

2022

OIL SANDS CAPABILITIES

DRIVING CUSTOMER VALUE



JANUARY 2022

ENERGY COMPANIES & ENGINEERING FIRMS

OIL SANDS MINING & IN SITU / ALBERTA

The team at Summit are excited to provide you with our 'Oil Sands Capabilities' for 2022. Several new or enhanced capabilities have been introduced, providing clients with greater value as they navigate their valve, automation, and instrumentation requirements.

Our equipment and services are designed to maximize business profitability by increasing productivity, reliability, and simplicity; all while reducing capital, operating, and maintenance costs. Please let this document serve as a resource to support your requirements.

Driving value is what we're about! We look forward to partnering with you now, and in the future.

Sincerely,

Sean Albers, P.Eng.

Industry Specialist, Oil Sands

Don Hope

Sales Manager

Dave Robinson, C.E.T.

President

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PRODUCTS & SERVICES



SUMMIT SERVICE GROUP

The Summit Service Group is led by Mike Serediak, our Technical Service Manager. Mike is a Dual Red Seal Journeyman Electrician & Instrumentation (RSE), and a Radiation Safety Officer (RSO). With 27 years of experience, Mike's primary focus is taking care of our customers.

- Field/shop service and support.
- Repair of all valves, automation, and instrumentation.
- Commissioning, trouble shooting, repair, calibration, and training.
- Summit is the authorized Ronan nuclear device repair centre for western Canada.

CONTROL VALVES (SLURRY SPECIFIC)



SlurryFlo Control Valves

- The ultimate slurry control valve.
- Developed to withstand harsh process conditions in the oil sands, SlurryFlo provides outstanding wear resistance, performance, and durability.



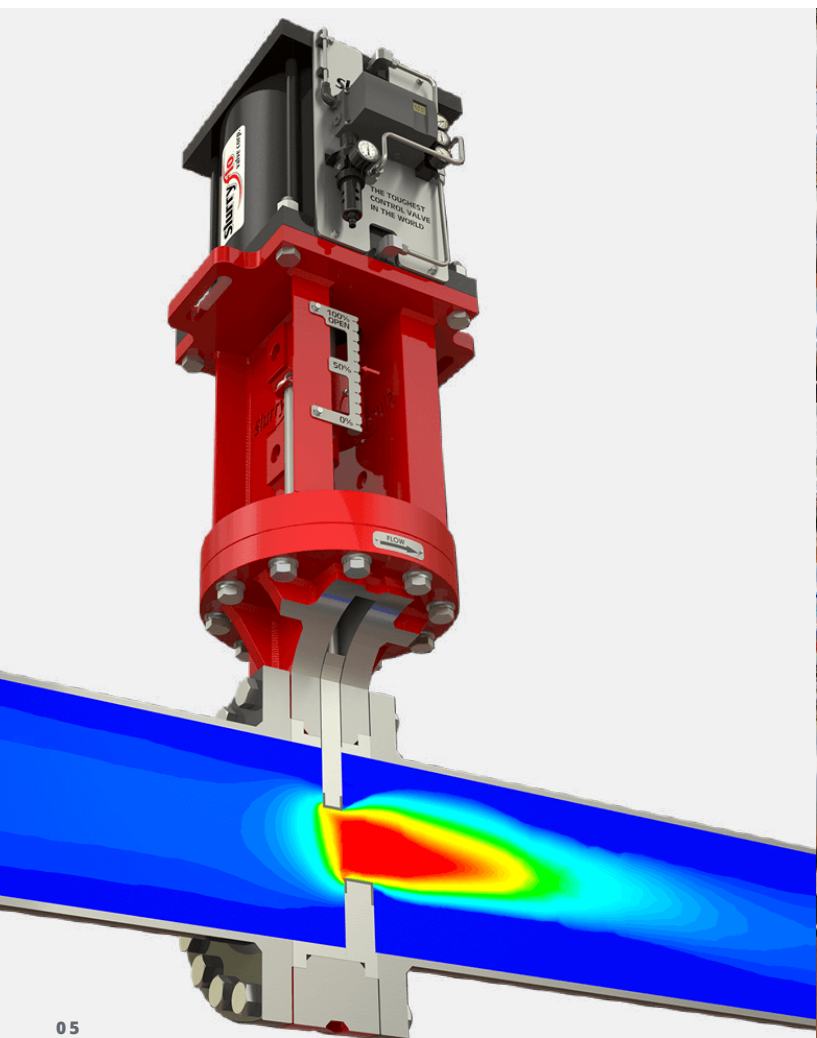
Red Valve Pinch Valves

- For controlling abrasive media.



