



Analytically Correct Engineered Systems

Bespoke sample systems designed to easily install, monitor and maintain

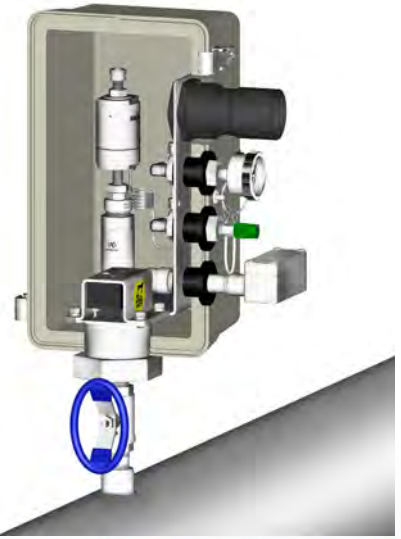
Model 530 System Overview

ACES™ systems are designed to meet specific application needs; ensuring sample integrity is maintained throughout the sample extraction and pre-conditioning process. The Model 530 consists of a Genie® Direct Drive™ 755 Probe Regulator in a heated enclosure and can be installed and maintained on a pressurized source without a special insertion device. **It is best suited for sampling transmission quality natural gas at locations where ambient temperature may cause condensation of the sample gas.**

The Model 755™ probe regulator tip contains Genie® Membrane Technology™ which separates unwanted liquid aerosols and droplets from the gas sample at process conditions. The pressure regulator is built into the probe immediately downstream of the membrane, inside of the pipeline. Heat is transferred from the flowing pipeline gas to the regulator to prevent condensation from occurring as a result of Joule-Thomson (JT) cooling. The heated enclosure minimizes the effect of ambient temperature on the sample to further avoid condensation. These combined actions produce a low-pressure, liquid -free sample that is representative of the source and ready for transport to the analyzer.

Vertical Style Enclosure

The vertical style enclosure is easy to use and allows the sample pressure and enclosure temperature to be monitored at a quick glance, without having to remove the enclosure. Additionally the tubing, fittings, and other accessories are mounted to a hardware bracket that allows complete removal of the sample probe and/ or enclosure without disturbing any of the components mounted on the bracket.



Product Brief

Applications

- Continuous Natural Gas Sampling
 - Transmission lines
 - LNG Facilities (non-cryogenic services)
- Sampling of various types of gases in the refinery and petrochemical industries

Note: This system is not recommended for sample streams containing Hydrogen in concentrations above the lower explosive limit (LEL).

Key Features

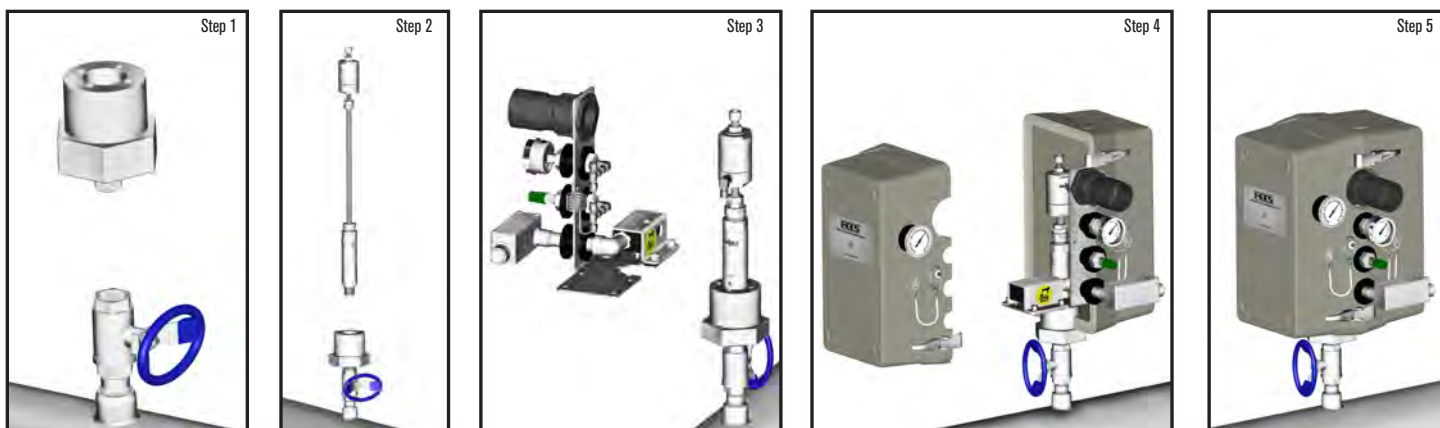
- Can be installed and maintained on pressurized source
- Genie® Membrane Technology™ allows for liquid rejection inside of the pipe at process conditions, preserving sample integrity
- Flowing pipeline gas helps to offset Joule-Thomson (JT) Cooling at pressure regulation point, preventing condensation
- Heated enclosure helps prevent condensation caused by ambient cooling
- Sample pressure and enclosure temperature can be monitored externally
- Fittings, tubing, etc. are mounted on a pre-assembled hardware bracket that can be left in place while the probe is maintained or easily replaced for critical sampling applications where down time is not allowed.

