



***BLAGDON
PUMP®***

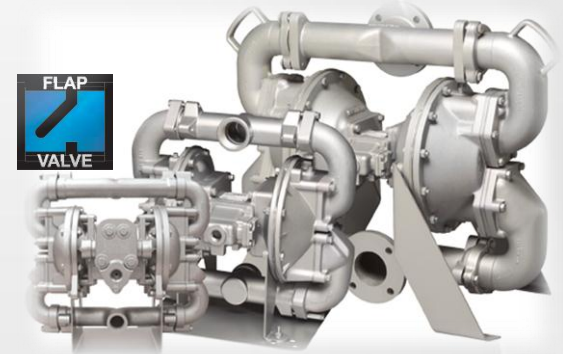
New Products

- B75 Non-Metallic*
- X25, X50, X75 Flap Valve*

New Product Overview

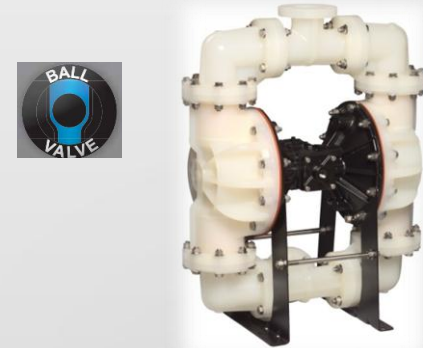
Solids handling flap valve pump units

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



High flow non-metallic ball valve pump

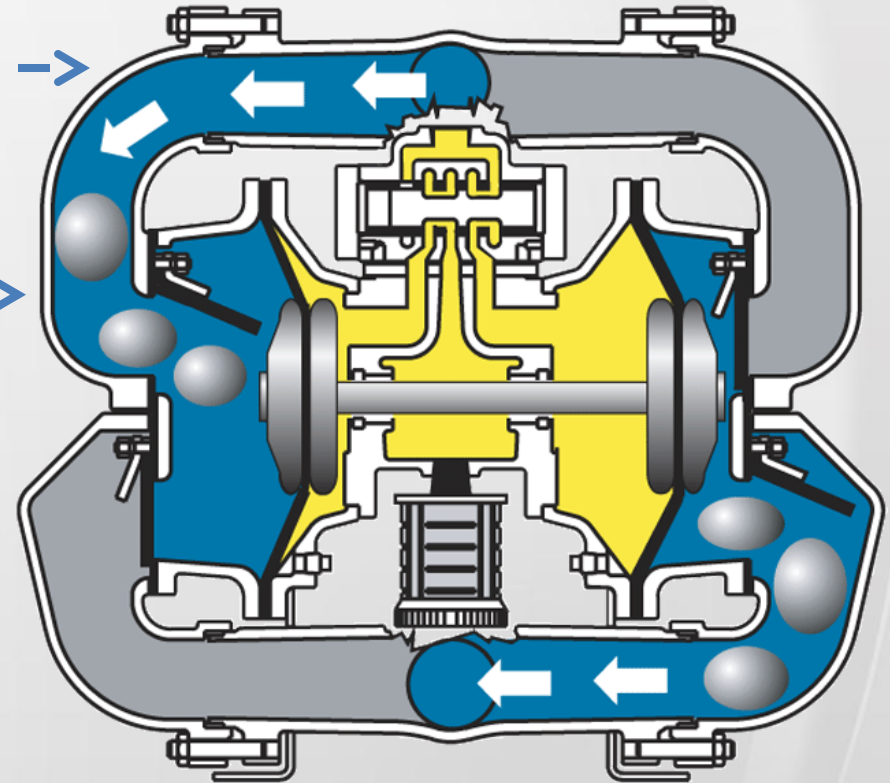
- B75 Non-metallic 76mm (3")



