TTR Group Inc. Butterfly Valve & Actuator Seminar Training Agenda - KUTTR13



· · · · · · · · · · · · · · · · · · ·		Date:		
		Contact:		
TTRG 2371		CEUs	0.7	
	8:30a.m 4:00p.m. Bruce James Yes E- Engineering / O- Operations	s E/O- Engin	Agenda Pages: Agenda Days: neering & Operatio	3 1 ons
Municipal W	P, WWTP, In plant and Buried se enefits / Applications & Installatio Audience That Will Be	ns / Creating /	Applicable Specifica	itions
	AWWA butte Municipal WT	8:30a.m 4:00p.m. Bruce James Yes E- Engineering / O- Operations AWWA butterfly Valves and AWWA Actuation Municipal WTP, WWTP, In plant and Buried se Features & Benefits / Applications & Installatio Audience That Will Be	TTRG 2371 CEUs 8:30a.m 4:00p.m. Bruce James Yes E- Engineering / O- Operations E/O- Engin AWWA butterfly Valves and AWWA Actuation Municipal WTP, WWTP, In plant and Buried service	TTRG 2371 CEUs 0.7 8:30a.m 4:00p.m. Agenda Pages: Bruce James Agenda Days: Yes E- Engineering / O- Operations E/O- Engineering & Operation AWWA butterfly Valves and AWWA Actuation Municipal WTP, WWTP, In plant and Buried service Features & Benefits / Applications & Installations / Creating Applicable Specification Audience That Will Benefit

Single Day Agenda

8:00 - 8:15 AM Coffee & Prep	Introduction / Attendance (cell phones on silent or vibrate)	
8:15 - 8:30 Experience	TTR Background /Distribution/Manufacturing/Engineering.	
8:30 – 10:00	Transparency of the Manufactures	Б
Butterfly Valves	AWWA C504 Latest Revision Standard Guidelines 150 & 250lb	E
	AWWA Velocity Rating / Pressure Class and Actuator Selection	E
	AWWA C516-10 Standard 72 inch and larger	E
	Coatings and AWWA Butterfly Valves AWWA C550	Е
	AWWA Available Manual of Practice	Е
	M44 & M49 AWWA Standards of Practice	E/O
	AWWA Butterfly Manufactures Brands & Objective Comparisons	E/O
	AWWA Seat in Body vs. Seat on Disc Designs	E/O
	Flow Direction & Torque Effects- Static, Dynamic & Shaft Orientation	E/O
	AWWA Butterfly Valves vs. Industrial Butterfly Valves	E/O
	AWWA Butterfly Valves Typical Failures & Causes	0
	Reality of Seat Field Replacement and Adjustability	0

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10:00 - 10 15 Break	Break	
10:15 – 12:00 Butterfly Valves	Tuberculation Effects and Valve Performance Elastomer Performance and Durometer Degradation Cast Iron vs. Ductile Iron Bodies AWWA Butterfly Valve Design Limitations & Minimum Requirements AWWA Butterfly Valve Design Limitations & Minimum Requirements AWWA Butterfly Valve Octorely Proper Sizing of Control Valves Avoiding Cavitation Proper Operation of an AWWA Butterfly Valve Piping Orientations / Installation & Operation. Proper Handling / Lifting / Storage Maintenance Requirements and Adjustments Municipal Migration of Triple Off set Zero Leakage BFVs Suggested Specifications / Features Benefits / Options Specifying without limiting Considerations for Specification Creation	E/O E E/O E/O E/O O O O C E E E E E E/O
12:00 - 12:30 Lunch	In - House Lunch	
12:30 – 2:00 Actuation	AWWA C504 & AWWA C540 Latest Revisions Worm Gear vs. Travelling Nut/ AWWA C540 review Actuation in Chambers & Buried Service - Why Grease Pack Actuator Mounting Orientations and Sizing Open Left & Open Right Oil filled vs. Grease Filled Actuators Actuator Sizing & Specifications – Unidirectional & Bidirectional flow Actuator Removal / Packing Retaining Safety Issues Actuator & Valve Shaft Locking Devices & Requirements. Typical Actuator Failures & Causes & Prevention.	E/O E/O E/O O E/O E/O O E/O O
2:00 – 2:15 Break	Break	
2:15 – 2:45 Actuation	Actuator Performance Specifications and Industry Standards. Preventing Field Failures. Installation Options and Submerged Actuation Electric Actuation & Memory Failure	E O O E/O

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	Manual Override Operation & Handwheel Sizing Maintenance Requirements and Adjustments Considerations for Specification Creation	E/O O E
2:45 – 3:00 Engineered Shaft Extensions & Torque Tubes	Free Standing Torque Tubes Design Requirements & Applications Shaft Extensions Torsional Calculations & Maximum Deflection Specification Importance Typical Field Failures and Issue. Considerations for Specification Creation	E/O E/O E E/O E
3:00 - 3:20	Test	
3:30-4:00 Adjourn	Test Review	
Presenter	Bruce James - Experience 34 + years / Inventor- 4 Valve Patents Valve Commissioning & Field Experience 25+ years Associations – AWWA / ISA/WEFTEC / CPSA AWWA C520 Standards Committee member	

Requirements & Information

- Start Time is 8:30am
- Web connection if possible
- Lap top presentation with back up files
- No cell phone use please during the presentations
- Presentations will be provided in the form of PPT
- Hard and soft copies will be provided
- Tests are Mandatory

End of Agenda