Technical Specifications

Maximum pressure rating	3,750 psig (258.6 Bar)
Outlet pressure range	0-50 psig (0-3.4 bar) standard, others available
Temperature range	-15 °F (-26.1 °C) to 185 °F (85 °C)
Process connection	3/4" and 1" NPT standard, 1.5" NPT and flanged available
Probe lengths	L: 8" (20cm), 12" (31cm), 18" (46cm), 24" (61cm), 36" (91cm), 48" (122cm) Custom lengths from 9" to 48" (22.8 to 121.9 cm) available
Port sizes	Outlet: 1/8" Tube Fitting Relief valve vent: 1/4" NPT
Power requirements	110 to 265 VAC, 80W or 24VDC, 25W
Conduit connection	1/2" NPT
Electrical component approval	CSA: Class 1, Division 1, Groups C&D, T3 Heater ATEX: Zone 1, II 2 6D Ex d 11C
Wetted materials	Machined parts: 316 stainless steel /NACE compliant and Kevlar® threaded bushing All other metal parts: stainless steel / NACE compliant Regulator seat material: PFA Tubing & fittings: 316 stainless steel Sealing material: PTFE/Neoprene rubber standard, others available Membrane: BTU/Type 6 - inert

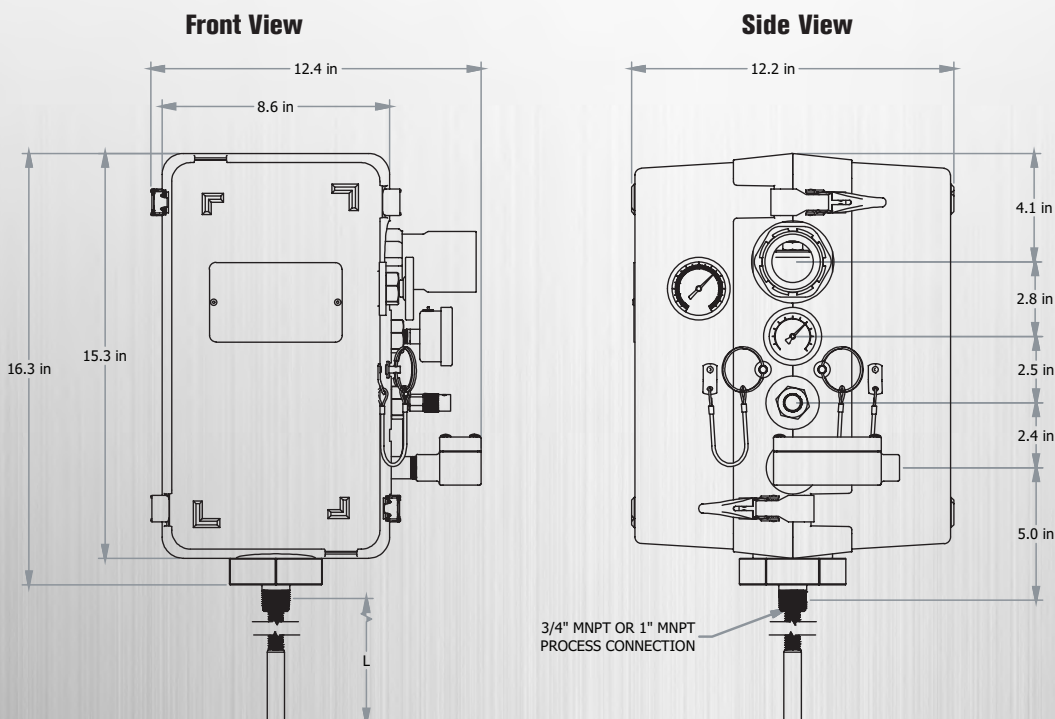


Installation Overview



1. Mount the enclosure coupling to an existing process valve.
2. Thread the Direct Drive™ 755 Probe Regulator into the coupling.
3. Mount the hardware bracket with pre-assembled parts to the enclosure coupling.
4. Secure the enclosure around the probe and hardware bracket assembly.
5. The enclosure is now ready for the power and sample tubing to be connected.

Dimensions



Representantes / Distribuidores Exclusivos

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A+ Corporation is the leader in Analytically Correct™ Sample Extraction and Conditioning Systems.

Contact us for expert product application assistance.

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Analytically Correct Engineered Systems

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Model 531 System Overview

ACES™ systems are designed to meet specific application needs; ensuring sample integrity is maintained throughout the sample extraction and pre-conditioning process. The Model 531 consists of a Genie® Direct Drive™ 750 probe and a GHR™ heated pressure regulator in an enclosure, and it can be installed and maintained on a pressurized source without a special insertion device. **It is best suited for sampling natural gas near its dew point.**

The Model 750™ probe can be inserted and retracted from a pressurized line through a full opening valve. Its tip contains Genie® Membrane Technology™ which separates unwanted liquid aerosols and droplets from the gas sample at process conditions. Next, the heated pressure regulator reduces the sample pressure while preventing condensation from occurring as a result of Joule-Thomson (JT cooling). The heated enclosure minimizes the effect of ambient temperature on the sample to further avoid condensation. These combined actions produce a low-pressure, liquid-free sample that is representative of the source and ready for transport to the analyzer.

Vertical Style Enclosure

The vertical style enclosure is easy to use and allows the sample pressure and enclosure temperature to be monitored at a quick glance, without having to remove the enclosure. Additionally the regulator, fittings, and other accessories are mounted to a hardware bracket that allows complete removal of the sample probe and/or enclosure without disturbing any of the components mounted on the bracket.

Technical Specifications

Maximum pressure rating	3,750 psig (258.6 Bar)
Outlet pressure range	0-50 psig (0-3.4 bar) standard, others available
Temperature range	-15 °F (-26.1 °C) to 185 °F (85 °C)
Process connection	3/4" and 1" NPT standard, 1.5" NPT and flanged available
Probe lengths	L: 8" (20cm), 12" (31cm), 18" (46cm), 24" (61cm), 36" (91cm), 48" (122cm) Custom lengths from 9" to 48" (22.8 to 121.9 cm) available
Port sizes	Outlet: 1/4" Tube Fitting Relief valve vent: 1/4" NPT
Power requirements	110 to 265 VAC, 80W or 24VDC, 25W
Conduit connection	1/2" NPT
Electrical component approval	CSA: Class 1, Division 1, Groups C&D, T3 Heater ATEX: Zone 1, II 2 GD Ex d 11C
Wetted materials	Probe and regulator machined parts: 316 stainless steel /NACE compliant and Kevlar® threaded bushing All other metal parts: stainless steel / NACE compliant Tubing & fittings: 316 stainless steel Sealing material: PTFE/Fluoroelastomer/Neoprene rubber standard, others available Membrane: BTU/Type 6 - inert



Product Brief

Applications

- Continuous natural gas sampling
 - Gathering
 - Processing
 - Transmission
 - LNG facilities (non-cryogenic service)
- Sampling of various types of gases in the refinery and petrochemical industries.

Note: This system is not recommended for sample streams containing Hydrogen in concentrations above the lower explosive limit (LEL).

