

TANK GAUGING SYSTEMS

TGS SIDE MOUNTED SOUR SERVICE
MECHANICAL LEVEL GAUGE
TGS - 5050

www.tankgaugingsys.com

Grease Sealed Pulley System

Magnetic gauge board for simple "tank-in-service" installations (no welding required)

Unique float design - no need for guide wires

Large easy to read gauge board with reflective, long-life 3M decal

Complete gauge package supplied - no additional parts required

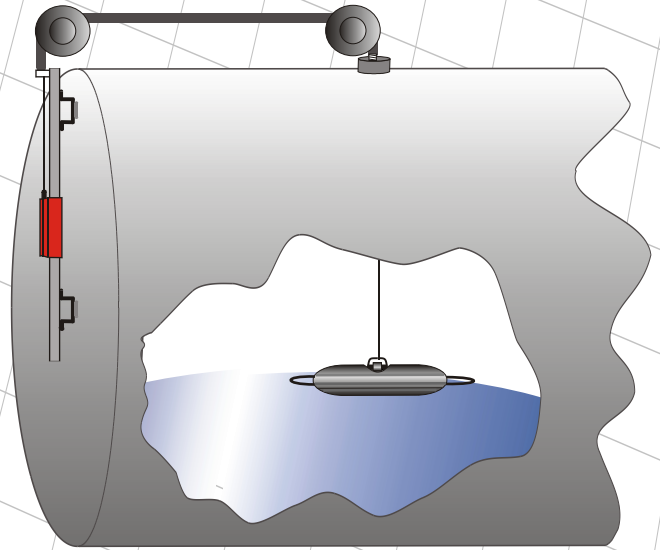
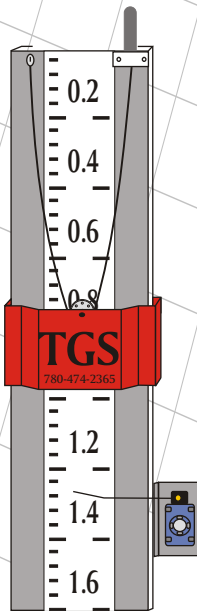
Accommodates most vessel shapes and sizes

Add CSA Class 1, Div. 1 Point Switch

Cost-effective gauging of Sour fluids

NO SPACE - NO PROBLEM

New Innovative design allows complete level measurement in only half the distance



Incorporating a Stainless Steel Sheave on the Indicator along with dual cable "hook up" allows frictionless movement & enables the indicator to move half the measurement distance while the float measures the complete distance



Head Office: 12532 - 124St. Edmonton, AB, T5L 0N5

Edmonton

780-474-2365 (fax) 477-1576

Calgary

403-685-8867 (fax) 685-8868

04/2010

TANK GAUGING SYSTEMS

TGS SIDE MOUNTED SOUR SERVICE
MECHANICAL LEVEL GAUGE
TGS - 5050

FEATURES

Indicator slides up and down gauge board using UHMW runners. Bright red colour for high visibility at long distances. Gauging cable loops through a Stainless Steel Sheave mounted on Indicator & connects to a Stainless Steel eyelet mounted on gauge board. This unique feature provides a 1 to 2 ratio measurement. As the float measures 1ft of fluid the indicator only travels 1/2 the distance on the sign board. Combined with a 1/2 scale decal to provide a total measurement length in only 50% of the distance
The TGS5050

Aluminum gauge board completely corrosion resistant

Stainless Steel gauging cable for long durability

Pulley's are mounted in housings and packed with Grease to provide maximum protection against external elements

3/4" tank connection or tank-in-service coupling

Highly reflective 3M scotchlite decals, Excellent visibility day or night

Gauge board calibrated in linear meters (standard) or to customer requirement

Point Switch for high / low level alarms Class 1, Div. 1, Explosion Proof, Mounted via Magnetic Bracket or Weld-on Bracket. Field Adjustable

Magnetic mounting system for insulated or non-insulated tanks. Ideal for in-service installations - no welding required

Unique Fiberglass float with Stainless Steel Swivel - Float rotates independent of cable preventing premature wearing, knotting or kinking

