



THE WORLD'S BEST VALVES

CG Industrial Specialties



THE RIGHT VALVE FOR THE JOB

CG Industrial Specialties (CGIS) is a leading supplier of high performance valves and controls to Energy, Chemical, Mining, Oil & Gas, Oil Sands, Power, Water, and Waste Water Treatment industries around the world. We represent only 'best in class' valve manufacturers, ensuring our clients benefit from reduced maintenance, the lowest overall cost of ownership, and the highest possible reliability.

At CGIS we're renowned for our experience in severe service applications. Our extensive process knowledge and product range guarantee that you'll always receive the right product for the job. We work with the world's best manufacturers of severe service products – names you know and trust, including **Adams, Delta, Flowserve, Hy-Grade, and ValvTechnologies.**

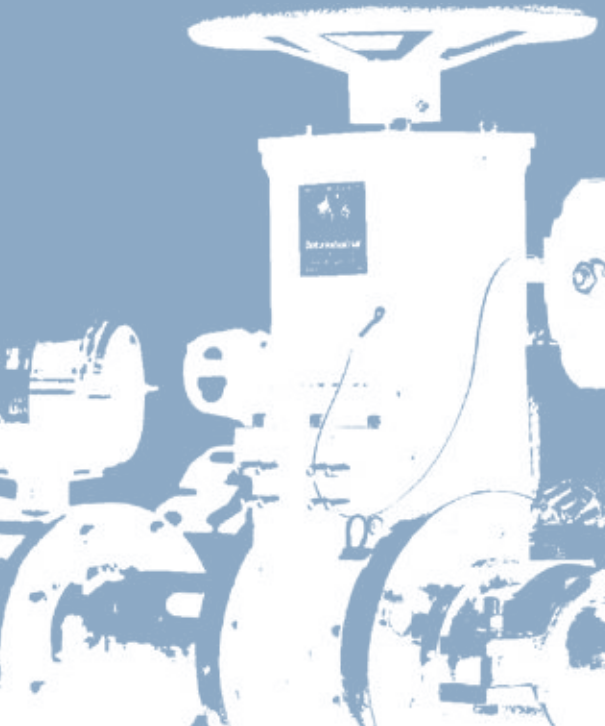
Our expertise, however, is not limited to severe service applications. Read on and discover how CGIS's 30+ years' of experience in valves, automation and service can lower your costs while increasing safety and reliability.

*While there are
many industry
suppliers around,
true valve
expertise is
exceedingly rare.
And that's what
sets CGIS apart.*

A HISTORY OF EXCELLENCE

Founded in 1980 in Vancouver, Canada, CGIS began as a supplier to Northern BC's Kraft pulp industry. As the pulp and paper industry declined, CGIS turned its attention to mining, oil & gas and severe service applications. This simple shift in focus has had profound effects, transforming the company from an industry-specific regional supplier into a globally recognized expert in valve and control applications.

Of course, change doesn't stop. As industries continue to transform, CGIS will continue to expand and develop its technical competency.



TECHNOLOGY TO SAFEGUARD YOUR PEOPLE, THE ENVIRONMENT, AND YOUR BOTTOM LINE

At CGIS we know that one size doesn't fit all. That's why we offer the best manual and automated valves from the best manufacturers in the world. Our product range includes zero leakage, isolation, ball, butterfly, check and control valves. We also carry diaphragm, globe and pinch and plug valves.


Manufacturers include: **Adams Valves, Bernard Controls, Bray Controls, Chemline Plastics, Delta Industrial Valves, Ebro, Elasto-Valve Rubber Products, Flowserve, Hy-Grade Valves, Hydro Thermal, Midland-ACS, N-Line Valves, Numatics, Smith Flow Control, StoneL, ValvTechnologies**, and many more.

***CGIS valves
are ISO 9001
certified, SIL
capable and work
with systems
such as HIPPS.***

SOMETIMES ZERO MEANS A LOT

A vast majority of valve designs are only manufactured and tested to standards with an “allowable leakage rate”. We don’t think that’s good enough. CGIS’ Isolation valves – providing **absolute zero leakage** – are designed to succeed in even the most demanding on/off applications. Our Zero Leakage valves guarantee no process past the closed valve, even for abrasive slurry or high temperature services.

And the best part? Zero Leakage valves are designed to perform flawlessly, from **two to ten times longer than with competitor designs**. Our valves have been used in some of the largest and most challenging tailings systems on the planet, including the Canadian Oil Sands.




Over time, an “allowable leakage rate” can have devastating consequences. Zero Leakage valves would have avoided this.

CONTROL VALVES THAT PUT YOU IN CONTROL

Processing product quickly, efficiently, and safely is more important than ever. Even short term system failures can have major consequences. That's why CGIS works with the world's finest brands in fluid motion and control products. Our extensive line of perfect control valves guarantees you the best possible performance, even in severe service applications, including: cryogenic, superheated steam, volatile and corrosive fluids, erosion, high pressure drops, vibration, cavitation, flashing, and high noise environments.