Bray S39 Ceramic Lined Butterfly Valve

- For controlling abrasive media.





WEY Knife Gate Valves

- Over 13,500 WEY installations in the oil sands since 1999 (2"-48", high pressure MSS-SP-135, ASME 150/300). Severe service two piece body design.
- Corporate headquarters are in Switzerland, with North American manufacturing in Shannon, Mississippi.
- WEY valves are stocked at Summit in Edmonton, with rapid delivery options.



Oreacle Knife Gate Valves

- Severe service knife gate valves with uni-body fabrication (2"-48", high pressure MSS-SP-135, ASME 150/300).
- Manufactured in Canada (by Special Alloy Fabricators), with local engineering support.
- Well suited for specialty custom engineered valve requirements.

NOTE: For lower pressure MSS-SP-81 knife gate valves, Summit represents **Bray, Oreacle, Red Valve, and WEY.**



API6D BALL VALVES (ON/OFF, ESDS AND SWITCHING)

Summit's API6D automated and manual ball valves are used extensively in the oil sands for Emergency Shut Down (ESD) systems, Production Emulsion Switching, and many more applications. Suitable for DBB, DIB1, DIB2 in ASME 150-2500 pressure classes.



Val-Matic Quadrosphere

- API6D full-port trunnion ball valves for severe service.
- Self-cleaning design.



Della Foglia

- API6D full-port trunnion ball valves.
- Soft and metal seated.
- Made in Italy.

NOTE: Ball valves can be automated with Rotork, Bray and Cowan actuators, and with Topworx, Parker, Asco, Bifold and Fisher accessories.

TRIPLE OFFSET VALVES

Bray Trilok Triple Offset Valves

- The ultimate critical service Isolation valve.
- Tight shut-off capabilities, light weight, field repairable, and torque seated.

NOTE: Bray is a leader in triple offset valves, butterfly valves, ball valves, check valves, automation, and controls. Summit stocks a large inventory of high-performance Bray products.



INSTRUMENTATION (FLOW, PRESSURE, TEMPERATURE, TDLS, RADIOMETRIC)



YOKOGAWA 
Co-innovating tomorrow™

Yokogawa

- Field instruments for pressure, flow, temperature, TDLS analyzers and more.
- Yokogawa is a leader in measurement equipment and recognized worldwide for 'Co-innovating tomorrow'.

 **RONAN**
ENGINEERING COMPANY

Ronan Engineering Company

- Radiometric (nuclear) is a safe and effective non-contact method for measurement in harsh process environments.
- Applications include continuous level, point level, interface level/density, continuous weight measurement, density, and mass flow.

NOTE: For a complete line of Summit instrumentation products, please visit:
www.summitvalve.com/products/instrumentation



HYDRAULIC POWER UNITS (HPU)

PEAK

- Summit was a feature HPU presenter at the 'Edmonton ISA/AEC Automation Expo' in 2020.
- 23 years of HPU design experience with installations at Suncor, Fort Hills, Kearl, CNRL, Syncrude, and TransAlta.
- Several Summit clients have made PEAK their HPU site standard.
- People trust PEAK for their proven and reliable HPU solutions.

rotork®

Rotork

- Electric, pneumatic, and hydraulic actuators and controls.
- Rotork is globally renowned for their innovative and reliable automation solutions.
- Stocked in Edmonton.

cowan dynamics

Cowan Dynamics

- Pneumatic, hydraulic, and electro-hydraulic cylinders and control systems.
- Specialists in heavy-duty 'fail last', and 'fail closed' automation solutions.
- Cowan is proudly manufactured in Canada, and is a proven and trusted supplier.
- Check out the Cowan E2H electro-hydraulic technology demo at: www.summitvalve.com/cowan-dynamics-e2h-demo



Bray

Bray Controls

- Pneumatic (rack and pinion, scotch yoke) and electric actuators, limit switches, positioners, solenoids, and accessories.
- Bray is a global leader in automation.
- Stocked in Edmonton.