X25, X50, X75 Flap Valve Pump Principles of Operation

Top suction

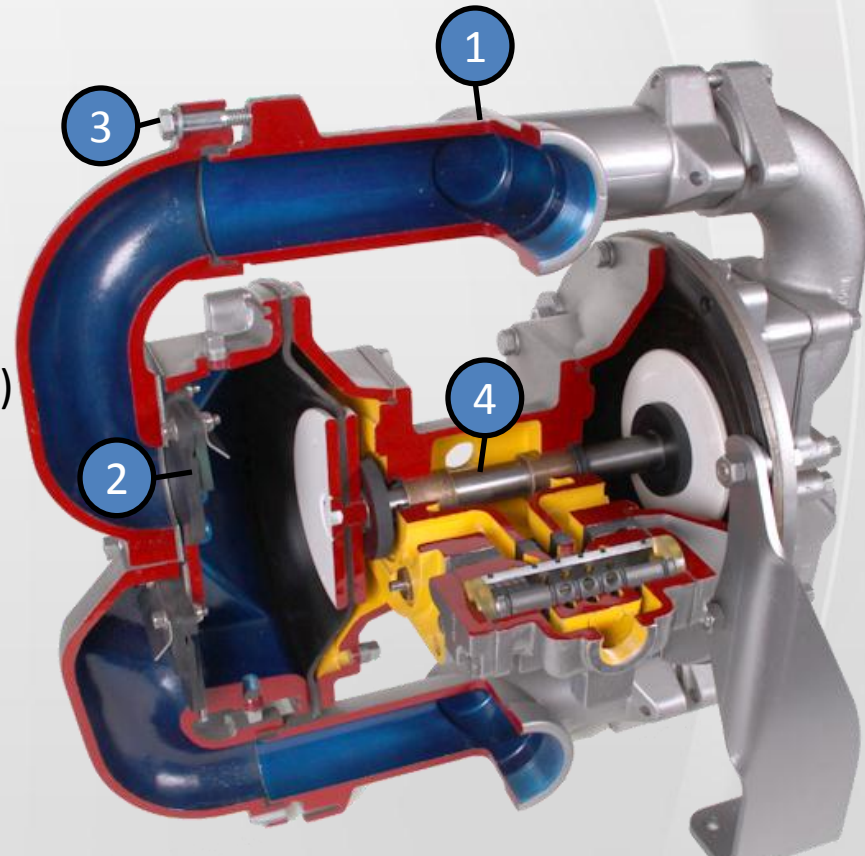
Flap Check
Valves



Key: Air Fluid

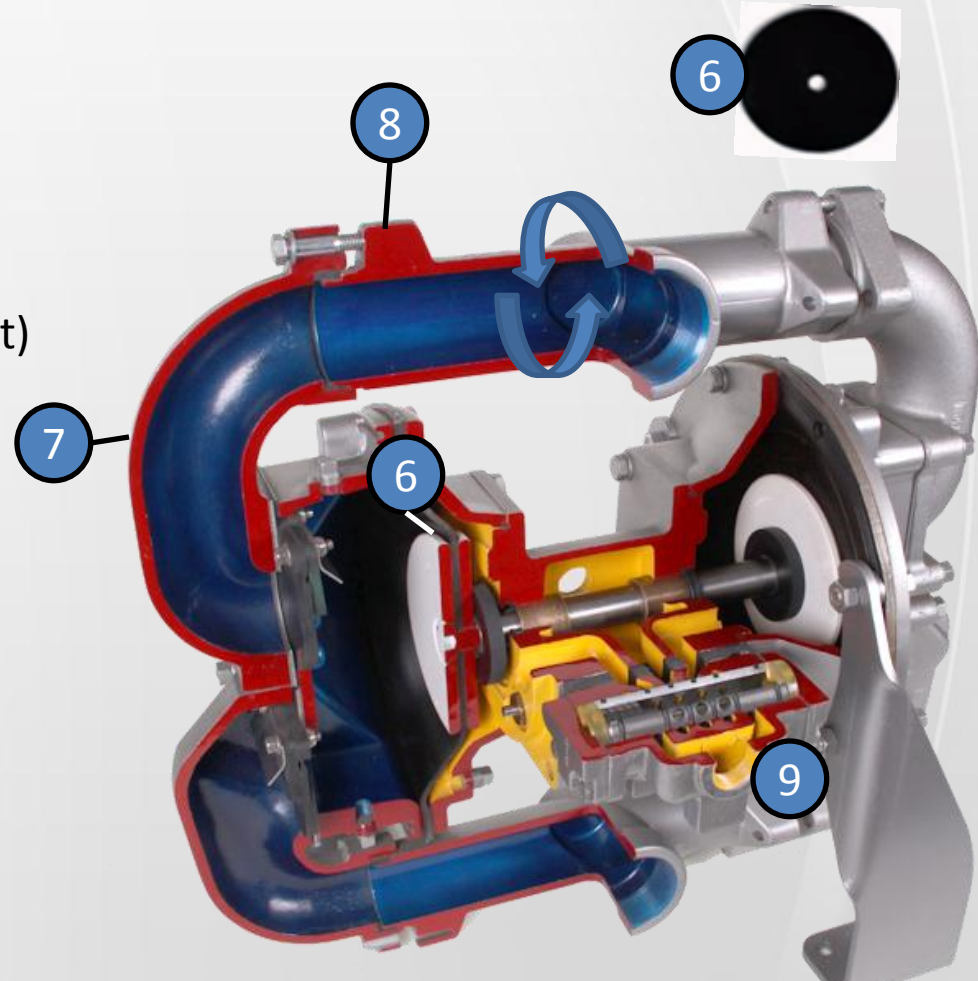
Flap Valve – Features and Benefits

- 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)



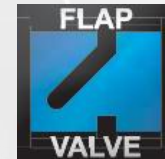
Flap Valve – Features and Benefits

- 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

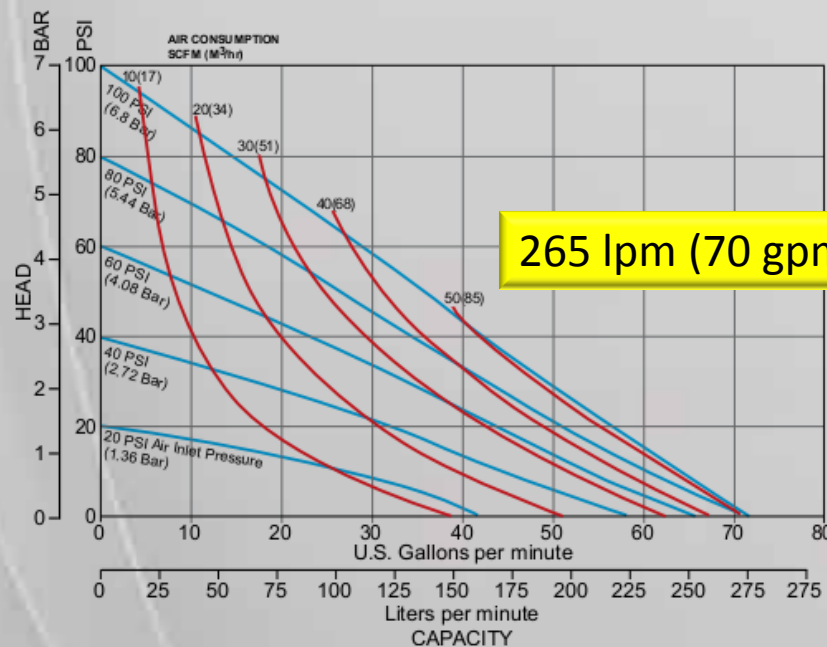
Maximum Delivery:	265 ltrs/min (70 gal/min)
Max. Working Pressure:	8.6 bar (125 PSI)
Max. Solid Particle Size:	25 mm. (0.98")
Air Inlet:	1/2" NPT
Temperature Limits:	Determined by Elastomers
Suction Lift (Dry):	5.8 m. (19')
Fluid Inlet/Outlet:	1" BSP Tapered / NPT
Installation:	Surface mounted
Accessories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

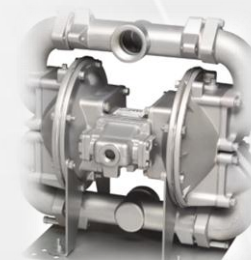
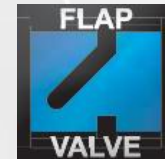
Shipping Dimensions: 381 x 457 x 482 mm.
(15" x 18" x 19")

Performance Curve



Flap Valve Pump Specifications

– X50 50mm (2")



