

FOUR DECADES
of **PRESSURE**
AND LEVEL
MEASUREMENT
SOLUTIONS
CLEANED UP.





Viatran's Sanitary Pressure and Level Measurement Family

Viatran products are field proven. In Oilfields. In Oil rigs. On Die cast machines. In Automotive test stands. Viatran is known for making rugged solutions for tough environments — like Sanitary Processing.

Viatran began offering solutions in 1965, going into the first dairy a few years later.

Since then, Viatran has constantly innovated and modified the Sanitary line of pressure and level measurement solutions.

Inside this brochure, you'll see four decades of pressure and level learning, sanitized for your applications.

For product availability or to order call 1-800-688-0030, ext 506.

**FEATURES:**

- Flush Hastelloy diaphragm
- Unique Gortex breathing system
- All welded SS construction
- Ranges down to 30" WC full scale
- Top mounted zero & span adjust
- 1 1/2 - 2" Tri-clamp
- Optional Field Circuit

MODEL 363: When Balance is important.

Balance tanks provide critical surge control to neutralize the strength of a discharge from the silo tank by offering the fluid a collection point. Too much pressure applied to the media in a Silo would crash into the process, with dire consequences. The 'balance tank' nullifies this pressure wave. For a balance tank to do the job, the processor must know the level of the Balance Tank.

The Viatran Model 363 is a superior solution for Balance Tank applications. The flush sensor is designed for a tri-clamp fitting, offering a system that facilitates a recovery of under a minute after a CIP process.

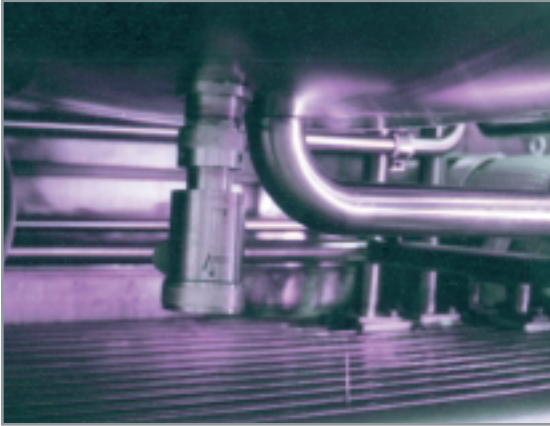
Offering Hastelloy wetted parts isn't new - offering it standard is. Viatran doesn't charge you extra if you need Hastelloy - that's an important distinction in the marketplace.

The Model 363 is simple to retrofit. With the unit's high accuracy, quick recovery after a CIP process, internal adjusts, multiple receivers and tri-clamp fittings, the Model 363 is fast becoming the solution for the food processing industry.



The Model 363 is available with virtually any fitting.

THE MODEL 363. THE STANDARD HASTELLOY WETTED PARTS ALLOWS FOR USE IN ACIDIC AND CAUSTIC MEDIA FOUND IN THE SANITARY MARKET. WITH EASILY ACCESSIBLE SEALED ZERO AND SPAN ADJUSTMENT, THERE IS NO NEED TO TAKE OFF THE CONNECTOR TO MAKE AN ADJUSTMENT.



The model X60 mounts on the side of the tank.
Hastelloy wetted parts come standard.

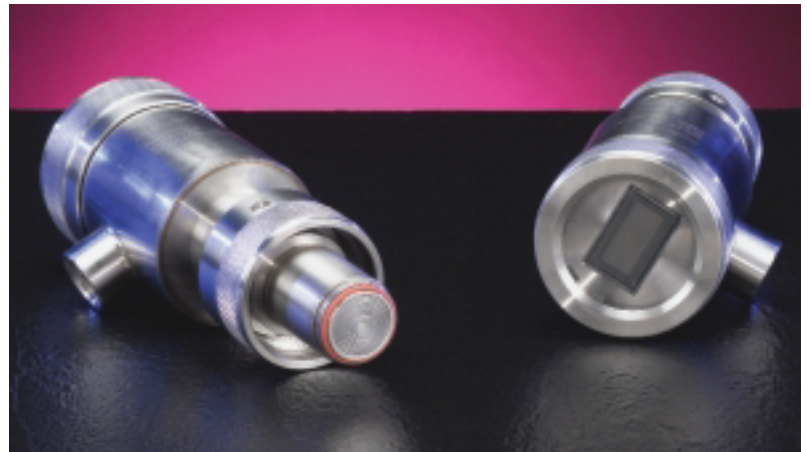
FEATURES:

- Hastelloy Wetted Parts
- <1 Minute CIP/SIP Recovery Time
- Digitally Compensated
- 10:1 Turndown (Optional 15:1)
- HART Communications on Model 960
- 30°F - 185°F Compensation
- ± 0.3% Total Error Band from 0°F to +185°F
- 3A Approved



MODEL 360 | 960 [with HART]: Reliable Level Measurement: Recovers in <1 minute after a CIP Process.

The explosive growth of niche food markets means Food Processing Engineers are running more products through the lines. The process depends on a cleaning process like the CIP process to ensure flavors and allergens aren't mixed. The rapid change in temperature from product to CIP demands a transmitter that is rugged enough to recover and provide true readings quickly to optimize the process time and provide a thorough cleaning of the system. Our proprietary sensor design will have you accurately running without drift in less than 60 seconds. That keeps you on time.



We installed the Model 360 into a customer's balance tank. Because they were processing Soda, they were thrilled to learn that Hastelloy wetted parts come standard on the X60. When the unit needs to be re-ranged, he appreciated the internal zero and span adjusts. This easy retrofit allowed for more accurate measurements and compatibility with other aspects of the process.

DRIFT. ONE OF OUR CUSTOMERS BEGAN EVERY MORNING COMBATING DRIFT. THEN THEY INSTALLED THE MODEL X60 FROM VIATRAN. FIELD TESTS HAVE PROVEN THAT PROCESSORS WON'T START THEIR DAY FIXING DRIFT, WHICH IS EXACTLY WHAT OUR CUSTOMER DISCOVERED. NOW THEY BEGIN EACH DAY PROCESSING INSTEAD OF WORKING ON THE INSTRUMENTS. NOW THAT'S A REFRESHING IDEA.



The model X64 from Viatran. HART ready. Standard Hastelloy Wetted parts. Also standard: Viatran's rugged performance and reputation.

FEATURES:

- All welded SS Construction
- HART communications on Model 964
- Standard Hastelloy Diaphragm
- 500 PSI down to 30" WC full scale
- 0.5% per 100° F temperature compensation
- Easily accessible Zero & span adjust
- 1 1/2 - 2" Tri-clamp
- Standard Field Calibration
- <1 minute CIP/SIP recovery time
- 3A approved



MODEL 360 | 960 [with HART]: Hastelloy wetted parts come standard.

When caustic or acidic media is standard in your process, then Hastelloy should be standard in the product that measures the media. The flush Hastelloy diaphragm of the Model X64 eliminates bacterial growth, allowing for better a Clean in Place (CIP) process. The Model X64 also boasts less than a minute recovery time after a CIP/SIP Process.

The 364 brings increased accuracy to the industry — standard.

Viatran is confident enough to promise that your Model X64 will not suffer daily drift problems. It offers higher proof pressure, increased temperature compensation and faster temperature recovery.

The Model X64 is a gage or absolute pressure transmitter with a Tri-clamp connection. The standard flush Hastelloy diaphragm eliminates the growth of bacteria and better facilitates Clean in Place (CIP) systems.

CERTAIN PRODUCTS AT VIATRAN COME WITH THE HART PROTOCOL. THE TWO ON THIS PAGE DO. WITH THE HART PROTOCOL ON BOARD, THESE PRODUCTS TURN INTO THE 960 AND 964 RESPECTIVELY.

THE HART COMMUNICATIONS PROTOCOL LETS YOU COMMUNICATE WITH YOUR TRANSMITTER. THIS MEANS SYSTEM COMMISSIONING, UNSURPASSED ACCURACY AND RANGEABILITY. REMOTE CALIBRATION CAN BE DONE USING A HANDHELD DEVICE OR A PC USING AVAILABLE SOFTWARE.

