# SCOPE OF ACCREDITATION

**Laboratory:** Fluid Control Research Institute, Kanjikode West, Palakkad, Kerala  
**Accreditation Standard:** ISO/IEC 17025: 2005  
**Certificate Number:** TC-7402 *(in lieu of T-0027)*  
**Validity:** 31.05.2018 to 30.05.2020  
**Last Amended on:** 16.08.2018

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<tbody>
<tr>
<td>1.</td>
<td>WATER</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a.</td>
<td>Domestic water meter</td>
<td>Hydrostatic pressure test</td>
<td>IS 779, IS 6784, ISO 4064, OIML R 49</td>
<td>Upto 40 bar</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Accuracy test</td>
<td></td>
<td>0.005 m³/h to 50 m³/h</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pressure loss test</td>
<td></td>
<td>Upto 1 bar</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Temp. Suitability test</td>
<td></td>
<td>Upto 70 °C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Endurance test</td>
<td></td>
<td>1 lakh cycles</td>
</tr>
<tr>
<td>b.</td>
<td>Bulk water meter</td>
<td>Hydrostatic pressure test</td>
<td>IS 2373, ISO 4064, OIML R 49</td>
<td>Upto 4 MPa</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Accuracy test</td>
<td></td>
<td>0.015 m³/h to 4500 m³/h</td>
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<tr>
<td></td>
<td></td>
<td>Pressure loss test</td>
<td></td>
<td>Upto 100 KPa</td>
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<tr>
<td></td>
<td></td>
<td>Endurance test</td>
<td></td>
<td>1000 hours</td>
</tr>
<tr>
<td>c.</td>
<td>Flow Meter (up to 600 mm size)</td>
<td>Accuracy test &amp; repeatability test (prior to &amp; after endurance test)</td>
<td>OIML R 117, OIML R 40</td>
<td>Upto 2500 m³/h</td>
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<tr>
<td></td>
<td></td>
<td>Endurance test for 100 hr</td>
<td></td>
<td>100 hours</td>
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<tr>
<td></td>
<td></td>
<td>Pressure loss across meter</td>
<td></td>
<td>1MPa</td>
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<tr>
<td></td>
<td></td>
<td>Dry heat test</td>
<td></td>
<td>55 °C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cold test</td>
<td></td>
<td>-25 °C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Damp heat (cyclical) test</td>
<td></td>
<td>-25 °C to 55 °C, RH 95%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Power voltage variation tests</td>
<td></td>
<td>230 V (±15% / ±15%)</td>
</tr>
<tr>
<td>d.</td>
<td>Control Valve</td>
<td>Control Valve Capacity Test</td>
<td>ANSI / ISA – 75.01, ANSI / ISA – 75.02, ANSI / ISA – 75.11, IS 10169</td>
<td>Valve size up to 1800 mm NB</td>
</tr>
</tbody>
</table>

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*Signature:*  
Iti Saxena  
Convenor  
Alok Jain  
Program Manager
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</table>
|     |                           | Liquid Pressure         | ANSI / ISA – 75.01
Recovery Factor Test                                                    | 200 mm NB |
|     |                           | Fugitive emission test  | ISO 15848–1
ISO 15848–2
ANSI ISO 93.00 |
|     | e. Valves                 | Hydrostatic seat leakage test,
Pressure testing          | ANSI B – 16.104
BS 5146 |
|     |                           | Cryogenic testing       | BS 6364
BS 5146 |
|     | f. Butterfly valve        | Butterfly valve proof of
design testing             | AWWA M49
BS 5155
IS 13095 |
|     | g. Valve actuator         | Valve positioner testing | ANSI/ ISA 75.13 |
|     | II. AIR & GAS             | Measurement of flow in
ducts at labs or site by
velocity traversing method using velocity measuring probes | Work Procedure
No: WP-AT-09
Issue no.: 0
Issue date: 05.07.07
WP-AFW-T01
Issue no.: 0
Issue date: 01.01.14
IS 14073,
ISO -3066 (Clauses 1 to 13,
Annexure A,E,G)
BS 848, Part 1
(Clauses 1 to 30)
ISO 10760
(Clauses 6 to 10)
ANSI/ AMCA 210 |

