

## EBCx Workshop Series 15 Session 9 – Field Observations

#### **Presented By:**

- David Sellers; Facility Dynamics Engineering
- Senior Engineer













### This is Cool

# Free iPhone app from Motionics

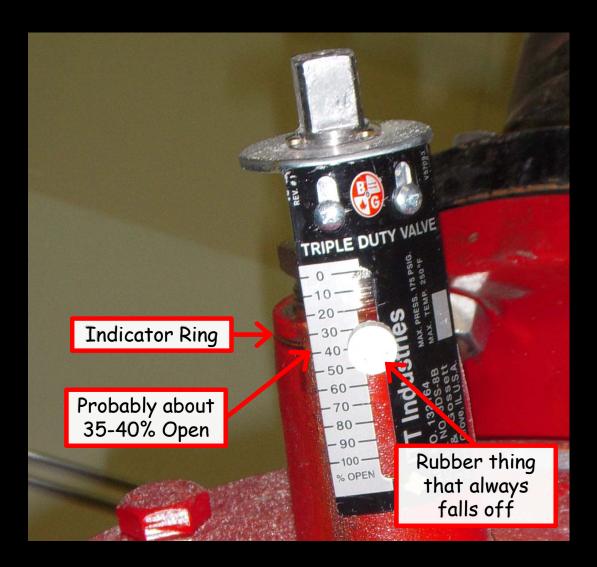
https://apps.apple.com/us/app/ strobe-lighttachometer/id978182913

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1174	Battery-less Laser Tacl	h for iPhone
	Fe	edback

