

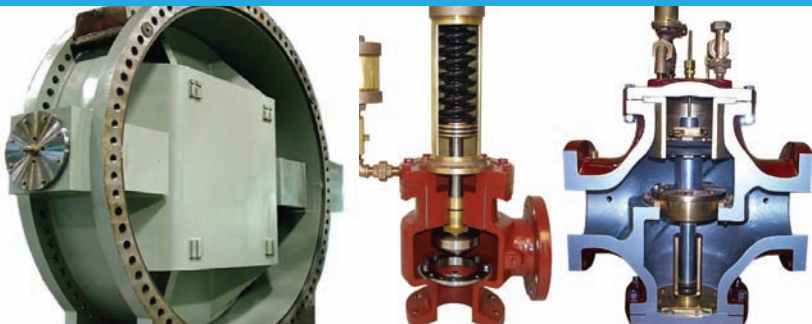
TTR Group Inc.

The Engineered Valve
& Speciality Products Company



Directory of Products & Services

Featured Products



**AWWA & Engineered Products
Project Management and Site Services**

MARKETS

Water • Waste Water • Buried • In-Plant • Power • Industrial



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Valve & Application Solutions for the Municipal, Industrial, Mining and Power Industries

Primary Market Applications



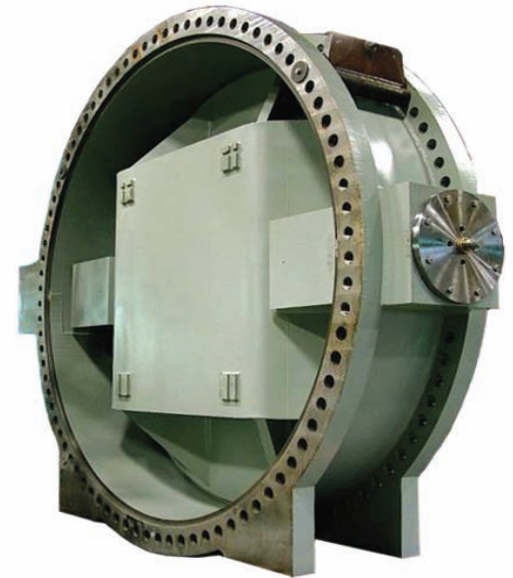
Products

Crispin AWWA Butterfly Valve	AWWA C504
Crispin AWWA Check Valves	AWWA C508
Crispin AWWA Air Valves Water & Sewage	AWWA C512
Ross Piston & Diaphragm Control Valves	AWWA C530
Ross Energy Dissipating Valves	
Ross Vaults	
Romac Couplings AWWA	
American RS Wedge Gate Valves	AWWA C515

	MINING	POWER	WASTEWATER	WATER TREATMENT	DISTRIBUTION	RESERVOIRS	ELEVATED STORAGE	SIZE (in)	SIZE (mm)
Products									
Crispin AWWA Butterfly Valves AWWA	•	•	•	•	•	•	•	3"-168"	75-4200mm
Crispin AWWA Check Valves		•		•		•		3"-72"	75-1800mm
Crispin AWWA Air Valves	•	•	•	•	•	•	•	1/2"-24"	12-600mm
Crispin AWWA Plug Valves	•		•					3"- 24"	75-600mm
Ross AWWA Control Valves	•	•	•	•	•	•	•	1"-48"	25-1200mm
Ross Sewage Relief Valves	•		•					3"-12"	75-300mm
Ross Energy Dissipating Valves		•		•		•		1"-78"	25-1950mm
Romac AWWA Couplings	•	•	•	•	•	•	•	4"-96"	100-2400mm
Romac AWWA Dismantling Joint	•	•	•	•	•	•	•	3"-72"	75-1800mm
Jash Knife Gate Valves	•	•	•	•				2"-48"	50-1200mm
TTR Rectangular Valves			•	•				4"-144"	100-3600mm
TTR Engineered Check Valves						•		8"-66"	200-1650mm
TTR Engineered Butterfly Valves			•					3"-102"	75-2550mm
TTR Mud Valves			•	•				3"-42"	75-1050mm
TTR Site Services	•	•	•	•	•	•	•	3"-30"	75-750mm
American Resilient Seated Wedge Gates -In Plant	•	•	•	•	•	•	•	2"-36"	50-900mm
American Resilient Seated Wedge Gates -Buried				•	•			2"-36"	50-900mm
Safe Operator			•	•	•			n/a	n/a
Jash Slide Gate Valves		•	•	•		•		2.5"-120"	65-3000mm
Valve Design Machining & Fabrication	•	•	•	•	•	•	•	n/a	n/a

TTR Group Inc.

