

Brahma™ Series

Large Solids Handling Pumps



WILDEN®

Where Innovation Flows



Large Solids Handling Pumps Wilden® Brahma™ Series

The legendary Wilden® Brahma™ Series Air-Operated Double-Diaphragm (AODD) Pump transfers solid-laden slurries safely and effectively. Thanks to a flap-valve design that features a large internal clearance and a flow-through wetted path, the Brahma offers a large-solids capacity that prevents the pump from clogging.

SLURRY
SOLUTIONS



The Brahma Series utilizes a unique top-inlet, bottom-discharge orientation and flap valves to allow the passage of large solids while avoiding damage from product entrapment and the settling of solids during intermittent-duty applications. It features bolted construction for superior containment and the ability to pass certain solids up to 76 mm (3"), depending on pump size. Brahma Series pumps are available with Pro-Flo® SHIFT and Turbo-Flo™ air distribution systems (ADS). These pumps are available with the Chem-Fuse™ Integral Piston Diaphragm (IPD) made from durable Wil-Flex® for extended diaphragm life.



WASTE TRANSFER



SLUDGE TRANSFER



SITE DEWATERING



DRILLING MUD TRANSFER



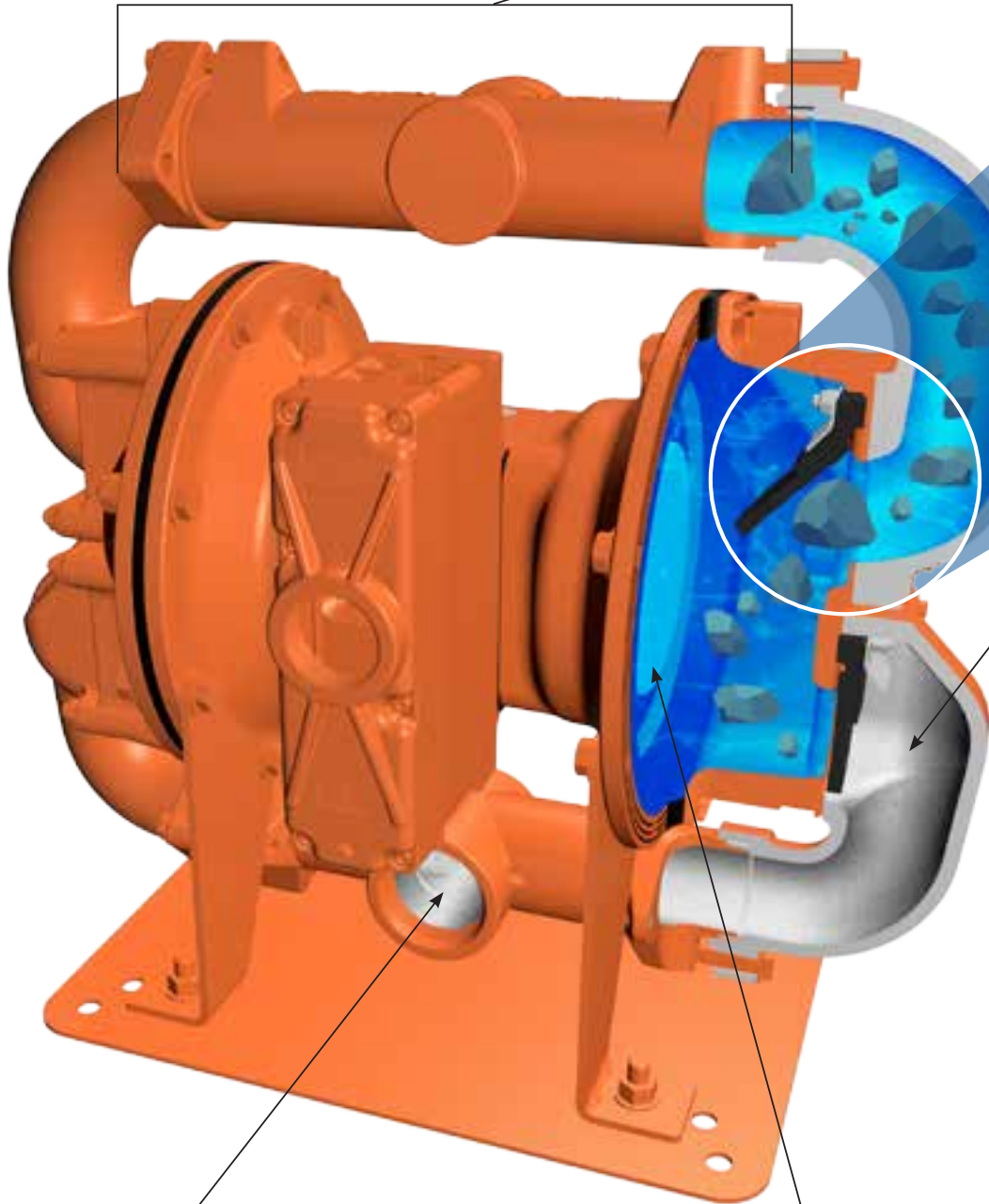
SUMP

Wilden Brahma Series

The Brahma Series flap-valve pump from Wilden is TOUGH! Tougher than your hardest applications. With its rugged design, enhanced durability and outstanding performance, the Brahma Series pumps excel in extreme environments where other pump types fail. The Brahma Series pumps free up valuable maintenance man-hours with its reliable design. Just start it up and the Brahma Series pumps will get the job done!

SUBMERSIBLE

Wilden AODD pumps are able to function in applications that require the pump to be completely submerged.



TOP INLET, BOTTOM DISCHARGE

