General Description
The Chemtec MiniBLOCK provides users with a complete stainless steel fluid metering block for injecting a wide variety of fuel additives or dyes. MiniBLOCK serves as a "slave device" to a user-supplied "master controller". The product is accurate, reliable and compatible with a wide range of chemicals. The oval gear design offers high accuracy and low pressure drop. Sensors are either UL / CUL or ATEX listed and are approved for use in hazardous area locations.

Model 7718
For dye, marker, ethyl mercaptan and other low dosage fuel additives
Flow rate 0.03 - 0.3 GPM (0.12 - 1.2 LPM) @ 1cSt
Maximum operating pressure 300 PSIG
Maximum differential pressure 145 PSIG
Accuracy 0.25-0.50% of flow
Nominal resolution 6,000 PPG / 1585 PPL

Model 7738
For most gasoline & diesel additives
Flow rate 0.3 - 3.0 GPM (1.2 - 12 LPM) @ 1cSt
Maximum operating pressure 300 PSIG
Maximum Differential Pressure 145 PSIG
Accuracy 0.25-0.50% of flow
Nominal resolution 2,600 PPG / 687 PPL

Design Features
- Compact, stainless steel block design
- High quality, reliable, and accurate to 0.25-0.50% of flow rate, oval gear design
- Low pressure drop
- Chemraz & Teflon elastomers (standard), excellent chemical resistance
- Sensors are 5-30 VDC Hall-effect or Reed switch type
- ASCO solenoid provides industry standard solution for precise flow control
- UL / CUL or ATEX components available for use in Hazardous Locations
- Available unmounted or 1-PAC through 6-PAC configuration
Technical Data

**Electrical**

**Solenoid**
ASCO, explosion proof, 2-way, direct acting, normally closed, 120 VAC/60 hZ. (standard), other voltages available as an option. Current 17.1 watt (standard)

**Sensor**
Hall-Effect type, non-intrusive, 3-wire, 5-30 VDC, or Reed Switch, non-intrusive, 2-wire, 5-30 VDC. Both sensors have hazardous area approvals

**Mechanical**

**Elastomers**
Chemraz dynamic seals & Teflon static seals (standard), other elastomers available as an option

**Field Mounting**
(2) mounting holes provide for the mounting of the device to backplane or unistrut utilizing 5/16-inch hex socket cap screw

**Configuration**
Multi-PAC configurations include 1-PAC through 6-PAC, each PAC pre-wired and pre mounted

**Meter Access**
Meter access via four (4) recessed socket head bolts located under sensor

**Meter Gears**
Oval gear design, 300 series stainless steel (standard)

**Needle Valves**
316 stainless steel with Teflon packing, high pressure rated

**Calibration**
Swagelok quick-connect fitting with dust cap, 316 stainless steel, mates with PN 77-CTK-50

**Strainer**
Stainless steel filter screen, basket type, 230 micron (60 mesh)

**Check Valve**
Teflon seat, 10 PSIG cracking pressure

**Dimensions**
6.5” L x 4” H x 1.5” D (165.1 mm x 101.6 mm x 38.1 mm)

**Connections**
3/8" FNPT Inlet & 3/8" MNPT Outlet

**Optional Accessories**

**Calibration Kit**
PN 77-CTK-50 (standard), or PN 77-CTK-50HR (recommended for all dye additives)

**Thermal Relief Kit**
PN 77-TRK-10 (device recommended for all dye applications)

**Product Ordering**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Solenoid Seat Material</th>
<th>Voltage/Hz.</th>
<th>Meter Gears</th>
<th>Configuration</th>
<th>Enclosures</th>
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</thead>
<tbody>
<tr>
<td>7718 v4</td>
<td>0 = Chemraz</td>
<td>0 = 115 / 60</td>
<td>0 = SS w/ Tungsten</td>
<td>0 = Loose</td>
<td>0 = None</td>
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<tr>
<td>7738 v4</td>
<td>1 = Teflon</td>
<td>1 = 230 / 60</td>
<td></td>
<td>1 = 1 PAC</td>
<td>1 = UL / CSA</td>
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<tr>
<td></td>
<td>2 = Viton</td>
<td>2 = 230 / 50</td>
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<td>2 = 2 PAC</td>
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<tr>
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<td></td>
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<td>3 = ATEX</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>4 = 4 PAC</td>
<td></td>
</tr>
</tbody>
</table>

Example: MiniBLOCK 7738 v4, Chemraz, 115v, SS Gears w/ Tungsten, Loose, No Enclosure (i.e. MB-7738-0-0-0-0-0)