Test Report Report No.: 250102176GZU-001 Date: Jan 22, 2025

Applicant: CIXI PNEUFLEX PNEUMATIC COMPONENTS CO., LTD.

No. 88, Yu Gong Road, Zonghan Street, Cixi, China

Sample Description:
The following submitted sample(s) said to be:

Item Name	:	**TUBE FITTINGS AND VALVES**
Model No.	:	PXF06-02,PV08,PM06,PLF08-G02,PHD10-G02,PE10,PC08-G02,PA08,JSC08-G02
Date of Sample Received	:	Jan 06, 2025
Testing Period	:	Jan 06, 2025 to Jan 10, 2025

Tests conducted:
As requested by the applicant, refer to following page(s) for details.

Conclusion:

Tested Sample	Standard	Result
Tested components of submitted sample	Restriction of the use of certain hazardous substance in electrical and electronic equipment (RoHS Directive 2011/65/EU and (EU) 2015/863)	See test conducted

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch:

Prepared by:

Zel Tang

Zel Tang
Engineer

Reviewed by:

michaelpang

Michael
Asst. Technical Supervisor

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Tests conducted:

RoHS Chemical Test

(A)Test Result Summary:

Test Item	Result (mg/kg) (1/2/3)
Cadmium (Cd) Content	23
Lead (Pb) Content	ND
Mercury (Hg) Content	ND
Chromium (VI)(Cr^{6+}) Content	ND
Sum of Polybrominated Biphenyls (PBBs)	ND
Monobromobiphenyl (MonoBB)	ND
Dibromobiphenyl (DiBB)	ND
Tribromobiphenyl (TriBB)	ND
Tetrabromobiphenyl (TetraBB)	ND
Pentabromobiphenyl (PentaBB)	ND
Hexabromobiphenyl (HexaBB)	ND
Heptabromobiphenyl (HeptaBB)	ND
Octabromobiphenyl (OctaBB)	ND
Nonabromobiphenyl (NonaBB)	ND
Decabromobiphenyl (DecaBB)	ND
Sum of Polybrominated Diphenyl Ethers (PBDEs)	ND
Monobromodiphenyl Ether (MonoBDE)	ND
Dibromodiphenyl Ether (DiBDE)	ND
Tribromodiphenyl Ether (TriBDE)	ND
Tetrabromodiphenyl Ether (TetraBDE)	ND
Pentabromodiphenyl Ether (PentaBDE)	ND
Hexabromodiphenyl Ether (HexaBDE)	ND
Heptabromodiphenyl Ether (HeptaBDE)	ND
Octabromodiphenyl Ether (OctaBDE)	ND
Nonabromodiphenyl Ether (NonaBDE)	ND
Decabromodiphenyl Ether (DecaBDE)	ND
Phthalates	
Bis(2-ethylhexyl) phthalate (DEHP)	ND
Butyl benzyl phthalate (BBP)	ND
Dibutyl phthalate (DBP)	ND
Diisobutyl phthalate (DIBP)	ND

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Test Item	Result
	(4)
Cadmium (Cd) Content (mg/kg)	ND
Lead (Pb) Content (mg/kg)	ND
Mercury (Hg) Content (mg/kg)	ND
Chromium (VI)(Cr^{6+}) Result (By Boiling Water Extraction on Metal) ($\mu g/cm^2$)	Negative

Tested sample:
(1) Black plastic (three way pipe)
(2) Blue plastic (bushing)
(3) Grey plastic
(4) Silver color metal

ND = Not detected
mg/kg= milligram per kilogram

Negative = The Cr (VI) concentration is less than 0.10 $\mu g/cm^2$.The sample is negative for Cr (VI).

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(B) RoHS Requirement:

Restricted Substances	Limits
Cadmium (Cd)	0.01% (100 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)
Chromium (VI) (Cr^{6+})	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)
Phthalates (DEHP, BBP, DBP, DIBP)	0.1% (1000 mg/kg)

The above limits were quoted from 2011/65/EU and (EU) 2015/863 for homogeneous material.