The Engineered Valve
& Speciality Products Company





Directory of Products & Services

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Our Services

Are backed with proven expertise and extensive experience, which include:

- Design, Field Service and Site Commissioning support
- Specifications and Engineered Drawings for specialty engineered products
- Product Pre-Installation Training
- Unbiased Specification Assistance
- Field Service on New Installations
- Full Design and Machining Capabilities
- Site Commissioning: Valve & Actuators
- Field Service Analysis of existing installations
- System Application Analysis and recommendations
- Manufacturing of Engineered Valves & Specialty Items

Our Engineered Products

- Shaft Extensions
- Rod Extensions
- Free Standing Torque Tubes
- Pipe Supports and Saddles
- Butterfly Valves & Automation
- Counterweighted Turbine Isolation Valves
- NSF Ball Valves
- AWWA Knife/Slide Gate Valves & AWWA large diameter rectangular valves
- Metal Seat Zero Leakage Butterfly Valves 100mm (4") - 1950mm (78")
- Metal Seated Zero Leakage High Pressure Ball Valves 100mm (4") - 3000mm (120")
- Design of Specialty Engineered Valves 75mm (3") to 3300mm (132")
- Rectangular Valves
- Specialty Check Valves



Crispin K-Flo Butterfly AWWA C504 Valves

K-FLO BUTTERFLY Valves are used to control the flow of water in water distribution systems, in water filtration systems and in sewage treatment systems.

With seat-in-body designs in sizes 75mm (3") through 4200mm (168"), K-Flo Butterfly Valves meet and exceed the latest AWWA C504 edition, and are backed by the experience of Crispin Valve, with over 100 years in the water-works industry.



Crispin Series 500 Butterfly Valve | AWWA C504

Size: 75mm (3") to 500mm (20")

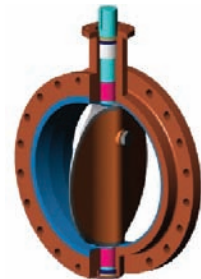
Body Material: Cast Iron, optional Ductile Iron

End Connections: Flanged and Mechanical Joint

Pressure Ratings: AWWA Class 150 & 250B

Features: Bidirectional seating rated for 200 PSIG standard on 150 PSIG rated valves, One piece through stem, Full encapsulated vulcanized seat

Coating: NSF Epoxy / Fusion Bonded



Crispin Series 500

Crispin Series 47 Butterfly Valve | AWWA C504

Size: 600mm (24") to 2400mm (96")

Body Material: Cast Iron, Ductile Iron

Disc Material: Ductile Iron, Stainless Steel Edge

End Connections: Flanged and Mechanical Joint

Pressure Ratings: 150 and 250 PSIG

Features: Adjustable & Retained Packing options

Coating: NSF Epoxy / Fusion Bonded



Crispin Series 47

Crispin L2 Butterfly Valve | AWWA C504

Size: 600mm (24") to 4200mm (168")

Body Material: Cast Iron

Disc Material: Cast Iron, optional Ductile Iron

End Connections: Flanged and Mechanical Joint

Pressure Ratings: AWWA Class 150 & 250B

Features: Recessed trunion incorporated packing retaining device, Full encapsulated recessed seat mechanically retained, Bidirectional adjustable, Non-metallic journal bearings & dual thrust bearings, High capacity low pressure drop flow through disc starting at 600mm (24")

Coating: NSF Epoxy / Fusion Bonded



Crispin L2



Crispin Tilting Disc Check Valve | TD Series

Size: 150mm (6") to 150mm (60")
Body Material: Cast Iron, Ductile Iron
Disc Material: Ductile Iron
End Connections: 150# Flanges
Pressure Ratings: ANSI 125, 250 and 300
Typical Applications: Pump Protection, Pump Discharge, Minimum Head Loss
Coating: NSF Epoxy / Fusion Bonded



