OPERATING INSTRUCTIONS

Installation of Seals:
- For seal install or replacement, loosen set screw on side of housing.
- Unscrew (counterclockwise) and remove seal casing. NOTE: A spanner wrench hole is provided for breaking the seal casing loose if required.
- Seal sets contain elastomer seals and backup washers per Chart 1. For complete listing of seal set sizes, see catalog.
- Verify that seals and washers are the same size.
- Assemble seal set into seal casing. See Chart 1.
- Reassemble and tighten seal casing while set to housing.
- Retighten set screw.

Attachment of Pilot Pressure and Test Media Supply Line:
- Attach pilot pressure line to pilot port "E" from Diagram 2.
- A pneumatic regulated source is required to minimize seal life and assure optimum seal ability for the application. The test pressure should be minimized to maintain sealing on the test piece without excessive compression of the seal.
- Attach test media line to test port "D" from Diagram 2.
- Provide a means whereby test pressure will not be introduced until the pilot pressure required to seal is reached. The means should also provide quick exhaust of test pressure in the event pilot pressure falls below the minimum required seal.

Mounting of Connector:
The ME Connector must be SECURED to the test piece by a mechanical device before proceeding.
- The test connector must be secured with a mechanical or other device to assure the connector is not uncoupled from the test piece. The test itself will provide an uncoupling force. The securing or holding device may be a fixture, clamp, cylinder or other appropriate means that prevents ejection of the test piece from the connector.

Un Coupling force example:
- If the test piece has a 1/2" O.D. and is tested at 400 psi maximum. The un coupling force = area x pressure = x x 251 x 400 = 78 lbs.
- Secure device should be designed to withstand this force and include an adequate margin for safety.
- Do not activate the connector without an adequate and safe securing mechanism.
- Mount the FastTest ME connector to the fixture or appropriate device using either threaded mounting holes on the rear of the connector body, "D" at Diagram 2, or appropriate adapter.

**Note:** Matrix of seal sets per chart 1.

- Use of less than the listed number of seals (for less insertion depth) requires a spacer. See FastTest catalog. Seal installation instructions included with seal sets.
- WARNING: Seals and washers must have the same size outside and inside diameters. Use of incorrect size seals or washers will result in loss of seal ability.

**FastTest**
Your Productivity Connection

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**ME Connector Dimensions:**

**DIAGRAM 2**

- Maximum test pressure: Vacuum to 500 psi
- Flow capability: Limited by "D" below

**CHART 2**

<table>
<thead>
<tr>
<th>FE</th>
<th>A</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>L*</th>
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<tr>
<td>ME4</td>
<td>2.56</td>
<td>1.49</td>
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<td>1/4 BSP</td>
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<td>1/4 BSP</td>
<td>1/4 UNF</td>
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<td>1/4 BSP</td>
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<td>1/4 BSP</td>
<td>1/4 UNF</td>
</tr>
</tbody>
</table>

**Material Specifications**
- Body, Housing, Piston: Aluminum
- Main Seal Washers: Steel QPQ treated or Stainless Steel
- O-Rings: FDA approved Viton

**Other materials available on request.**

**Note:** All specifications subject to change without notice.

GTEK AUTOMATION
26212 Dimension Drive, Suite 150
Lake Forest, CA 92630
Ph: 949-685-4242
www.gtek-automation.com
OPERATING INSTRUCTIONS

Connector Operation:
1. Insert test piece into the end of the connector and secure.
   Make sure the test piece is inserted to the required minimum insertion
   length. This will ensure proper location relative to the seal. Make sure
   the connector and test piece are secure.
2. Apply pilot pressure to seal against the part.
   Generally, a 60 to 90 psi pneumatic pilot pressure source is required.
   Additional pilot pressure may be required for contoured surfaces (i.e.,
   threads etc...). See FastTest catalog for Pilot Pressure Booster.
   CAUTION: Do not activate PILOT or TEST PRESSURE without test
   piece in place.
3. With pilot activated, introduce gas or liquid through the FastTest ME
   connector until desired testing, filling or flushing is complete.
   Provide a means whereby test pressure will not be introduced until the
   pilot pressure required to seal is reached. The means should also
   provide quick exhaust of test pressure in the event pilot pressure falls
   below the minimum required to seal.
4. Perform testing operation.
5. Relieve test pressure.
6. Relieve pilot pressure.
7. Remove test piece.

Connector Maintenance:
• A daily, weekly and periodic inspection of the connector by competent person
  is recommended.
• Lubricate connector on regular intervals. Petroleum jelly is recommended but care
  should be taken to verify the lubricant is compatible with the application.
• User must establish a regular interval for maintenance as determined by the user
  media and operational environment.
• Inspection should include damage to the body missing or loose components, leak
  tightness, ease of operation, sufficient lubrication, wear, dirt accumulation and
  damage.
• Use only original FastTest spare parts that are designed for the application and are
  subject to strict quality control. See warranty.

ME Exploded View for Reference

ME MAIN SEAL SET SEE CHART 1

ME CONNECTOR

SEAL CASING

WASHINGTON

PISTON

HOUSING

FastTest, Inc. Product Warranty
FastTest, Inc. warrants its products against defects of workmanship and material for 12 months from the
date of the sale by FastTest, Inc. This warranty is void if the product is misused, tampered with or used in a
manner that is not in accordance with FastTest, Inc. recommendations and/or instructions. FastTest, Inc. is not
liable for consequential or other damages including, but not limited to, loss, damage, personal injury, or any
other expense directly or indirectly arising from the use of or inability to use its products either separately or in
combination with other products. ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, WHETHER ORAL,
WRITTEN, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY OR FITNESS
FOR A PARTICULAR PURPOSE, ARE EXPRESSLY EXCLUDED. Remedy under this warranty is limited to replacement of the product or an account credit in the amount of
the original selling price, at the option of FastTest, Inc. All allegedly defective products must be returned prepaid
transportation to FastTest, Inc. along with information describing the product’s performance, unless disposition
in the field is authorized in writing by FastTest, Inc.

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