(C) Test Method:

Test Item	Test Method	Detection Limit
Cadmium (Cd) Content	With reference to IEC 62321-5 Edition 1.0:2013, by acid digestion and determined by ICP - OES or Atomic Absorption Spectrometry	2 mg/kg
Lead (Pb) Content	With reference to IEC 62321-5 Edition 1.0:2013, by acid digestion and determined by ICP - OES or Atomic Absorption Spectrometry	2 mg/kg
Mercury (Hg) Content	With reference to IEC 62321-4:2013+AMD1:2017 CSV, by acid digestion and determined by ICP - OES	2 mg/kg
Chromium (VI)(Cr^{6+}) Content	With reference to IEC 62321-7-2 Edition 1.0:2017, Hexavalent chromium – Determination of hexavalent chromium (Cr (VI) in polymers and electronics by the colorimetric method	10 mg/kg
Chromium (VI)(Cr^{6+}) Content	With reference to IEC 62321-7-1 edition 1.0:2015, by boiling water extraction and determined by UV-VIS spectrophotometer	0.10 μg/cm^2
Polybrominated Biphenyls (PBBs)& Polybrominated Diphenyl Ethers (PBDEs) Content	With reference to IEC 62321-6 Edition 1.0:2015, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary	5 mg/kg
Phthalates (DEHP, BBP, DBP, DIBP) Content	With reference to IEC 62321-8 Edition 1.0:2017, by solvent extraction and determined by GC/MS	100mg/kg

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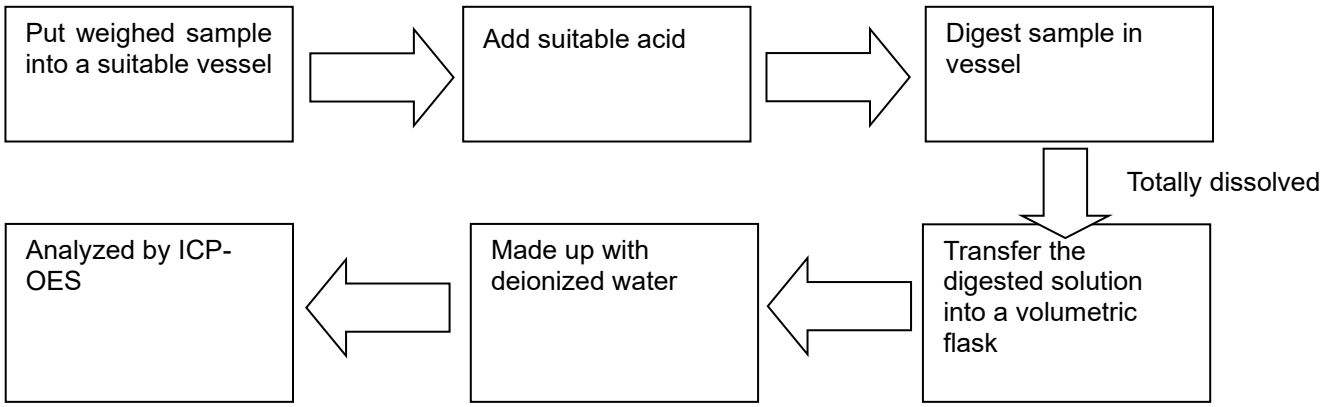
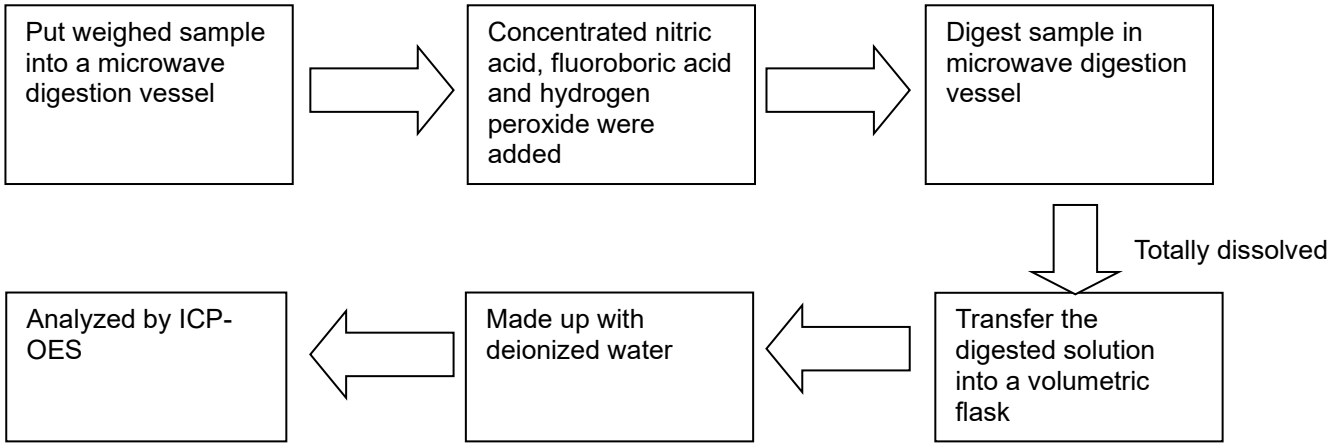
(D) Measurement Flowchart:

1. Test for Cd/Pb Contents



2. Test for Hg Content



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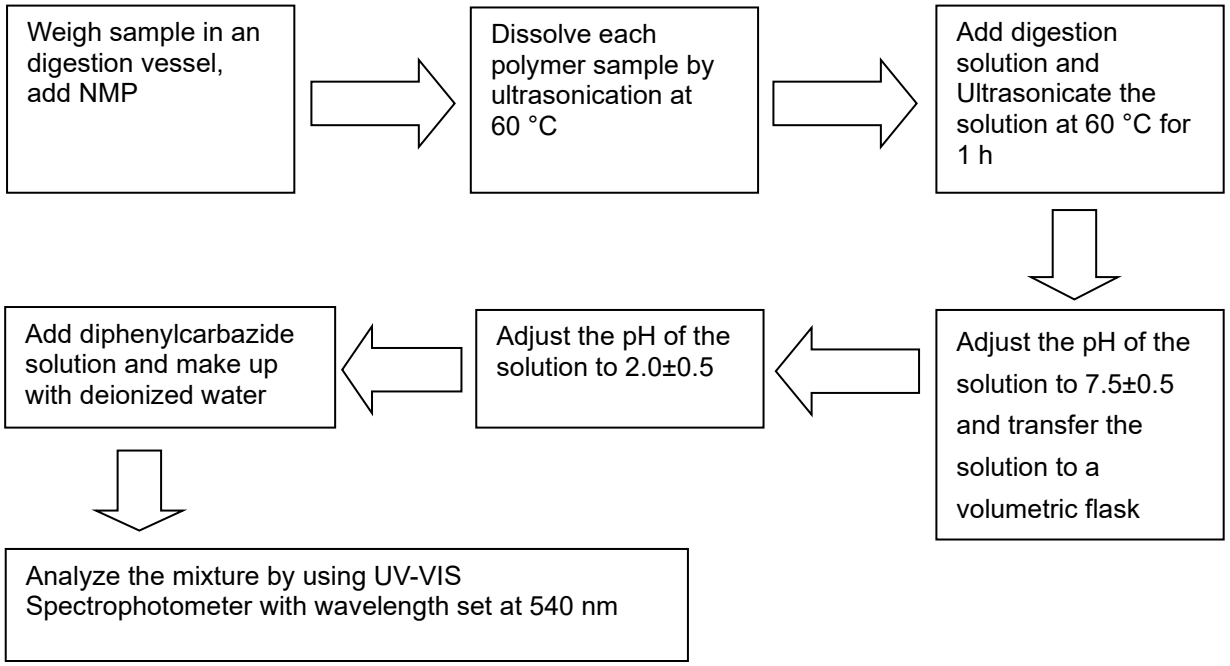
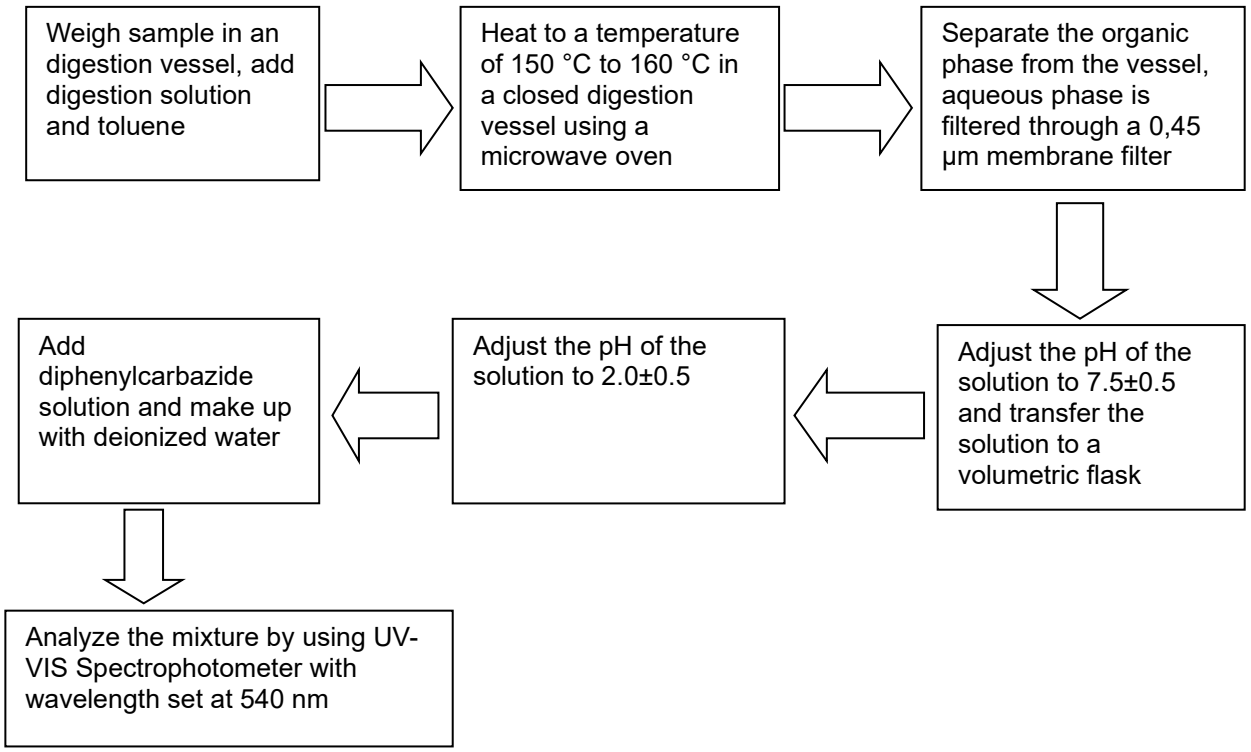
3. Test for Chromium (VI) (Cr^{6+}) Content

