



# Aegis<sup>®</sup> VM-RS Series

## Reactor Sampling System Questionnaire

Company: \_\_\_\_\_ Contact: \_\_\_\_\_ Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ E Mail: \_\_\_\_\_  
 Reactor Type: \_\_\_\_\_ Reactor Size: \_\_\_\_\_ Project \_\_\_\_\_

### Process Conditions

Chemical ( s ): \_\_\_\_\_ Temperature ° F: \_\_\_\_ Min \_\_\_\_ Max. PH: \_\_\_\_  
 Corrosive:  Yes  No Pressure ( PSI ) \_\_\_\_ Min. \_\_\_\_ Max. Vacuum \_\_\_\_\_ Vapor Pressure ( PSI ) \_\_\_\_ Viscosity ( cp ) \_\_\_\_  
 Solids/Crystals:  Yes  No Micron Particle Size: \_\_\_\_\_  
 Solidification Temperature of Chemical ° F \_\_\_\_ Toxicity:  Low  High Environmental Issue:  Yes  No  
 Sample Container:  Open Bottle  Sealed Bottle  Piston Injector  Sample Collector  
 Sample Volume: \_\_\_\_ ml \_\_\_\_ oz. Does Product Solidify in Container:  Yes  No

### Design Data

Existing Sampling System: \_\_\_\_\_ Mode of Failure: \_\_\_\_\_  
 a. Reactor Flange Connection: Size \_\_\_\_\_ Class \_\_\_\_\_ or DN \_\_\_\_\_ PN \_\_\_\_\_  
 b. Reactor Dip Pipe:  Yes/Straight  Yes/Bent (Drawing Required)  No  
 c. Dip Pipe Material:  PTFE Lined  316 SS  Other \_\_\_\_\_  
 d. Length of Dip Pipe From Reactor Flanged Connection \_\_\_\_\_ Ft \_\_\_\_\_ In \_\_\_\_\_ mm  
 e. Sampling System Material:  PFA/PTFE Lined  316 SS  Other: \_\_\_\_\_  
 f. How is the Sample Removed From the Reactor:  Vacuum  Vacuum with a suction nozzle  
 Existing Internal Reactor Pressure  Pneumatic Diaphragm Pump (Flow Circulation) \_\_\_\_\_  
 g. Additional Requirements:  PH Monitoring  Temperature Monitoring  Redox Monitoring  Other \_\_\_\_\_  
 h. Sampling with Inert Gas Return Via By-Pass Circuit:  Yes  No  
 i. Sampling with SD-IL In-line Sample Valve Complete with 90° Vertical Bottle Adapter:  Yes  No  
 j. Sampling with SD-IL In-line Sample Valve Complete with 90° Vertical Needle Adapter:  Yes  No  
 k. Operation of SD-IL In-line Sample Valve:  Manual Hand-wheel  Spring to Close Lever  
 l. Locking Device at the Main Charging Valve:  Yes  No  
 m. Sample Volume: \_\_\_\_ ml  
 n. Sampling Device:  Open Bottle  GL 45  Customer Bottle  Septum Sealed Bottle  Safety Bottle Shield  Safety Cabinet  
 o. Frequency of Samples, Within 24 Hours \_\_\_\_\_  
 q. Diameter & Length of PTFE Suction Hose: Diameter \_\_\_\_\_ Length \_\_\_\_\_  
 r. Suction Lift Required: \_\_\_\_\_ Ft \_\_\_\_\_ In \_\_\_\_\_ mm  
 s. Additional Valves for Cleaning, Purging or Vent:  Yes  No Type:  Ball  Diaphragm  
 t. Additional Accessories Required: \_\_\_\_\_  
 u. Test Certificates:  Yes  No

**Sampling System:**  Handheld Open Top Bottle  Threaded Bottle Adapter  Septum Sealed Bottle  
 Septum Sealed Bottle:  Yes  No Needle Adapter Material:  316 SS  Hastelloy C 276  Titanium  Tantalum  
 Protective Sampling Box (Std. w/ front window):  Yes  No  
 Sample Box Material of Construction:  Fiberglass  316SS  Polypropylene  
 Sample Box Options:  Side access Hand ports  Integral Glove Protectors  No Access Ports

**Customer Supplied Bottle:**  Yes  No Volume:  50ml  100ml  250ml  500ml  ( Other ) \_\_\_\_\_  
**Aegis Supplied Bottle:**  Yes  No Volume:  50ml  100ml  250ml  500ml  ( Other ) \_\_\_\_\_  
 Bottle Adapter: With Vent Connection:  Yes  No With Vent Connection & Purge Connection:  Yes  No

**Piston Injector System:**  316 SS  PFA Lined  Hastelloy C 276  Other \_\_\_\_\_  
 Volume:  50ml  100ml  Other \_\_\_\_\_  
 Piston Injector End Connectors:  Yes  No If Yes, Connection Size & Style: \_\_\_\_\_  
 Piston Injector Laboratory Stand:  Yes  No

Laboratory Requirements: (Notes can be attached on separate page) \_\_\_\_\_  
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