



OIL SANDS CAPABILITIES

DRIVING CUSTOMER VALUE



SUMMIT
SUMMIT VALVE AND CONTROLS INC.

JANUARY 2023

ENERGY COMPANIES & ENGINEERING FIRMS

OIL SANDS MINING & IN-SITU / ALBERTA

The team at Summit is pleased to provide you with this 'Oil Sands Capabilities' document. Several new or enhanced capabilities have been introduced, providing clients with greater value as they navigate their valve, automation, and instrumentation requirements.

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.

Summit is growing! In the spring, we moved our Edmonton headquarters into a new 57,000 square foot facility. This expands our office, training, service, repair, and warehouse space by over three times.

Driving value is what we're about! Please let this document serve as a resource to support your requirements. We look forward to partnering with you now, and in the future.

Sincerely,

Sean Albers, P.Eng.

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Dan Sylvester

Alberta Division Manager
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Don Hope

President

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TECHNICAL & COMMERCIAL CONTACTS

1.1

NEW PRODUCT INQUIRIES AND QUOTATIONS

Email to:

IndustrialRFQ@SummitValve.com
(800) 363-3447

Valves & Automation

Alicia Chapotelle, Chem. Eng.

Lead Applications Specialist

Dinh Le, Instrum. Eng. Tech.

Applications Specialist

Srinivas Velanki, P.Eng.

Applications Engineer

Instrumentation

Ashley Johnston, C.E.T.

Lead Applications Specialist

Dan Loutan, C.E.T.

Applications Specialist

Colton Shott, Instrum. Eng. Tech.

Applications Specialist

1.2

SERVICE INQUIRIES AND QUOTATIONS (FIELD, SHOP AND REPAIR SERVICES/SUPPORT)

Email to:

Service@SummitValve.com
(800) 363-3447

Mike Serediak, RSE Journeyman E&I, RSO

Technical Service Manager
mserediak@summitvalve.com
(780) 660-9681

Shreya Nandiraju, B.Tech.

Technical Services

Mitch Van Beek, C.E.T.

Automation Technician

Chase Smith, Instrum. Eng. Tech.

Field Service Technician

1.3

TECHNICAL INSIGHT (INDUSTRY SPECIALISTS)

Sean Albers, P.Eng.

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Gareth Neufeld, B.Tech.

Field Application Specialist
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(587) 357-1062

Charlie Johnson

Instrumentation Specialist
cjohnson@summitvalve.com
(250) 469-1136

1.4

ORDER SUPPORT (ORDER STATUS, EXPEDITING, AND POST-SALES SUPPORT)

Email to:

OrderConfirmation@SummitValve.com
(780) 468-6900

Brittnee Farley

Purchasing Manager
bfarley@summitvalve.com
(587) 357-0653

Lindsay McNutt

Customer Service Specialist



ACCOUNT MANAGERS

OIL SANDS - MINE SITES

CLIENT SITE	LOCATION OF INQUIRY	ACCOUNT MANAGER	PHONE
CNRL (Horizon)	Alberta	Rob Hadfield rhadfield@summitvalve.com	(403) 404-4509
CNRL/CNUL (AOSP, Albian, Muskeg River & Jackpine)	Alberta	Dave Sinclair dsinclair@summitvalve.com	(780) 918-1159
Imperial Oil (Kearl)	Alberta	Dave Sinclair dsinclair@summitvalve.com	(780) 918-1159
Suncor (Base Plant)	Alberta	Chris Hamelin chamelin@summitvalve.com	(780) 243-0199
Suncor (Fort Hills)	Alberta	Chris Hamelin chamelin@summitvalve.com	(780) 243-0199
Syncrude (Aurora)	Alberta	Chris Hamelin chamelin@summitvalve.com	(780) 243-0199
Syncrude (Base Plant)	Alberta	Chris Hamelin chamelin@summitvalve.com	(780) 243-0199

