

# MiniBLOCK v5

## Fluid Metering Block for Additive and Dye Injector Systems

**MARKET**

Energy Infrastructure

**AVAILABLE**

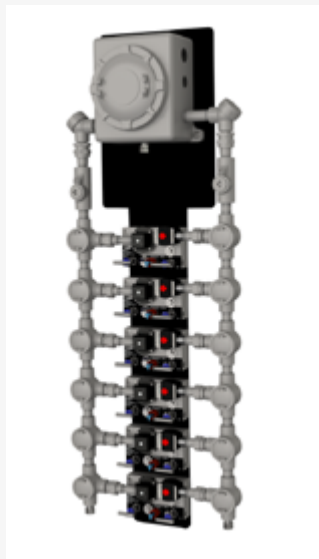
Worldwide

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 "peripheral device" to a user-supplied "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 or ATEX listed and are approved for use in hazardous area locations.



"Loose" MiniBLOCK



MiniBLOCK 6-PAC

**KEY 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 or ATEX components available for use in Hazardous Locations
- Available unmounted or 1-PAC through 6-PAC configuration
- Quick delivery

**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 2,900 PPG / 687 PPL

**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 6,700 PPG / 1585 PPL

**Chemtec Energy Services MiniBLOCK v5**

**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.

**MECHANICAL**

Elastomers	Chemraz dynamic seals, Teflon viton 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 recessed socket cap screws located under sensor
Meter Gears	Oval gear design, 300 series stainless steel (standard) with tungsten bearing
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 elastomer
Strainer	Stainless steel filter screen, basket type, 230 micron (60 mesh) or 440 micron available
Check Valve	Teflon check with vitron or chemraz o-ring, 1 PSIG cracking check
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)
Thermal Relief Kit	PN 77-TRK-10 (device recommended for all dye applications)

**PRODUCT ORDERING**

<b>Model Number</b>	<b>Solenoid Seat Material</b>	<b>Voltage/Hz</b>	<b>Meter Gears</b>	<b>Configuration</b>	<b>Enclosures</b>
7718 v5	0 = Chemraz	0 = 115 / 60	0 = SS w/ Tungsten	0 = Loose	0 = None
7738 v5	1 = Teflon	1 = 230 / 60		1 = 1 PAC	1 = UL / CSA
	2 = Viton	2 = 230 / 50		2 = 2 PAC	
	3 = Special (Mercaptan)	3 = Other		3 = 3 PAC	3 = ATEX
	4 = Special (De-icer)			4 = 4 PAC	
				5 = 5 PAC	
				6 = 6 PAC	

**Example:** MiniBLOCK 7738 v5, Chemraz, 115v, SS Gears w/ Tungsten, Loose, No Enclosure (i.e. MB-7738-0-0-0-0-0)