Can be used with or without float guide wires

Fits through 6" dia thief hatch

Technical Specifications

Tank Gauging Systems, Edmonton - Calgary

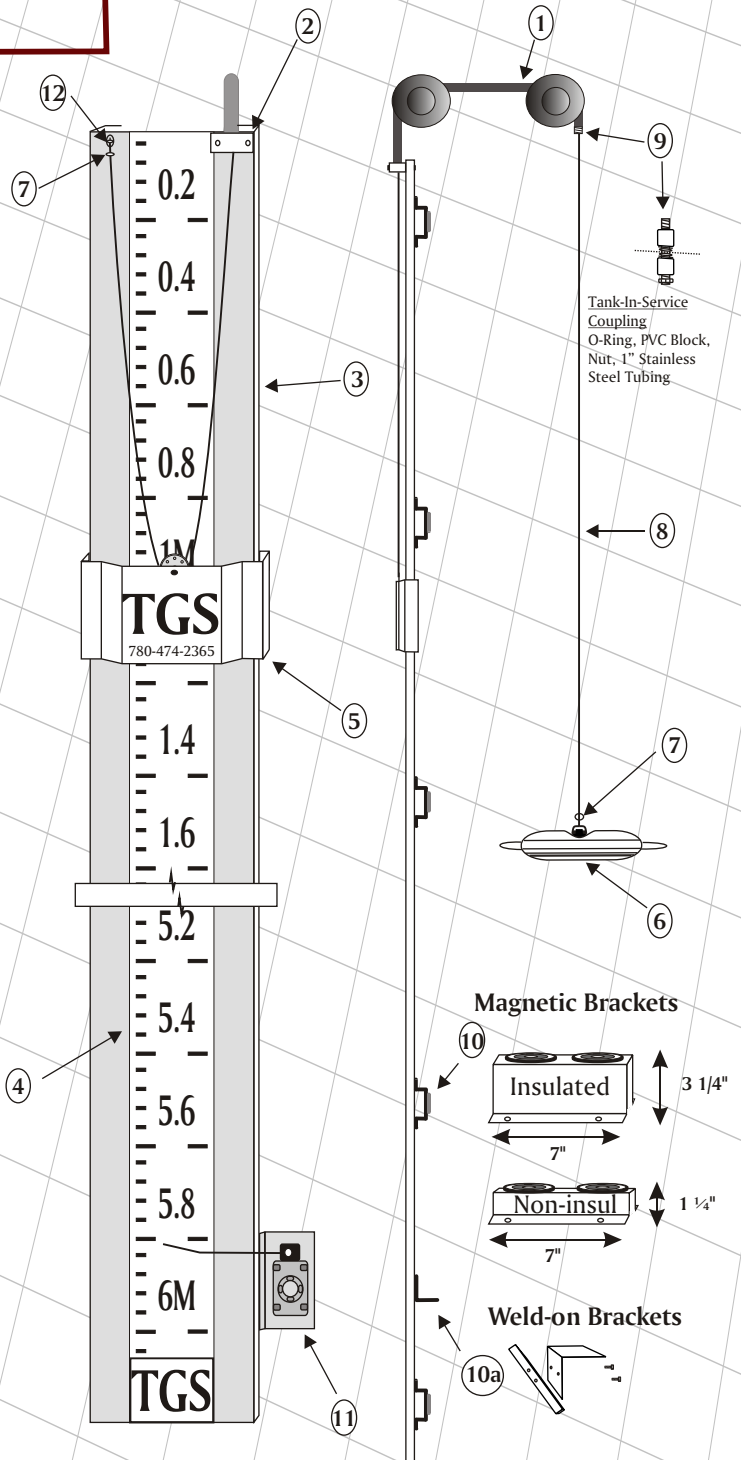
Edm: 780-474-2365 (fax) 477-1576

Calgary: 403-685-8867 (fax) 685-8868

TANK GAUGING SYSTEMS

TGS SIDE MOUNTED SOUR SERVICE MECHANICAL LEVEL GAUGE TGS - 5050

ITEM	DESCRIPTION / MATERIAL
1.)	Sealed Pulley System • Grease filled, 3/4" MNPT tank connection
2.)	Clamping Block • PVC
3.)	Gauge Board • 14 Gauge Aluminum - 9" wide
4.)	Decal • High reflective 3M decal, 4" width
5.)	Indicator/Slider • Aluminum slider with 3M decal & SS Sheave
6.)	Fiberglass Float with S.S. Swivel • 5 3/4" O.D. x 15" (standard) • Fits through standard 6" dia thief hatch
7.)	316 Stainless Steel Cable Clamp (1/8")
8.)	316 Stainless Steel Cable - 1/8" - 30ft Standard
9.)	3/4" MNPT Coupling • Tank in service coupling also available
10.)	Magnetic Mounting Bracket
10a.)	Weld-on Mounting Bracket
11.)	High / Low Level Alarm Point Switch • CSA Class 1, Div. 1; Field adjustable
12.)	Stainless Steel Eye Bolt
OPERATING	
• Temperature: 160°C max.	
• Pressure: 16oz on a properly maintained system	
** Typical Shipping Weight: 35lbs	



Technical Specifications

Tank Gauging Systems, Edmonton - Calgary

Edm: 780-474-2365 (fax) 477-1576

Calgary: 403-685-8867 (fax) 685-8868