#### UC Davis



#### Reading a Triple Duty Valve



#### Genentec

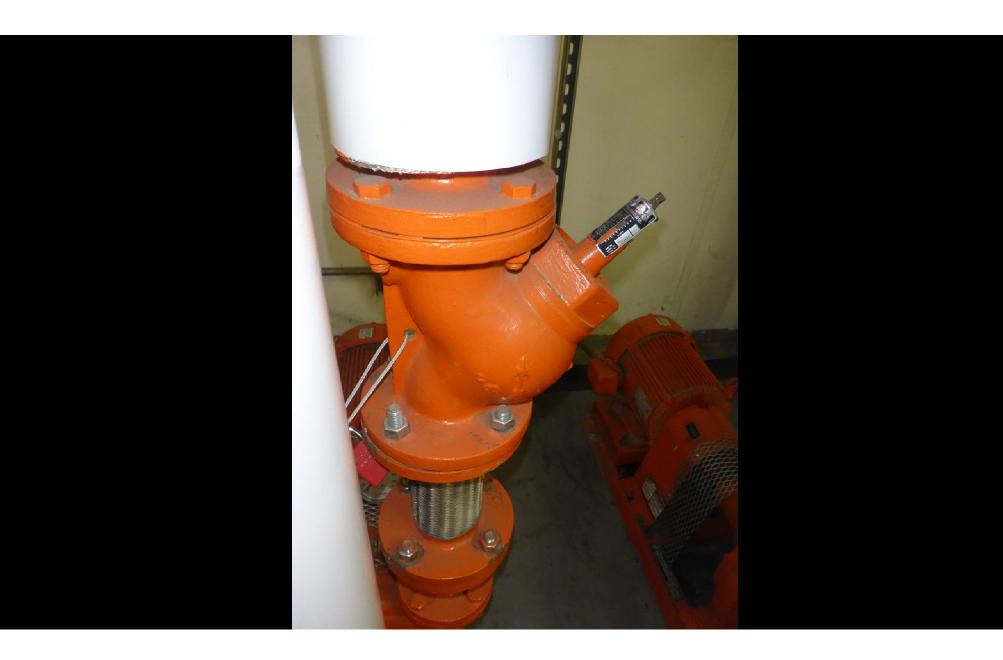




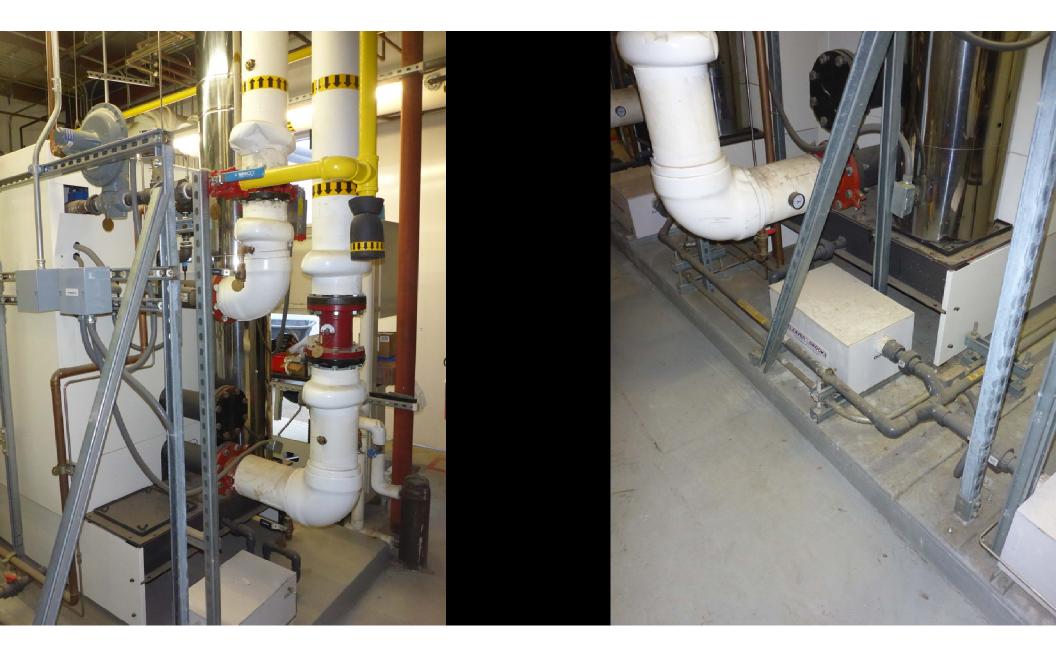


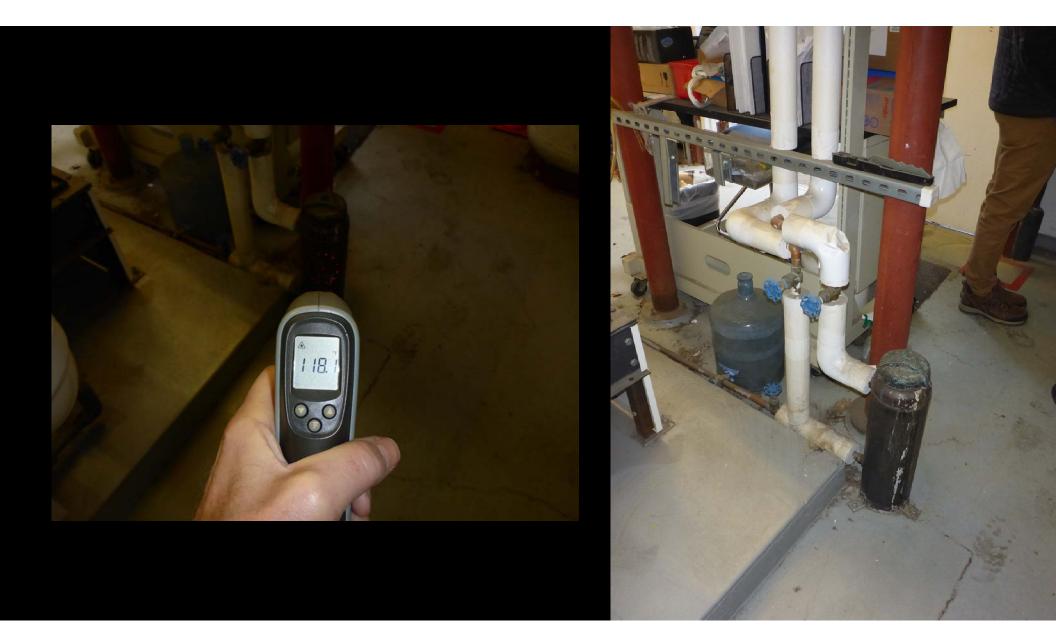








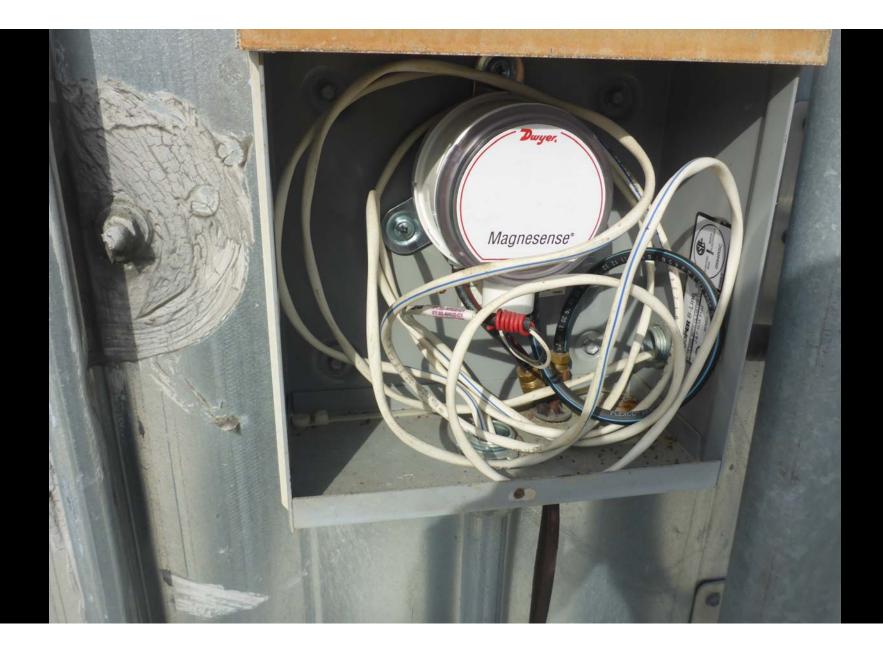












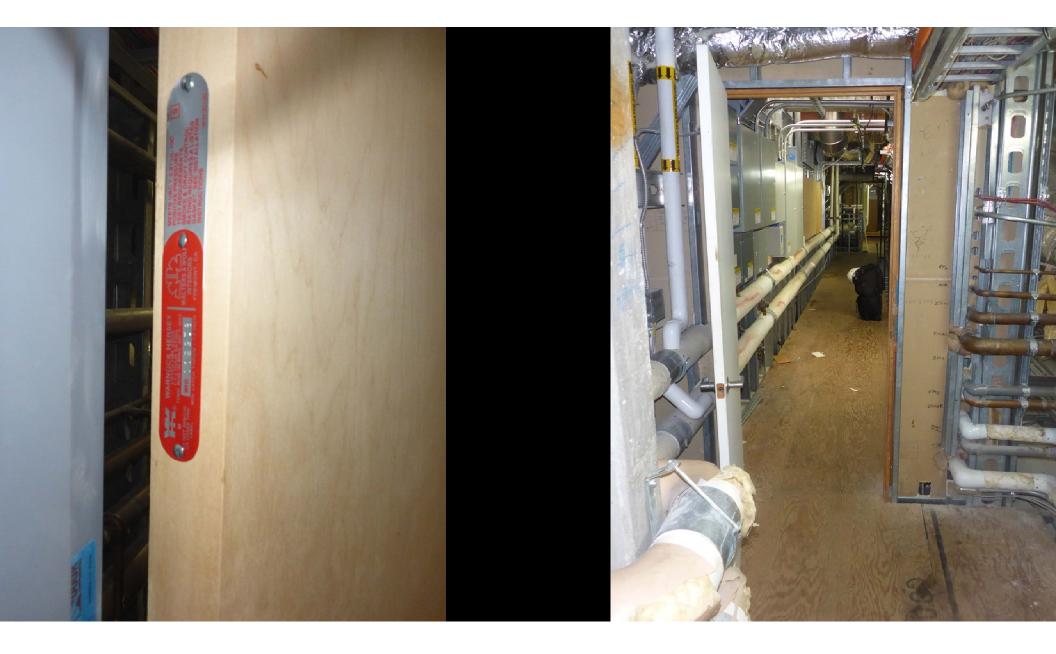


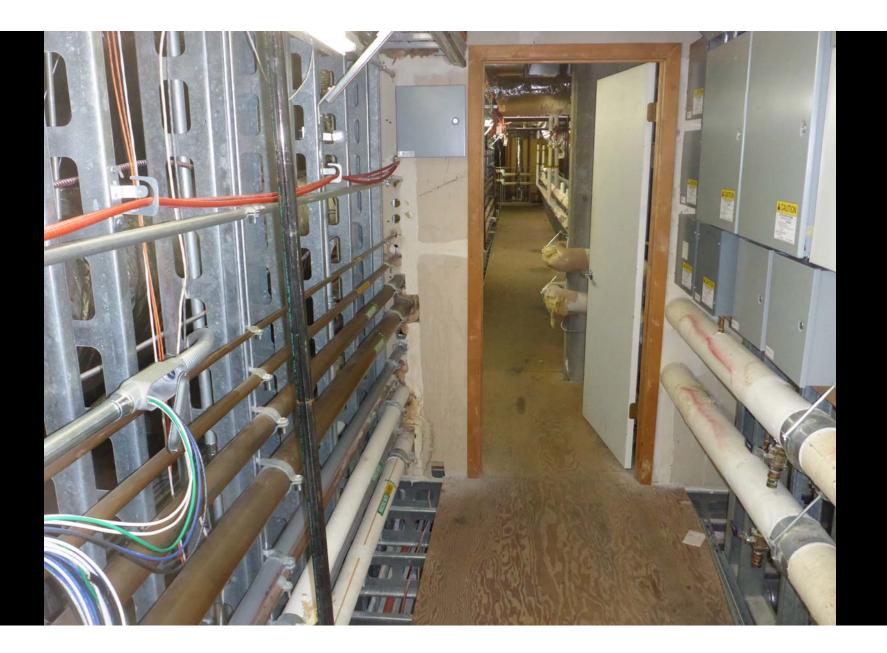