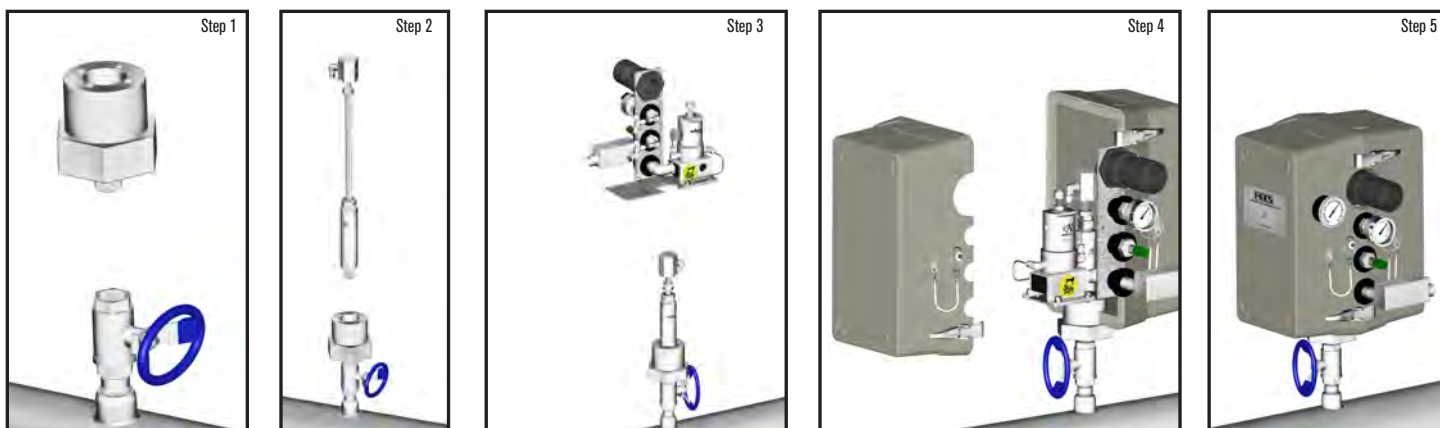
Key Features

- Can be installed and maintained on a pressurized source
- Genie® Membrane Technology™ allows for liquid rejection inside of the pipe at process conditions, preserving sample integrity
- Heated pressure regulator and enclosure help to prevent condensation
- Sample pressure and enclosure temperature can be monitored externally
- Regulator, fittings, tubing, etc. are mounted on a pre-assembled hardware bracket that can be left in place while the probe is maintained or easily replaced for critical sampling applications where down time is not allowed.



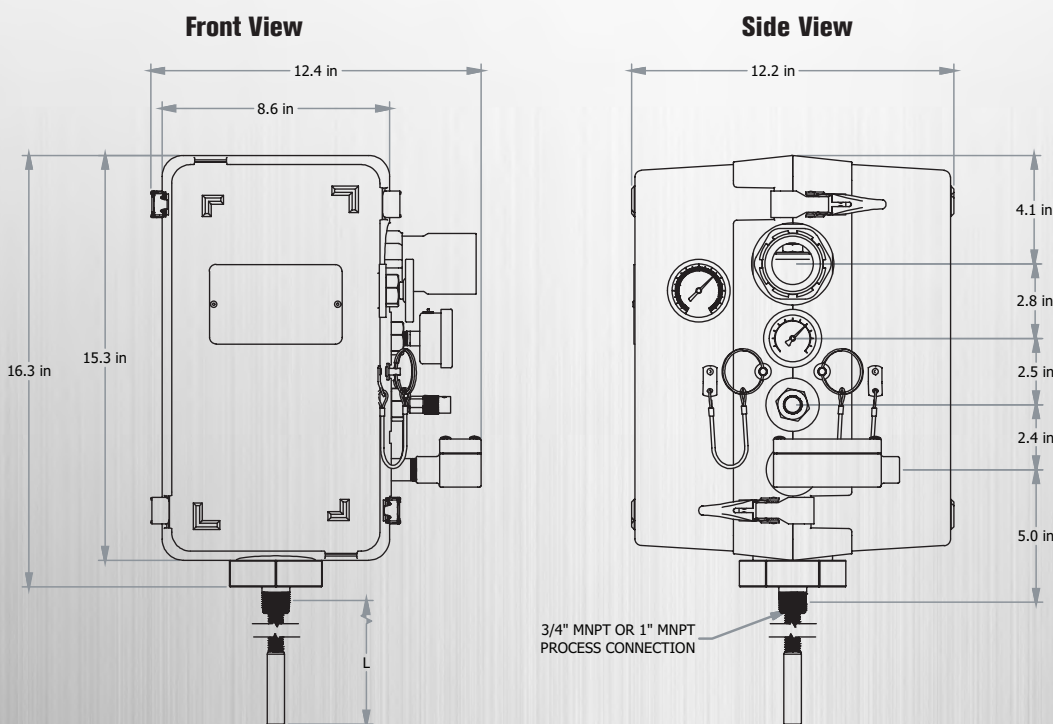
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Installation Overview



1. Mount the enclosure coupling to an existing process valve.
2. Thread the 750 probe into the coupling.
3. Mount the hardware bracket with pre-assembled parts to the enclosure coupling.
4. Secure the enclosure around the probe and hardware bracket assembly.
5. The enclosure is now ready for the power and sample tubing to be connected.