Crispin Tilting Disc Check Valve

Crispin Rubber Flapper Check Valves | RF Series

Size: 50mm (2") to 600mm (24")
Body Material: Ductile Iron
Flapper Material: Buna-N Rubber Steel Reinforced
End Connections: 150# Flanges
Pressure Ratings: ANSI 150 and ANSI 300
Typical Applications: Water Treatment Plants, Wastewater Treatment Plants, Sludge
Options: Dashpot, Indicators, Limit Switches
Coating: NSF Epoxy / Fusion Bonded



Crispin Rubber Flapper Check Valve

Crispin Globe Check Valves

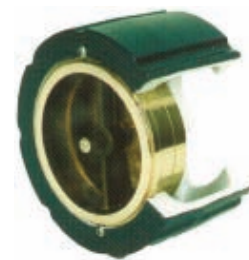
Size: 65mm (2 1/2") to 900mm (36")
Body Material: Cast Iron Body, Bronze Trim and Stainless Steel Spring
Temperature: 150°F (65°C)
Typical Applications: Mounted vertically or horizontally, these valves are designed to close before the pump stops completely, preventing flow reversal, and eliminating water hammer and system surges
Features: Fully Automatic, Spring-loaded, Double-guided
Coating: NSF Epoxy / Fusion Bonded



Crispin Globe Check Valve

Crispin Wafer Silent Check Valves

Size: 50mm (2") to 250mm (10")
Body Material: Cast Iron Body, Bronze Trim with Stainless Steel Spring, Buna-N Seal available
Pressure Ratings: ANSI Class 125 and Class 250
Temperature: 150°F (65°C)
Typical Applications: Same operating principle as the Globe Check Valve, but offered in a configuration that allows placement between two flanges
Features: Fully Automatic, Spring-loaded, Double-guided.
Resilient seats highly recommended for potable water or drip tight applications
Coating: NSF Epoxy / Fusion Bonded



Crispin Silent Check Valve



Crispin Foot Valves

Size: 50mm (2") to 900mm (36")
Body Material: Cast Iron, Ductile Iron
Disc Material: Bronze Disc, Stainless Steel Disc with Buna Seat
Valve Screen: Stainless Steel
Typical Applications: Pump Suction. These valves are silent and center guided; include a Buna-N seal for a drip tight seal.
Features: Maintains Pump Prime on Pump Outage, Full Flow Area, Resilient Seat for Positive Shut-off
Coating: NSF Epoxy / Fusion Bonded



Crispin Foot Valve

Crispin Air Relief Vacuum Valves

Size: 12mm (1/2") to 400mm (16")
Body Material: Cast Iron
Float Material: Stainless Steel
Seat Material: Buna-N
End Connections: NPT, Flanged 125#
Pressure Ratings: Up to 300 PSIG
Typical Applications: Pressure Relief, Pump Protection
Coating: NSF Epoxy / Fusion Bonded



Crispin Air Relief Vacuum Valves

Crispin Air and Vacuum Valves

Sewer Products

- Air and Vacuum Sewer Valve (S Series)
- Pressure Sewer Air Release Valve (SL Series)
- Combination Sewer Valve (S/SL Series)
- Universal Sewer Air Release Valve (US Series)
- Fabricated Universal Sewer Valve (FUSB Series)
- PVC Sewer Valve (PVC Series)
- Air Valve (X Series)

Coating: NSF Epoxy / Fusion Bonded



Crispin Air and Vacuum Valves

Crispin Eccentric Plug Valves | AWWA C517

Size: 65mm (2 1/2") to 600mm (24")
Body Material: Cast Iron, optional Ductile Iron
Plug Material: Ductile Iron with Buna-N Coating, Round Port Design
Seat Material: Welded Nickel
End Connections: Flanged and MJ, Rubber Lined
Pressure Ratings: 125 and 150 per AWWA
Typical Applications: Water and Wastewater Treatment Plants



