

**Inflow Control Devices** 

# Exceed (Canada) Oilfield Equipment Inc.

Exceed (Canada) is a Canadian based oilfield equipment company, located in Calgary, Alberta. Exceed (Canada) established the office and facility in 2016 to expand our product lines and to provide fully integrated solutions. We provide a full range of API certified well completion products, and production and reservoir optimization solutions with professional engineering and support.

#### Key Products and Service

Our key products are listed below but not limited to:

- Vacuum insulated tubing and casing (VIT, VIC)
- · Sand control screens
- Passive and pro-active inflow control devices (ICD)
- Sucker rods and PCP rods
- · High thermal efficiency tubing and casing
- Conventional and thermal wellheads





## Inflow Control Device Manufacturing Highlights

- API and ISO 9001 certified
- Computer controlled manufacturing
  100% API compliance through consistent inspection and monitoring program
- 50+ granted patents on inflow control device innovations
- 20+ year successful application in onshore and offshore wells
- Unique multi-chamber technology for sufficient pressure and reliable performance

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# Exceed Inflow Control Device (ICD) Categories



#### EqualRes ICD

- Unique design for even pressure distribution along wellbore in heterogeneous reservoirs
- 1st-stage pressure drop is staggered-pattern annular channel with slots on diverting plate
- · 2nd-stage pressure drop is created by long diverting tubes
- 3rd-stage pressure drop is created by choke nozzles on rotary equalizing plate
- · Adjustable to realize different numbers of choke nozzles on surface or downhole
- · Tungsten alloy steel with special hardening processes for extending well life









### Autonomous ICD (AICD)

- Unique design restricts influx from unwanted fluids, especially after breakthrough occurs.
- Significantly enhance the flow of viscous oil and meanwhile restrict water or gas production.



### C-AICD

- Combined advantages of both passive ICD and autonomous ICD for both early and late stages of reservoir exploration.
- Delay water / gas breakthrough due to reservoir heterogeneity or heel effect at early stage.
- Restrict water or gas flow after breakthrough at late stage.



## Exceed ICD Design Workflow











Established Canadian subsidiary and facility for comprehensive well completion products

#### 2015

Opened 2nd facility w/ 60+ million ft capacity; Total 150+ million ft capacity per year

### 2012

Established USA subsidiary

#### 2007

Opened new facility w/ 90 million ft capacity; captured 60+% Chinese market; 1st automated forging machine in China



### 1994

Focused on sucker rod manufacturing

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**1984** Nine-Ring established



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