Brahma Series is designed for top inlet and bottom discharge, pushing solids directly out, protecting the pump when solids settle. Additionally, Brahma Series pumps can handle suction lifts up to 7.7 m (25.2') Dry and 9.3 m (30.6') Wet.

CHEM-FUSE IPD: WIL-FLEX® OPTION

Unlike conventional diaphragms, which fail to meet the demands of critical pumping applications, the innovative Chem-Fuse IPD features a simple one-piece design that offers greater durability, increased flex life and easier cleanability.

Wilden Chem-Fuse diaphragms made of durable Wil-Flex® benefit from less downtime, more uptime and the peace of mind of long-lasting performance.

ROTATABLE INLET AND DISCHARGE

Rotatable inlet and discharge to help meet application requirements – 3 positions at 90° – available in threaded or flanged connections.



FLAP VALVES

AODD pump designed with flap valves to help handle large solids up to 76 mm (3"). Durable Wil-Flex® TPE material option for extended life.

LARGE INTERNAL CLEARANCE

Wetted path with large internal clearance to further help handle compressible solids up to 76 mm (3").

Air Distribution System Comparison

Depending on your application needs, Wilden offers two different types of Air Distribution Systems (ADS) for the Brahma Series



PRO-FLO® SHIFT

The Wilden Pro-Flo® SHIFT Series is the premier AODD pump. The innovative, yet simple, Pro-Flo SHIFT design features an air control spool that automatically optimizes air consumption and eliminates the overfilling that can lead to overcharging of the air chamber, all while causing no corresponding reduction in flow rate. This allows the Pro-Flo SHIFT to achieve up to 34% greater flow rates with up to 60% reduction in air consumption. Additionally, Pro-Flo SHIFT is ATEX-compatible for use in explosive atmospheres.

VS.