Reliability, long life, interchangeable parts, ease of maintenance, prompt delivery and a fair price means **the finest automatic control valves on the market today.**



Our positioning and control products use Foundation Fieldbus, Modbus, HART, Profibus, ASi and other industrial protocols.



A TEAM OF EXPERTS

At CGIS we know how important the right people are. They make **the difference between a project that fails and one that succeeds**. CGIS hires only the best valve experts in the industry and ensures their expertise grows through constant in-house training and skills improvement. Our clients rely on us for advice that will not only help their business to run efficiently, but will provide a **competitive advantage**. That means choosing only the best.

Our dedicated team of professionals have years of experience both in house and on location. With a thorough understanding of industry standards and product updates, we're here to make sure you always have **the right valve and the right people for the job**.

BUT DON'T TAKE OUR WORD FOR IT

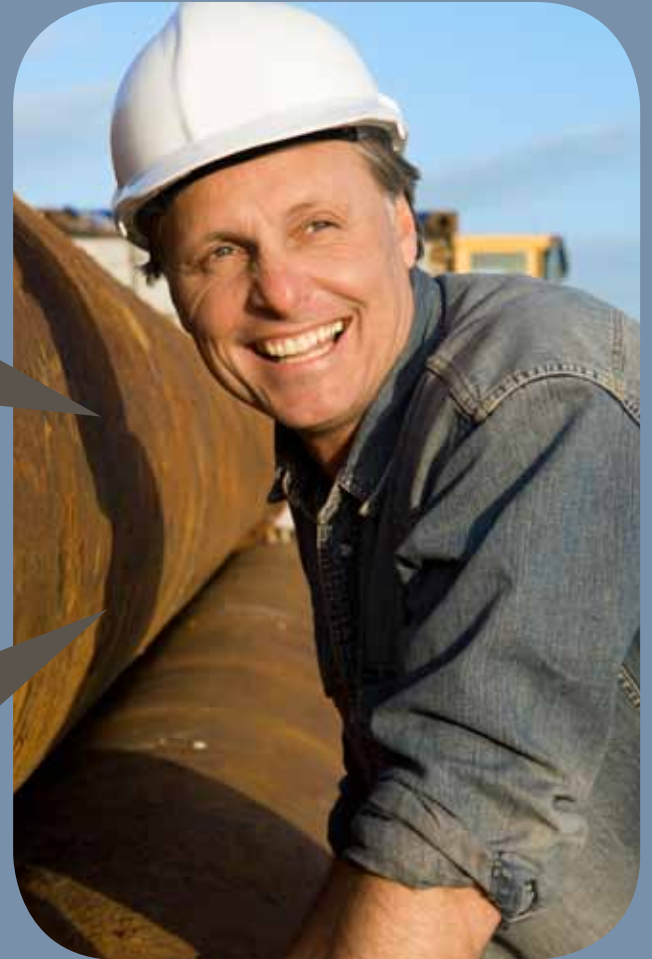
"We have enjoyed a pleasant cooperation with your esteemed company in the Ramu Nico Project. The project is located in a tropical area and hot weather prevails all year round. However, you have bravely overcome difficulties, passionately completed the required work, carefully solved equipment problems, trained workers from MCC, and instructed the Construction Contractors during installation and commissioning. These have won you acknowledgment from ENFI and MCC. ENFI is very grateful."

**Liu Cheng, Project Manager
China ENFI Engineering Corporation, Ramu Nickel Project**

"In 2002, our molecular sieve switching operation was targeted for upgrade due to significant and ongoing maintenance requirements. Annual repair costs were ranging from \$3,000 to \$5,000 per valve plus loss of production. CGIS recommended the ValvTechnologies metal seated ball valve. In 43 months of service, we have experienced ZERO problems, ZERO maintenance and ZERO leakage. The CGIS supplied valves are a true solution success story."*

**Terry Hoogenboom, Operation Leader, Monkman & Northeast BC
Burlington Resources Inc.**

**Valves lasted over 8 years in service.*



SEE FOR YOURSELF

Our Vancouver automation facility boasts a comprehensive flow demonstration loop. The Control & Isolation Demonstrator (CID) is designed to show valve specifiers, engineers and our supply partners the objective results of valve performance.



CID allows clients to watch real valve performance at our Vancouver facility. The loop is used to test various configurations and provides a basis for valve selection that removes doubt and guesswork.

CID is used to demonstrate:

- **Isolation Valves:** absolute isolation performance; comparative isolation performance, unidirectional & bidirectional isolation, double block&bleed, valve caused turbulence, check valve performance between types
- **Control Valves:** control valve type comparison, repeatability, cavitation control, noise reduction, solids handling
- **Control Systems:** Foundation Fieldbus, ASi, DeviceNet, Profibus, HART, ValveSight interface.

SERVICE YOU EXPECT, EXPERTISE YOU CAN TRUST

CGIS offers a wide range of services, including automation, consulting, commissioning, maintenance and repairs. All valves have a specific lifetime beyond which they need to be repaired or replaced. When it's time to maintain your valve configuration, we can often refurbish worn out valves, returning them to like new condition. Post repair, you can rely on these valves to work flawlessly for a service lifetime equal to or exceeding the original projected duration.

