



## WHY BUY Flint & Walling 4" Submersibles

You're in the business of solving problems, not chasing them. That's why we build and test our 4-inch pumps and motors to run reliably and provide curve performance exactly as advertised—not a wide range of tolerance—you don't have time for that and neither do we.

Made in the USA by people you know and trust, our premium pumps deliver the confidence and reliability you expect and deserve.

That's worry-free operation from the start.



S Series Submersibles  
A Series Submersibles  
G Series Submersibles  
P Series Submersibles



Call 800.345.9422 or visit  
[FlintandWalling.us/Distributors](http://FlintandWalling.us/Distributors)  
to locate a distributor near you.



# 4" Submersible Pumps



## ***Check-Valve Assembly***

- Removable anti-spin design
- Rectangular stem and guide for stability
- Closed sand cap
- Self-centering conical base
- Cycled 1,000,000 times without fail

## ***Discharge Bearing***

- Closed, sintered 'lead-free' bronze bearing
- Passed 12-hour run-dry tests
- Withstands high heat rise

## ***Thrust Washers***

- Accommodates up-thrust conditions with 100% stainless steel construction at every stage

## ***Floating Stack***

- Also known as 'loose stack' due to lack of tight tolerances
- Upper segment of impeller smaller than lower segment to pass sand and abrasives
- Extra-large impeller 'eye' mates up with same on diffuser plate

## ***Staging***

- Dissimilar materials used for impellers and diffusers
- Pumps have never been 'de-staged'
- In many cases, F&W has up to two more stages than competitors.



# 4" Submersible Motors



## *Development & Field Testing*

- 128,000 manhours devoted to design
- Full seven years of field testing
- Quality audits conducted at 6, 12, 18 & 24 month intervals to inspect and compare wear patterns
- .5 - 1.5 HP (2 wire), .5 - 2.0 HP (3-wire)

## *Stainless Steel Stator End Bells*

- Top and bottom in lieu of cast iron
- Passed 30 day corrosion test in 40,000 ppm salt water (ocean water)

## *Thrust Bearing*

- 700 lb. thrust bearing in every motor
- Three segments or 'shoes' with every assembly
- Edges removed on segments to improve 'glide' across the carbon bearing

## *Encapsulation*

- Carries heat away from the windings
- Solid encapsulation process eliminates 'voids' or pockets, extending life of the motor

## *Fill Solution*

- Proprietary solution and process virtually eliminates lip seal wear

## *Quality Checks & Testing*

- 18 Quality checks performed while manufacturing
- Hi-Pot (4-times at 230 V), winding resistance, shaft height, rotation, weld strength, encapsulation cure and more



F&W 4" Motors



# Variable Frequency Drives



## Enclosure

- NEMA 3R rated for indoor / outdoor applications. Protects against rain, sleet, snow and ice
- Operates in ambient temperatures from -4°F to 125°F
- Locking feature prevents tampering
- Plentiful space for wiring. Additional knockouts for external devices

## Interior

- Most efficient drive from a cooling standpoint. Temperature monitored cooling fan operated off of embedded thermostat
- 95% of incoming air flows directly across heat sink for cooling
- FCC compliant (Part 15 Class A)

## Programming

- Easiest and quickest in the industry
- Built-in startup guide
- Can operate off of a pressure switch or transducer
- NO dip switches, NO fault codes, displays faults in English

## Optional Features

- Pest kit
- Z Control communicator. Monitor and program drive remotely from anywhere in the world



## Models Available

- Drives only or packaged systems
- 1.5 HP, 2.0 HP, 3.0 HP, 5.0 HP (any motor)
- 3-wire three phase, 3-wire single phase

