

PERFORMANCE TEST CERTIFICATE for MAFs Testing

Date: March 18, 2022

Certificate No. KR-5000-50011960-1

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Applicant / Manufacturer

: BMT Co., Ltd.

Date and place of test

: June 04, 2021 ~ February 23, 2022

at the Manufacturer's Premises in Yang-san, Korea and

at the Southwest Research Institute 6220 Culebra Road San Antonio,

TX 78228

Product description

: Superlok Tube Fitting (including i-Fitting®)

- Size: 1/4", 3/8", 1/2", 3/4", 1"

- Type: Grip (Type IV) type MAF (Separable) as per Clause 4.1.4

of ASTM F1387-19

- Material Grade: B (Stainless Steel 316/316L) as per Clause 4.2.2

of ASTM F1387-19

Compliance Test standard

: ASTM F1387-19

F1387 Test ID	Test Description	Number of Sample tested per Size	Reference Standard	Inspection	Test Report
A2	Examination of Specimen	53		Witnessed or Reviewed	BMT-TR-220304-01
A3	Pneumatic Proof test	53		Witnessed or Reviewed	BMT-TR-220304-01
A4	Hydrostatic Proof Test	53		Witnessed or Reviewed	BMT-TR-220304-01
A5	Impulse Test	6		Witnessed	BMT-TR-220304-01
A6	Flexure Fatigue Test	6		Witnessed	BMT-TR-220304-01
A7	Tensile Test	6		Witnessed	BMT-TR-220304-01
A8	Hydrostatic Burst Test	4		Witnessed	BMT-TR-220304-01
A9	Repeated Assembly Test	6		Witnessed	BMT-TR-220304-01
A10	Rotary Flex Test	6	SAE MA 2003	Witnessed	BMT-TR-220304-01
S2	Thermal Cycling Test	10	MIL-STD-777	Reviewed	SwRI 18-26649
S6	High Impact Shock Test	5	MIL-STD-901	Reviewed	SwRI 18-26649
S7	Fire Test	5	ASTM E1529	Reviewed	SwRI 18-26649
S8	Vibration Test	5	MIL-STD- 167-1	Reviewed	SwRI 18-26649

We hereby certify that the Superlok tube fitting (including i-Fitting®) satisfactorily met the standard and supplementary performance requirements as per ASTM F1387-19.



Conclusion

Base on the results of this investigation, the Superlok Tube fitting (including i-Fitting®) of 1/4", 3/8", 1/2", 3/4" and 1" in diameters successfully passed the standard and supplementary qualification tests according to ASTM F1387-19 as below.

- 1) Examination of Specimen(A2)
- 2) Pneumatic proof(A3)
- 3) Hydrostatic proof(A4)
- impulse Test(A5)
- 5) Flexure Fatigue Test(A6)
- 6) Tensile Test(A7)
- 7) Hydrostatic Burst Test(A8)
- 8) Repeated Assembly Test(A9)
- 9) Rotary Flex Test(A10)
- Thermal Cycling Test(S2)
- 11) High Impact Shock Test(S6)
- 12) Fire Test(S7)
- 13) Vibration Test(S8)

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