Technical Data

METALLIC SERIES X50

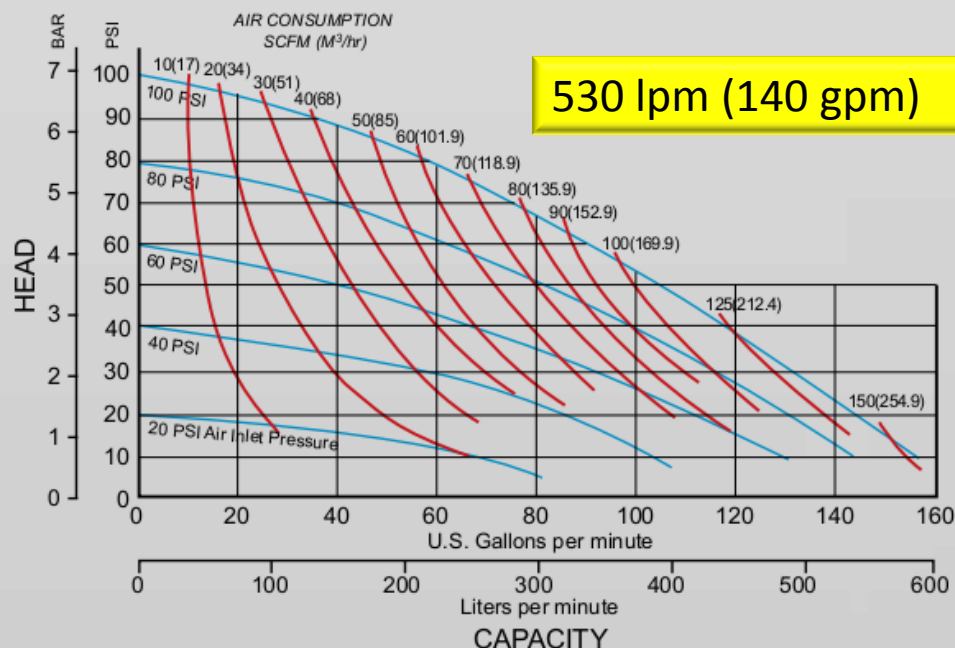
Maximum Delivery:	530 ltrs/min (140 gal/min)
Max. Working Pressure:	8.6 bar (125 PSI)
Max. Solid Particle Size:	50 mm. (1.97")
Air Inlet:	3/4" NPT
Temperature Limits:	Determined by Elastomers
Suction Lift (Dry):	7.3 m. (24')
Fluid Inlet/Outlet:	2" NPT
Installation:	Surface mounted
Accessories Included: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

Shipping Weights:

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

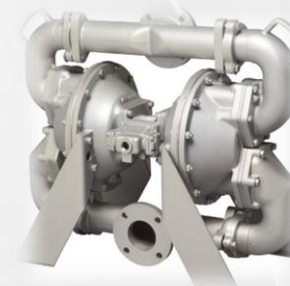
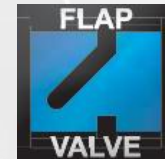
Shipping Dimensions: 406 x 584 x 584 mm.
(16" x 23" x 23")

Performance Curve



Flap Valve Pump Specifications

– X75 76mm (3")



Technical Data

METALLIC SERIES X75

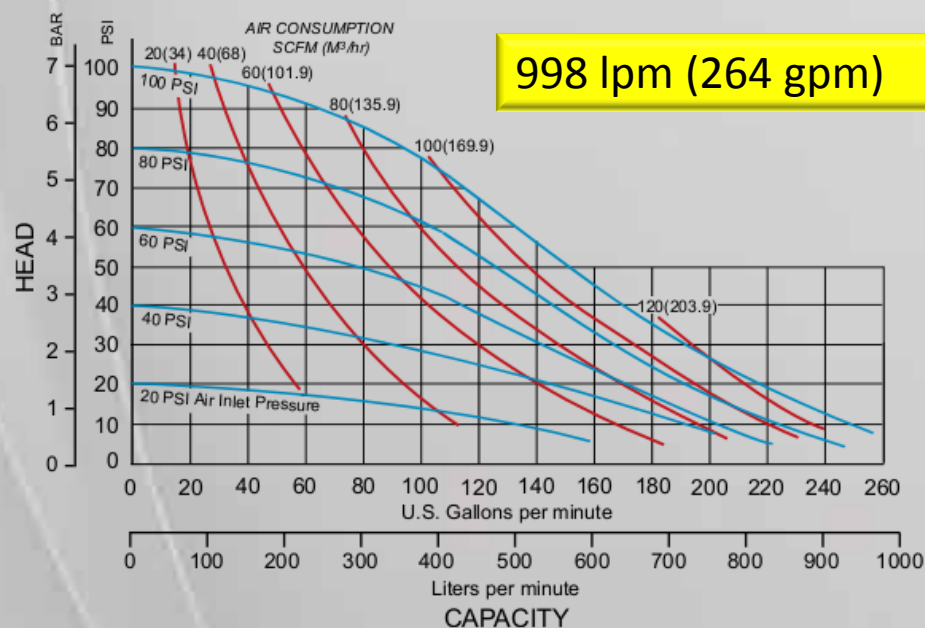
Maximum Delivery:	998 ltrs/min (264 gal/min)
Max. Working Pressure:	8.6 bar (125 PSI)
Max. Solid Particle Size:	75 mm. (3")
Air Inlet:	1/2" NPT
Temperature Limits:	Determined by Elastomers
Suction Lift (Dry):	5.5 m. (18')
Fluid Inlet/Outlet:	3" ANSI Flange
Installation:	Surface mounted
Accessories Included: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