Crispin Eccentric Plug Valves



Ross Control Valves | Self-Piloted Pressure Reducing Valves

Pressure Reducing / Sustaining / Relief

Size: 12mm (1/2") to 900mm (36")

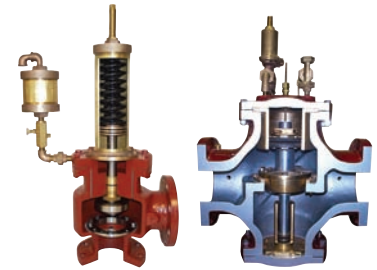
Body Material: Cast Iron

Trim Material: Bronze, 316 Stainless Steel

End Connections: Union, NPT, Flanged

Pressure Ratings: Maximum 300 PSI

Typical Applications: Pressure Reducing, Surge Control Water and Wastewater, Wastewater Relief, Pump Control, Altitude



Ross Control Valves

Ross Anti-Cavitation Valves

Size: 75mm (3") to 600mm (24")

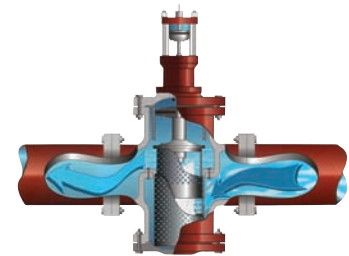
Body Material: Cast Iron

Sleeve Material: Stainless Steel

End Connections: Flanged

Pressure Ratings: Up to 600 PSI

Typical Applications: Anti-Cavitation, Energy Dissipating, Pump Control, Chambers, Reservoir Inlet, Elimination of duplicate PRV's in series, Fail Open / Fail Close



Ross "Water Tamer"

Ross MOV Energy Dissipating Valve

Size: 100mm (4") to 2250mm (90")

Body Material: Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel

End Connections: Wafer, Flanged

Seat Material: AISI 420 Stainless Steel, RC 40-50

Pressure Ratings: ANSI 150 and 300, High Delta P

Typical Applications: Environmental By-Pass Systems, Reservoir Inlet, Water Supply Systems, Industrial Flow Cooling, Tank or Free Flow Discharge

Features: Reduced Face-to-Face, Minimum Leakage Capabilities, Capable Flow Reversal and assembled using Dielectric Components



Ross MOV

Ross Pre-Packaged Vaults

Pre-fabricated and factory-tested valve vaults for municipal and industrial applications. Custom or standard build.

- Heavy duty construction and NSF epoxy coating throughout
- Designed for ease of use and ease of maintenance
- All valve assemblies are factory-tested prior to delivery for trouble-free start ups
- Pre-cast concrete is poured and cured in a controlled environment, ideal for installations where terrain, traffic, or weather prevent cast-inplace solutions

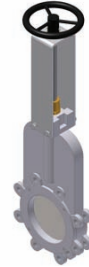


Ross Pre-Packaged Vaults



Jash Knife Gate Valves

Size: 50mm (2") to 2250mm (90")
Body Material: 316 Stainless Steel
Disc Material: 316 Stainless Steel
End Connections: Flanged
Seat Material: Metal, Resilient Seated, Bidirectional
Pressure Ratings: 150 PSIG, Other pressure ratings available on request
Typical Applications: Water, Wastewater, Mining, Slurries



Jash Knife Gate Valve

American Resilient Wedge Gate Valves | AWWA C515

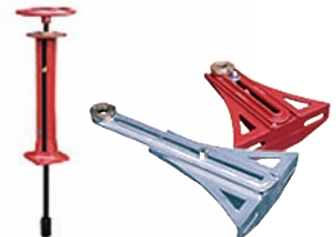
Size: 50mm (2") to mm (66")
Body Material: Ductile Iron
Bonnet Material: Ductile Iron
Stem: Stainless Steel Non-Rising Stem
Pressure Ratings: 250lb non-shock cold working pressure
Features: Fusion Bonded Epoxy Coating, Stainless Trim
 Available with op-nut or handwheel
Coating: Fusion Bonded Standard In & Out



American RW Gate Valve

TTR Engineered Products

- Shaft Extensions
- Rod Extensions
- Free Standing Torque Tubes
- Pipe Supports and Saddles
- Counterweighted Turbine Isolation Valves
- NSF Ball Valves