TOPWORX

Topworx

- Industry leader in discrete valve control and GO™ switch position sensing for process industries.
- Stocked in Edmonton.



SlurryTuff

- Slurry air release valves and check valves; for your most demanding services.



Cla-Val

- Automatic control valves for utility water systems and fire protection.



RocketPlates

- Custom engineered orifice plates for pressure reduction and flow restriction.



ArmaSpool

- Heavy-duty wear resistant pipe spools for extreme wear protection.



NOTE: For a complete list of all products that are sold and serviced by Summit Valve, please visit our website at: www.summitvalve.com



SUMMIT 30TH ANNIVERSARY

It's been said that "great people create great companies", we wholeheartedly believe this. Today, we operate 5 locations across Western Canada, and our team represents 25+ valve, automation, and instrumentation product lines. So much has changed over the years... however, we are still family-owned and operated, and proud to be Canadian.

In 1992, we believed in 'delighting the customer', a value we continue to embrace in 2022. February 14th, marks **30 YEARS** of appreciating our clients, partners, colleagues, friends, and family. It's because of you that we're celebrating our 'pearl' anniversary. **Thank you for being the reasons for our success.**









MERGER ANNOUNCEMENT SLURRYFLO & SAF

SlurryFlo Valve Corp. ('SlurryFlo') and **Special Alloy Fabricators** ('SAF') have signed a Definitive Merger Agreement. This merger joins SlurryFlo's design and engineering excellence with SAF's world class manufacturing expertise. These two companies have long worked as one, with a shared vision of producing the toughest control valves in the world. Over the years, the portfolio has expanded to include various custom engineered valves and fittings for severe service.

The SlurryFlo and SAF relationship began in 2004, when SlurryFlo's control valve technology was being invented, tested, and patented. It has been an effective and harmonious relationship. See the complete announcement here: www.specialalloyfab.com/merger-announcement

Please update your '**Approved Manufactures Lists**' to reflect the following SAF product brands:

MANUFACTURER	BRANDS
 SPECIAL ALLOY FABRICATORS	 SlurryFlo (Control Valves)
	 Oreacle (Knife Gate Valves)
	 RocketPlates (Orifice Plates)
	 ArmaSpool (Pipe Spools)
	 SAF (Custom Fabricated Valves)

CARMELA INDUSTRIES (PARENT COMPANY TO SUMMIT & SAF)



Prior to 2022, Carmela Industries was a numbered corporation operating behind the scenes. Carmela is the parent company for **Summit Valve and Controls** (established in 1992), and **Special Alloy Fabricators** (established in 1989).

Carmela is a privately owned enterprise and
proud to be 100% Canadian.





ISO 9001:2015

At Summit, we strive for continuous improvement and safety. Our Quality Management System is in full compliance with ISO 9001:2015 (as audited by SAI Global). We are also accredited with compliance organizations ISNetworld, Comply Works, SAP Fieldglass, and Avetta.

MARIOS CONSORTIUM

Summit is proud member of the 'Materials And Reliability In Oil Sands' (MARIOS) Consortium.

The goal of MARIOS is to develop knowledge and validate technologies that significantly reduce downtime, while improving operational reliability and productivity. The consortium links oil sands producers, materials/equipment suppliers, fabricators, and technology providers to work collaboratively.



GIVING BACK

At Summit We Care; and giving back is part of our culture. Each year, the Summit team supports local and international charities. Our team volunteers in the community, takes part in fund raising, and donates money to worthwhile causes.

2018: Raised funds with 'Expand Hope' to build a school for children in rural Guatemala.

2019: Volunteered and supported our local 'Food Banks' to help with community needs all across Western Canada.

