



Product Test Report

PTR-4137

Swagelok Company
29500 Solon Road
Solon, Ohio 44139 U.S.A.

Ver 02
July 2022
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TITLE

Burst Test of Swagelok® 1.5 in. U Series Hose Assemblies

PRODUCT TESTED

The following Swagelok U series PFA hose assemblies were tested.

Ordering Number	Hose Size in.	Test Quantity	Temperature °F (°C)	Test Media
SS-UT24KE24KE24-19	1.5	12	Room	Water
SS-UT24KE24PM24-20	1.5	8	-70 (-56)	Oil
SS-UT24KE24PM24-20	1.5	5	420 (215)	Oil
SS-UT24PM24PM24-21	1.5	3	420 (215)	Oil

PURPOSE

The hose assemblies were tested under laboratory conditions to observe their hydraulic burst performance at different temperatures.

TEST CONDITIONS

Original test date: July 2016

- Test media: water, oil
- Testing temperature: room temperature, -70°F (-56°C), and 420°F (215°C)

TEST METHOD

1. Hoses for the testing at -70°F (-56°C) or 420°F (215°C) were filled with the test media and soaked at the testing temperature for a minimum of 2 hours. Afterwards, the samples were transferred to the burst rig for testing.
2. Hoses were installed into the burst rig without any bending or kinking in the hose assemblies.
3. The hoses were then pressurized until they burst or began to leak. An assembly was required to burst or leak at four times working pressure or greater to pass.



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TEST RESULTS

Ordering Number	Test Quantity	Temperature °F (°C)	Working Pressure psig (bar)	Samples Meeting 4 × Working Pressure
SS-UT24KE24KE24-19	12	Room	200 (13.7)	12 / 12
SS-UT24KE24PM24-20	8	-70 (-56)	200 (13.7)	8 / 8
SS-UT24KE24PM24-20	5	420 (215)	200 (13.7)	5 / 5
SS-UT24PM24PM24-21	3	420 (215)	200 (13.7)	3 / 3

The tests were conducted beyond the product's recommended operating parameters and do not modify the published product ratings.

This test was performed to consider a specific set of conditions and should not be considered valid outside those conditions. Swagelok Company makes no representation or warranties regarding these selected conditions or the results attained. Laboratory tests cannot duplicate the variety of actual operating conditions. Test results are not offered as statistically significant. See the product catalog for technical data.

SAFE PRODUCT SELECTION

When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

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