



***BLAGDON
PUMP®***

New Products

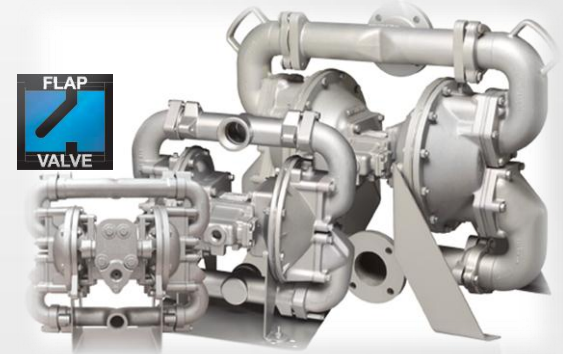
- B75 Non-Metallic

- X25, X50, X75 Flap Valve

New Product Overview

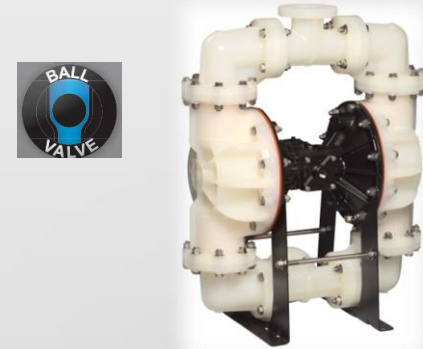
Solids handling flap valve pump units

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



High flow non-metallic ball valve pump

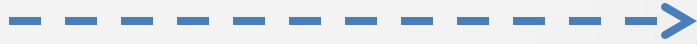
- B75 Non-metallic 76mm (3")



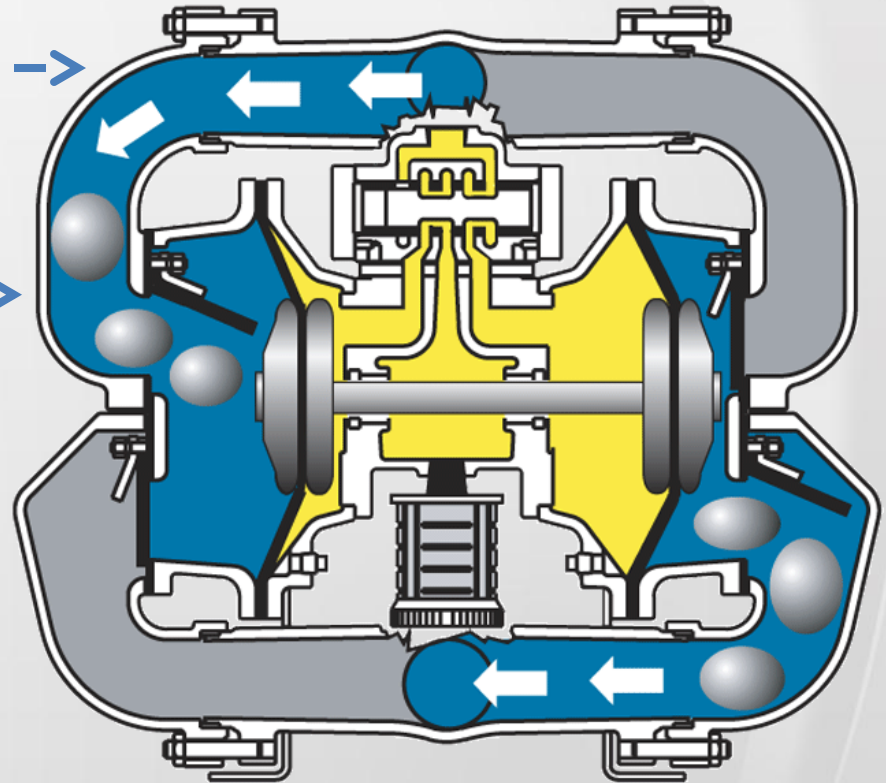
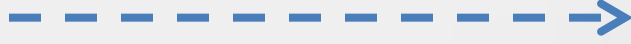