Dimensions



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Analytically Correct Engineered Systems

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Model 532 System Overview

ACES™ systems are designed to meet specific application needs; ensuring sample integrity is maintained throughout the sample extraction and pre-conditioning process. The Model 532 consists of a Genie® Direct Drive™ 750 probe and a JTR-H™ four stage heated pressure regulator in a heated enclosure, and can be installed and maintained on a pressurized source without a special insertion device. **It is best suited for sampling high pressure natural gas near its dew point and/or low source temperature or at locations where the source pressure fluctuates.**

The Model 750™ probe tip contains Genie® Membrane Technology™ which separates unwanted liquid aerosols and droplets from the gas sample at process conditions. Next, the heated pressure regulator reduces the sample pressure in multiple stages; supplying a steady output pressure even when exposed to swings in supply pressure and preventing condensation from occurring as a result of Joule-Thomson (JT cooling). These combined actions produce a low-pressure, liquid-free sample that is representative of the source and ready for transport to analyzer.

Vertical Style Enclosure

The vertical style enclosure is easy to use and allows the sample pressure and enclosure temperature to be monitored at a quick glance, without having to remove the enclosure. Additionally the regulator, fittings, and other accessories are mounted to a hardware bracket that allows complete removal of the sample probe and/or enclosure without disturbing any of the components mounted on the bracket.

Technical Specifications

Maximum pressure rating	3,750 psig (258.6 Bar)
Outlet pressure range	0-50 psig (0-3.4 bar) standard, others available
Temperature range	-15 °F (-26.1 °C) to 185 °F (85 °C)
Process connection	3/4" and 1" NPT standard, 1.5" NPT and flanged available
Probe lengths	L: 8" (20cm), 12" (31cm), 18" (46cm), 24" (61cm), 36" (91cm), 48" (122cm) Custom lengths from 9" to 48" (22.8 to 121.9 cm) available
Port sizes	Outlet: 1/4" Tube Fitting Relief valve vent: 1/4" NPT
Power requirements	110 to 265 VAC, 80W or 24VDC, 25W
Conduit connection	1/2" NPT
Electrical component approval	CSA: Class 1, Division 1, Groups C&D, T3 Heater ATEX: Zone 1, II 2 6D Ex d 11C
Wetted materials	Probe and regulator machined parts: 316 stainless steel /NACE compliant and Kevlar® threaded bushing All other metal parts: stainless steel / NACE compliant Tubing & fittings: 316 stainless steel Sealing material: PTFE/Fluoroelastomer/Neoprene rubber standard, others available Membrane: BTU/Type 6 - inert



Product Brief

Applications

- Continuous gas sampling in any process industry:
 - High pressure sources
 - Natural gas having a high moisture or hydrocarbon dew point
 - Natural gas storage facilities

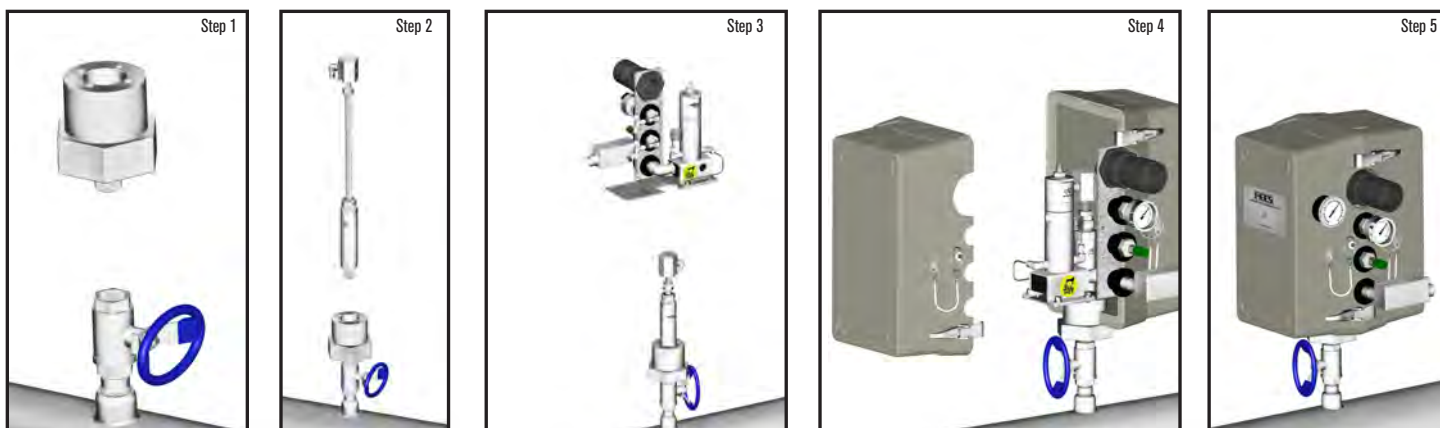
Note: This system is not recommended for sample streams containing Hydrogen in concentrations above the lower explosive limit (LEL).

Key Features

- Can be installed and maintained on a pressurized source
- Genie® Membrane Technology™ allows for liquid rejection inside of the pipe at process conditions, preserving sample integrity
- Heated, multi-stage pressure regulator and enclosure help to prevent condensation
- Sample pressure and enclosure temperature can be monitored externally
- Regulator, fittings, tubing, etc. are mounted on a pre-assembled hardware bracket that can be left in place while the probe is maintained or easily replaced for critical sampling applications where down time is not allowed.

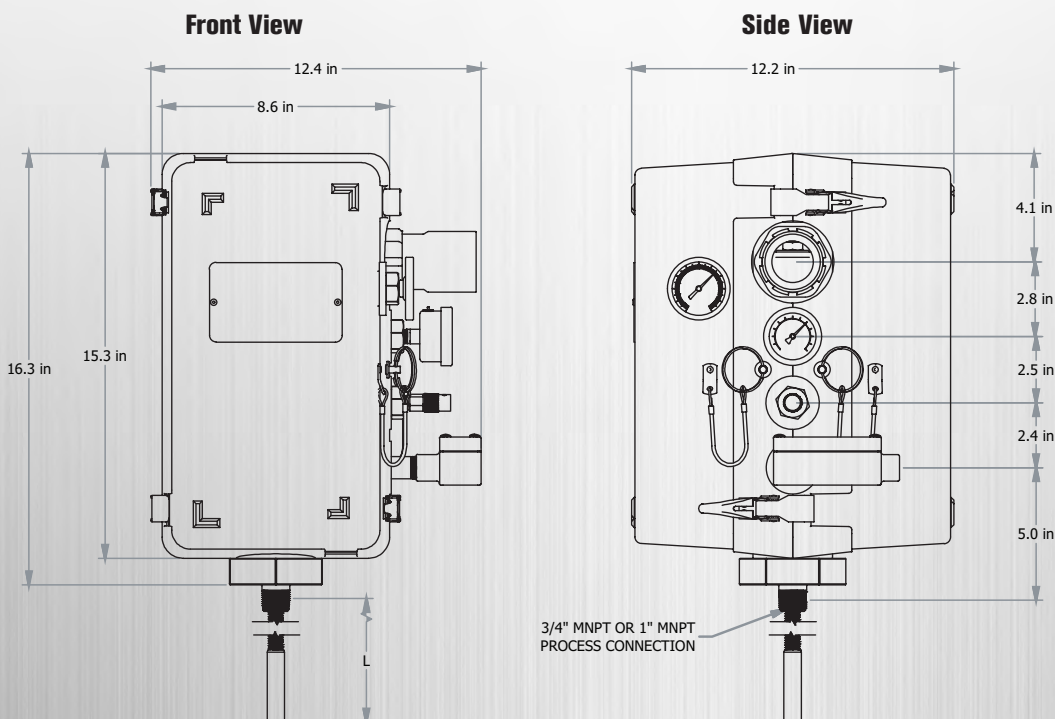


Installation Overview



1. Mount the enclosure coupling to an existing process valve.
2. Thread the 750 probe into the coupling.
3. Mount the hardware bracket with pre-assembled parts to the enclosure coupling.
4. Secure the enclosure around the probe and hardware bracket assembly.
5. The enclosure is now ready for the power and sample tubing to be connected.

Dimensions



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