

Level Application Questionnaire

Please send completed sheet to: fielddevices-support@se.com for evaluation

Selected options may not be available for all applications

Quick questionnaire on Page 3

Company Name _____
 Address _____
 City, State, Zip _____
 End User _____
 Tag # _____

Contact Name _____
 Phone Number _____
 Email Address _____
 Date _____
 Application Description _____

Desired Application

- Level
- Interface
- Density
- Open-channel flow (radar only)

Desired Technology

- Buoyancy / Displacer (contact)
- Free Space Radar (non-contact)
- Purged Bubble Tube (contact)
- d/p Cell / Hydrostatic (contact)
- Guided Wave Radar (contact)

If radar selected, is a stilling well or bypass chamber used?

- No
- Yes

Is tank vented or open to atmosphere?

- No
- Yes

For replacement applications, what is the original instrument?

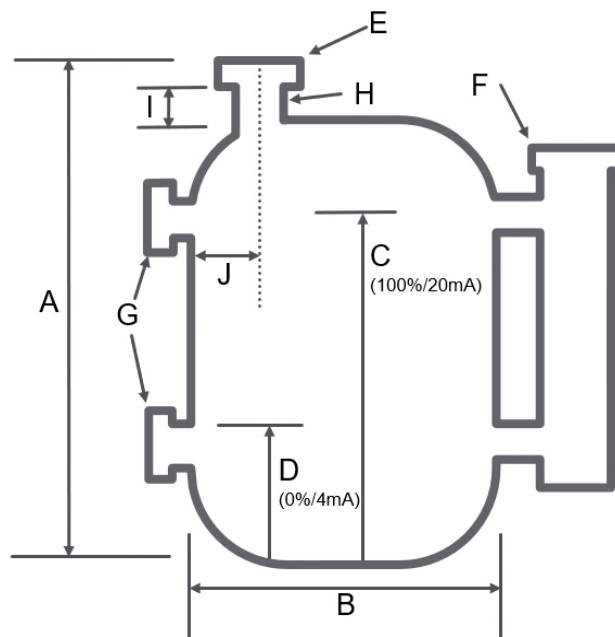
Technology type: _____ Make: _____ Model: _____

General Information

Tank material _____
 Unit of measurement _____
 A: Tank height _____
 B: Tank width _____
 C: Max fluid level (100% / 20mA) _____
 D: Min fluid level (0% / 4mA) _____
 E: Process connection* – Radar / Bubbler _____
 F: Process connection* – Buoyancy _____
 G: Process connection* – d/p _____
 H: Nozzle inside diameter _____
 I: Nozzle height _____
 J: Nozzle center to wall _____

*request size and pressure class if available (i.e. 3" 150lb, 1/2" NPT)

Remarks _____



Notes: Dimension C and D are placed arbitrarily in the diagram
 Additional bypass chamber dimensions on Page 3

Process / Tank Conditions

Media name _____ Liquid Slurry Paste Solid (Powder/Dust) Solid (Granulates)
 Media characteristics Clean Bubbling Surface Viscous Build-up Turbulent Corrosive Condensing vapors Dusty
 Foam No Yes Foam Height? _____ in mm
 Liquid surface Flat/Calm Disturbed Agitated Solid surface Flat Medium slope Steep slope
 All radar applications dK of liquid _____ Changing DK (min _____ / max _____)
 All non-radar applications Density of heavier liquid _____ kg/m3 Density of lighter liquid _____ kg/m3 (interface only)
 Density applications Low range density _____ kg/m3 Upper range density _____ kg/m3
 Process temperature min: _____ normal: _____ max: _____ °F °C
 Ambient temperature min: _____ normal: _____ max: _____ °F °C
 Process pressure min: _____ normal: _____ max: _____ psia psig bara barg kPa
 Baffles No Yes Internal heating/cooling No Yes
 Additional internal obstacles No Yes - please describe and add sketch if available

General Specifications

Communication HART with 4-20mA Foundation Fieldbus PROFIBUS PA Pneumatic Other _____
 Hazardous Area Design Explosionproof Intrinsically Safe Nonincendive Non-Ex / Pneumatic
 Area Classification Class _____ Division _____ Group _____
 Directive / Certification ATEX cFMus and cQPSus EAC IECEx NEPSI INMETRO Non-Ex / Pneumatic
 Txmtr housing material Stainless Steel Aluminum
 Cable entry 1/2" NPT M20 x 1.5 Remote display No Yes
 Pushbutton display No Yes Calibration certificate No Yes (multipoint) Yes (standard)
 Additional certification SIL2 CRN NACE Declaration of Material Compliance 2.1 PMI Pressure Test
 List 3.1 Material Certificate of Pressure Retaining Parts Dye Penetrant Testing Other _____

Level Application Questionnaire

Buoyancy/Displacer Application (see illustration on Page 3 for additional bypass chamber dimensions)

