Analytically Correct Engineered Systems

Application Worksheet

A completed application worksheet is necessary to help select the appropriate system for your specific application.

Customer Contact Information

Company: _____ Project: _____ RFQ#: _____

Contact: _____ Phone: _____ Email: _____

Process Conditions

Please submit a sample composition with complete worksheet.

Fluid Velocity: _____(ft./s) Temperature: _____ (°F/°C) Pressure: _____ (PSIG/BAR)

Sample Phase: Gas Liquid 2-Phase Unknown

Probe Requirements

Will the probe be installed/removed through a ball valve without depressurizing the pipeline? **Yes** or **No**

Regulator Required: Yes or No If yes, Outlet Range: _____ (PSIG/BAR)

Additional Notes: (Particulates present, intermittent flow, space constraints, etc.)

_____

Sample Point Information

Location: (Pipeline, Plant, Refinery, etc) _____ Sample Flow Rate: _____ (liters/min)

Environment: Indoor Outdoor Temperature Range: Ambient: _____ (°F/°C) Controlled: _____ (°F/°C)

Area Classification and Electrical Requirements

Area Classification: CSA (Class 1, Div 1, Groups C&D) ATEX (Zone 1, II 2 GD Ex d IIC)

Power Requirements: 24 VDC 110–220 VAC Conduit (CSA only) CGB Fitting

Additional Power Requirement Notes: _____

Special Requirements and Materials of Construction

Materials of Construction: 316 SS (Standard) Other _____

Coatings: SilcoNert 2000® Dursan® Silcolloy 1000® Other _____

Seal Material: (Standard is a combination of Fluorolastomer, Perfluoroelastomer, Neoprene)

Standard All Fluorolastomer All Perfluoroelastomer All Neoprene Other _____

See page 2 for Dimensional Requirements

ACES

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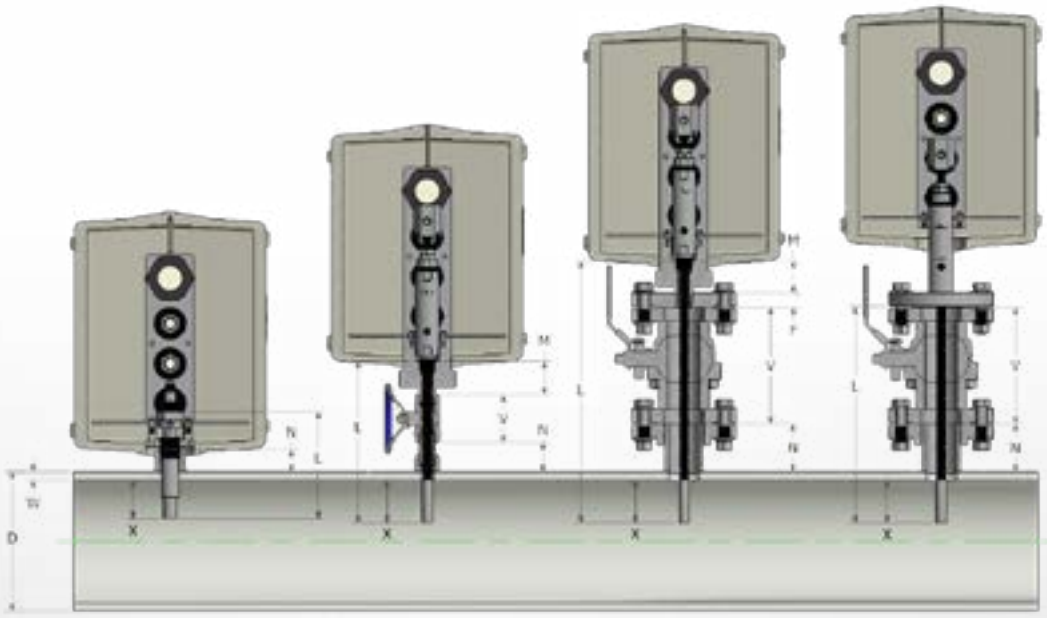
Dimensional Requirements



Type I	Type II	Type III	Type IV
NPT for FNPT Connection	NPT Threaded for Full Bore Ball Valve Install	NPT Probe Threaded into Adapter Flange	Unibody Flanged Probe (No Threads)

Connection Style: Type I Type II Type III Type IV Pipe Diameter (D): _____ (Inches/mm)

Types I & II - NPT Connection Size: _____ Types III & IV - Flange: Size: _____ Rating: _____ Face: _____

Probe Length Calculation Tool		
Dimension	**Description**	**Value (Inch/mm)**
X	Insertion Depth	
W	Pipe Wall Thickness	
N	Nozzle or Nipple Length	
V	Valve Length	
M	Mounting Fitting: Type I & IV = 0; Type II & III = 2.5″ (63 mm)	
F	Types I, II & IV = 0; Type III = Flange Thickness	
L	Estimated Probe Length (Rounded Up)	

Probe Diameter Requirements			
Probe Type	**Connection Size**	**Probe Outer Diameter (OD)**	**Min. Piping Inner Diameter (ID)**
GP2/GPR/GPSD	¾″ NPT	0.9″	0.91″
GP2/GPR	1″ NPT	1.1″ (0.9″ available)	1.141″
750/755/760/702	¾″, 1″, 1 ½″	0.7″	0.75″

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

Contact us for expert product application assistance.

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