Soluble polymers:



Insoluble/unknown polymers and electronics without Sb:



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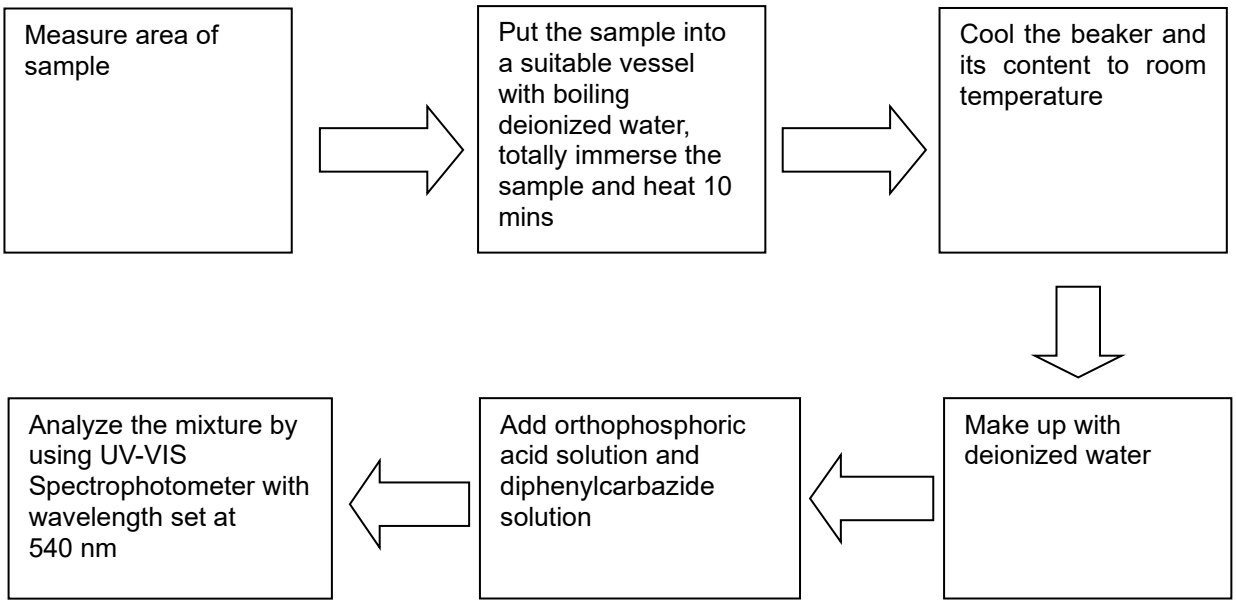
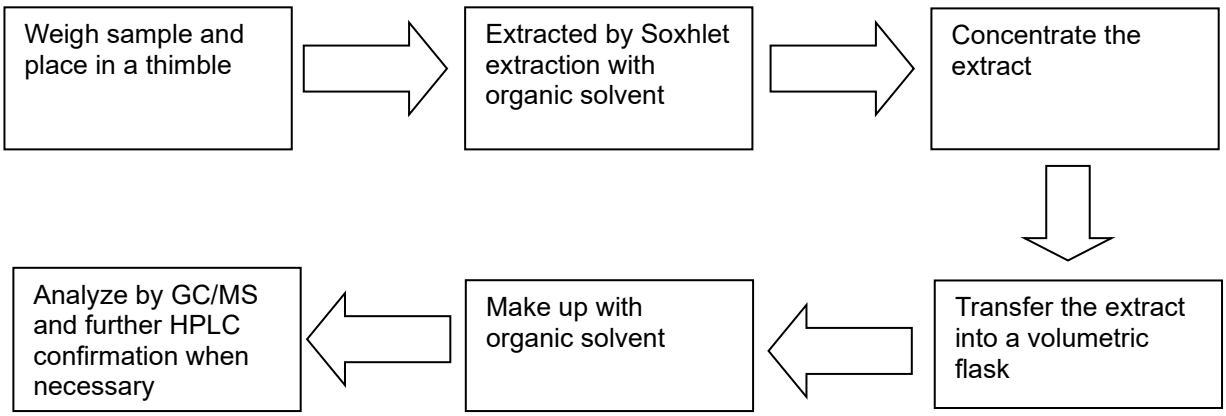