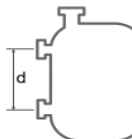
Process wetted material Carbon Steel Stainless Steel Hastelloy C Inconel Other _____
 Flange contact face RF SF RJF B1/B1 B2/B2 D/C D/D F/F F/E L/L Other _____
 Displacer material Stainless Steel Hastelloy C Inconel PTFE Other _____
 Interface measurement No Yes Density measurement No Yes

Remarks _____

d/p Cell / Hydrostatic

Txmtr process wetted material Carbon Steel Stainless Steel Hastelloy C Monel Kynar Other _____
 Txmtr fill fluid DC200 Silicone Fluorinert FC77 Other _____
 Pressure seals required No Yes - 1 seal 2 seals
 Pressure seals wetted material Stainless Steel Hastelloy C Titanium Monel Inconel Other _____
 Pressure seal fill fluid DC200 Silicone Fluorinert FC77 DC704 Silicone Neobee M20 Other _____
 Interface measurement No Yes Density measurement No Yes

Remarks _____



What is the dimension "d" (the distance between the center point of the process connections)?

_____ in mm

Free Space Radar / Guided Wave Radar Application (see illustration on Page 3 for additional bypass chamber dimensions)

Gasket sealing material FKM/FPM Kalrez® 6375 EPDM PFA Other _____
 Flange contact face RF FF RJ LG LF LT LM SG SF ST SM
 B1 B2 B2 Form C Form D Form E Form F Other _____
 Threaded connection G _____ in _____ in NPT
Free Space Radar
 Antenna material Stainless Steel PTFE PP PEEK Other _____
 Antenna type Horn Wave Guide Drop Lens Other _____
 Metallic horn options Heating/Cooling Purging (Liquid Gas)
 Antenna extension No Yes, _____ in mm S-bend L-bend
Guided Wave Radar
 Probe material Stainless Steel Hastelloy C PVDF Other _____
 Probe type Single Rod Double Rod Single Cable Double Cable Coax Other _____
 Probe length _____ in mm segmented (only Rod/Coax)
 Probe end Counterweight Chuck Crimped End Open End Turnbuckle Threaded End None

Remarks _____

Purged Bubble Tube

Air supply Instrument air Nitrogen Other _____
 Air supply pressure _____ psig kPa
 Notched Bubble pipe size 1/4 in / DN 8 3/8 in / DN10
 d/p Cell transmitter pipe size 1/4 in / DN 8 3/8 in / DN10
 Rotameter No Yes, max pressure: _____ psig kPa
 Differential pressure regulator No Yes, max pressure: _____ psig kPa
 Bubble tube distance from bottom of tank _____ in mm (recommendation is at least 3 in / 75 mm)
 Interface measurement No Yes Density measurement No Yes

Remarks _____

Level Application Questionnaire

Quick Questionnaire – don't have all the answers yet? This information helps us start a level measurement solution.

Is the tank open, vented or closed? _____

What is the temperature of the process media? _____

What is the process pressure? _____

What are the media properties (i.e. density)? _____

What materials are compatible with the process? _____

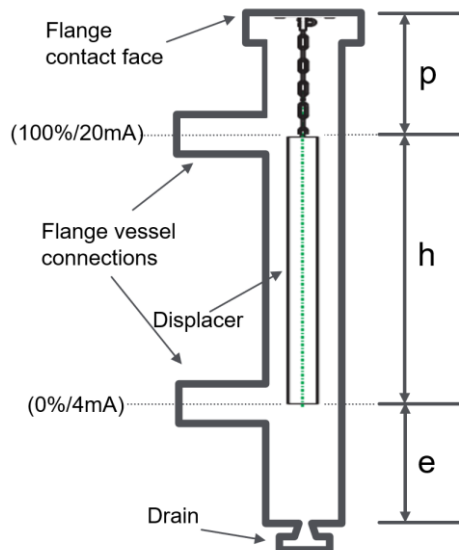
What are the available tank connections? _____

What is your economic situation? _____

Remarks _____

Bypass Chamber Dimensions / Illustrations

Bypass Chamber with Buoyancy/Displacer



p: _____ □ in □ mm

h: _____ □ in □ mm

e: _____ □ in □ mm

Bypass chamber connection _____

Bypass chamber material _____

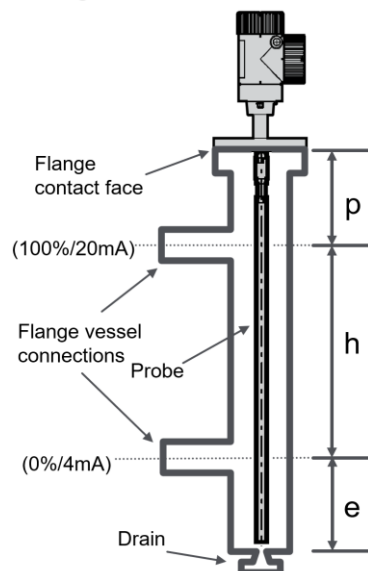
Bypass chamber flange vessel connections _____

Bypass chamber flange contact face _____

Bypass chamber drain _____

Chamber ID _____

Bypass Chamber with Guided Wave Radar



Sketch / Additional Remarks