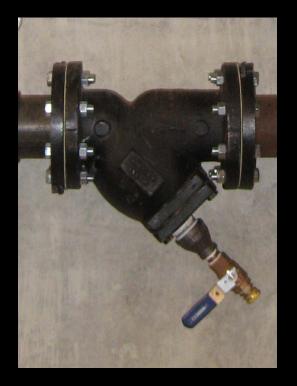


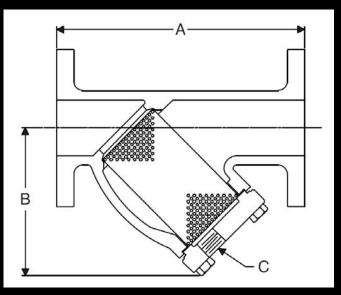


### College of San Mateo



#### Strainers; Details Matter





What happens if you put a reducer on the outlet or flip the cover plate so the outlet is on top vs. on the bottom?

PIPES, VALVES, AND FITTINGS

#### Redundant Strainers Allow Uninterrupted Service





PIPES, VALVES, AND FITTINGS



## **Check Valves**

- Intended to prevent reverse flow
- Typically found on the discharge of pumps, especially parallel pumps



### Wafer Type Check Valve – Outlet

PIPES, VALVES, AND FITTINGS

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- Intended to prevent reverse flow
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#### Wafer Type Check Valve – Inlet