THE DP UNIT ON THE NEXT PAGE ALSO COMES WITH HART.

MODEL DP: Measuring level under a vacuum.



FEATURES:

- HART and/or 4-20 mA or 1 to 5 VDC Output
- Spans from 0.5" W.C. to 3,000 PSI
- 30:1 ranging
- Exotic wetted materials available
- NEMA 4X & Explosion Proof housing
- Push button configuration and calibration
- Local digital indicator

Utilizing a typical signal point hydrostatic level transmitter to get a level measurement with a vacuum applied to the tank is not possible. For an accurate reading, you need to measure both the vacuum and the level and subtract the readings using a differential pressure transmitter. With dual sanitary remote seals, coupled via stainless capillary, the vacuum is subtracted, giving you an accurate level measurement.

The DP also works with a pressurized tank. Extremely thick media (like honey, fructose, etc), needs to be pushed out by applying pressure to the top of the tank. The DP cancels this pressure to leave you with an accurate level measurement.

The Viatran DP is available with a local display (standard) and optional HART communication (see previous page). All stainless steel housing is also available if needed.



All stainless steel version

MODEL 350 | 351: Scrape it, don't scrap it.



FEATURES:

- Flush Rugged Diaphragm
- 316SS Wetted Parts
- Three Tri-clamp sizes
- Fast CIP process recovery
- No oil fill

Go ahead. Scrape the Model 350. Use metal. Use plastic. It's been designed to take it. So dish it out. It's used in dog food factories, in meat processing factories, or anywhere the media is thick. We encourage the people on the line to scrape the process off the diaphragm.

This unit is especially rugged. Originally envisioned for the oil field, we sanitized it and sold it to a meat processor. For decades it's handled whatever has been throw at it, or scraped from it.

The Model 350 and the Model 351 (the same unit only with external controls) will handle your process. More importantly, it will handle your cleaning process.



MODEL 517: Water Treatment

Viatran also has a complete line of level transmitters for water treatment. If you have a facility on-site that cleans water, then you can use the Viatran Model 517, for clean water level applications.

517



Dynisco and Viatran. Making the family bigger.

The Viatran / Dynisco combination simply offers more solutions in the Sanitary family. An expert in pressure and temperature measurement, has been around for 55 years. When the temperatures get hot, Dynisco's products offer the best solution for accurate pressure measurement. Accurate, stable, reliable and repeatable, Dynisco products are field proven. This offers you the kind of reliability that makes your job easier.

PT 410 FEATURES:

- Accuracy better than $\pm 0.25\%$
- Measures up to 1000°F (538°C)
- Meets FDA and USDA requirements
- Inconel, SS or Hastelloy diaphragm
- 0 - 500 to 0 - 10,000 psi
- 3.33 mV/V FSO
- HART Capable



MODELS PT410 | PT418

Designed for extrusion applications in the food, medical or pharmaceutical industries, these Dynisco solutions offers phenomenal repeatability and reliability. Flush mount or Easy to install, easy to operate, both solutions work very well in high temperature applications.

MODELS PT375

For applications requiring a zero volume pressure port, the Model PT375 was also designed to handle the rigors of the CIP process. The metal to metal high pressure seal (shown with the fitting) offers reliable flush mount pressure measurement up to 30K PSI.

PT 418 FEATURES:

- Accuracy better than $\pm 0.5\%$
- Measures up to 617°F (325°C)
- Meets FDA and USDA requirements
- Dymax[®] coated convoluted SST wetted parts
- 0 - 1,000 to 0 - 10,000 psi
- 3.33 mV/V FSO



PT 375 FEATURES:

- Zero volume pressure port
- Meets cleanability standards
- Inconel 718 pressure fitting
- Internal shunt calibration
- Metal-to-metal pressure seal



MODEL ww517: Wastewater Treatment

Viatran also has a complete line of level transmitters for water treatment. If you have a facility on-site that cleans water, then you can use the Viatran Model 517, for clean water level applications, or the Viatran WW517 for wastewater applications. With a 31/2" Teflon coated sensor, the Model WW517 is your clog-free level measurement solution.

ww517



Viatran's Sanitary Pressure and Level Measurement Family