TURBO-FLO™

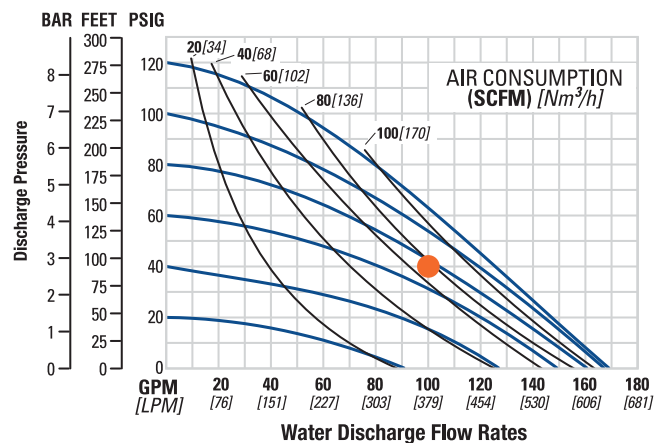
Famous for its long life and easy serviceability, the durable Wilden Turbo-Flo™ is the first ADS that originated in the AODD pump industry. Operating on only differential pressure, there are no mechanical trip rods, bearings or springs to wear or repair, making it an easy-to-maintain, cost-effective, economical ADS solution for use with AODD pumps.

Brahma Series TECHNICAL SPECIFICATIONS

Model	Air Inlet	Liquid Inlet (Top)	Liquid Discharge (Bottom)	Connection Type	Max. Flow Rate	Max. Inlet Pressure	Max. Size Solids	Max. Suction Lift	Displacement Per Stroke*	Certifications
PS810	19 mm (3/4")	51 mm (2")	51 mm (2")	NPT/BSPT (Threaded)	640 lpm (169 gpm)	8.6 bar (125 psig)	51 mm (2")	7.7 m (25.2') Dry 9.0 m (29.5') Wet	1.8 L (0.475 gal)	CE [X]
PS1510	19 mm (3/4")	76 mm (3")	76 mm (3")	DIN/ANSI (Flanged)	882 lpm (233 gpm)	8.6 bar (125 psig)	76 mm (3")	7.3 m (23.9') Dry 9.0 m (29.5') Wet	4.7 L (1.24 gal)	CE [X]
T810	19 mm (3/4")	51 mm (2")	51 mm (2")	NPT/BSPT (Threaded)	628 lpm (166 gpm)	8.6 bar (125 psig)	51 mm (2")	7.6 m (25.0') Dry 9.3 m (30.6') Wet	1.7 L (0.46 gal)	CE
T1510	19 mm (3/4")	76 mm (3")	76 mm (3")	DIN/ANSI (Flanged)	977 lpm (258 gpm)	8.6 bar (125 psig)	76 mm (3")	7.4 m (24.4') Dry 9.3 m (30.6') Wet	5.56 L (1.47 gal)	CE

*1 cycle = 2 strokes

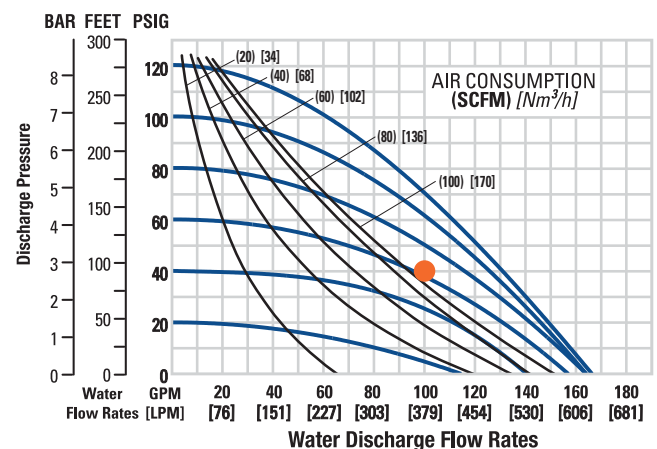
Air Distribution System Comparison: Air Consumption



Pro-Flo SHIFT 51 mm (2") PS810 Rubber-Fitted Flow Curve

If you were pumping at a flow rate of 379 lpm (100 gpm) at a discharge pressure of 2.76 bar (40 psig), you would obtain an air consumption of approximately 120.4 Nm³/h (75 SCFM).

vs.



Turbo-Flo 51 mm (2") T810 Rubber-Fitted Flow Curve

If you were pumping at a flow rate of 379 lpm (100 gpm) at a discharge pressure of 2.76 bar (40 psig), you would obtain an air consumption of over 160.5 Nm³/h (100 SCFM).