

## FORM KK-2: Single-Use Technical Communication Guide for Mechanical Hose Barb Connection Qualification

## Introduction

The purpose of this questionnaire is to serve as a communication tool between assembly manufacturer and owner/user to detail methods by which mechanical hose barb connections are qualified by the assembly manufacturer as part of single-use products including assemblies and systems. The information provided herein by the assembly manufacturer is meant solely as a guide.

KK-2.1 General Questions				
1.	This questionnaire applies to the following: (please specify pressure range or a subset of tubing sizes, types, or retention device types etc.):			
2.	Is there a documented procedure for joining the hose barb, flexible tubing, and retention device?   Yes or   No			
	a. If yes, are there controls in place to ensure repeatable connections are made such that qualification results are representative of everyday manufacturing operations? (please specify):			
3.	Is there an established testing program to substantiate performance of the mechanical connection?   Yes or   No  a. If yes, what method(s) is used? (list all standards/test methods that apply, otherwise please specify refer to SJ-2.3 Qualification):			
KK	2-2.2 Test Parameters			
1.	Test Type (check all that apply)			
	☐ Burst Pressure (indicate range, set value, ramp rate, test to failure, other):			
	☐ Tensile (Pull-off) Test			
	☐ Leak Test:			
	☐ Dye penetrant			
	☐ Bubble emission ( <i>indicate range, set value, ramp rate, test to failure, other</i> ):			
	☐ Pressure hold/Decay (indicate range, set value, ramp rate, test to failure, other):			
	☐ Tracer gas ( <i>please</i> specify gas type and indicate range, set value, ramp rate, test to failure, other):			
	☐ Other (please specify):			
2.	Temperature of Test Fluid (indicate unit):			
	☐ Ambient ☐ Other (please specify):			
3.	Test Duration:			
	☐ Range (e.g., time-based pressure hold, or dependent on ramp rate; explain):			
	□ Set Value:			
	□ N/A			
4.	Test Fluid:			
	☐ Air ☐ Water ☐ Other (please specify):			
5.	Sample Sterilization Method:			
	□ No Treatment			
	☐ Ionizing Irradiation (add detail, e.g., dose):			
	☐ Thermal Sterilization (add detail, e.g., Temperature °C and duration):			
	☐ Other (please specify):			



6.		ditional Considerations (please specify, e.g., accelerated aging, manipulation details, any test method that emulates e.g., mp pulsations):
	a.	External Environment (generally mimics target application conditions):
		☐ Temperature (indicate units):
		□ Pressure (e.g., ambient, vacuum; indicate units):
		□ pre-conditioned (e.g., accelerated aging, maximum irradiation dose; please describe):
	b.	Mechanical Test Constraints:
		☐ Dynamic / Force Applied ( <i>please describe</i> ):
		□ Static / No Force Applied
		☐ Other (please specify):
KK-	2.3	Acceptance Criteria
1.	Qu	antitative:
		Maximum Allowable Leakage Limit (indicate units):
		Mass Flowrate:
		Pressure Drop:
		Other (please specify):
		Minimum Pressure Requirement (please describe, indicate units):
		Minimum Pull-off Force (please describe, indicate units):
		Other (please specify):
		N/A
2.	Qu	alitative (passing observation, check all that apply):
		No Visible Leak (please describe; e.g., no bubbles indicating leak locations at 30psi (2 bar) underwater during manipulation):
		All other acceptance criteria met (please describe all other acceptance criteria; e.g., positive engagement of tubing to hose barb, appropriately applied retention device, reinforcing filament intact, etc.):
3.	Mir	nimum Sample Size:
4.	Ho	w is failure or performance defined in the scope of this assessment? (please describe):

KK-2.4 Other Notes/Additional Considerations (e.g., is this initial qualification or a time-based system, lot-based, or 100%?):

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