



***BLAGDON  
PUMP®***

# **New Products**

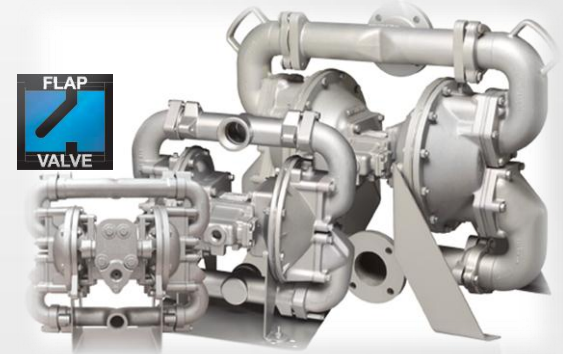
*- B75 Non-Metallic*

*- X25, X50, X75 Flap Valve*

# New Product Overview

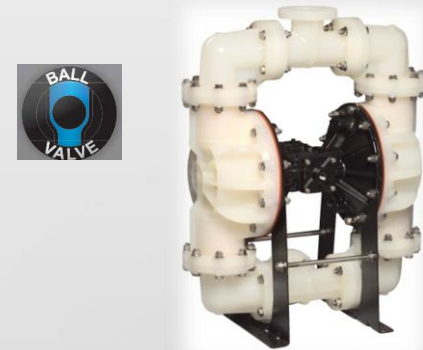
Solids handling flap valve pump units

- X25 Metallic 25mm (1")
- X50 Metallic 50mm (2")
- X75 Metallic 76mm (3")



High flow non-metallic ball valve pump

- B75 Non-metallic 76mm (3")



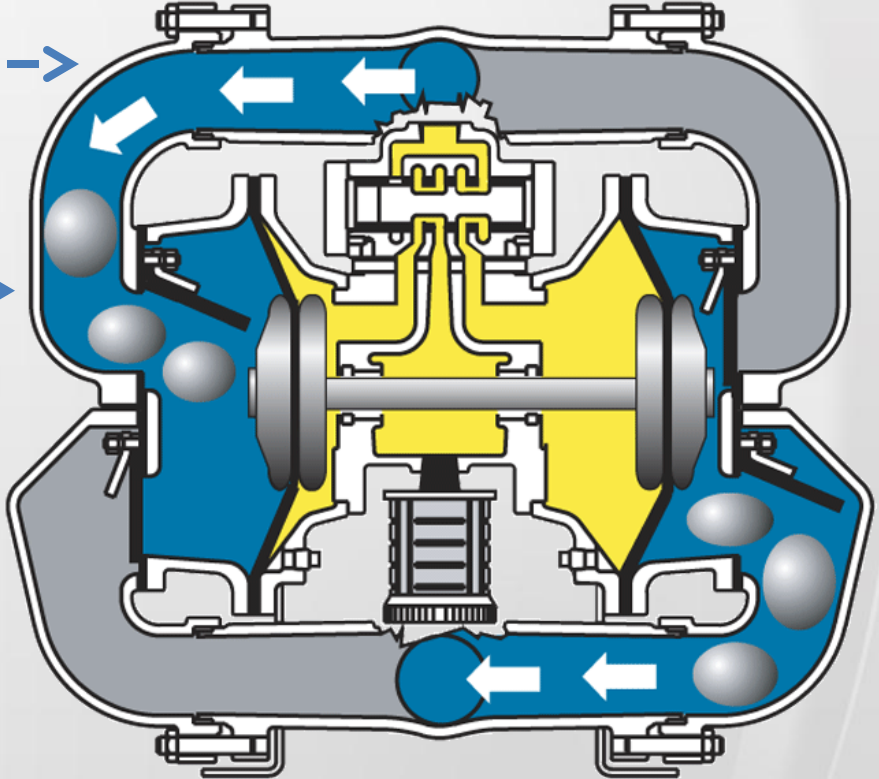
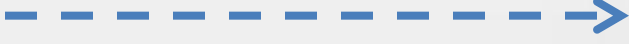