TTR Engineered Products

Jash Flap Gate

Size: 150mm (6") to 2400mm (96") Round | 300mm (12") x 300mm (12") to 3000mm (120") x 3000mm (120") Square and Rectangular
Gate Material: Cast Iron, Ductile Iron
Seat Material: Cast Iron, Rubber, Bronze, Monel
Typical Applications: Flood Control, Sewage Treatment Plants, Water Treatment Plants, Waste Lines, Pump Discharge Control, Drainage System, Sewer Outfalls



Jash Flap Gate



Jash Heavy Duty Fabricated Slide Gate

Size: 150mm (6") x 150mm (6") to 1800mm (72") x 1800mm (72")
Square or Rectangular
Gate Material: Carbon Steel, Galvanized Carbon Steel, Stainless Steel
Head Pressure: Seating 55', Unseating 20', Flush Bottom Seals
Typical Applications: Water Treatment Plants, Wastewater Treatment Plants, Low Head Reservoir, Power Plants, Rising / Non-Rising



Jash Fabricated Slide Gate

Jash Cast Iron Slide Gate

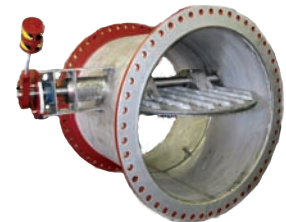
Size: 300mm (12") x 300mm (12") to 1800mm (72") x 1800mm (72") Square,
300mm (12") x 600mm (24") to 1800mm (72") x 70" Rectangular
Gate Material: Carbon Steel, Galvanized Carbon Steel, Stainless Steel
Head Pressure: Seating 55', Unseating 20'
Typical Applications: Water Treatment Plants, Wastewater Treatment Plants, Flood Control, Fabrication, Drainage Systems, Low Head Reservoir, Power Plants, Rising / Non-Rising



Jash Cast Iron Slide Gate

TTR Engineered Check Valve

Size: 100mm (4") to 1800mm (72")
Body Material: Carbon Steel, Stainless Steel
End Connections: Wafer, Flanged
Seat Material: Metal to Metal
Pressure Ratings: 150 PSIG
Leakage Rating: Class I through Class IV
Typical Applications: Reservoir Recirculation, Replaces Tilting Disc or Standard Check Valves on Custom Applications, Patented Seal System



TTR Engineered Check Valve

TTR Engineered Butterfly Valve: Round & Rectangular Applications

Size: 100mm (4") to 2250mm (90")
Body Material: Carbon Steel, Aluminum, 316 Stainless Steel, Specialty Metals and Coatings
End Connections: Wafer, Lug, Flanged. Various Face-to-Face Dimensions
Pressure Ratings: 15 PSIG, Class I - VI, Leakage Rates, Bubble Tight
Temperature Rating: -40°F (40°C) to 2300°F (1260°C)
Typical Applications: Aeration, Air Handling, Blower, Bio-Gases.
Rectangular Applications: Channels, Reservoirs and Filters
Features: Five Seat Styles, Resilient / Teflon, Patented Packing Design, External Bearings, Custom Dimensions



TTR Engineered Butterfly Valve



Praher PVC Valves

Size: 8mm (3/8") to 300mm (12")
Body Material: PVC, CPVC
End Connections: Socket, Threaded
Pressure Ratings: 150 PSIG
Typical Applications: Chemical Feed, Raw Water Intake, Irrigation
Valve Types: Ball, Butterfly, Relief, Check. Manual and Automated.



Praher PVC Valves

Romac Couplings | Dismantling Joints

Size: 12mm (1/2") to 2400mm (96")
Body Material: Cast Iron, Steel and Stainless Steel
End Connections: Various pipe materials
Seals: Elastomer NSF Buna / EPDM
Pressure Ratings: Up to 500 PSI
Typical Applications: Repair Clamps, Couplings, Dismantling Joints, Pipe End Connectors
Coating: Fusion Bonded Standard In & Out



Romac Dismantling Joint

Proco Rubber Check Valves

Size: 25mm (1") to 2400mm (96")
Body Material: All rubber construction resists abrasive slurries
End Connections: Flanged, Sleeved, or Jacketed
Typical Applications: Sewage Treatment Plants, Outfalls and Tidal Operations
Features: Very quiet operation with no water hammer, its unique design prevents backflow, Negligible maintenance and energy costs, Will not warp or freeze, Quick interchange with any flap type check valve, Available with special I.D. to suit concrete pipe.