CONSULTING

CGIS provides consulting expertise, including: valve specifications for new projects, valve specification review, expert witness testimony, valve failure analysis, and valve cost comparisons and cost of ownership analysis.

AUTOMATION

Our Edmonton and Vancouver Automation and Service Centers provide extensive automation services for all types of valves. Facilities measure over 15,000 sq. ft. and include an in-house training center, pressure testing unit, 10 tonne and 3 tonne overhead cranes.

Our Edmonton automation center is equipped with a hydro test machine, nitrogen testing facilities, and is a fully authorized repair depot for companies such as Adams Valves Inc., Automax, Bernard Actuators, Chemline, Delta Industrial Valves, Midland, StoneL, TBV and Valv Technologies Inc.

SERVICE CENTRE

Valve repair services for all CGIS and non-CGIS valves, either in-house or at your project site. Services include:

- full maintenance
- service of hydraulic power units, oil change and filter change
- construction assistance and commissioning
- total valve management (TVM) – site visits to survey current valves in use, detailed report and repair suggestions
- full automation – conducted either at the CGIS service center or at your project site.

TRUSTED WORLDWIDE.

Clients around the globe trust CGIS, including:

Albian Sands
Aker Solutions
Agrium
Alberta-Pacific
Australian Paper
Barrick
BC Hydro
BHP Billiton
Canfor
CNRL
Diavik Diamonds

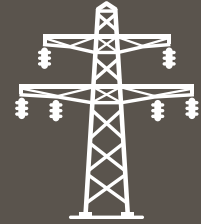
First Quantum
Husky Energy
Imperial
Kazzinc
Metro Vancouver
Minara Mining
Minera Los Pelambres
SaskPower
Shell
Suncor
Synchrude

Teck
Vale
AMEC
CenovusSantos
Sherritt
Chemetics
SNC-Lavalin
Worley Parsons
Office Cherifien des
Phosphates
Paterson & Cooke



TRUSTED INDUSTRYWIDE.

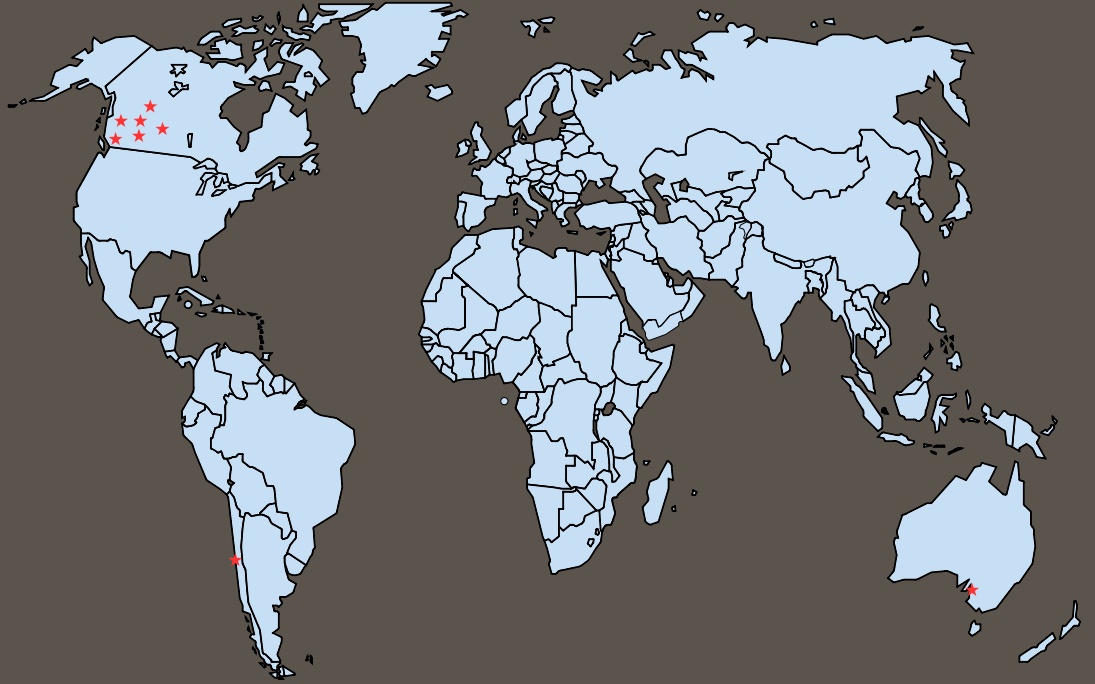
Chemical
General Industrial Process
Hydrocarbon Refining
Hydroelectric Power
Mining & Mineral Processing
Oil and Gas Production
Pulp and Paper
Steel Mills
Thermal Power (Fossil Fuel)
Waste Water Treatment



GET IN TOUCH

With an unmatched record of service and project success, it's no wonder the world's leading Engineering, Oil & Gas and Mining companies trust CGIS to provide valves that combine the lowest cost of ownership with the best possible performance.

To find out more about how CGIS can help your business succeed, please contact a CGIS office near you or visit our website at cgis.ca.





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The World's Best Valves

cgis.ca

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 Authorized Service Centre For:
