

## MAGNETIC LEVEL INDICATOR

# DISCO-TRAC

*Direct Insertion Single Chamber Oversize =  
The best approach for indicating level!*

The Disco Trac combines the operating system of a conventional float-based magnetic level indicator (MLI) with a (GWR) guided wave radar transmitter. This means you can enjoy reliable and accurate level measurement in a simple and elegant design. Using a 3", 4"+ chamber to house both the GWR probe and the MLI float, these devices operate seamlessly to provide electronic guided wave radar measurement and visual indication. Disco-Trac provides two independent level technologies off a single set of process taps for true redundant measurement. A single chamber is achieved by adding a slotted baffle plate inside the chamber to separate float and GWR Probe. The Guided Wave Radar transmitter obtains the independent reading of the liquid level, providing an accurate output even in the case of float failure. The GWR will read the true level of fluid even if density of product varies.

### FEATURES

Questtec has partnered with leading GWR companies to provide customers selection flexibility based on specific application needs. GWR is preferred in the industry for its easy setup, reliable operation, measurement accuracy, and resistance to changing process conditions.

### SPECIFICATIONS

**Measuring Range**  
Standard Single Section  
12 to 216 inches

**Multi Section (Custom)**  
>216 inches

**Temperature Range**  
-320°F to 800°F P

**Pressure Range**  
Full Vacuum to 4500 PSIG

**Minimum Specific Gravity**  
As Low As 0.33

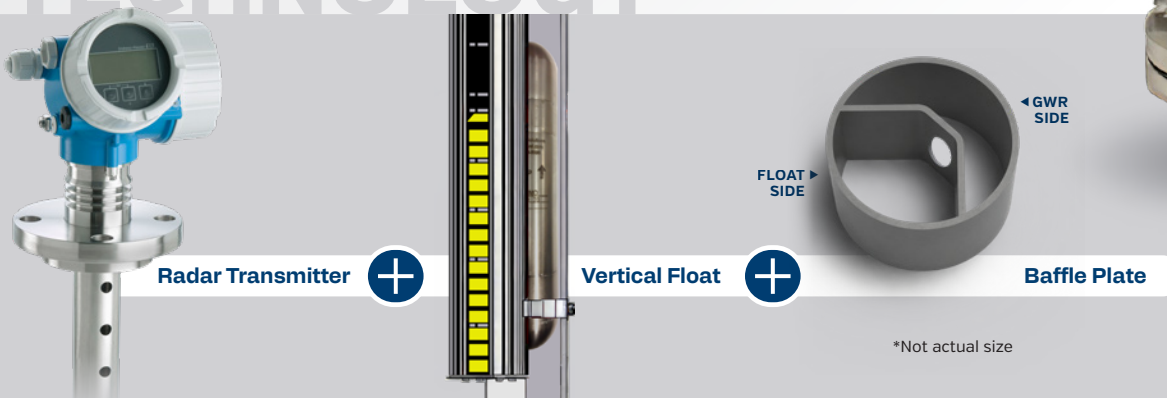
**Chamber Design**  
Single Chamber, 1 Set of  
Process Connection

### APPLICATIONS

- > Hot Wells
- > Industrial Boilers
- > Oil-Water Separators
- > Propane Vessels
- > Storage Tanks
- > Alkylation Tanks
- > Blowdown Tanks
- > Boiler Drums
- > Condensate Tanks
- > Deaerators
- > Feedwater Heaters
- > Flash Drums
- > Gas Chillers



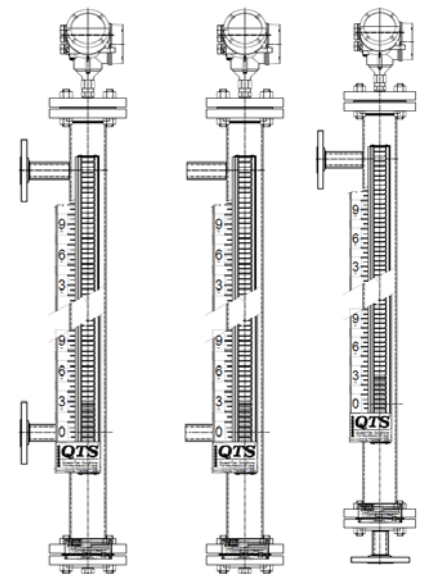
## TECHNOLOGY



## MAGNETIC LEVEL INDICATOR

# DISCO-TRAC (DT)

The Questtec Solutions Disco-Trac combines the Magne-Trac magnetic level gage and the Bridle-Trac bypass chamber into one chamber. It is used with our VAR Partner E&H GWR or customer specified radar for redundant level measurement. See page 21 for listing of our partners GWR models. The Disco-Trac is recommended in applications that require both visual and electronic level viewing.