Proco Rubber Check Valves

SafeOperator

Remote mechanical valve control. Flexible shaft system.

- Safe and convenient operation. A single flexible drive cable makes routing and fixing a simple operation. Manual or electric operation.
- Easy to install - up to 75% quicker than a rigid rod system; easier than electric actuators
- Fully enclosed system
- Little or no maintenance costs
- Designed for rotary power transmission. Rotary to rotary system.



SafeOperator



TTR Municipal Corporate Products

Manufactured or Distributed

Includes Manual / Electrical / Pneumatic and Hydraulic Actuation for Rotary and Linear Devices

Site Installation Supervision and Commissioning by TTR



Valve & Application Solutions for the Municipal, Mining & Power Industries

Application	Manufacturer	Product Type	Product Description	*AWWA Standard	Specifications
Water-In-Plant				*Conforms to	
Water Filtration	Crispin	AWWA Butterfly Valve	Manual & Automated	AWWA C504	Yes
Water Filtration Backwash	Romac	Couplings	Color Coded 500	AWWA C219-11	Yes
Treated Water	Romac	Dismantling Joints	DJ400	AWWA C219-11	Yes
Raw Water Intake	TTR	Engineered Torque Tubes	Free Standing Extensions	Engineered	Yes
High & Low lift Pumps	TTR	Shaft Extensions & Pedestals	Shaft Extensions over 10 M	Engineered	Yes
Booster Pumps	TTR	Rod Extensions & Couplings	Vertical & Angled	Engineered	Yes
OEM Filter Equipment	Elliott Manufacturing	Safety Operator	Remote Operation	Confined Space	Yes
	TTR	Mud Valves	Custom Design & Sizes	Engineered	Yes
	TTR	Automated Resilient Seated BFV	Full Automation Packages	ISO & MSS-SP67	Yes
	Ross	Pump Control Valves	Electrically Operated Piston	AWWA C530-07	Yes
	American	Gate Valves RSWG	Resilient Seated Gate NRS	AWWA C515-09	Yes
	Jash	Knife Gate Valves	Flanged Standard & Bonneted	AWWA C520 -10 & MSS-SP81	Yes
	Crispin	Swing Check	Outside Lever & Weight	AWWA C508	Yes
	Crispin	Tilting Disc Check	Flanged Check with Dashpot	AWWA C508	Yes
	Crispin	Flapper	Rubber Flapper Check Flanged	AWWA C508	Yes
Water - Distribution					
Pipeline	Crispin	Vacuum Air Relief	NPT & Flanged	AWWA C512-07	Yes
Chambers & Vaults	Ross Valve	Pressure Reducing / Sustaining	Self Piloted Piston	AWWA C530-07	Yes
Direct Bury	Crispin Valve	AWWA Butterfly Isolation	Manual & Automated	AWWA C504	Yes
	TTR	ANSI Class 150/300 Metal Seated	Triple Offset HPBFV	ANSI Rated	Yes
	American	Gate Valves RSWG	Flanged & MJ NRS	AWWA C515-09	Yes
	Romac	Couplings	Color Coded 500	AWWA C219-11	Yes
	Romac	Dismantling Joints	DJ400	AWWA C219-11	Yes
	TTR	Rod Extensions & Couplings	Vertical & Angled	Engineered	Yes
	Crispin	AWWA Butterfly MJ Direct Bury	Flanged & MJ	AWWA C504	Yes
	American	Gate Valves RSWG MJ Direct Bury	Resilient Seated Gate NRS	AWWA C515-09	Yes
Water - Reservoirs					
Reservoirs					
Elevated Storage Tanks	Praher	Automated PVC Valves	Ball, Check, Butterfly		Yes
Clearwells	Crispin	Vacuum Air Relief Valves	NPT & Flanged Combination	AWWA C512-07	Yes
Pressure Filters	Romac	Couplings	Color Coded 500	AWWA C219-11	Yes
Pump Priming	Romac	Dismantling Joints	DJ400	AWWA C219-11	Yes
Chemical Feed	Crispin	Swing Check	Outside Lever & Weight	AWWA C508	Yes
	Crispin	Silent Check	Wafer Style Body	AWWA C508	Yes
	Crispin	Tilting Disc Check	Flanged Check with Dashpot	AWWA C508	Yes
	Crispin	Flapper	Rubber Flapper Check Flanged	AWWA C508	Yes
	Jash	Knife Gate Valves	Flanged Standard & Bonneted	AWWA C520 -10 & MSS-SP81	Yes
	TTR	Deflector Valves	Flanged Custom Check Valves	Engineered	Yes
	Elliott Manufacturing	Safety Operator	Confined Space Operation	Engineered	Yes
	Crispin	Foot Valves	Flanged & Screened	AWWA C512 & AWWA C508	Yes
	TTR	Rectangular Valves	Custom Rect Butterfly Valves	Engineered	Yes
Water - Pump Control					
Pressure Reducing Valve	Ross	Surge Relief Valve	Self / Piloted Hydraulic Relief	AWWA C530-07	Yes
Flow Control Valves	Crispin	Vacuum Air Relief	NPT & Flanged	AWWA C512-07	Yes
Surge Anticipating Valve	Ross	Pressure Reducing Sustaining Valve	Self Piloted Piston	AWWA C530-07	Yes
Pump Check	Ross	Pump Check Control	Self Piloted Piston	AWWA C530-07	Yes
Back Pressure Sustaining	Ross	Altitude Valve	Self Piloted Piston	AWWA C530-07	Yes
High Head Velocity	Ross	Energy Dissipating	Multi Orifice Modulating	Engineered	Yes
	Crispin	Tilting Disc Check Valve	Flanged Check with Dashpot	AWWA C508	Yes
	Crispin	AWWA Butterfly Valve	Flanged & MJ	AWWA C504	Yes



