

# COSSD PRODUCT CATALOGUE

for

*LoTech Manufacturing Inc.*  
7719 69 Street, Edmonton, AB T6B 1V4

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# Lo Tech Manufacturing

7719 - 69 ST NW Edmonton Alberta

## Catalogue



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## Natural Gas Engine Single Stage Volume Tank (SVT)



Application: SVT - A Propane  
SVT - B Casing / Natural Gas

SVT - A No High Level Shut Down (HLSD) Valve  
SVT - B HLSD included

MAWP: 12 psig (non-coded vessel)

Inlet/ Outlet: 1" NPT

Max Inlet Pressure: 60 psig

Regulator Outlet Pressure:  
4 - 9 " W.C.

Standard ----- 6 - 16 " W.C.

Hose: 1" x 6' - with 1/2" J.I.C. Connector

### WHY use a Volume Tank?

- \* Use it as an accumulator to dampen fuel supply pressure fluctuations to the engine created by variance in demand.
- \* Protects gas regulator from shimmering.
- \* Acts as a propane expansion tank.
- \* Acts as a natural gas scrubber



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## Natural Gas Engine Dual Stage Volume Tank (DVT)



Application: Propane or Casing Gas  
\*1st stage  
Free Water Knock Out  
\*2nd stage  
Volume Tank

MAWP: 12 psig (non-coded vessel)  
Inlet/ Outlet: 1" NPT

Max Inlet Pressure:  
15 psig  
Regulator Outlet Pressure  
4 - 9" W.C.

Standard - - 6 - 16" W.C.  
Hose: 1" x 10' - with 1/2" J.I.C. Connector

### WHY use a Volume Tank?

- \* Use it as an accumulator to dampen fuel supply pressure fluctuations to the engine created by variance in demand.
- \* Protects gas regulator from shimmering.
- \* Acts as a propane expansion tank.
- \* Acts as a natural gas scrubber

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## Fuel Gas Scrubbers

ASME Section VIII Design with CRN's for  
AB, BC, SK, MB, and ON.

High Level Shut Down Valve is included.

Inlet / Outlet (through HLSD) 1" FNPT is standard

*We can provide:* Pressure Gauges, High Pressure Regulators,  
Drain Valves, Site Glasses, Liquid Level Gauges, Demist Pads,  
Level Controllers, Dump Valves, and Pressure Relief Valves.

Fuel Gas Scrubbers are commonly stocked with Cap / Plate design.

### Available:

Dia. MAWP

4"	285, 720 psig
6"	150, 285, 720, 1500 psig
8"	150, 285 600 psig
10"	300, 600 psig

### Not what you want?

Other designs, incorporating flanges,  
nozzles (quantity and size) can be built  
to order. We build to suit your needs



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## Condensate / Drip Pots



ASME Section VIII Design

CRN - AB, BC, SK

Inlet / Outlet / Drain - 1/2" FNPT

Available:

Dia.	MAWP
2"	1480, 2500 psig
3"	2700 psig

Other Sizes Are Available!



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## Dessicant Dehydrators / Poorboys

ASME Section VIII Design with CRN's for AB, BC, SK, MB, ON

MAWP - 285 and 600 psig

8" x 48" Dehydrator Units - Hammer Union Closure

Pipe Fittings - 2000 # Forged Steel

Manifold Piping: 1" or 2"

Vent: 1/2" 2000 # CS Ball Valve

Drain: 1" 2000 # CS Ball Valve

Various grades of dessicant are available.

Poorboys can be easily adapted to become mulit stage units!

Give us a call and we can help calculate your requirements!

We also can provide:

- Free water knockouts
- Cooling fins
- Assembling
- Pressure / Temperature gauges





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## Inline Ball Check Valve (IBCV)

1/4" 6000 psig MAWP 316 Stainless Steel (Shown)

1/4" 5000 psig MAWP Carbon Steel

1/4" 3000 psig MAWP Brass (Shown)

**O - Rings available:**

*Nitrile, Viton, Fluorosilicone and Teflon*

Stainless Steel Spring & Ball

Crack Pressure: 15 psig

1 psig springs available upon request

Specify o-ring and crack pressure when ordering



Material	MAWP	Connection	Stocked O-Ring
Brass	3000 #	1/4" M x F	Nitrile
Carbon Steel	5000 #	1/4" M x F	Nitrile
Carbon Steel	5000 #	1/4" F x F	Nitrile
Stainless Steel	6000 #	1/4" M x F	Viton
Stainless Steel	6000 #	1/4" F x F	Viton

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## High Level Shut Down Valve

(HLSD)