# X25, X50, X75 Flap Valve Pump Principles of Operation

Top suction



Flap Check Valves



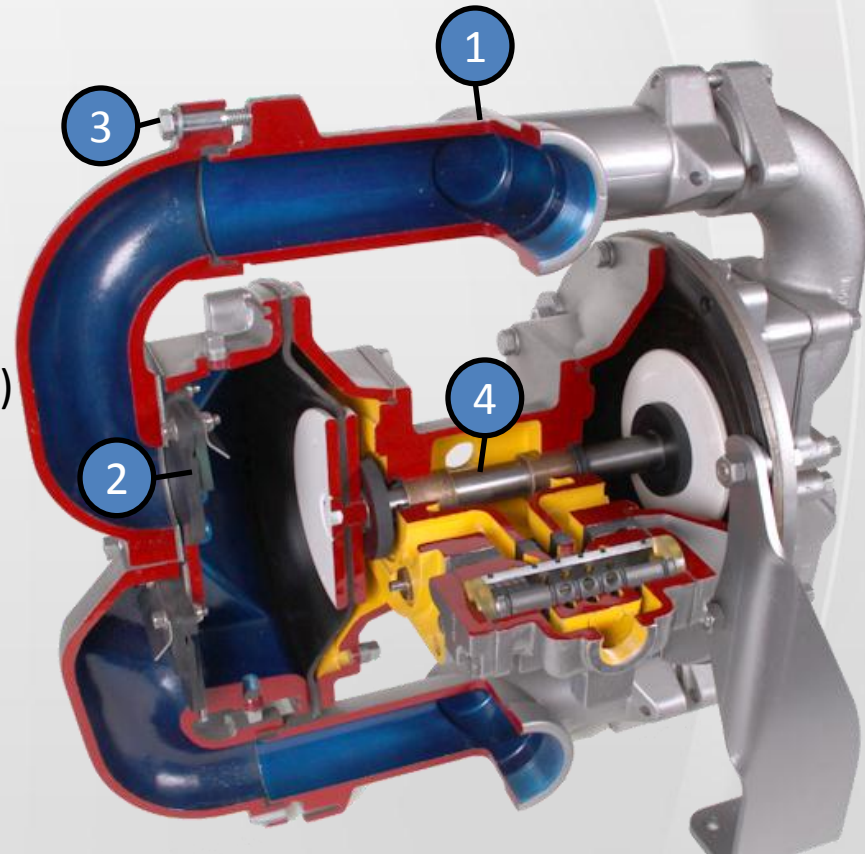
Key: Air Fluid





# Flap Valve – Features and Benefits

- 1 Top suction bottom discharge  
(Gravity assistance / Settling solids)
- 2 Robust flap valves  
(Large solids passage, Excellent suction lift)
- 3 Bolted construction (Rugged leak-free design)
- 4 Rugged main shaft (No breakage guarantee)
- 5 ATEX EC Type Certified  
(Safe / no barriers to market)