X25, X50, X75 Flap Valve Pump Principles of Operation

Top suction



Flap Check Valves

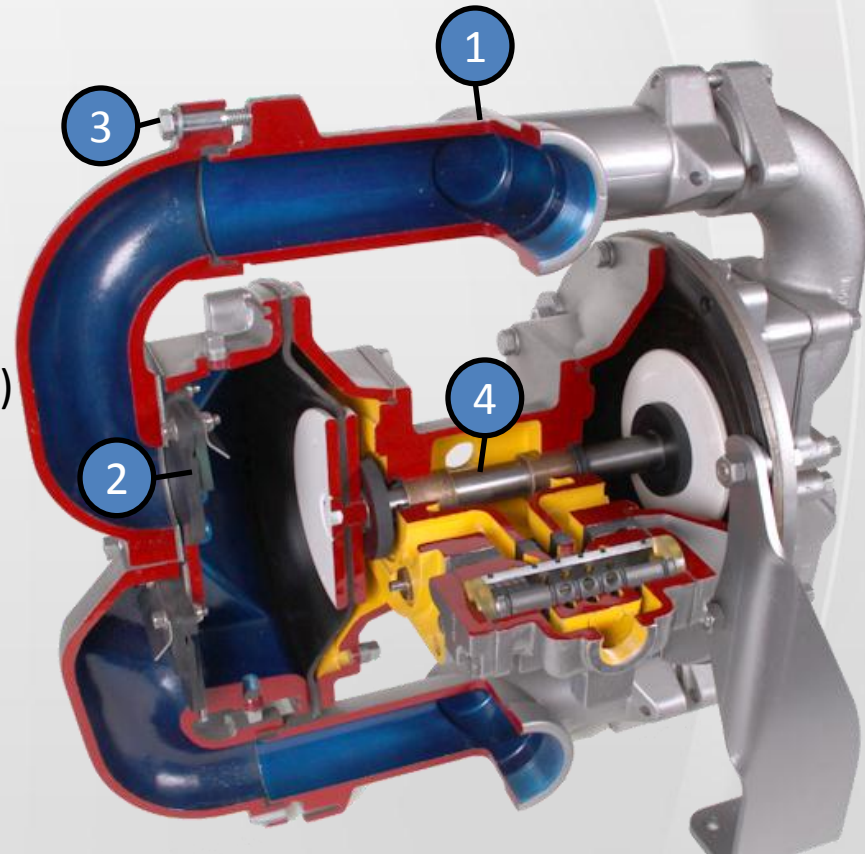


Key: Air Fluid



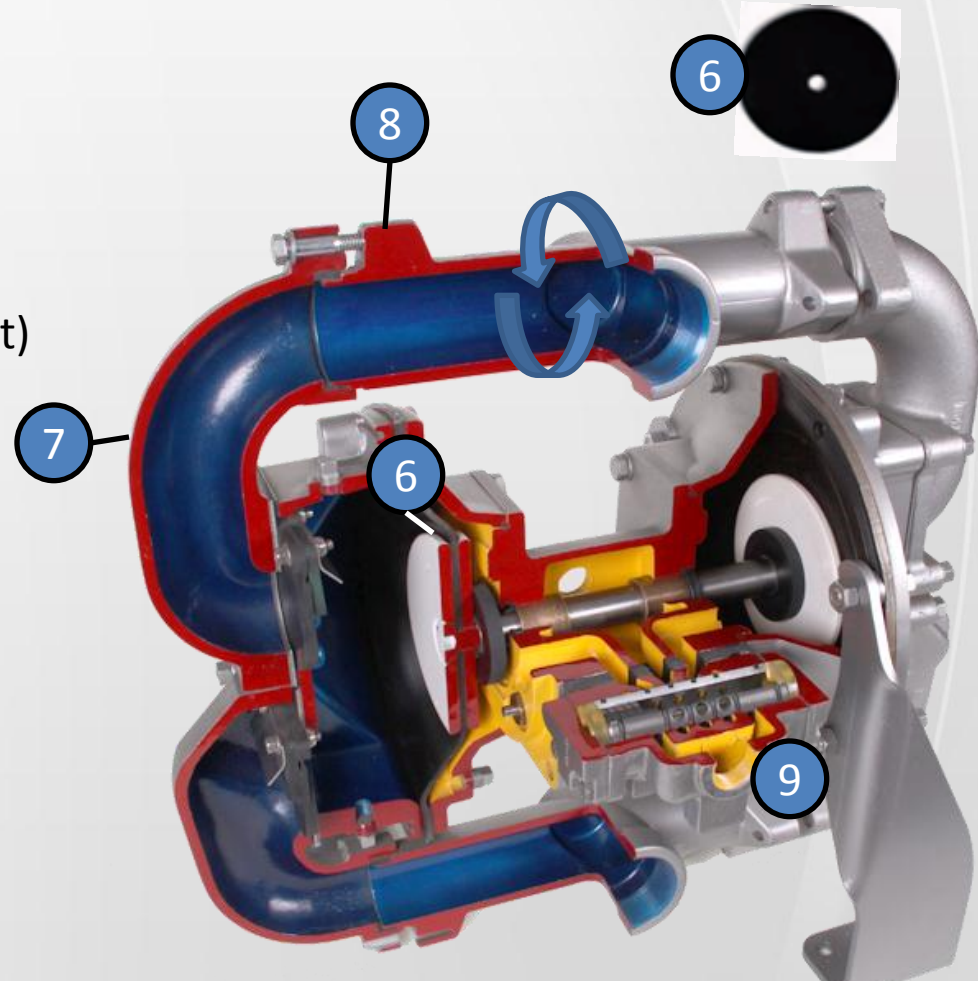
Flap Valve – Features and Benefits

- 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

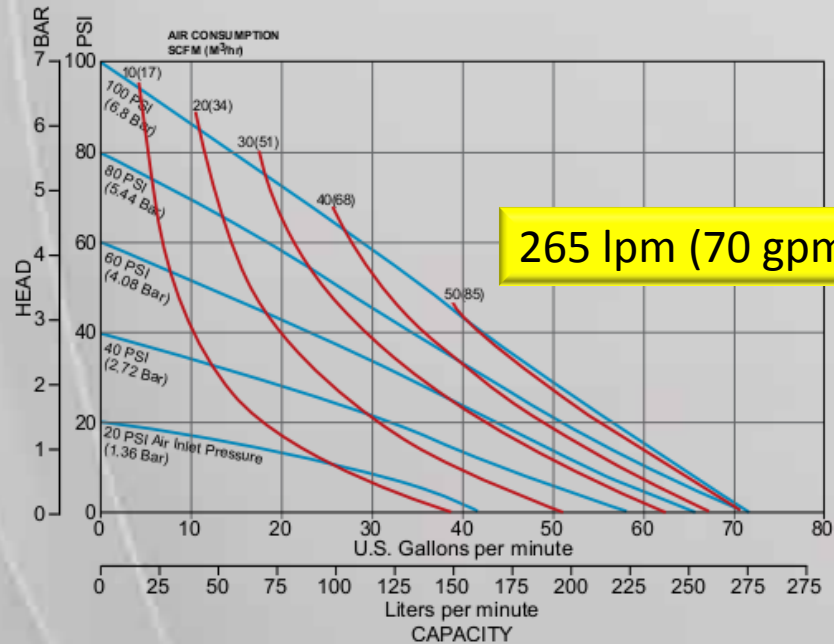
| | |
|---------------------------|---------------------------|
| Maximum Delivery: | 265 ltrs/min (70 gal/min) |
| Max. Working Pressure: | 8.6 bar (125 PSI) |
| Max. Solid Particle Size: | 25 mm. (0.98") |
| Air Inlet: | 1/2" NPT |
| Temperature Limits: | Determined by Elastomers |
| Suction Lift (Dry): | 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.) |

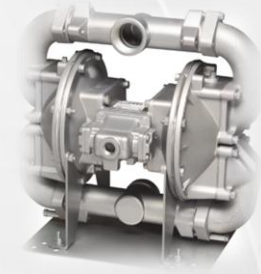
Shipping Dimensions: 381 x 457 x 482 mm.
(15" x 18" x 19")

Performance Curve



Flap Valve Pump Specifications

- X50 50mm (2")



