

Key Lift Station Design Features

Brian Gongol, DJ Gongol & Associates



DJ Gongol & Associates, Inc.

West Des Moines, IA • 515-223-4144 • www.PumpStoreUSA.com • sales@gongol.net

Summary

- Safety
- Maintenance
- Scalability
- Life-cycle costs
- Aesthetics
- Features and options



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Safety

- Falls



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Safety

- Falls
- Electrocution



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Safety

- Falls
- Electrocution
- Hazardous gases



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00-1257-ASVP

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Safety

- Falls
- Electrocution
- Hazardous gases
- Tripping



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Safety

- Falls
- Electrocution
- Hazardous gases
- Tripping
- Rotating parts

Maintenance

- Tools required



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Maintenance

- Tools required
- Field adjustments



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Maintenance

- Tools required
- Field adjustments
- Maintenance in shop vs. in field



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Maintenance

- Tools required
- Field adjustments
- Maintenance in shop vs. in field
- Time required to unclog



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Maintenance

- Tools required
- Field adjustments
- Maintenance in shop vs. in field
- Time required to unclog
- Wearing parts



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Scalability

- Motor sizing



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Scalability

- Motor sizing
- VFDs



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Scalability

- Motor sizing
- VFDs
- Two-speed motors



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Scalability

- Motor sizing
- VFDs
- Two-speed motors
- V-belts



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Scalability

- Motor sizing
- VFDs
- Two-speed motors
- V-belts
- Force main sizing



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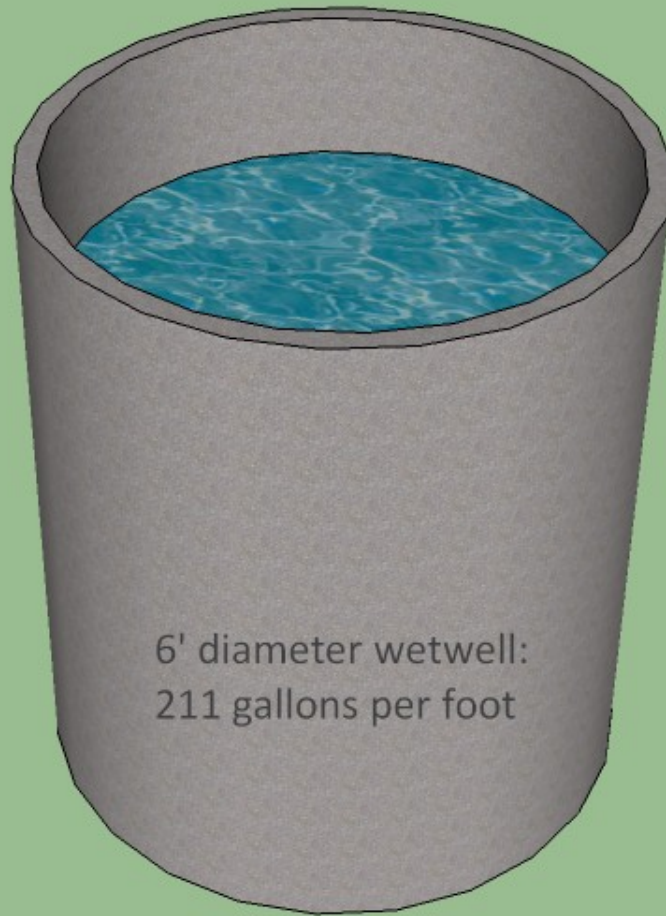
Scalability

- Motor sizing
- VFDs
- Two-speed motors
- V-belts
- Force main sizing
- Wetwell sizing

