

AODD Pump Solutions for Ceramic Applications



WILDEN[®]

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Where Innovation Flows

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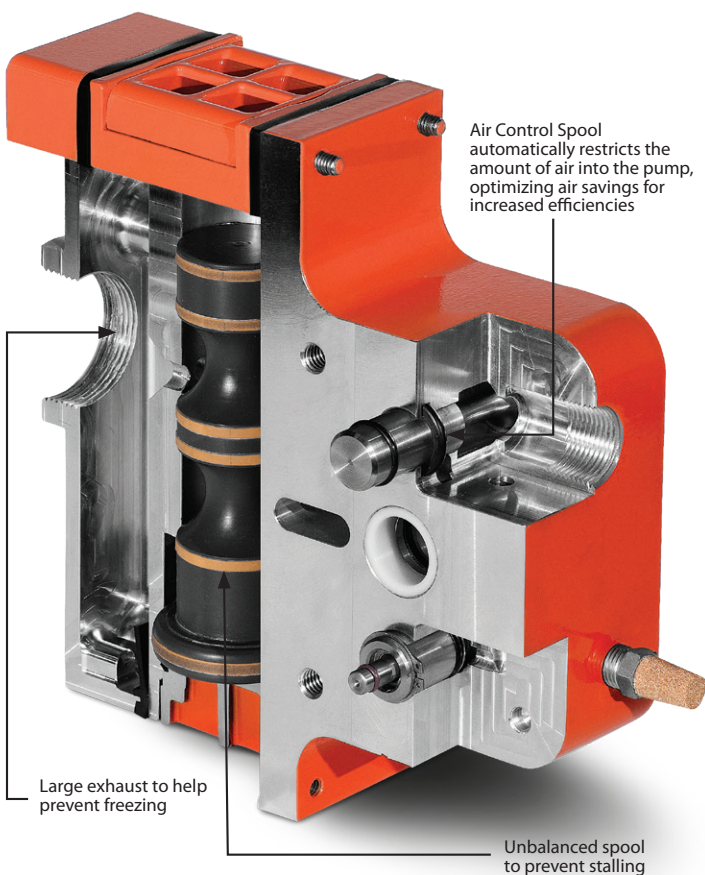
Introduction To Ceramics

Over the past few decades, the ceramics industry has grown into one of the most competitive market segments in the world. This has resulted in a continuous demand for new products with higher quality at a lower price. Faced with this challenge, operators are under more pressure than ever to ensure their production process is as reliable and efficient as possible.

Ceramic processing can be an extremely complex operation, filled with demanding applications that require precise manufacturing tolerances that ensure product quality and uniformity. These operations also require the handling of a variety of corrosives, highly abrasive fluids and solid-laden

slurries. Therefore, any pumping equipment used throughout the manufacturing process must be specifically designed to efficiently handle abrasives while also providing a reliable, efficient and trouble-free operation that helps to ensure product purity.

Where most pumping technologies fail to overcome the unique challenges in ceramic processing, the air-operated double-diaphragm (AODD) pump has quickly become the technology of choice thanks to its efficiency, simplicity of design, ease of maintenance and versatility. Within the realm of the AODD pump, Wilden® has risen to the top as a first-choice solution for ceramic manufacturers.



Pro-Flo® Shift Series

Wilden offers a complete line of AODD pump models engineered to optimize the unique and critical ceramic-manufacturing process. The Pro-Flo® SHIFT is the industry's premier ADS and your ideal solution to increase productivity, reduce air consumption and simplify maintenance.

- Up to 60% energy savings
- Up to 34% greater flow rates
- Fewer operating parts, meaning less downtime and simplified maintenance

Providing increased performance with no repiping necessary, Wilden Pro-Flo SHIFT pumps precisely fit bolt-to-bolt and pipe-to-pipe in existing fluid-handling piping systems that utilize competitor pumps or other Wilden models. This makes the Pro-Flo SHIFT an easy, cost-effective way to enhance and upgrade existing pump performance with superior bolted product containment.

Features & Benefits:

- Efficient & reliable operation
- Abrasive handling
- Operates in dry, humid or dirty atmospheric conditions
- Seal-less design that virtually eliminates leaks
- Diaphragms and manifolds adequately designed to pump barbotine, extending their life and reliability

Applications:

- Mold filling
- Ceramic slip
- Standby emergency
- Glazing
- Glaze transfer
- Portable glaze transfer
- Pumping of barbotine across the process



Technical Specifications:

Model	Orientation	Air Inlet	Liquid Inlet	Liquid Discharge	Connection Type	Max. Flow Rate	Max Inlet Pressure	Max Size Solids	Max. Suction Lift	Certifications
PS220/230	Bolted Metal	1/2" FNPT	25 mm (1")	25 mm (1")	NPT/BSPT (Threaded) DIN/ANSI (Flanged)	212 lpm (56 gpm)	8.6 bar (125 psig)	6.4 mm (1/4")	6.9 m Dry (22.7') 9.0 m Wet (29.5')	CE, ATEX
PS420/430	Bolted Metal	3/4" FNPT	38 mm (1-1/2")	38 mm (1-1/2")	NPT/BSPT (Threaded) DIN/ANSI (Flanged)	510 lpm (135 gpm)	8.6 bar (125 psig)	6.4 mm (1/4")	6.2 m Dry (20.4') 9.3 m Wet (30.6')	CE, ATEX
PS820/830	Bolted Metal	3/4" FNPT	51 mm (2")	51 mm (2")	NPT/BSPT (Threaded) DIN/ANSI (Flanged)	685 lpm (181 gpm)	8.6 bar (125 psig)	6.4 mm (1/4")	7.1 m Dry (23.3') 9.0 m Wet (29.5')	CE, ATEX
PS1520/1530	Bolted Metal	3/4" FNPT	76 mm (3")	76 mm (3")	NPT/BSPT (Threaded) DIN/ANSI (Flanged)	1,026 lpm (271 gpm)	8.6 bar (125 psig)	12.7 mm (1/2")	7.2 m Dry (23.8') 9.7 m Wet (31.8')	CE, ATEX
PS400	Bolted Metal	3/4" FNPT	38 mm (1-1/2")	38 mm (1-1/2")	DIN/ANSI (Flanged)	458 lpm (121 gpm)	8.6 bar (125 psig)	6.4 mm (1/4")	5.6 m Dry (18.4') 9.0 m Wet (29.5')	CE
PS800	Bolted Plastic	3/4" FNPT	51 mm (2")	51 mm (2")	DIN/ANSI (Flanged)	709 lpm (187 gpm)	8.6 bar (125 psig)	6.4 mm (1/4")	5.9 m Dry (19.3') 8.3 m Wet (27.2')	CE
PS1500	Bolted Plastic	3/4" FNPT	76 mm (3")	76 mm (3")	DIN/ANSI (Flanged)	1,024 lpm (271 gpm)	8.6 bar (125 psig)	12.7 mm (1/2")	5.8 m Dry (19.1') 8.6 m Wet (28.4')	CE
PS1	Clamped Metal	1/2" FNPT	13 mm (1/2")	13 mm (1/2")	NPT/BSPT (Threaded)	60.2 lpm (15.9 gpm)	8.6 bar (125 psig)	1.6 mm (1/16")	5.9 m Dry (19.3') 9.8 m Wet (32.3')	CE, ATEX
PS4	Clamped Metal	3/4" FNPT	38 mm (1-1/2")	38 mm (1-1/2")	NPT/BSPT (Threaded)	375 lpm (99 gpm)	8.6 bar (125 psig)	4.8 mm (3/16")	7.1 m Dry (23.3') 8.6 m Wet (28.4')	CE, ATEX
PS8	Clamped Metal	3/4" FNPT	51 mm (2")	51 mm (2")	NPT/BSPT (Threaded)	723 lpm (191 gpm)	8.6 bar (125 psig)	6.4 mm (1/4")	7.2 m Dry (23.8') 9.0 m Wet (29.5')	CE, ATEX
PS15	Clamped Metal	3/4" FNPT	76 mm (3")	76 mm (3")	NPT/BSPT (Threaded)	927 lpm (245 gpm)	8.6 bar (125 psig)	9.5 mm (3/8")	6.6 m Dry (21.6') 8.6 m Wet (28.4')	CE, ATEX
PS20	Clamped Metal	3/4" FNPT	102 mm (4")	102 mm (4")	ANSI (Flanged)	1,048 lpm (277 gpm)	8.6 bar (125 psig)	35 mm (1-3/8")	4.4 m Dry (14.4') 8.6 m Wet (28.4')	CE, ATEX
PS4	Clamped Plastic	3/4" FNPT	38 mm (1-1/2")	38 mm (1-1/2")	DIN/ANSI (Flanged)	379 lpm (100 gpm)	8.6 bar (125 psig)	4.8 mm (3/16")	6.2 m Dry (20.4') 8.3 m Wet (27.2')	CE, ATEX
PS8	Clamped Plastic	3/4" FNPT	51 mm (2")	51 mm (2")	DIN/ANSI (Flanged)	643 lpm (170 gpm)	8.6 bar (125 psig)	6.4 mm (1/4")	6.6 m Dry (21.8') 8.3 m Wet (27.2')	CE, ATEX



State of the Art Diaphragms

Chem-Fuse Integral Piston Diaphragms (IPDs) have been designed to deliver an elevated level of performance in high-volume ceramic-manufacturing applications because its one-piece design that eliminates a potential leak point at the outer piston while decreasing outer-piston abrasion that can compromise diaphragm life. Chem-Fuse is available in sizes from 1" to 3" and in Wil-Flex material.

EZ-Install TPE Diaphragms feature a unique convolute shape that requires no need to invert the diaphragm during installation. This results in quick, easy installation with minimal risk of injury, making EZ-Install a convenient like-for-like replacement for traditional diaphragms with corresponding reductions in pump downtime. They are offered in a variety of materials of construction and are available in sizes from 1" to 3."

Turbo-Flo™ Series Pumps

The durable Wilden Turbo-Flo™ Series operates on only differential pressure, with no mechanical trip rods, bearings or springs to wear or repair, making the pump an easy-to-maintain, cost-effective, economical solution.

WILDEN®

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