Technical Data

METALLIC SERIES X50

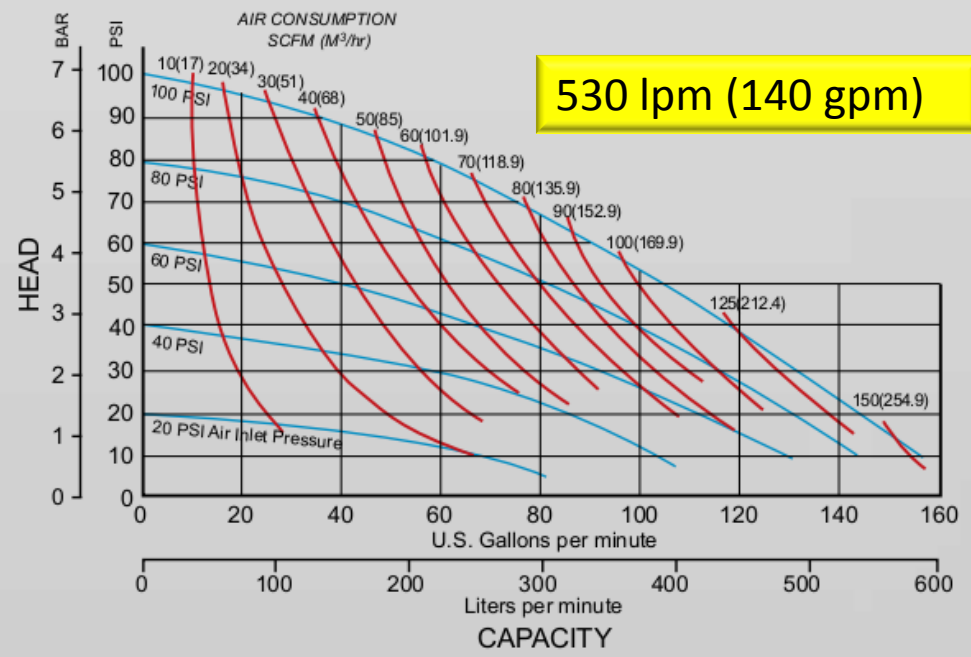
- Maximum Delivery: 530 ltrs/min (140 gal/min)
- Max. Working Pressure: 8.6 bar (125 PSI)
- Max. Solid Particle Size: 50 mm. (1.97")
- Air Inlet: 3/4" NPT
- Temperature Limits: Determined by Elastomers
- Suction Lift (Dry): 7.3 m. (24')
- Fluid Inlet/Outlet: 2" NPT
- Installation: Surface mounted
- Accessories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