TANK GAUGING SYSTEMS

5050

TGS - 5050 Technical Order Guide

Model TGS 5050 provides local indication of tank fluid level using the highest quality mechanical components to insure long lasting, reliable fluid monitoring. Standard Gauging packages includes TGS's unique Fiberglass Float with Stainless Steel Swivel, Aluminum Gauge Board & Indicator w/ SS Sheave. Decals manufactured from highly reflective 3M material, Enclosed Sealed Pulley's, 316 Stainless Steel Cable, Stainless Steel Cable Clamp, 3/4" Process Connection and TGS's unique friction fit Weld-on Mounting System or Magnetic Mounting Brackets.

ORDERING CODE: TGS 5050 - A / B / C / D / E / F / G .

CODE	TANK SIZE / HEIGHT (A)
X	Tank Height Example: 10ft Tank = 5ft Gauge

CODE	DECAL CALIBRATION (B)
M	Metric - Standard - 1/2 Scale
C	Cubic Meters - 1/2 Scale
BBL	Barrels - 1/2 Scale
FT	Standard - Ft & Inch - 1/2 Scale
X	Other - Specify

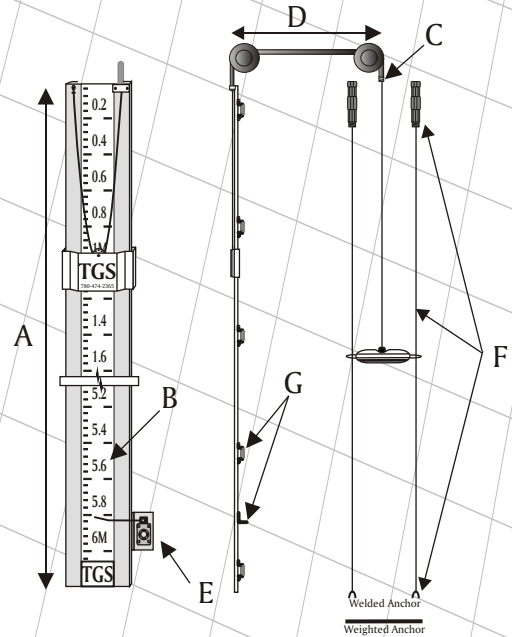
CODE	TANK CONNECTION (C)
3/4"	3/4" - Standard
X	Other - Specify

CODE	CABLE GUIDE (D)
20"	20" - Standard
X	Longer - Specify

CODE	OUTPUTS (E)
N	No Outputs
R	Relay - Add (B) or (M) for Bracket
P	Pneumatic - Add (B) or (M)
B	Bolt on Mounting Bracket
M	Magnetic Mounting Bracket

CODE	CABLE GUIDED FLOAT (F)
N	NO Cable Guides with Tensions
Y	Cable Guides with Tensioners
W or A	(W) Weld-on (A) Weighted Anchor