PIPES, VALVES, AND FITTINGS

## **Check Valves**

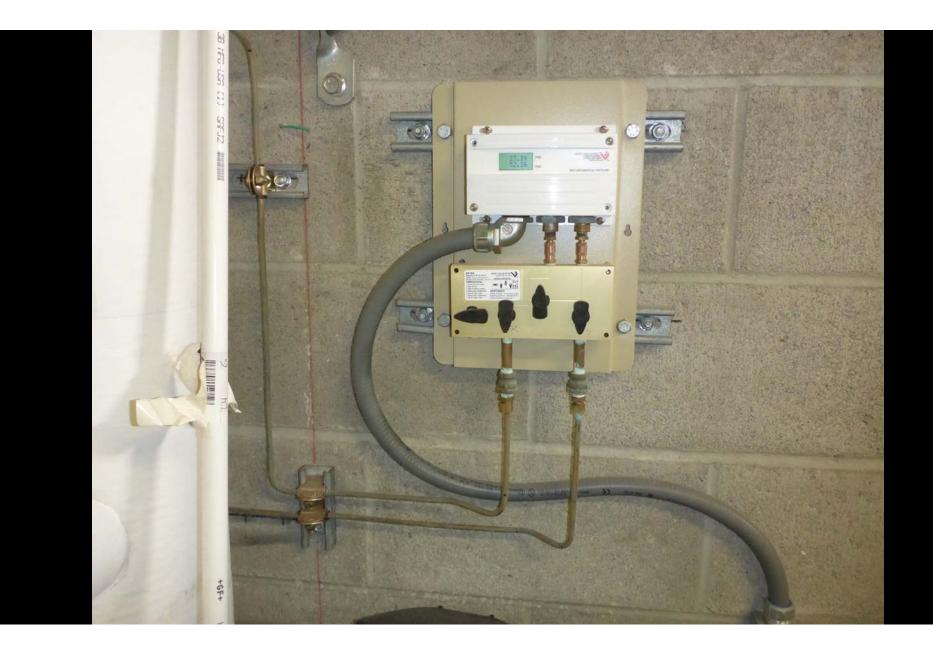
- Intended to prevent reverse flow
- Typically found on the discharge of pumps, especially parallel pumps
- Directional; if you put it in backwards, it won't do its job



Wafer Type Check Valve – Note Directional Arrow

PIPES, VALVES, AND FITTINGS





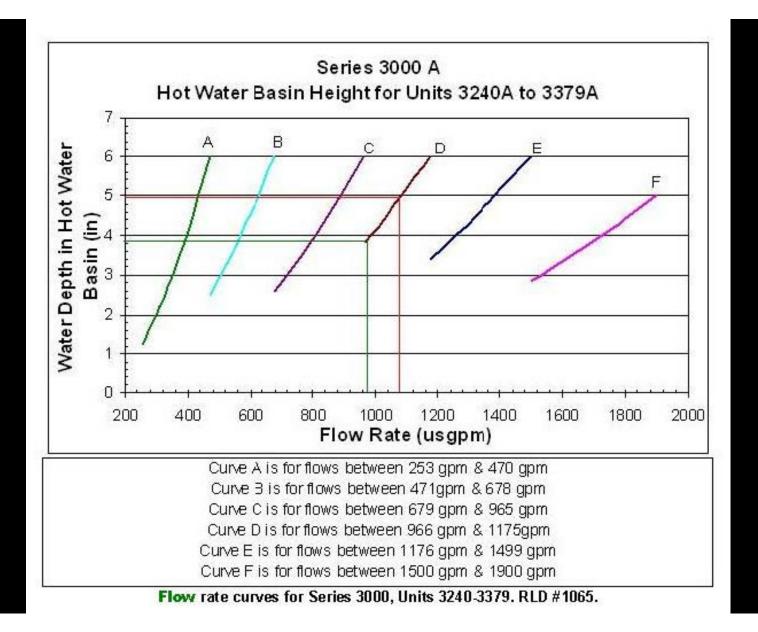


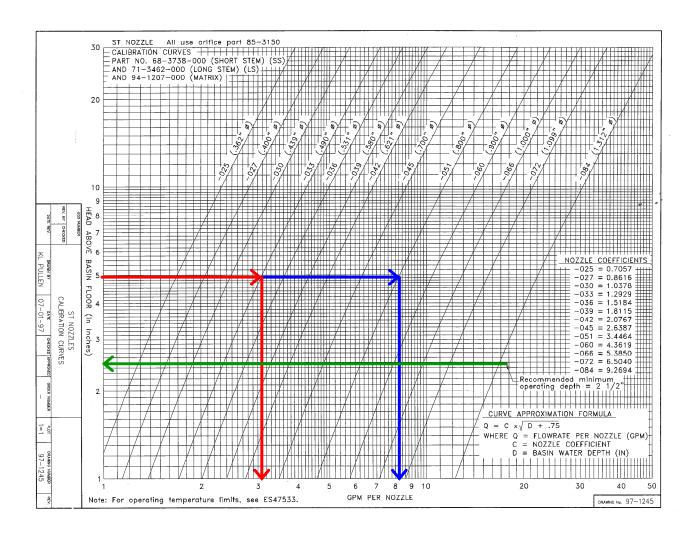
# Different Basin Levels = Different Flows



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