**Signatures:**  
Ilt Saxena  
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</table>
| b.  | Venting Devices/ Air Valve | Testing of Venting devices | Work Procedure No. WP-AT-05  
Issue no.: 01  
Issue date: 03.01.2000  
Work Procedure No. WP-AT-05  
Issue no.: 02  
Issue date: 10.04.2014  
API 2000 (Clauses 6,7)  
ANSI/AWWA C 512-92,  
IS 14845 (Clause 12)  
EN 1074 Part 1,2,4 | Flow rate  
Upto 10,000 m³/h |
| c.  | Valve/Filter/ Control Device  
Air Valve | Flow capacity, Seat leakage, loss characteristics etc.  
Intake and delivery capacity of air valves in ambient condition | Work Procedure No. WP-AT-01,02,03,07  
Issue no.: 01  
Issue date: 03.01.00  
Work Procedure No. WP-AT-01,02,03,07  
Issue no.: 02  
Issue date: 10.04.14  
IS/IEC 60534-2-3,  
ISA75.02,(Clauses 4, 5.2, 8, 9 & 10)  
BS 5793/2.3  
ANSI/FCI 70-2 | Pressure  
Upto 2000 kPa (g)  
Flow rate  
Upto 10,000 m³/h |
| d.  | Safety Relief Valves | Capacity, seat leakage, Blow down, lift | Work Procedure No. WP-AT-05  
Issue no.: 01  
Issue date: 03.01.2000  
Work Procedure No. WP-AT-05  
Issue no.: 02  
Issue date: 10.04.14  
ASME PTC 25  
(All clauses except 4-3, 4-5, 4-6, 4-8 & 4-10) | Size : upto 150 mm NB,  
Set pressure : upto 1000 kPa |

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| e.  | Gas Regulator             | Type approval tests for Constructional and Functional requirements Test details as per EN 334  
Dimensional Check and Visual Inspection  
Verification of the strength of pressure containing parts and inner metallic partition walls  
Shell and inner metallic partition walls strength test  
External tightness test  
Check of internal sealing, setting, lock up pressure and simplified test method for accuracy class  
Determination of performance curves and verification of hysteresis band  
Determination of lock up pressure and verification of internal sealing | Work Procedure No. WP-AT-13  
Issue no.: 1  
Issue date: 14.11.2011  
Work Procedure No. WP-AFH-T10  
Issue no.: 02  
Issue date: 01.04.2016  
BS EN 334 (All Clauses except 7.7.4.6, 7.7.8.1 & 7.7.8.8)  
BS EN 88-1 (Clauses 7.1 to 7.8, 7.101.1 to 7.101.7, 9.1)  
BS EN 88-2 (Clauses 7.1 to 7.7) | Size: 80 mm NB  
Flow range: Upto 160 m³/h  
Pressure up to 2 MPa |

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| 1   |                           | Determination of accuracy class lock up pressure, class of lock up pressure zone, the maximum accuracy flow rate and the minimum flow rate related to given range of inlet pressure | Work Procedure No. WP-AT-13  
Issue no.: 1  
Issue date: 14.11.2011 | Size : 80 mm NB  
Flow range: Upto 160 m³/h  
Pressure up to 2 MPa |
|     |                           | Operational check at limit temperatures of -20 degree C and 60 degree C | Work Procedure No. WP-AFH-T10  
Issue no.: 02  
Issue date: 01.04.2016 | BS EN 334  
(All Clauses except 7.7.4.6, 7.7.8.1 & 7.7.8.8) |
|     |                           | Test details as per EN 88-1 & EN 88-2  
External and Internal Leak Tightness Test (as per EN 88-1 & EN 88-2) | BS EN 88-1  
(Clauses 7.1 to 7.8, 7.101.1 to 7.101.7, 9.1) | BS EN 88-2  
(Clauses 7.1 to 7.7) |
|     |                           | Torsion & Bending (as per EN 88-1 & EN 88-2) |                              |                                      |
|     |                           | Rated Flow Rate Test (as per EN 88-1) |                              |                                      |
|     |                           | Pressure Regulator performance (as per EN 88-1) |                              |                                      |
|     |                           | Endurance Test (as per EN 88-1 & EN 88-2) |                              |                                      |