ASME Coded Fitting  
Simple Design - Ready To Install  
Registered Pressure Fitting for AB

### Features:

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Internal Bushing Seat - no internal threads to leak

Extra Large Seal - always covers the orifice

Inverted Bucket Concept - no collapse pressure to worry about

*Cage Threaded Directly to Bushing - no connecting rod*

Encapsulated Float - protected

Low Specific Gravity Float - min. length required to operate

High Volume Orifice - 3/4"



# Lo Tech Manufacturing

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## Certificate of Authorization



### Certificate of Authorization Permit Quality Management System

Expiry Date: **November 21, 2012**

Reg. No.: **AQP-5071**

This is to certify that:

**LOTECH MANUFACTURING INC.**  
7719 - 69 STREET  
EDMONTON, ALBERTA

having complied with the provisions of the SAFETY CODES ACT, is hereby authorized to:

**Manufacture, Repair/Alter Category 'A', 'E' & 'H' Fittings in accordance  
with CSA B51**

at the above SHOP address.



Form No. AB-121  
Rev. (2008/06)

Dated at Edmonton, this 3rd day of November, 2009

\_\_\_\_\_  
Chief Inspector and Administrator

**Certificate No.: 7167**



# Lo Tech Manufacturing

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## Company Profile

Lo Tech specializes in the manufacturing of stock and custom equipment used within the petroleum industry. We are a privately owned Alberta corporation - operating out of a 7,000 sq. ft. facility located in South East Edmonton. Our ABSA registered *Quality Control Program* (A.Q.P. # 5071) and *Welding Procedure Specifications* are customized to allow us to manufacture pressure fittings classified by CSA B51 and fabricated in accordance with *ASME Section VIII Code*. We have the capability to produce the following:

- (a) Pressure Fittings: Eight inches or larger diameter (> 8") to six hundred pounds per square inch (600 psig) and up to one and one half cubic feet (1 1/2 cubic feet) capacity.
- (b) Pressure Fittings: Six inches or less in diameter (< 6") up to one and one half cubic feet (1 1/2 cubic feet), without any pressure restrictions.
- (c) Non Coded Fittings: MAWP fifteen pounds per square inch or less, no volume restrictions.

Stock items, such as Fuel Gas Scrubbers, are registered designs in Alberta, British Columbia, Saskatchewan, Manitoba, and certain models in Ontario, with required *Canadian Registration Numbers*. Non code equipment, such as volume tanks, are shipped complete with appropriate over pressure protection.

Lo Tech takes pride in providing customers with a product specific to their needs. We market to supply stores and O.E.M.'s and would be pleased to provide you with a list of our satisfied customers upon request.

Thank you for taking time to read about us. We look forward to hearing from you in the future to discuss any of your requirements.

*Our mission is to provide:*

*Excellent service,  
A quality product,  
At a fair price.*

# Lo Tech Manufacturing

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## Limited Warranty

Lo Tech Manufacturing Inc. manufactured products are warranted free from defects in material and workmanship under normal use for a period of one year from the date of shipment to the original user, provided such goods have not been subject to misapplication, misuse, negligence or repairs by unauthorized persons. Warranty does not apply to any faulty performance, actual or perceived, caused by product selection, incorrect installation, or any factor beyond the manufacturer's control. This warranty does not include damage in shipping or mishandling. Products believed to be originally defective may be returned, freight prepaid, for repair and/or replacement to the distributor, authorized service representative, or to our facility. If upon inspection by our facility or authorized representative, the problem is found to be originally defective material or workmanship, repair or replacement will be made at no charge for labor or materials, F.O.B. the customer's regular place of business.

Any modifications to any Lo Tech product, which has not been made by Lo Tech or its authorized representative, will be at the sole risk and responsibility of the modifier. Lo Tech discards any and all liability, obligation, or responsibility for the modified product, and for any claims, demands, or cause of action for damage or personal injuries resulting from the modifications and/or use of such a modified Lo Tech product.

Lo Tech's obligation to its product shall be limited to replacement and in no event shall Lo Tech be liable for any loss or damage, consequential, or special, of whatever kind or nature, or any other expense which may arise in connection with or as a result of such products or the use or incorporation thereof in a job. This warranty is expressly made in lieu of all other warranties of merchantability or fitness for a particular purpose. No express warranties and no implied warranties whether of merchantability or fitness for a particular purpose or otherwise, other than those expressly set forth above shall apply to Lo Tech products.

Lo Tech has made a diligent effort to illustrate and describe its product accurately. However, such illustrations and descriptions are for the sole purpose of identification and do not express or imply a warranty that the products are merchantable or fit for a particular use, or that the product will necessarily conform to the illustrations or descriptions.