



**LEVEL INSTRUMENTATION
PRODUCT APPLICATIONS**

SLOP OIL TANKS

Vessels used for waste recovery of hydrocarbon fluids

- Contains a mixture of hydrocarbons & water
- May contain sticky materials
- Sludge level application
- Digester level application

SLOP OIL TANKS

Suitable Products



Float & Displacer Level Switches, External chamber

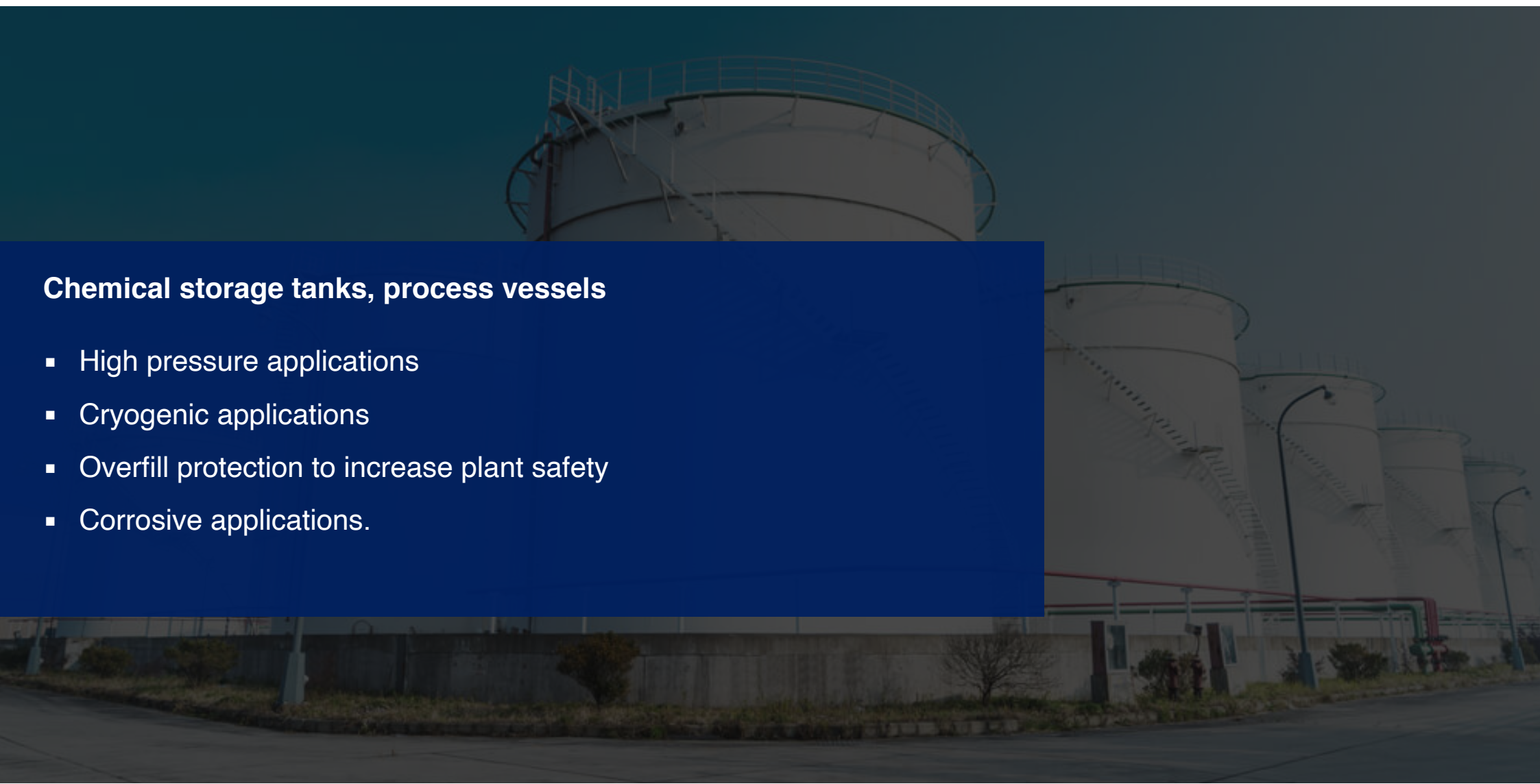


Float Operated Level Transmitters

CHEMICAL INDUSTRIES

Chemical storage tanks, process vessels

- High pressure applications
- Cryogenic applications
- Overfill protection to increase plant safety
- Corrosive applications.



Suitable Products



Float level switches, for ambient pressure



MLI with PTFE lining, special alloy construction, PVDF construction, for High pressure



Radar preferred with bridle MLI construction, for accurate measurement

FOOD INDUSTRIES

- Liquid storage tanks for water, syrup, milk, citric acid
- Hygienic environment
- SS316 / SS316L construction
- May contain suspended materials
- Solid silos-Powder, granules etc



Suitable Products



Float & displacer Level Switches



**FLOAT OPERATED LEVEL
TRANSMITTERS, FLX
SERIES, MLX SERIES**



**Float operated Level Transmitters,
Rotary paddle**

CONDUCTIVE LIQUIDS

Processes which involves Liquids which are conductive in nature

- Multi Point level measurement
- Constant level monitoring
- Flexible instrumentation

Suitable Products



Conductive Level Switches, CLS series

PETROLEUM & HYDROCARBON INDUSTRY



Processes which involves Liquids which are conductive in nature

- To detect the interface between two liquids
- Continuous / Point level measurement
- High pressure
- High temperature applications



Suitable Products



PVDF/SS Construction MLI



MLI with PTFE Lining, special alloy construction.



Radar preferred with bridle MLI construction, for accurate measurement

SLURRY

- Slurry contains liquid with suspended particles
- Liquid with higher density
- Demands rugged product for level measurement
- Ammonia storage



Suitable Products



Float & Displacer level switches

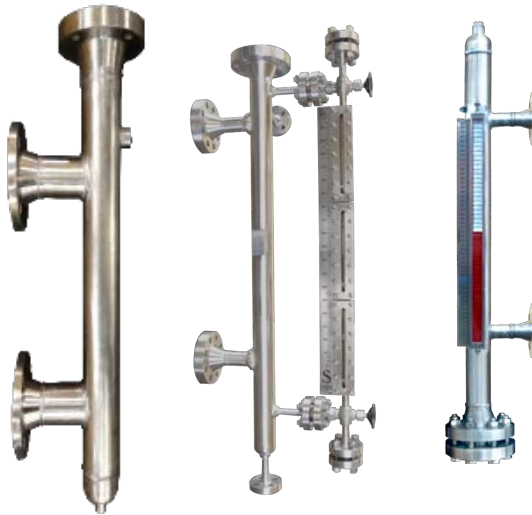
OIL & GAS INDUSTRY

- On shore & offshore applications
- High pressure applications
- Critical applications
- Demands highly reliable products for liquid level measurement

Suitable Products



MLI-series



**External chamber for &
level Transmitters**



Bilge Level Switch

BOILER APPLICATIONS / STEAM GENERATION



- High Temperature Applications
- High Pressure Applications
- Level Measurement Application for Deaerators
- Heat Exchangers