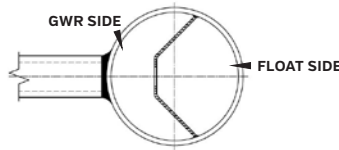
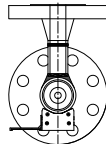
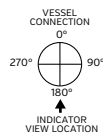
### DT ORIENTATION

(ONLY 1 ACCESSORY ALLOWED PER POSITION)

**INDICATOR**  
 ○ 90°  
 ○ 180°  
 ○ 270°

**AT TRANSMITTER**  
 ○ 45° to Indicator

**SWITCHES**  
 ○ 45° to Indicator

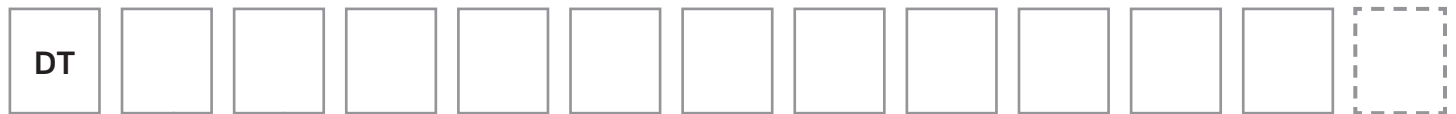


STYLE A

STYLE B

STYLE C

Note: Overall length will always be greater than measuring length (ML). Please specify if a max overall length is required.



DISCO-TRAC™

**MLI MATERIAL**  
 4S = 304 SS  
 4C = 304 SS/C  
 6S = 316 SS  
 6C = 316 SS/C  
 MN = Monel  
 TI = Titanium  
 HC = Hastelloy C  
 Z = Customer Spec

**MLI STYLE**  
 A = See Chart [Std]  
 B = See Chart  
 C = See Chart

**VESSEL CONNECTION**  
 04 = 1/2"  
 06 = 3/4"  
 08 = 1" [STD.]  
 10 = 1 1/4"  
 12 = 1 1/2"  
 16 = 2"  
 20 = 2 1/2"  
 24 = 3"  
 32 = 4"  
 Z = Customer Spec

**CHAMBER SIZE\***  
 24 = 3"  
 32 = 4"  
 40 = 5"  
 Z = Customer Spec  
 [All Styles Use a Flange for End Closure]

**FLANGE CLASS**  
 01 = 150#  
 03 = 300#  
 04 = 400#  
 06 = 600#  
 09 = 900#  
 15 = 1500#  
 25 = 2500#  
 Z = Customer Spec  
 [All Styles Use a Flange for End Closure]

**SPECIFIC GRAVITY**  
 Minimum operating specific gravity

**MAXIMUM PRESSURE**

**MAXIMUM TEMPERATURE**

**"C-C" DIMENSION<sup>1</sup>**

**These parameters must be based on Maximum Operating Conditions and are the basis for Float construction.**

**INDICATOR STYLE**  
 WF = Wide Flag  
 ST = Follower  
 HF = High Temp Flag  
 XX = None

**VENT/DRAIN**  
 AA = 1/2" Top Vent & 1/2" Drain [NPT]  
 BB = 3/4" Top Vent & 3/4" Drain [NPT]  
 CC = 1" Top Vent & 1" Drain [NPT]  
 AB = 1/2" Top Vent & 3/4" Drain [NPT]  
 AC = 1/2" Top Vent & 1" Drain [NPT]  
 BA = 3/4" Top Vent & 1/2" Drain [NPT]  
 BC = 3/4" Top Vent & 1" Drain [NPT]  
 CA = 1" Top Vent & 1/2" Drain [NPT]  
 CB = 1" Top Vent & 3/4" Drain [NPT]  
 XA = 1/2" Vent or Drain  
 XB = 3/4" Vent or Drain  
 XC = 1" Vent or Drain  
 XX = None  
 CS = Customer Specified

**OPTIONS**

Note: Spiral wound gasket is standard on access flange.

<sup>1</sup> For Style H provide insertion length and desired visible [i.e. 100/84 = 100" insertion length 84" visible]

Represented by:



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\*Schedule selected by pressure/temperature or customer specification

CHAMBER	SCALE/INDICATOR	TEMP CONTROL	TESTING/MATERIAL
SC = Special Coating	MS = Metric Scale	CI = Cryogenic Insulation w/ Frost Extension	AS = ASME "S" Stamp
SO = Slip on Flanges	PS = Percentage Scale	HB = High Temp Insulation Blanket	AU = ASME "U" Stamp
IV = Inverted Chamber	NS = Negative Scale	EH = Electrical Heat Tracing	B1 = ASME B31.1
WN = Weld Neck Flanges	SH = SS Indicator Housing	FP = Freeze Protection (Electrical)	B3 = ASME B31.3
SL = Stub End/Lap Joint Flanges	SS = Custom Scale [specify]	ST = Steam Tracing	CRN = ABSA Certifications
RJ = Ring Joint Flanges	DI = Dual Indication	VD = Vent & Drain Valves [Specify Type]	NM = NACE MR0175 Cert. 316 SS Bolting Access Flange
BW = All Butt Weld Construction	IF = Interface Indication	IS = Isolation Valves [Specify Type]	
F1 = Guide Rod, Flashing	AR = Arrow Pointers		
F2 = Perforated Tube, Flashing			
X1 = Customer Specified			
BF = Breakout Flange			
BS = Bracket Support			
PT = Particle Trap			

**TRANSMITTER/SWITCHING OPTIONS**  
 Gzx = GWR  
 MT = Magnetostrictive Transmitter  
 RX = Reed Switches [Specify Amperage]  
 LG = Level Gauge