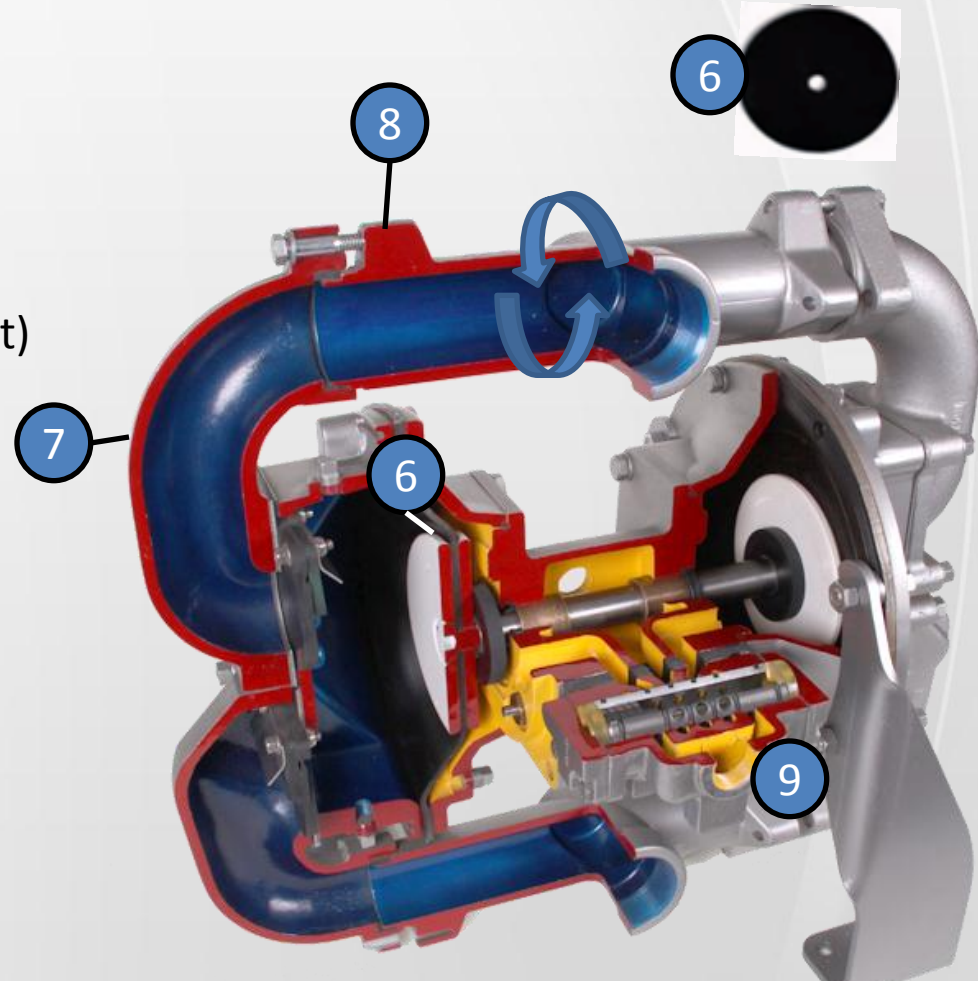






# Flap Valve – Features and Benefits

- 6 Wear pads (Extended diaphragm life)
- 7 Thick walled castings (Abrasion resistant)
- 8 90 – 180 Degree manifold rotation (Installation flexibility for X25 & X50)
- 9 Externally serviceable air valve (Ease of maintenance and reliability)



# Flap Valve Pump Specifications

## - X25 25mm (1")



### Technical Data

#### METALLIC SERIES X25

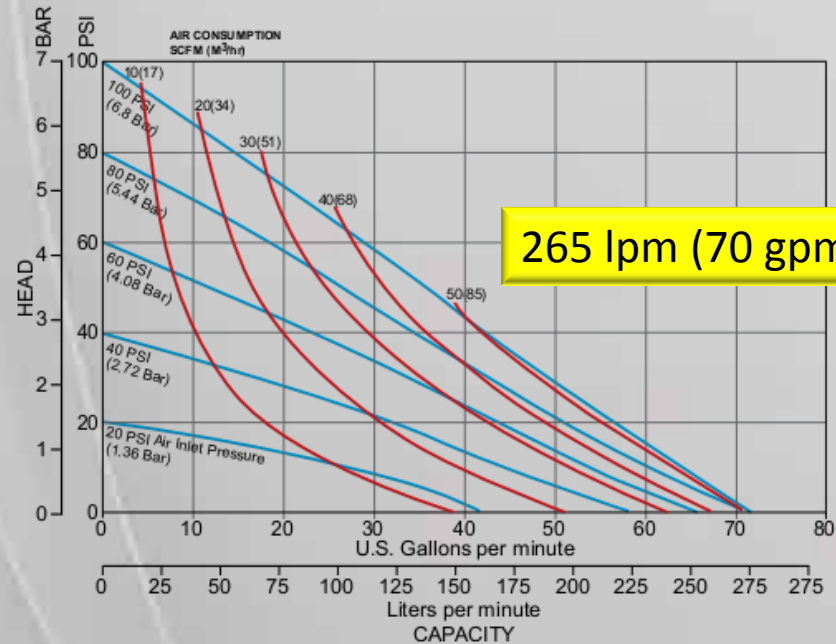
Maximum Delivery:	265 ltrs/min (70 gal/min)
Max. Working Pressure:	8.6 bar (125 PSI)
Max. Solid Particle Size:	25 mm. (0.98")
Air Inlet:	1/2" NPT
Temperature Limits:	Determined by Elastomers
Suction Lift (Dry):	5.8 m. (19')
Fluid Inlet/Outlet:	1" BSP Tapered / NPT
Installation:	Surface mounted
Accessories Included:	Exhaust air Silencer

#### Shipping Weights:

Aluminium	21 kg. (46.3 lbs.)
Cast Iron	34 kg. (75 lbs.)
Stainless Steel	36 kg. (79.4 lbs.)