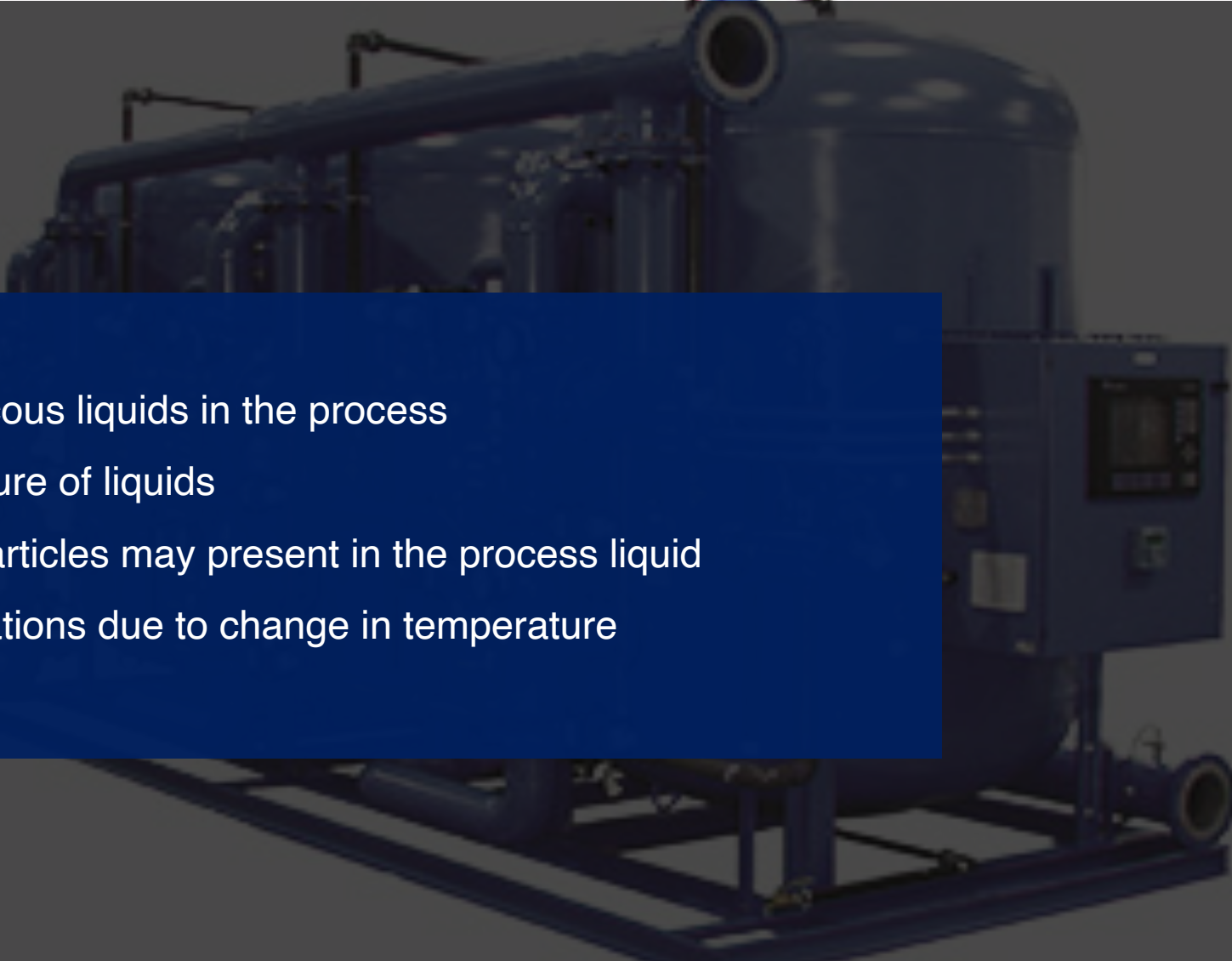
Suitable Products



**MLI in SS, With IBR/PED
Certification with Super
Alloy Construction**

LUBRICATION & FILTRATION SYSTEMS

- Thick and viscous liquids in the process
- Contains mixture of liquids
- Suspended particles may present in the process liquid
- Viscosity variations due to change in temperature



Suitable Products



Float level switches,
VFS/HFS series

PETROCHEMICAL INDUSTRIES

- Detect interface of two liquids
- Demands highly reliable and rugged products for liquid level measurement.

Suitable Products



MLI with PTFE lining, special alloy construction.

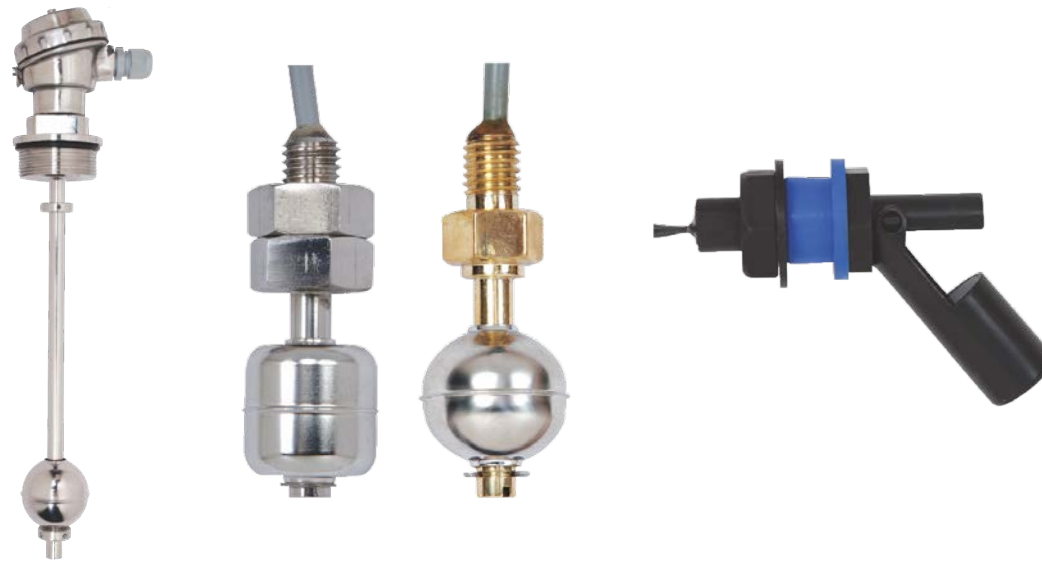


Radar preferred with bridle MLI construction, for accurate measurement.