2020: Supported 'Youth Empowerment and Support Services' (YESS) in Edmonton, Alberta.

2021: Supported 'Canuck Place Children's Hospice' in Vancouver, British Columbia.

2022: Supporting Indigenous Women's Healing Centre in Saskatoon, Saskatchewan.

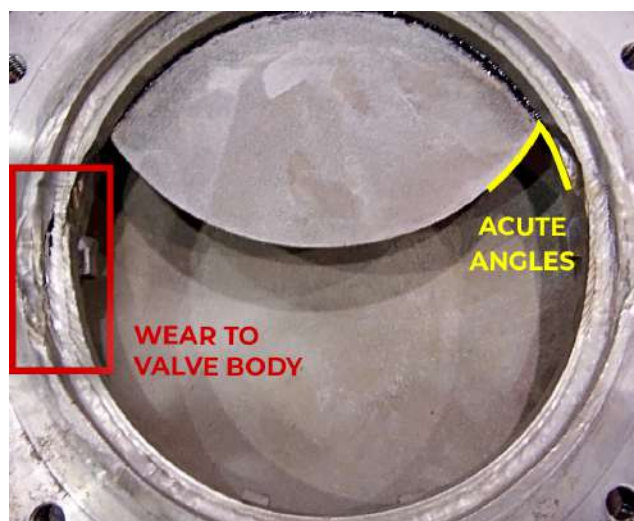


OUR STORIES ('AT SUMMIT WE CARE')

The following two stories illustrate how 'At Summit We Care', and that doing the right thing is always good business.

THE SLURRYFLO INVENTION A BETTER WAY TO CONTROL SLURRY

In 2004, an oil sands client was purchasing 20" knife gate valves from Summit (designed for on/off service), adding a positioner, and using them to modulate middlings withdrawal. The valves lasted only three weeks before wearing through. This was a consistent revenue stream for Summit, however in the interest of our client, we knew there had to be a better long-term solution.



From this situation, the SlurryFlo Control Valve was developed by Michel Leroux, P.Eng.. Several prototypes were tested, improved upon, and eventually patented. The final product featured a unique linear trim geometry, centered flow, and excellent wear materials.

SlurryFlo provided the client with a quantum leap in performance, taking a three-week service life to 104 weeks (2 years). Additionally, only the trim components are exposed to erosive flow; once they do eventually wear out, the parts can be field replaced to reset the service life clock.

Today, the innovative SlurryFlo technology is provided to clients around the world. **Doing the right thing is good business!**



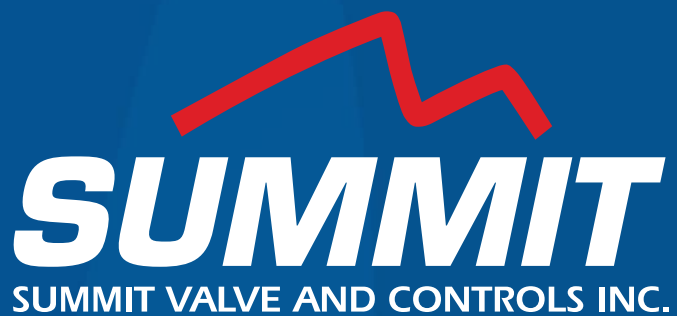
COMPLEMENTARY ADVICE THAT SAVED \$10,000

In 2001, the founder of Summit, Roy Raftis, provided some advice to a mechanical contractor regarding a valve installation at a water treatment plant. It was an innovative but simple idea the contractor had not thought of.

In the end, the advice saved the contractor and their client over \$10,000. As a gesture of appreciation, the contractor sent over a cheque for \$250 with a thank you card stating they wanted the Summit staff to enjoy Christmas lunch.

We had our lunch; however, Mr. Raftis never cashed the check. Rather, he framed it as a reminder of the wonderful clients we get to work with in this business. It's often the simplest things that garner trust and loyalty. Once again, **doing the right thing is always good business!**

NOTE: The team at Summit have many more stories... and we're working hard to create new ones every day with you. **At Summit We Care.**



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