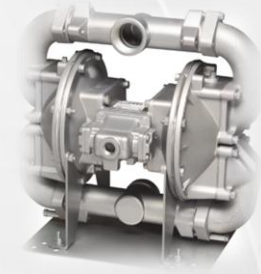
**Shipping Dimensions:** 381 x 457 x 482 mm.  
(15" x 18" x 19")

### Performance Curve



# Flap Valve Pump Specifications

## - X50 50mm (2")



### Technical Data

#### METALLIC SERIES X50

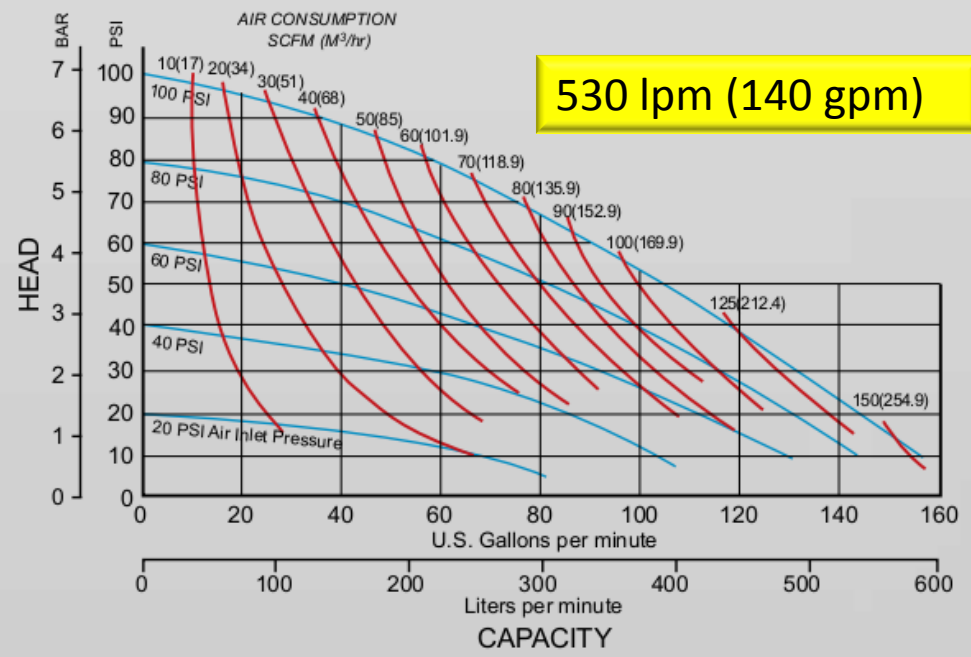
- Maximum Delivery: 530 ltrs/min (140 gal/min)
- Max. Working Pressure: 8.6 bar (125 PSI)
- Max. Solid Particle Size: 50 mm. (1.97")
- Air Inlet: 3/4" NPT
- Temperature Limits: Determined by Elastomers
- Suction Lift (Dry): 7.3 m. (24')
- Fluid Inlet/Outlet: 2" NPT
- Installation: Surface mounted
- Accessories Included: Exhaust air Silencer

#### Shipping Weights:

- Aluminium 39 kg. (86 lbs.)
- Cast Iron 76 kg. (167.6 lbs.)
- Stainless Steel 76 kg. (167.6 lbs.)