TTR Municipal Corporate Products

Manufactured or Distributed

Includes Manual / Electrical / Pneumatic and Hydraulic Actuation for Rotary and Linear Devices

Site Installation Supervision and Commissioning by TTR



Valve & Application Solutions for the Municipal, Mining & Power Industries

Application	Manufacturer	Product Type	Product Description	*AWWA Standard	Specifications
Wastewater - Raw Sewage					
Raw Sewage Pump Discharge Booster Pumps	Crispin	Flapper Valve	Rubber Flapper Check Flanged	AWWA C508	Yes
	Crispin	Plug Valve	Full Port Flanged	AWWA C517	Yes
	Jash	Knife Gate Valve	Flanged Standard & Bonneted	AWWA C520 -10 & MSS-SP81	Yes
	Ross	Sewage Control Valve	Self \Piloted Hydraulic Relief	AWWA C530-07	Yes
	Crispin	Vacuum Air Release	NPT & Flanged	AWWA C512-07	Yes
	Ross	Sewage Relief Valves	Self \ Piloted Hydraulic Relief	AWWA C530-07	Yes
	Ross	Slide Gate Valve Cast Iron	Wall & Thimble Mounted	AWWA C560-07	Yes
	Ross / TTR	Slide Gate Fabricated	Wall & Thimble Mounted	AWWA C561-12	Yes
	Ross / TTR	Flap Valve	Fabricated / FRP	AWWA C561-12 / AWWA 563-12	Yes
	Romac	Dismantling Joints	DJ 400	AWWA C219-11	Yes
American	Gate Valves RSWG	Resilient Seated Gate NRS	AWWA C515-09	Yes	
Wastewater - Sewage Force Mains					
Force Mains	Ross	Sewage Relief Valves	Self / Piloted Hydraulic Relief	AWWA C530-07	Yes
	Ross	Sewage Control Valves	Self / Piloted Hydraulic Relief	AWWA C530-07	Yes
	Crispin	Sewage Combination Valves	X Series ST ST	AWWA C512-07	Yes
Wastewater - Pump Suction / Discharge					
Suction Side of Pumps	Crispin	Plug Valves	Full Port Flanged	AWWA C517	Yes
	Jash	Knife Gate Valves	Flanged Standard & Bonneted	AWWA C520 -10 & MSS-SP81	Yes
Wastewater - Air & Bio Gas					
Aeration Systems Bio Gas Systems Discharge Odor Control Blower Systems	TTR	Engineered Butterfly Valves	Flanged Metal & Resilient Seated	ISO 5752	Yes
	TTR	Resilient Seated Butterfly Valves	Resilient Seated Wafer & Lug	ISO 5752	Yes
	TTR	High Performance Butterfly Valves	Soft Seated HPBFV Wafer & Flgd	ANSI / ASME	Yes
	Crispin	Check Valves	Silent Check	AWWA C508	Yes
	Romac	Dismantling Joints	DJ400	AWWA C219-11	Yes
	Romac	Couplings	Color Coded 500	AWWA C219-11	Yes
	Crispin	Flapper Check	Rubber Flapper Check Flanged	AWWA C508	
	Crispin	AWWA Butterfly Valve	Manual & Automated	AWWA C504	
Wastewater - Influent / Effluent					
Inlet Digesters Primary Secondary	Jash	Knife Gate Valve	Flanged Standard & Bonneted	AWWA C520 -10 & MSS-SP81	Yes
	Crispin	Plug Valve	Full Port Flanged	AWWA C517	Yes
	Romac	Couplings	Color Coded 500	AWWA C219-11	Yes
	TTR / Ross	Fabricated Slide Gates	ST ST / FRP	AWWA C561-12 / AWWA 563-12	Yes
	TTR	Resilient Seated Butterfly Valves	Manual & Automated Wafer / Lug	ISO 5752	Yes