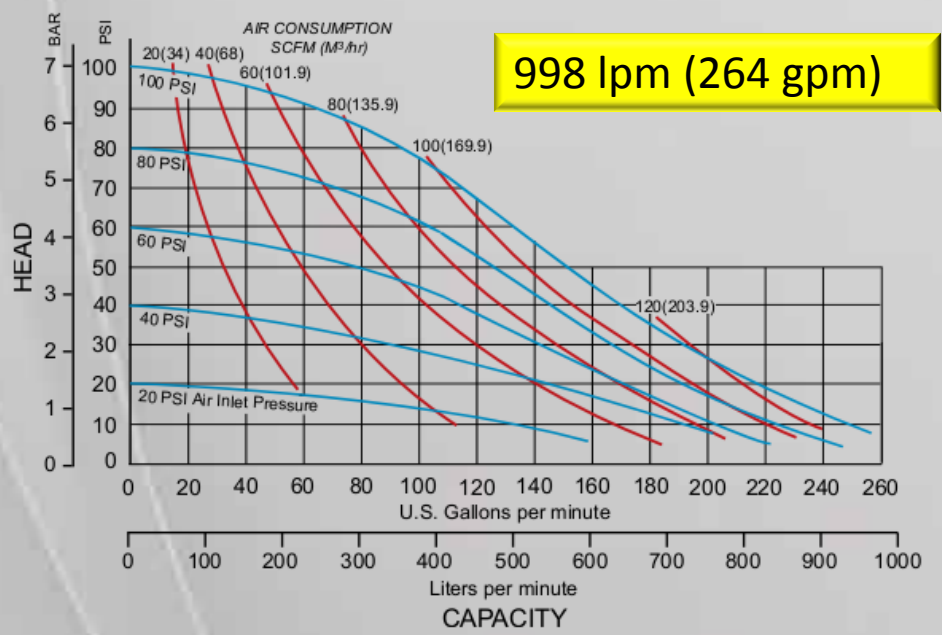
METALLIC SERIES X75

- 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

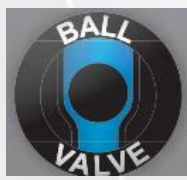


Mine dewatering



Rendering plants / remediation

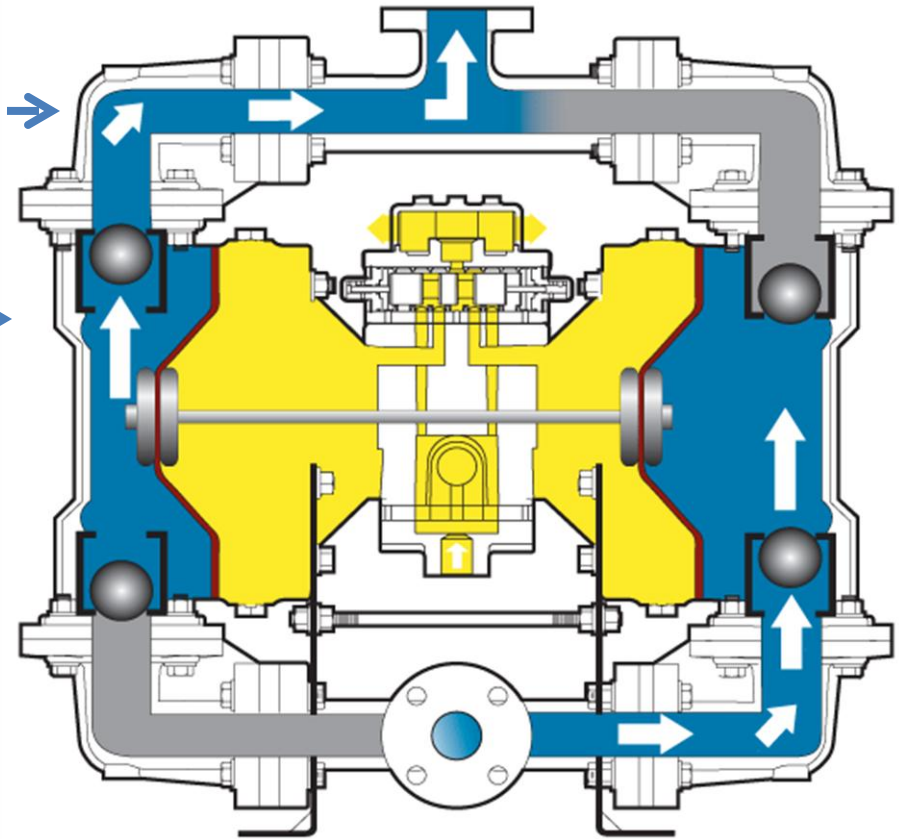




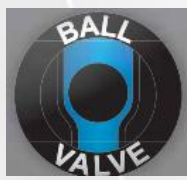
B75 Non-Metallic Pump Principles of Operation