**Shipping Dimensions:** 406 x 584 x 584 mm.  
(16" x 23" x 23")

### Performance Curve



# Flap Valve Pump Specifications

## - X75 76mm (3")



### Technical Data

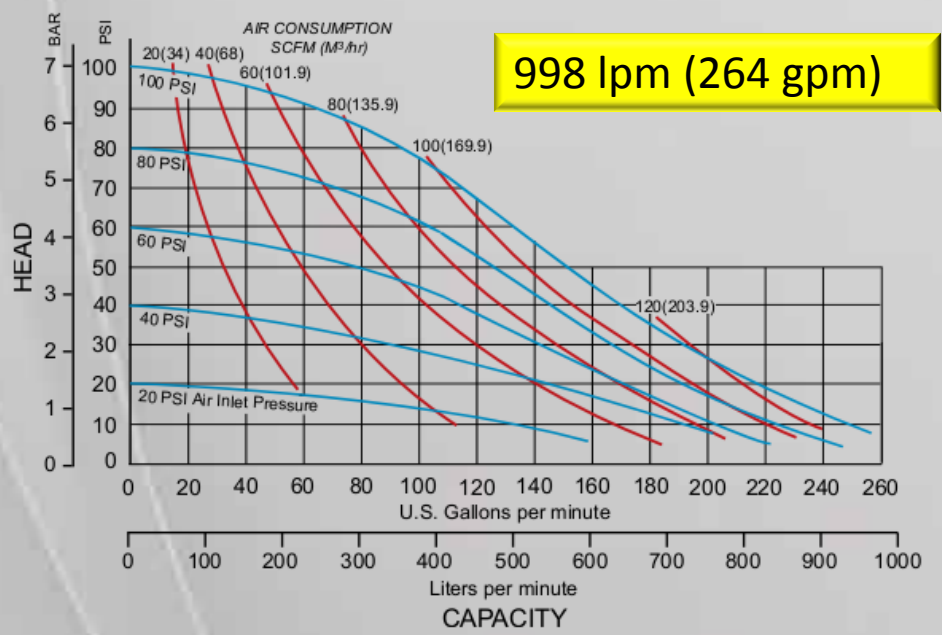
#### METALLIC SERIES X75

- Maximum Delivery: 998 ltrs/min (264 gal/min)
- Max. Working Pressure: 8.6 bar (125 PSI)
- Max. Solid Particle Size: 75 mm. (3")
- Air Inlet: 1/2" NPT
- Temperature Limits: Determined by Elastomers
- Suction Lift (Dry): 5.5 m. (18')
- Fluid Inlet/Outlet: 3" ANSI Flange
- Installation: Surface mounted
- Accessories Included: Exhaust air Silencer

- Shipping Weights:**
- Aluminium 92 kg. (202.8 lbs.)

- Shipping Dimensions:** 533 x 965 x 939 mm.  
(21" x 38" x 37")

### Performance Curve





# Flap Valve Applications

## CHARACTERISTICS CHART:

		Heavy Duty Flap Bottom Discharge	
Fluid Characteristics	Water (base reference)	A	
	Suspended Solids	B	
	Non-Suspended Solids	A (bottom discharge porting)	
	Line Size Solids	A	
	Sludge / Slurry	A (bottom discharge porting)	
	High Viscosity (Flowable Fluids)	B	
	Erosion / Abrasive Fluids	High	A
		Moderate	A
Low		A	
Corrosion	B		
Installation	Permanent	A	
	Portable	A	
	Containment / Prevention	C	
	Flooded Suction	B	
	Suction Lift	A	
	Submerged	B	
Duty	Intermittent / On-Demand	A	
	Continuous	B	
A = Best Type B = Suitable		C = Caution (Limitations) X = Unsuitable	

