options
BlackLine 115	P:PP	P: PP	N: NBR Conductive	N: NBR	N: NBR	N: NBR	D: Twin Manifold
	PC: PP+CF	PC:PP+CF	E: EPDM Conductive	E: EPDM	E: EPDM	E: EPDM	F: Flange PN10/ANSI/JIS
	V : PVDF+CF		F: VITON Conductive	P: PP	T: PTFE	T: PTFE	
	A: ALUMINUM AL-233		T: Compound PTFE+EPDM Conductive	V: PVDF A: ALUMINUM S: AISI 316	S: SS 316	F: VITON	



BlackLine **Air Operated Diaphragm Pumps**

BlackLine oil free air valve

The heart of the BlackLine 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 BlackLine Diaphragm Pumps has been created to offer:

✓ Non freezing operation

✓ Low need for maintenance

Not affected by minor contamination of compressed air

Significant energy saving

Oil free operation

External environment operation

No dead centre

Long life

✓ Reliable



Advanced Melded Diaphragms Features

The heart of the BlackLine 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 BlackLine Diaphragm Pumps has been created to offer:

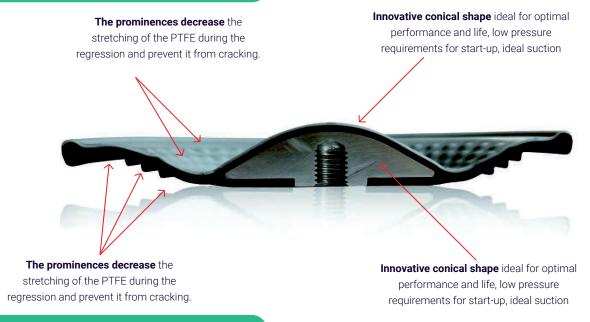
- Easy installation and maintenance
- ✓ Excellent service life
- ✓ Inventory cost reduction
- Greater displacement per cycle
- No center hole, elimination of potential leak paths.
- There is no need for the main axis to be insured
- They can be screwed and unscrewed without the use of tools





Black Line Air Operated Diaphragm Pumps

Advanced Melded Diaphragm Details



Advanced Melded Diaphragm Spec

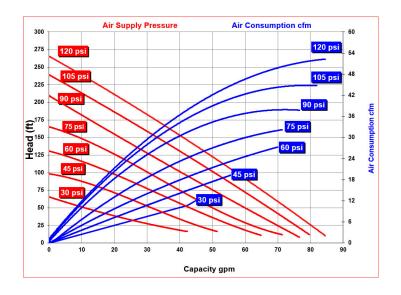
ATEX Certifications	STANDARD: II 3/3 G/D Ex h IIB T4 Gc/Dc CONDUCT: II 2/2 G/D Ex h IIC T4 Gb/Db - I M2 Ex h Mb		
Construction	PP-Body, PP-Center Section		
Material Diaphragms	T: Compound PTFE + Backup (EPDM Conductive)		
Intake/delivery connections	1-1/2" BSP with Type F Male PP Camlock adapter included		
Air connection	1-1/2" BSP with Type F Male PP Camlock adapter included		
*Max. flow rate	100 Gpm (380 Ltr/m)		
*Max. flow pressure	116 Psi (8 Bar)		
Operating pressure	Min 29 Psi (2 Bar) - Max 116 Psi (8 bar)		
Max. suction head (Dry)	16.4 Ft (5 Mtr)		
Max. size of solids	~3/16 ln (5.0 mm)		
Max. operating	PP 60°C, PP+CF 60°C		
Temperature	203°F (95°C)		
Weight PP , PP+CF	9 Lbs (4.0 Kg)		

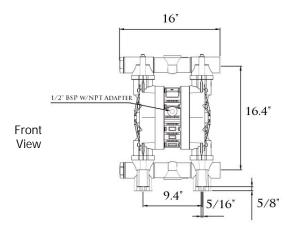
^{*} The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 68°F (20°C), and vary according to the construction material.



BlackLine **Air Operated Diaphragm Pumps**

Melded Diaphragm Performance





Side View