Over 100 Years of Product Experience



• **Crispin K-Flo Butterfly Valves**
Established 1979
Offers two AWWA designs



• **Crispin Valves**
Established 1902
Originators of the Air Relief Valve



• **Ross Valve**
Established 1879
Originators of the Self-piloted Control Valve



• **Jash**
Founded in 1948
Over 50 years in water control systems



• **American Flow Control**
Founded in Birgmingham, Ala. in 1905.
Offers AWWA Ductile Iron Gate Valves (Resilient Wedge)



• **Praher Valves**
Incorporated in Canada in 1986.
Suppliers to leading global corporations



• **Romac Industries, Inc.**
Established 1990



• **Proco Products**
Operates worldwide. Offers most complete line of rubber and PTFE pressure piping joints and check valves.



• **TTR Group Inc.**
Established 2009
Over 30 years of valve design and field service experience

COMMITMENT TO OUR CUSTOMERS & INDUSTRY

TTR has combined quality products manufactured in North America selecting originators of these products as early as 1879 that exist today as leaders and role models in the Markets and Industry today. TTR has combined these products as a package with our speciality Engineered Products Division to meet the requirements of many applications within the same project culminating the advantages of established proven quality engineered products with over 70 years of combined field service and site commissioning experience.

Products & Services – AWWA Compliant and NSF



Products

Valve and Full Electric / Pneumatic / Hydraulic and Electro Hydraulic Automation \ Packages for In-Plant and Submerged Service

Engineered Speciality Products

- Energy Dissipating Valves and Systems / AWWA Knife Gate Valves
- Counterweighted Turbine Isolation
- Torque Tubes / Shaft Extensions / Rod Extensions

AWWA Valves

Butterfly /Resilient Seated Wedge Gate /Knife Gate / Air and Sewage Relief Globe, Silent, Tilting Check Self Piloted Control / Slide / Plug / Ball

Services - 35 Years Experience

Speciality Engineered Products / Design and Manufacturing Capabilities / FEA and CFD modelling Support / Unbiased Specification Assistance / Field Service Analysis and Support / Site Commissioning / 3rd Party Inspection / Confined Space Certified

Continuing Education Courses

OWWCO - Director Approved Training Course

TTR Training Course Name - AWWA C504 Butterfly Valves & Actuators

Follow <http://www.owwco.ca> Course ID 8733. Page 228

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Established 2009

ASSOCIATIONS