CODE	BRACKETS (G)
W	Weld-on Mounting Brackets Non-Ins. Tank
WI	Weld-on Mounting Brackets Insulated Tank
NIM	Magnetic Bracket Non-Insulated Tank
IM	Magnetic Bracket Insulated Tank



TANK SPECIFICATIONS:	
Tank Heated:	Yes/No
Temperature:	Ambient Other:
Fluid:	SG:

Customer Information

Company Name: _____ Contact Name: _____
 Phone Number: _____ Fax Number: _____
 Date Required: _____ PO / Ref Number: _____ Ship Via: _____
 Invoicing: _____
 Shipping: _____

Technical Specifications

Tank Gauging Systems, Edmonton - Calgary

Edm: 780-474-2365 (fax) 477-1576
 Calgary: 403-685-8867 (fax) 685-8868

TANK GAUGING SYSTEMS CORP.

12532 124 Street, Edmonton, Alberta, T5L 0N5
Edmonton Ph: 780-474-2365 Fax: 780-477-1576
Calgary Ph: 403-685-8867 Fax: 403-685-8868

TGS 5050 SIDE MOUNTED SOUR SERVICE PULLEY INSTALLATION INSTRUCTIONS

- 1. Gauge Board:** The gauge board has been shipped in sections with a joiner at the end of each section. Assemble the gauge board together via the joiners and bolt magnetic or weld-on brackets to the gauge board. All the necessary hardware (washers, nuts and bolts) has been included in the gauge package.
- 2. Mounting the Gauge Board:** The gauge board will be mounted to the tank via Magnetic Mounting Brackets or Weld-on Mounting Brackets. The gauge has been designed to be installed and serviced while the tank is in-service. If possible always try to mount the gauge board so that the top of the gauge board is level with the roof of the tank (the point at which the roof begins to slope) and close to the thief hatch so the float can be reached through the thief hatch.
- 3. Drilling Holes:** Omit this step if a coupling is already installed in the tank. Position the $\frac{3}{4}$ " female threaded end of the Pulley System over the Clamping Block mounted at the top of the gauge board. A 2' length of $\frac{3}{4}$ " PVC tubing had been supplied and will connect the Pulley to the clamping block. Locate position on the tank to drill a hole. The hole can be drilled approximately an arms length from the thief hatch (1 1 $\frac{1}{2}$ ft from the hatch). Drill a hole big enough to insert the $\frac{3}{4}$ " nipple and file any rough edges that occur as a result of drilling. If drilling while tank is in-service use plenty of cutting oil and be careful.
- 4. Mounting Pulley Assembly:** Tighten the pulley with the $\frac{3}{4}$ " MNPT nipple into the tank. BE SURE THE SIDE OF THE PULLEY WITH THE GREASE NIPPLES ARE ATTACHED TO THE TANK. If using the tank in service coupling place the top half (O-ring, Washer and PVC) on the top of the tank and attach the bottom half of the coupling (O-ring, Washer, PVC and nut) from inside the tank. The PVC side of the pulleys will then attach to the clamping block mounted on the gauge board. If required an extension may be added between the pulley's to increase the length. Simply thread $\frac{3}{4}$ " pipe to the desired length and install between the two pulley's. Whether adding or decreasing length between the pulleys always leave the cable inside the pulley that is grease filled. (it has grease nipples threaded into it) For best operation try to keep the pulleys as level as possible. Cut the end of the PVC tube after the pulley has been installed so that it is flush with the bottom of the PVC clamping block on the gauge board.
- 5. Stainless Steel Gauging Cable:** Run the Stainless Steel gauging cable from the inside of the tank through the Pulleys (if not already done). Loop the cable through the sheave the slider & attach it to the Eye Bolt on the Gauge Board. Attach the float to the other end of the cable via the cable clip and/or the cable crimp supplied.
- 6. Calibration:** Lower float into the tank. Dip tank and adjust the slider/indicator to the appropriate level to match decal calibration. Indication should start at 3-4" below the zero mark on an empty tank.
** If using float cable guide assembly, mounting connections are 18" center to center