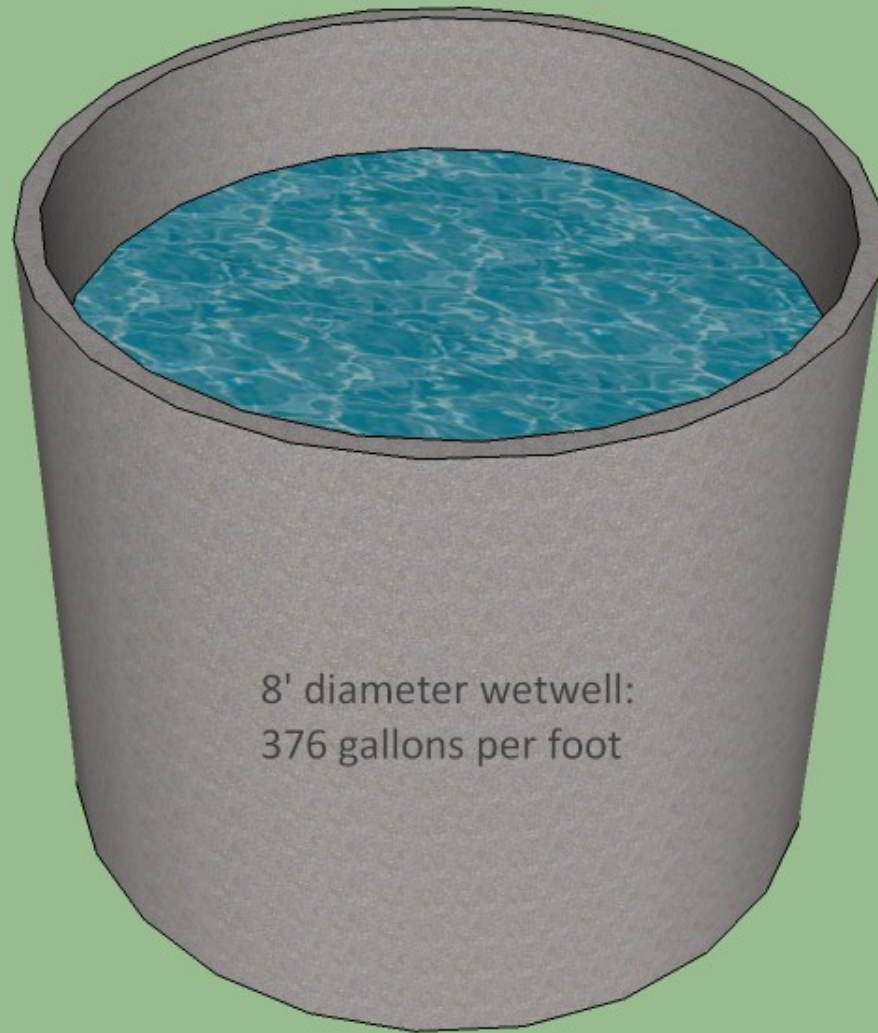


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6' diameter wetwell:
211 gallons per foot



8' diameter wetwell:
376 gallons per foot



10' diameter wetwell:
588 gallons per foot

Life-cycle costs

- Initial capital cost



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Life-cycle costs

- Initial capital cost
- Maintenance cost



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Life-cycle costs

- Initial capital cost
- Maintenance cost
- Repair labor cost



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Life-cycle costs

- Initial capital cost
- Maintenance cost
- Repair labor cost
- Expected service life



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Aesthetics

- Attractive nuisance



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Aesthetics

- Attractive nuisance
- Property values



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Aesthetics

- Attractive nuisance
- Property values
- Discouraging vandalism, theft, terrorism



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Aesthetics

- Attractive nuisance
- Property values
- Discouraging vandalism, theft, terrorism
- Better conditions create better work



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ONLY GOOD
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JOBS

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Features and options

- Gauges



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Features and options

- Gauges
- Bypass connections



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Workshop Series - 2018 Budget & Priorities



Features and options

- Gauges
- Bypass connections
- Wetwell size



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Features and options

- Gauges
- Bypass connections
- Wetwell size
- Generator



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Features and options

- Gauges
- Bypass connections
- Wetwell size
- Generator
- Engine backup



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Features and options

- Gauges
- Bypass connections
- Wetwell size
- Generator
- Engine backup
- Heat and ventilation



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Features and options

- Gauges
- Bypass connections
- Wetwell size
- Generator
- Engine backup
- Heat and ventilation
- Dialer



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Features and options

- Gauges
- Bypass connections
- Wetwell size
- Generator
- Engine backup
- Heat and ventilation
- Dialer
- Drain kit



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