Standard Top Discharge

Typical Ball Valve Design

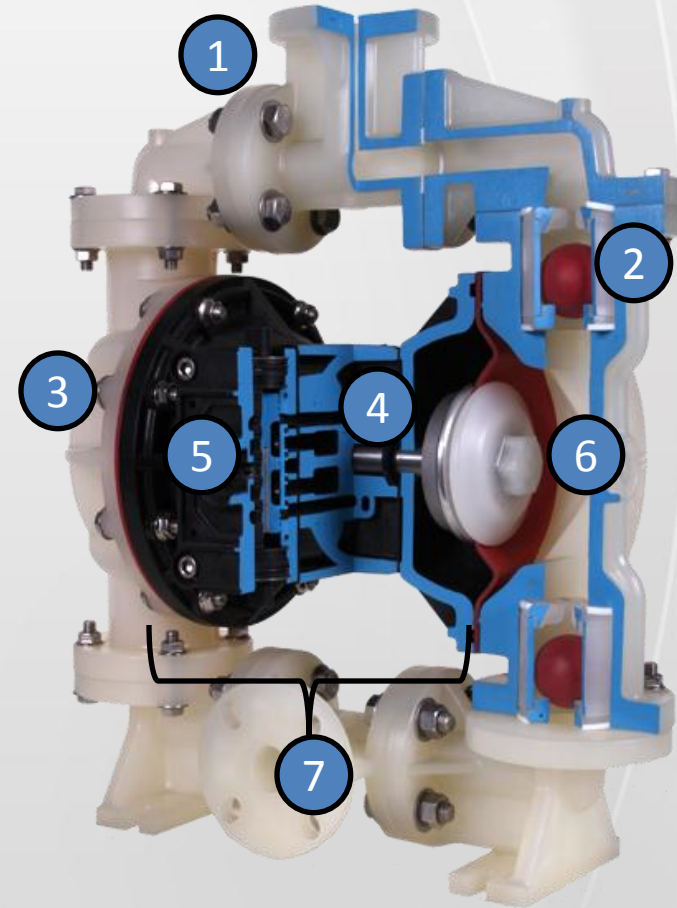


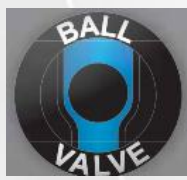
Key: Air Fluid



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:

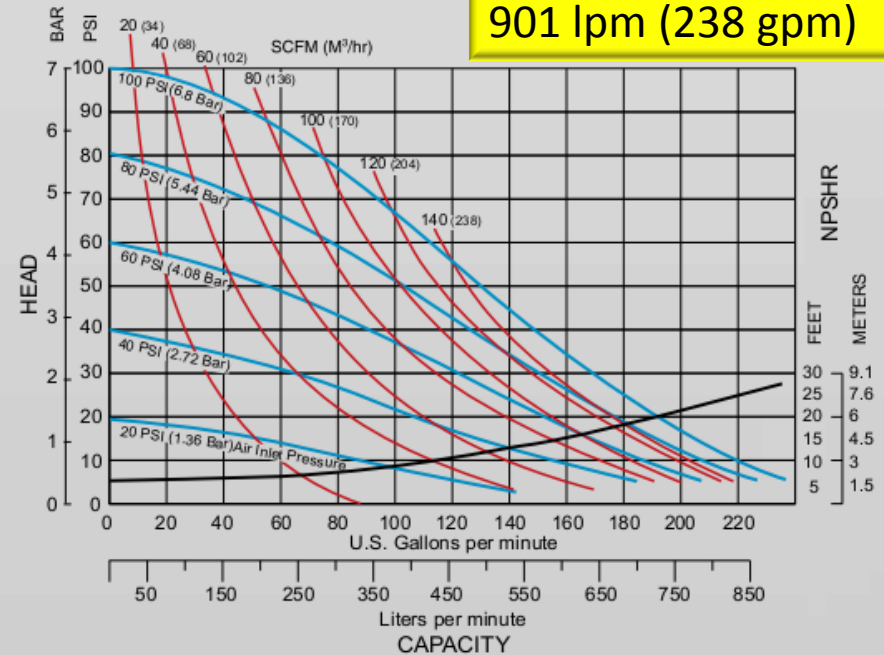
Polypropylene 105 kg. (231.5 lbs.)

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:

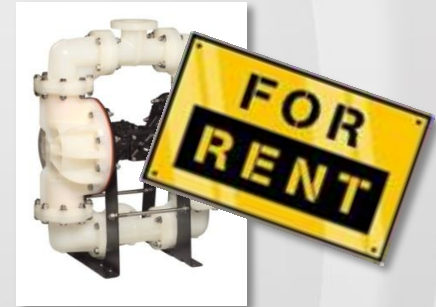
| | | Standard Duty Top Discharge | | |
|-----------------------|----------------------------------|-----------------------------|--------------|---|
| | | Metallic | Non-Metallic | |
| Fluid Characteristics | Water (base reference) | A | A | |
| | Suspended Solids | A | B | |
| | Non-Suspended Solids | 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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