Sump / Pit transfer

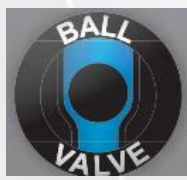


Mine dewatering



Rendering plants / remediation

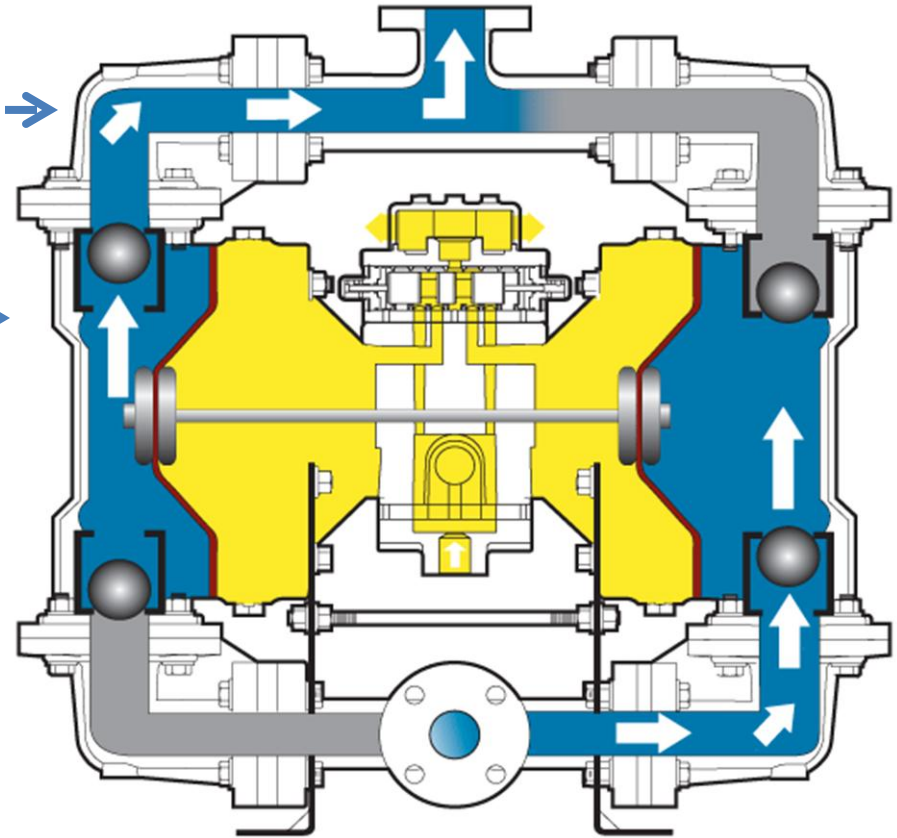




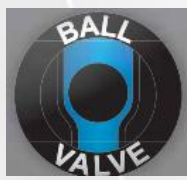
# B75 Non-Metallic Pump Principles of Operation

Standard Top Discharge

Typical Ball Valve Design

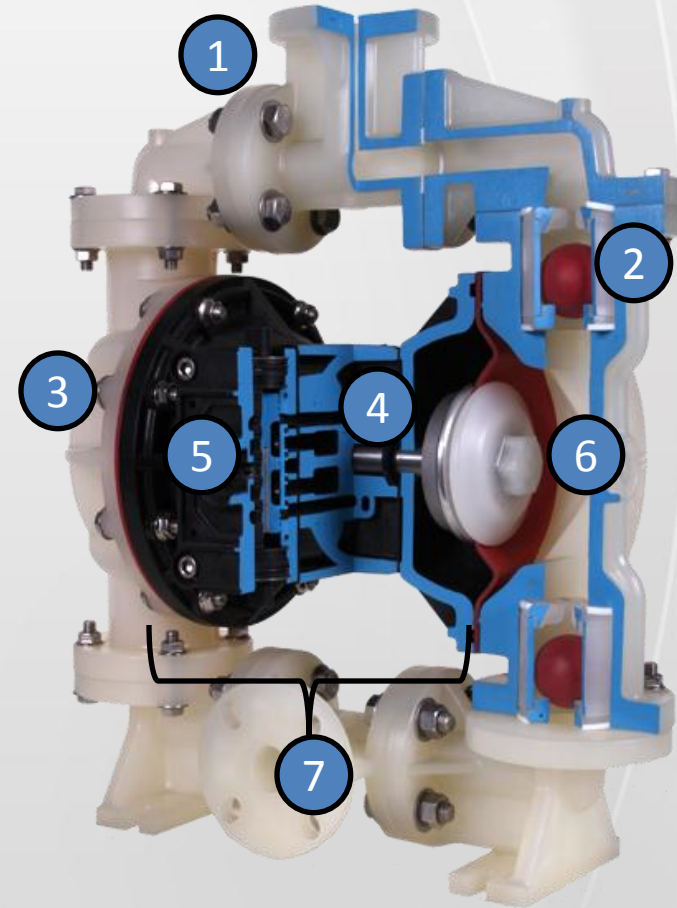


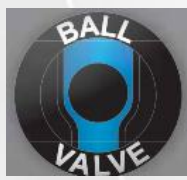
Key: Air Fluid



# B75 Ball Valve Features and Benefits

- 1 90 – 180 Degree manifold rotation
- 2 Replaceable ball cages (Low cost maintenance)
- 3 Bolted construction (Rugged leak-free design)
- 4 Rugged main shaft (No breakage guarantee)
- 5 Externally serviceable air valve (Ease of maintenance and reliability)
- 6 Robust flow through castings (excellent flow rates 901 lpm (238 gpm))
- 7 Epoxy coated air section standard (Chemical resistant)