4. Test for Chromium (VI) (Cr^{6+}) Content (Boiling Water Extraction)



5. Test for PBBs/PBDEs Contents



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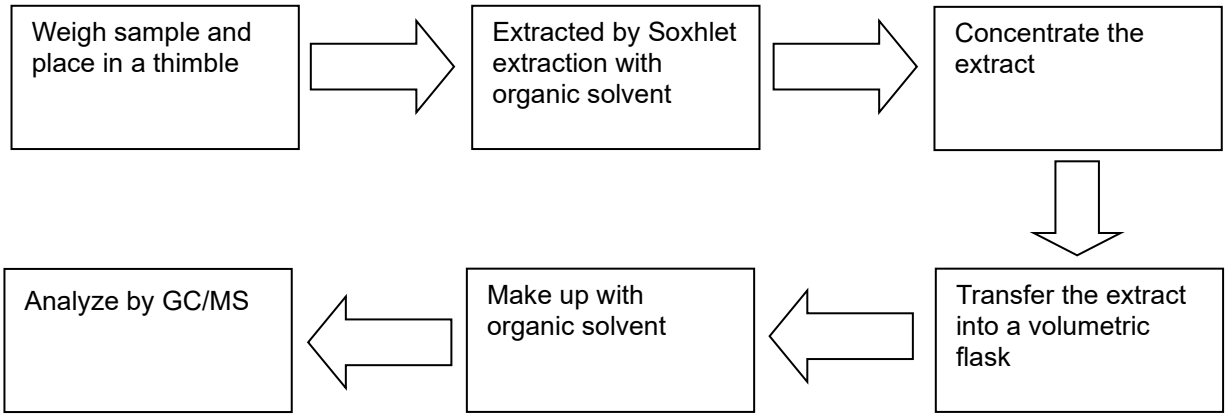
6. Test for Phthalate Contents