**Signatures:**  
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| f.  | Diaphragm / Dry/ Domestic Gas Meters | Initial accuracy test  
Starting flow rate  
External leak tightness  
Endurance test  
Impact test  
Vibration test  
Humidity test  
Ultraviolet radiation test  
Pressure absorption | Work Procedure No. WP-AT-11 Issue no.: 3  
Issue date: 19.04.2018  
BS EN 1359  
(All clauses except 5.8, 6.2.2, 6.4.2, 6.4.3, 6.6.3, 6.6.6, 7.3.3, 7.3.4, B2.3, C.2) | 0.0012 m³/h to 40 m³/h  
0.0012 m³/h to 40 m³/h  
Up to 2 MPa g  
Up to 5000 hr  
3 Joules & 5 Joules  
10 Hz to 150Hz  
(10 to 95) % RH  
275 to 300 Watts  
Up to 500 Pa |
| g.  | Hydrostatic Test of Spools, Flow Meters and Fittings | Hydrostatic test and Pneumatic test | Work Procedure No. WP-AFH-T09  
Issue no.: 02  
Issue date: 10.04.2014 | 30 MPa |

---

[Signatures]

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<td><strong>ELECTRONICS TESTING</strong></td>
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<tr>
<td>1.</td>
<td><strong>ENVIRONMENTAL TEST FACILITY</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 1.     | IT Equipment / Domestic Electronic Appliances & Accessories/ Power Supplies & Stabilizers/Electronic Components & Equipment Sub Assemblies/Medical, Electrical & Mechanical Equipment | **Cold** (Low Temperature) | IS 9000 (Part 2)  
MIL STD 810G  
QM333  
RTCA DO-160G  
SAE J1455  
JSS 55555  
JSS 50101  
GR-63  
ETSI-300 019 - 2 - 1  
ETSI-300 019 - 2 - 2  
ETSI-300 019 - 2 - 3  
ETSI-300 019 - 2 - 4  
IEC 60068-2-1  
ISO 16750-4 | Ambient to (-) 40°C  
Ramp rate: 3.0°C/Minute |
| 1.     |                                           | **Dry Heat** (High Temperature) | IS 9000 (Part 3)  
IEC 60068-2-2 Including Amend 1 & 2  
MIL Std 810G  
QM333  
RTCA DO-160G  
SAE J1455  
JSS 55555  
JSS 50101  
GR-63  
ETSI-300 019 - 2 - 1  
ETSI-300 019 - 2 - 2  
ETSI-300 019 - 2 - 3  
ETSI-300 019 - 2 - 4  
ISO 16750-4 | Ambient to +180°C  
Ramp rate: 3.0°C/Minute |

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<tr>
<td></td>
<td>Temperature Cycling Test</td>
<td>IS 9000 (Part 14)</td>
<td>IEC 60068-2-14, JSS 55555, QM333</td>
<td>(-40°C to 180°C, Ramp rate: 3.0°C/Minute)</td>
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<td></td>
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<td>IEC 60068-2-14</td>
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<td>JSS 55555</td>
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<td></td>
<td></td>
<td>QM333</td>
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<td>QM333</td>
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<td>SAE J1455</td>
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<td>MIL STD 810G</td>
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<td>JSS 55555</td>
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<td>JSS 50101</td>
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<td>ETSI-300 019 - 2 - 1</td>
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<td>IEC 60068-2-67</td>
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<td>IEC 60068-2-78</td>
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<td>ISO 16750-4</td>
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<td>IEC 60068-2-30</td>
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<td>ASTM D2247</td>
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<td>QM333</td>
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<td>RTCA DO-160G</td>
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<td>SAE J1455</td>
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<td>JSS 55555</td>
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<td>ISO 16750-4</td>
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</table>