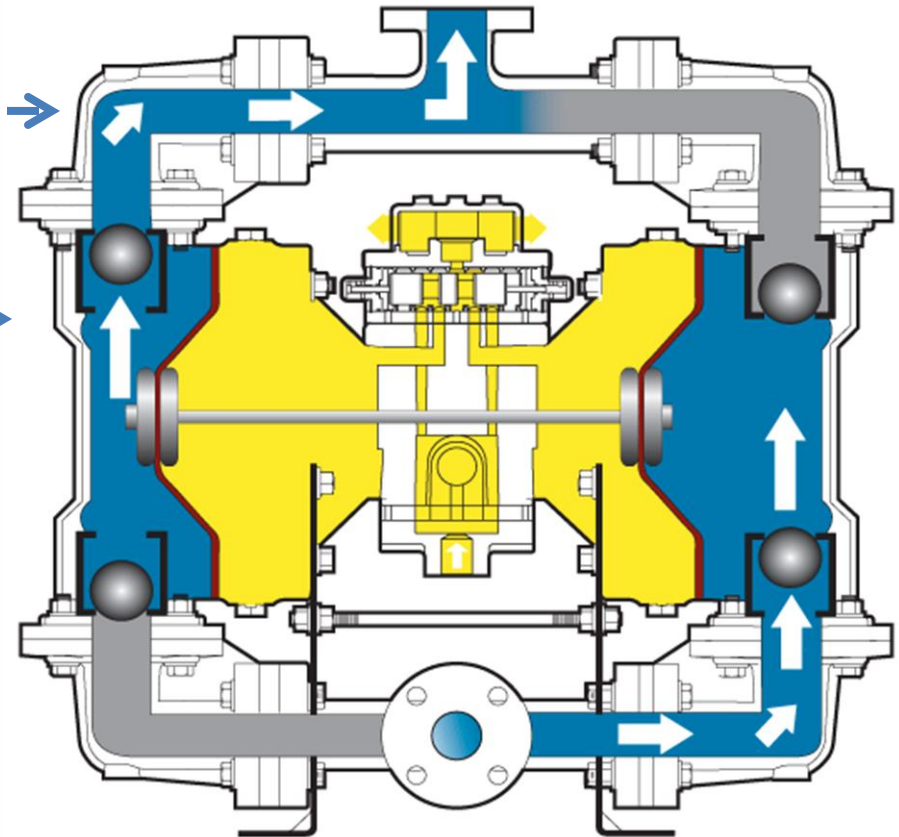




B75 Non-Metallic Pump Principles of Operation

Standard Top Discharge

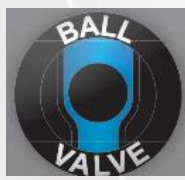
Typical Ball Valve Design



Key:

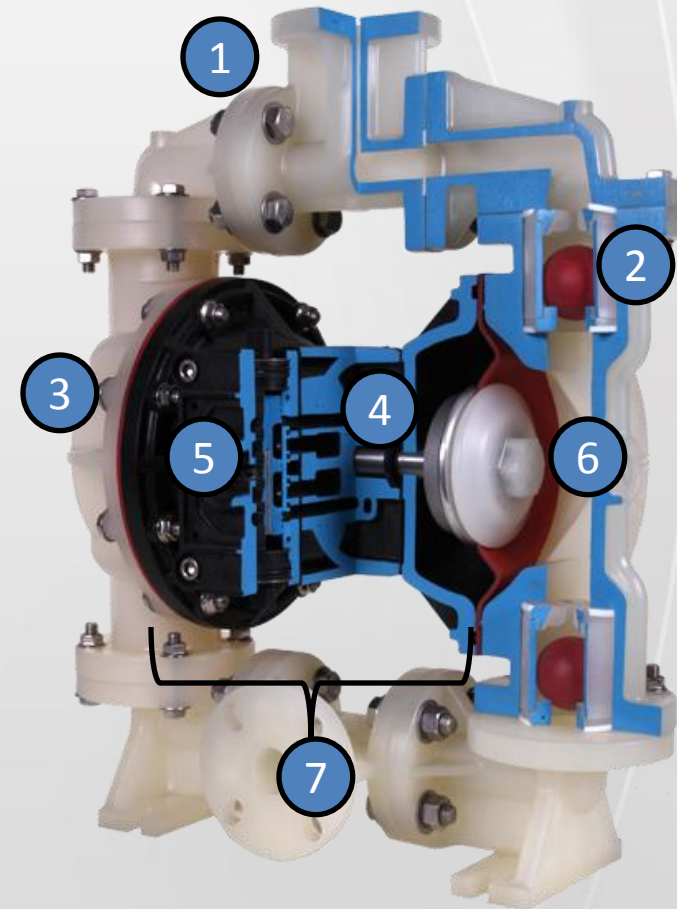
Air

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:

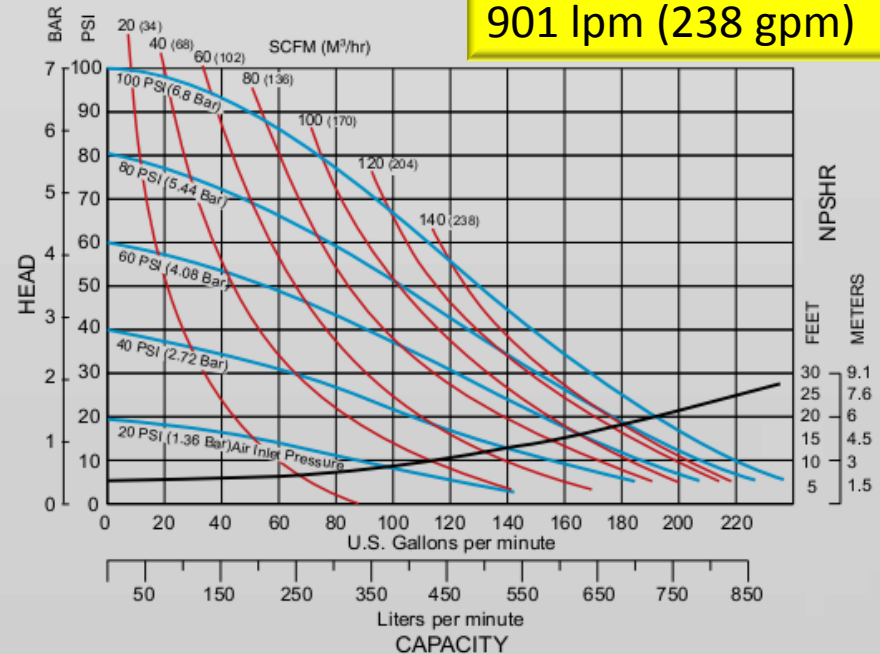
Polypropylene 105 kg. (231.5 lbs.)

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:

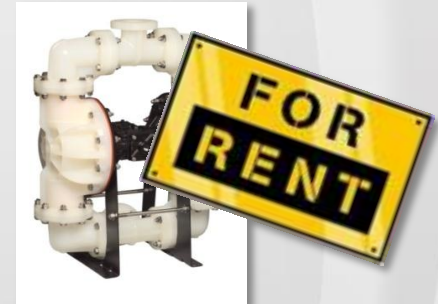
		Standard Duty Top Discharge	
		Metallic	Non-Metallic
Fluid Characteristics	Water (base reference)	A	A
	Suspended Solids	A	B
	Non-Suspended Solids	C	X
	Line Size Solids	X	X
	Sludge / Slurry	B	C
	High Viscosity (Flowable Fluids)	B	B
	Erosion / Abrasive Fluids	B	C
		B	C
		A	B
	Corrosion	B	A
Installation	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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