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## Product reliability test plan

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No.	l est items	Test standard	l est requirements	Test equipment	l est results
1	Leaking test	AS/NZS3499- 2022	<ol> <li>Straighten the hose, apply 70KPa water pressure, measure and record the length and outer diameter of the initial hose;</li> <li>into the measured hose water temperature 20±5°C, pressure 3.0 (0,+0.1) MPa water pressure, for 15 (0,+5) minutes, observe no leakage; And quickly measure and record the length and outer diameter of porcelain hose;</li> <li>Compare the rate of change of the outer diameter and length of the hose, and the rate of change of the length and diameter of the hose shall not exceed 8%.</li> </ol>	Leaking test machine	No leakage
2	Aging test	AS/NZS3499- 2022	Fill the sample with water, apply $1.4\pm0.1$ MPa pressure and maintain this pressure throughout the aging process. The samples were stored at $90\pm3$ °C for 168 hours. Pipes and joints have no cracks, no leakage, etc	Aging test machine	No leakage
3	Tensile test	AS/NZS3499- 2022	B.5.1 Test sample         Three samples of each tube diameter were aged according to B.4.         B.5.2 Programs         a) The test shall be carried out at the ambient temperature of $(20\pm5)$ °C.         b) Fix the sample to a dynamometer with a tension speed of 3.3mm/s.         c) Make the hose withstand the tension according to Table 9, and keep the tension for a certain time $(60\pm1)$ minutes to check whether the sample is invalid or damaged, and whether the core is loose.         d) Remove the sample and fill with water.         e) Apply a pressure of $(1.6\pm0.1)$ Mpa at a rate of $0.1$ Mpa/SEC, maintain this pressure for one minute and check the sample for failure, breakage and leakage, and whether the core is loose. $\frac{1000}{0040} = \frac{1000}{0040} = \frac{1000}{004$	Tensile strength tester	No leakage



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4	Impulsing test	AS/NZS3499- 2022	<ul> <li>B.6.1 Test sample</li> <li>The test samples are the three samples after B.5 test.</li> <li>B.6.2 Test Conditions</li> <li>The test water temperature of the braided tube assembly should be maintained at 90 (+1, -3) °C.</li> <li>B.6.3 Procedures</li> <li>a) Connect the sample to a test device capable of producing pulses as shown in Figure B.2, with pressure values kept in the white area.</li> <li>b) It can generate 25,000 pulses.</li> </ul>	Impulising machine	No leakage
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5	Keep pressure test	AS/NZS3499- 2022	<ul> <li>B.7.1 Test sample</li> <li>The test samples are the three samples after B.6 test.</li> <li>B.7.2 Programs <ul> <li>a) Fill the sample with water at the following temperature:</li> <li>1) The braided tube becomes 90 (+1, -3) °C.</li> <li>2) Non-braided tubes total 70 (+1, -3) ° C.</li> <li> Maintain this temperature during the test.</li> <li>b) Increase at a rate of 0.1Mpa/ SEC until (5±0.1) Mpa and maintain this pressure for (60±1) minutes.</li> <li>c) Check the sample failure, damage and water leakage, whether the core falls off, and make a record.</li> </ul> </li> </ul>	Burst pressure machine	No leakage, no shedding
6	Temperature cycling test	AS/NZS3499- 2022	<ul> <li>B.8.1 Test sample</li> <li>The test samples are the three samples after B.7 test.</li> <li>B.8.2 Programs <ul> <li>a) Connect the sample to a system that provides:</li> <li>1) Constant pressure (1 ± 0,05) Mpa</li> <li>2) Supply water at (20±5) ° C for 5 minutes, then supply water at (90±3) ° C for 5 minutes, so it is a cycle</li> <li>b) Stop testing after 5000 cycles</li> <li>c) Apply a pressure of (1.6±0.1) Mpa at the rate of 0.1Mpa/SEC, maintain this pressure for one minute, and check the sample for failure, damage and water leakage, whether the core is falling off, and record the results.</li> </ul> </li> </ul>	Temperature cycling test machine	No leakage
7	Bending test	AS/NZS3499- 2022	The variation of three samples per pipe diameter (see Table 10) shall not exceed 15% $\hline \frac{\text{Table 10} - \text{Bending radius, length of specimen and tensile force}}{\frac{\text{Table 10} - \text{Bending radius, length of specimen and tensile force}}{\frac{\text{Table 10} - \text{Bending radius, length of specimen and tensile force}}{\frac{\text{Table 10} - \text{Bending radius, length of specimen and tensile force}}{\frac{\text{Tensile force for hose assemblies}}{\frac{\text{Tensile force for hose assemblies}}}{\frac{\text{Tensile force for hose assemblies}}{\frac{\text{Tensile force for hose assemblies}}}{\frac{\text{Tensile force for hose assemblies}}}{\text{Tensile force for hose asse$	Bending test	No leakage and No broken on surface