VENDING MACHINES

- High temperature liquids, Boiling water
- Space constraint-requires design of smaller switches
- Uncontaminated and efficient operations
- Requires continuous /reliable/repeatable Level Measurement

Suitable Products



Compact VFS, MVFS, MHFS-series

MARINE /SHIP BUILDING APPLICATIONS

- Typical applications are ship-wide and include high, low and/or intermediate level alarms
- automatic pump-up and pump-down control
- Single-point, multi-point and continuous level monitoring
- Harsh conditions like turbulent liquid, High temperature & Pressure fluids, liquid interfaces
- Used in Bilges of Ships (Space between the engine room floor & bottom of the ship)
- Mixture of oil & water usually settles in bilge of a ship
- Oil Storage tanks in the ships

Suitable Products



Bilge Level Switches, MLI, MBLI , VFS , EXCS, Float Level Switches

WATER & WASTEWATER TREATMENT



- Pumping stations, level monitoring in different stages of water treatment plant
- Variety of products available catering to requirements such as mounting constraint, visual indication etc

Suitable Products



Float Level Switches



Float Level Transmitters



Sight Level Gauges

PROCESSES

- Measuring & monitoring liquids in process tanks, process vessels, Drain pits for wastewater, water, condensate
- High pressure & high temperature applications
- Level/Liquid interface
- Overspill protection & tank dry up prevention in various utilities

Suitable Products



VFS Series, MLX series, sight Level Series, external chamber with float level switches.

CHEMICALLY AGGRESSIVE MEDIA

- Metal processing industries use strong sulphuric acid/ hydrochloric acid to remove impurities from molten ore
- Manufacturing of specialty chemicals
- Toxic and strong acidic environment
- Volatile media

Suitable Products



PVDF/SS construction float level series,
float level transmitters, MLI with PTFE
lining/special alloy construction/PVDF
construction, for ambient pressure



Radar preferred with bridle MLI
construction, for accurate measurement

PHARMACEUTICAL APPLICATIONS



- Liquid Level Measurement in Bio reactors, Filter systems, mixing vessels
- Hygienic environment

Suitable Products



PVDF/SS 316L Float Level Switch, Float Level Transmitter, MLI with PTFE lining / Special alloy Construction / PVDF Construction,



Radar preferred with bridle MLI construction, for Accurate Measurement

Level Instrumentation for Point Level Measurement & Control



**Float & Displacer Type
Level Switches**



**Bilge level Switches &
Rotary Paddle Level Switches**

Level instrumentation for Continuous measurement, Visual indication & Control

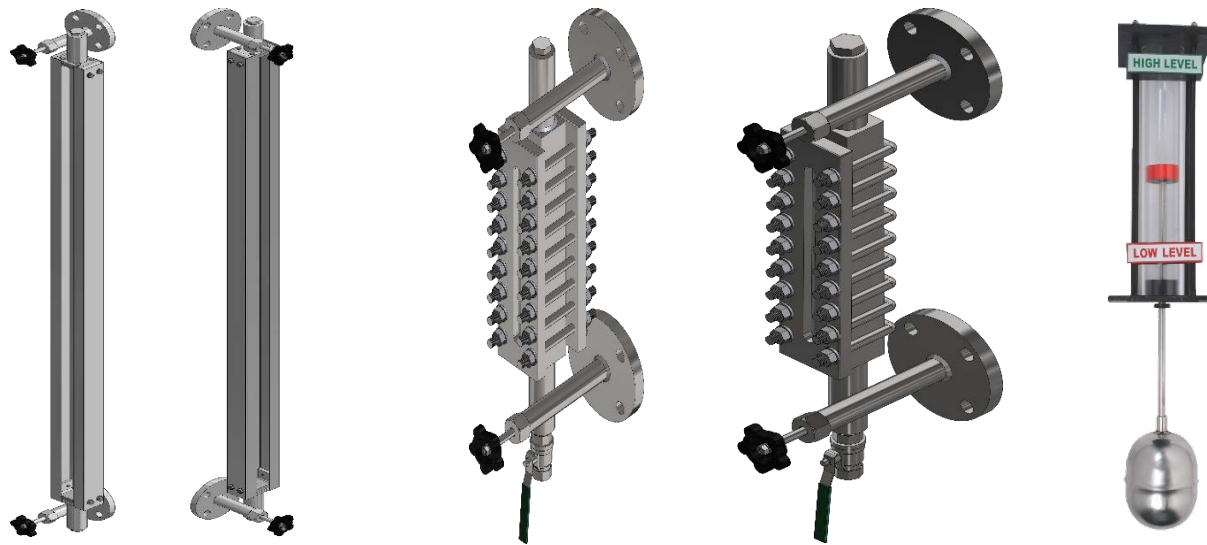


Reed Chain Level Transmitters
&
Magneto Strictive Level Transmitters



Magnetic Level Indicators, Bridle
Indicators with GWR Solutions,
By-pass Chambers & Stilling Wells

Level Instrumentation for Visual Indication



Sight Level Gauges

Instrumentation Accessories



Flushing Rings

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THANK YOU