# B75 Ball Valve Pump Specifications

## - B75 76mm (3")



### Technical Data

#### MOULDED NON-METALLIC SERIES B75 POLYPROPYLENE & PVDF

Maximum Delivery: 901 ltrs/min (238 gal/min)

Max. Working Pressure: 7 bar (102 PSI)

Max. Solid Particle Size: 18 mm. (0.71")

Air Inlet: 3/4" NPT

Temperature Limits: Determined by Elastomers

Suction Lift (Dry): 5.1 m. (16.8')

Fluid Inlet/Outlet: 3" ANSI Flange

Installation: Surface mounted

Accessories Included: Exhaust air Silencer

#### Shipping Weights:

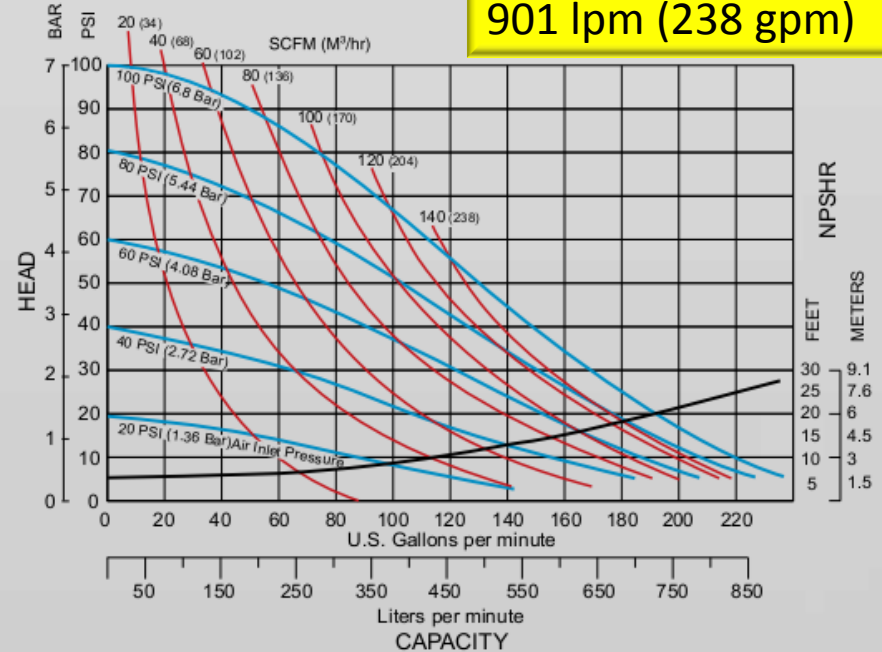
Polypropylene 105 kg. (231.5 lbs.)

PVDF 143 kg. (315.3 lbs.)

Shipping Dimensions: 558 x 965 x 1219 mm.  
(22" x 38" x 48")

### Performance Curve

901 lpm (238 gpm)





# B75 Non-Metallic Applications

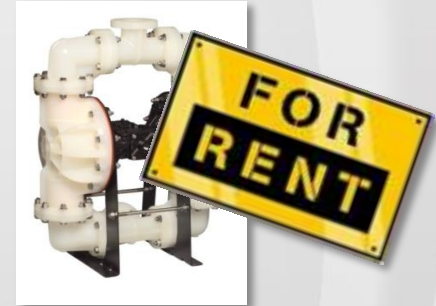
## CHARACTERISTICS CHART:

		Standard Duty Top Discharge		
		Metallic	Non-Metallic	
Fluid Characteristics	Water (base reference)	A	A	
	Suspended Solids	A	B	
	Non-Suspended Solids	C	X	
	Line Size Solids	X	X	
	Sludge / Slurry	B	C	
	High Viscosity (Flowable Fluids)	B	B	
	Erosion / Abrasive Fluids	High	B	C
		Moderate	B	C
Low		A	B	
Corrosion	B	A		
Installation	Permanent	B	B	
	Portable	A	A	
	Containment / Prevention	C	C	
	Flooded Suction	B	B	
	Suction Lift	B	B	
	Submerged	B	C	
Duty	Intermittent / On-Demand	A	A	
	Continuous	B	B	
A = Best Type		C = Caution (Limitations)		
B = Suitable		X = Unsuitable		

Chemical Transfer




Pump Rental Houses



Mine – Leaching Chemicals



# Please contact us with question.



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