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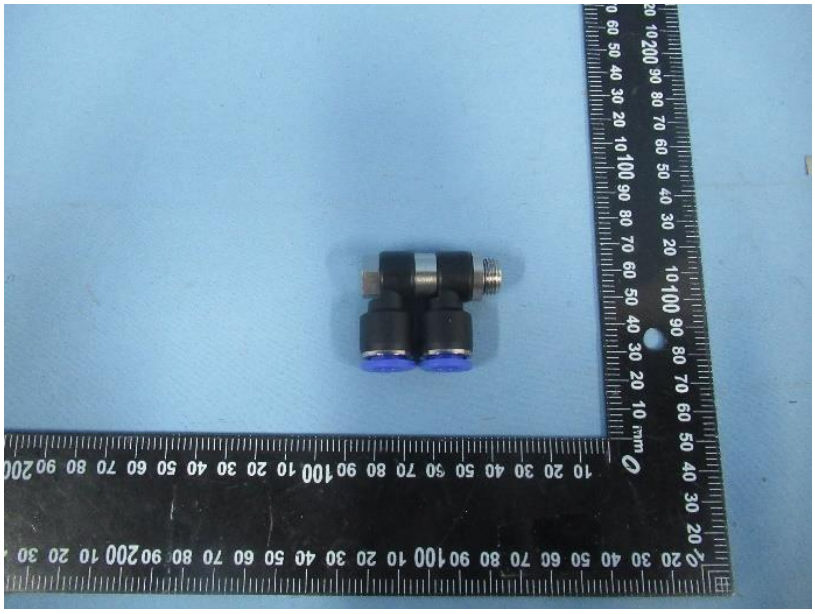
Sample photo



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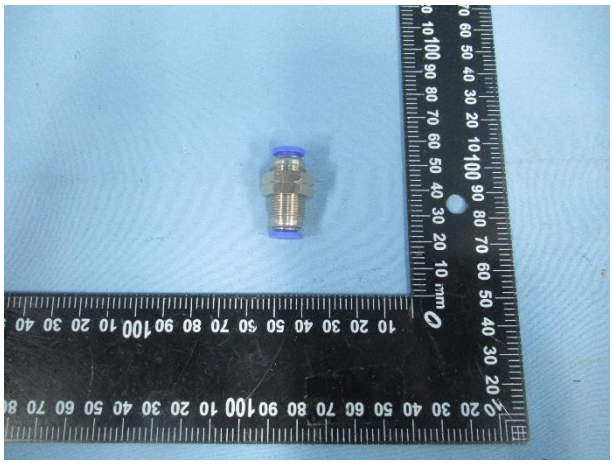
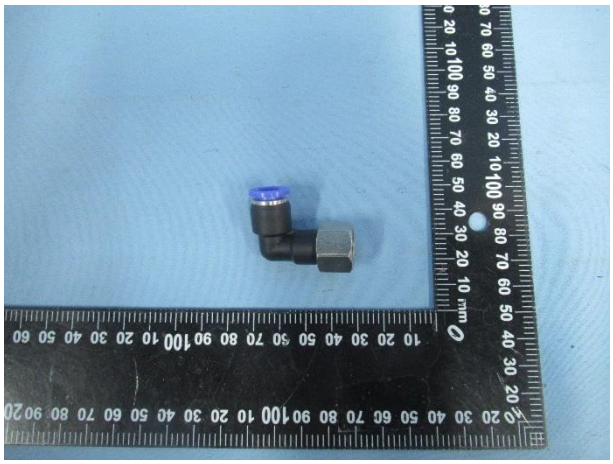
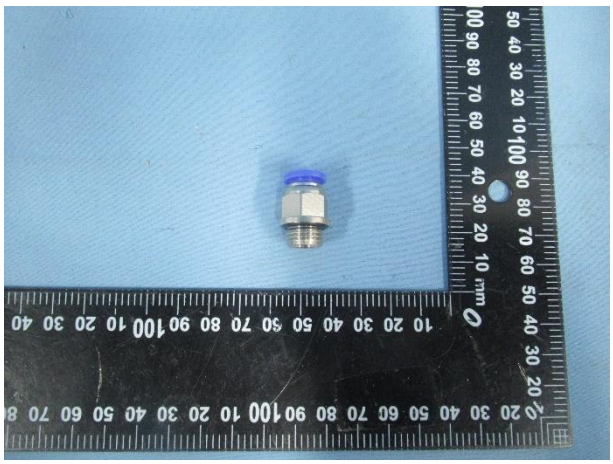
Reference photo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End of report

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