ACCOUNT MANAGERS

OIL SANDS - IN SITU FACILITIES

CLIENT SITE	LOCATION OF INQUIRY	ACCOUNT MANAGER	PHONE
CNRL (Jackfish, Kirby Lake, Wolf Lake & Primrose)	Calgary, Conklin	Rob Hadfield rhadfield@summitvalve.com	(403) 404-4509
	Bonnyville & Lloydminster	Chris Hamelin chamelin@summitvalve.com	(780) 243-0199
Cenovus (Christina Lake, Foster Creek, Lloyd & Sunrise)	Calgary, Conklin	Rob Hadfield rhadfield@summitvalve.com	(403) 404-4509
	Bonnyville, Fort McMurray & Lloydminster	Chris Hamelin chamelin@summitvalve.com	(780) 243-0199
Imperial Oil (Cold Lake, Grand Rapids & Aspen)	Calgary	Rob Hadfield rhadfield@summitvalve.com	(403) 404-4509
	Cold Lake	Chris Hamelin chamelin@summitvalve.com	(780) 243-0199
MEG Energy (Christina Lake)	Calgary, Conklin	Rob Hadfield rhadfield@summitvalve.com	(403) 404-4509
Suncor (Firebag, MacKay River & Meadow Creek)	Alberta	Chris Hamelin chamelin@summitvalve.com	(780) 243-0199
All other MacKay River facilities (Everest, Petro China, Sunshine, etc)	MacKay River	Chris Hamelin chamelin@summitvalve.com	(780) 243-0199
All others	Calgary	Rob Hadfield rhadfield@summitvalve.com	(403) 404-4509
	Cold Lake, Conklin, Fort McMurray	Chris Hamelin chamelin@summitvalve.com	(780) 243-0199
		Rob Hadfield rhadfield@summitvalve.com	(403) 404-4509

2.0

PRODUCTS & SERVICES



2.1

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 28 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.

OUR GREAT PRODUCTS

Summit represents industry-leading products by first-class manufacturers.

Amrēsist[®]
A Bray Company



Bray



cowan dynamics

DELLA FOGLIA

FlowTek[®]
Subsidiary of BRAY INTERNATIONAL, Inc.

FluoroSeal Inc.

Golden Harvest, Inc.
Golden Gates™

HAYGOR INSTRUMENT
& COMPANY, INC.

KOSO

Oreacle[™]
ISOLATION VALVES

PEAK



Red Valve[®]

ROCKET[™]
PLATES

RONAN
ENGINEERING COMPANY

rotork[®]

Slurryflo[®]
Control Valves

SLURRY TUFF

SPECIAL ALLOY FABRICATORS

Tideflex[®]

TOPWORX[®]

VAL-MATIC[®]

WEY[®]

WIKAI

YOKOGAWA ◆
Co-innovating tomorrow™

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.



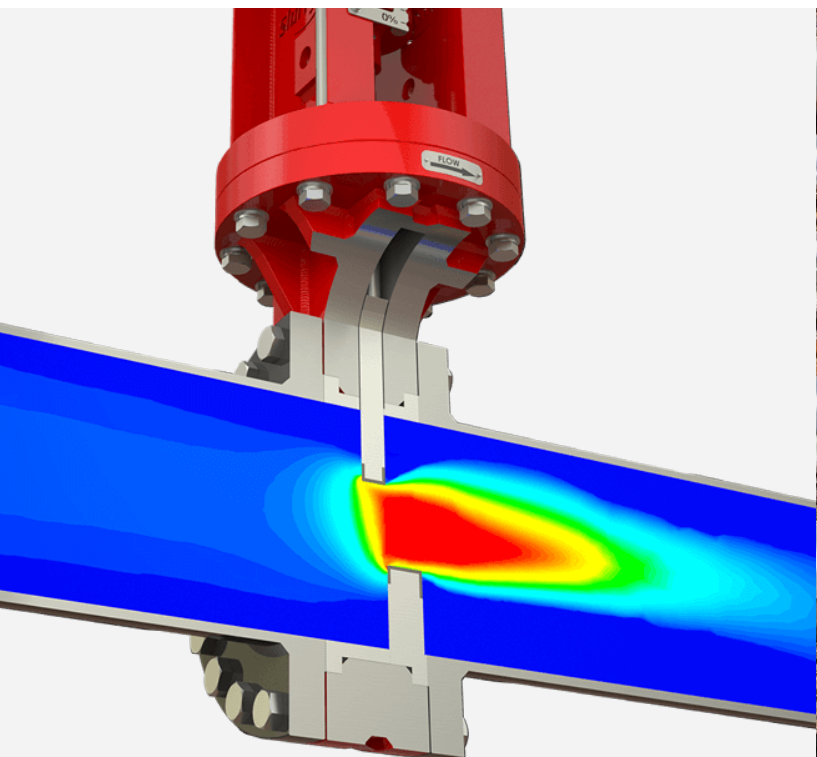
Bray S39 Ceramic Lined Butterfly Valve

- For controlling abrasive media.