*Signed*

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Alok Jain  
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|     | Composite Temperature & Humidity | IS 9000 (Part 6) | RTCA DC-150G  
SAE J1455  
MIL Std 810G  
ISO 16750-4  
IEC60068-38 | Temperature range: 20 °C to 90 °C,  
Humidity range: 10 % to 95 % RH. |
|     | Vibration | IEC 60068-2-6  
IS 9000 (Part 8)  
MIL Std 810G  
QM333  
SAE J1455  
IEC 60255-21-1  
RTCA DO-160G  
JSS 55555,  
JSS 50101  
GR-63  
IEC 60068-2-64  
ETSI-300 019 - 2 - 1  
ETSI-300 019 - 2 - 2  
ETSI-300 019 - 2 - 3  
ETSI-300 019 - 2 - 4  
ISO 16750-4  
IEC 61373 | Waveform type: Sine,  
Random, Discrete Sine,  
Sine on Random, Random on Random  
Freq Range: 5 to 2000 Hz  
Acceleration:  
Sine: upto 80g pk, Random:  
up to 40 g - rms  
Displacement:  
up to 2.0 inch pk-pk  
Velocity: upto 1.4 m/s pk |
|     | Shock & Bump | IEC 60068-2-27 & 29  
IS 9000 (Part 7)  
MIL Std 610 G  
RTCA DO-160G  
SAE J1455  
IEC60255-21-2  
JSS 55555,  
JSS 50101  
ETSI-300 019 - 2 - 1  
ETSI-300 019 - 2 - 2  
ETSI-300 019 - 2 - 3  
ETSI-300 019 - 2 - 4  
IEC 60068-2-29 | Pulse shape: Half Sine, Trapezoidal, Saw tooth  
Pulse Amplitude:  
up to 100g pk  
Pulse width: 3 to 30 mSec |

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IEC 61373 | IEC 534-8-1  
ISA 75 07  
ISO 1680  
ISO 7779  
ISO 11203  
ISO 3745  
ISO 3744 | Lowest cut off frequency - 100Hz.  
Frequency range: One third octave mid band frequency between 100 and 20000 Hz  
Ambient Noise Level: 20 dBA |
|     | IP tests (Dust & Water) | IP test as per IEC 610529  
IP 5X, 6X  
IP X3, X4 | Chamber size:  
800x800x800 mm  
Maximum size  
200x200x200 mm |
| 2.  | Rotating Electrical & Mechanical Machineries | Vibration Measurements | ISO 10816 Part 1 to 6 | Frequency range:  
2 Hz to 5000 Hz |

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<th>Sl. No.</th>
<th>Product / Material of Test</th>
<th>Specific Test Performed</th>
<th>Test Method Specification against which tests are performed</th>
<th>Range of Testing / Limits of Detection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td><strong>AT-SITE</strong></td>
<td></td>
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<td>I. ENVIROMENTAL TEST FACILITY</td>
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</tr>
</tbody>
</table>
| 1.      | IT Equipment /Domestic Electronic Appliances & Power Supplies & Stabilizers/Electronic Components & Equipment Sub Assemblies/ Medical, Electrical & Mechanical Equipment | Determination of Sound Pressure/ Sound Power Level | IEC 534-8-1  
ISA 75.07  
ISO 1680,  
ISO 7779,  
ISO 11203,  
ISO 3744 | Frequency range : One third octave mid band frequency up to 20000 Hz |
| 2.      | Rotating Electrical & Mechanical Machineries | Vibration Measurements | ISO 10816 (Part 1 to 6) | Frequency range : 2 Hz to 5000 Hz |

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Convenor*  

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Program Manager*