KOSO

- Established in 1965, the KOSO group has developed a wide range of premium control valves for severe service, including velocity control, cavitation management, energy dissipation, and noise attenuation.



KNIFE GATE VALVES (ON/OFF)



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.



Bray

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



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.



WIKAI

- Broad portfolio of high-precision instruments for pressure, temperature, level, force, flow measurement and calibration.
- Head office and main manufacturing center located in Edmonton.



Haygor Temperature Compensating Diaphragm Seal

- Patented design that eliminates the ambient temperature effect (and the resulting drift associated with that effect).
- Reliable and accurate at any distance between taps.

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'.



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.



VALVE AUTOMATION

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.

SPECIALTY PRODUCTS



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

DID YOU KNOW?



In 1992, we believed in 'delighting the customer', a value we continue to embrace today. February 14th, 2022 marked **30 YEARS** of appreciating our clients, partners, colleagues, friends, and family.

Thank you for being the reasons for our success.



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), **Special Alloy Fabricators** (established in 1989), and **Custom Energized Air** (established in 1991).

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



MERGER ANNOUNCEMENT SLURRYFLO & SAF







On December 31, 2021, **SlurryFlo Valve Corp.** ('SlurryFlo') and **Special Alloy Fabricators** ('SAF') 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 Manufacturers Lists**' to reflect the following SAF product brands:

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



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.

Over the years, Summit has supported several charities, including the following:

- Raised funds with 'Expand Hope' to build a school for children in rural Guatemala.
- Volunteered and supported our local 'Food Banks' to help with community needs all across Western Canada.
- Supported 'Youth Empowerment and Support Services' (YESS) in Edmonton, Alberta.
- Supported 'Canuck Place Children's Hospice' in Vancouver, British Columbia.
- Supported 'Indigenous Women's Healing Centre' in Saskatoon, Saskatchewan.
- Supporting various local charities across Western Canada.

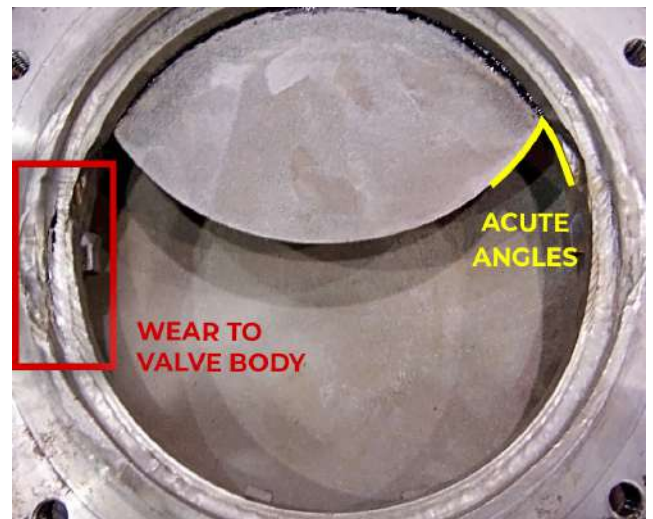


OUR STORIES ('AT SUMMIT WE CARE')

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!**



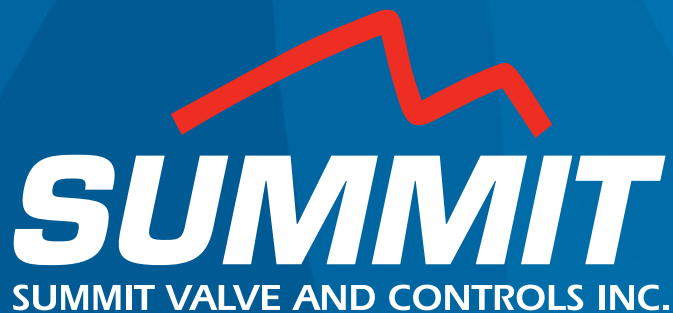
COMPLEMENTARY ADVICE THAT SAVED \$10,000

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.**



SUMMIT
SUMMIT VALVE AND CONTROLS INC.

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