



MKI

Blendtech "Miniblock" Injection Manifold 77 x 8

Key Benefits

- » Proven Reliability
- » High Performance under Extreme Conditions
- » High Accuracy & Repeatability
- » Serviceable Design



Overview

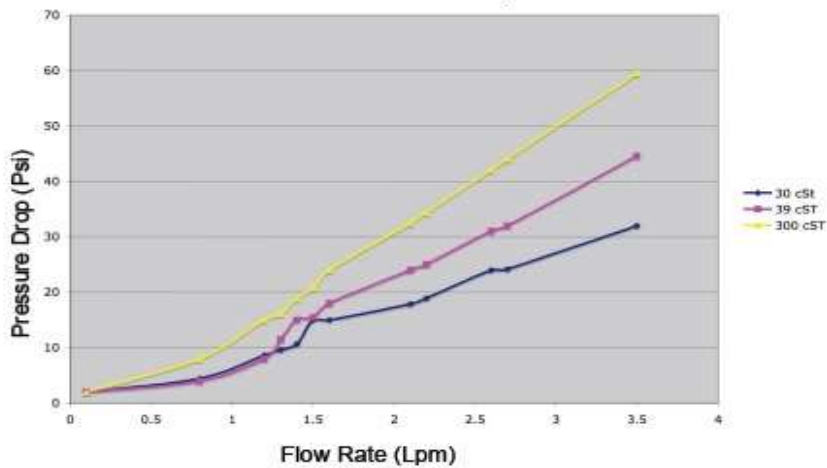
The Blendtech MK-I Injection Manifold is a compact, high accuracy injection solution that measures and controls the product and additive injection rates.

The unit acts as a "slave" device that provides a high-tech drop-in injection solution when combined with intelligent additive injection control hardware.

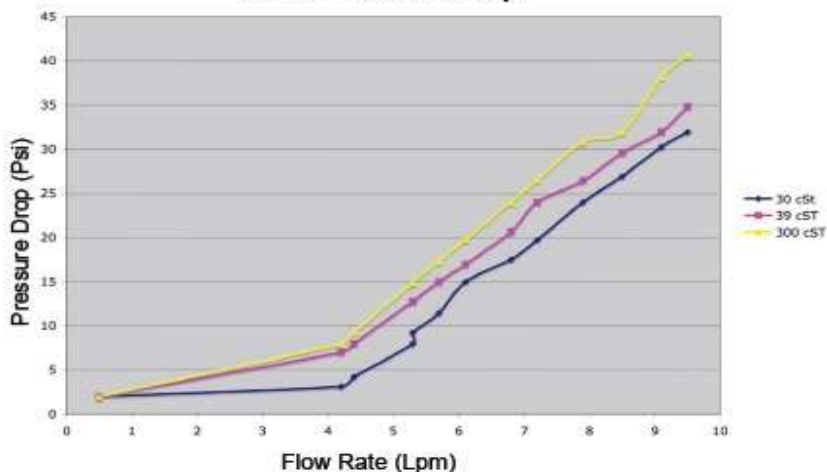
The MK-I is fully compatible with all Blendtech FLEx iO hardware, PLC, TAS and Preset Controllers, making it a versatile and reliable solution for a wide range of chemical additives and dyes.



7718 Pressure Drop



7738 Pressure Drop



Features

- » CSA or ATEX Approvals available
- » Chemraz and Teflon elastomers for excellent chemical resistance
- » Compact Integrated additive injection solution virtually eliminating all possible leak points.
- » Slave injector compatible with all Blendtech FLEx iO hardware and most additive injection control hardware, including TAS controllers, PLC and Load controllers.

Technical Specifications

Dimensions

6.5" X 4.25" X 1.75" (L X H X D)

165 mm X 108 mm X 44 mm

Operating Information

Maximum Pressure: 300 psig (20 barg)

Performance:

- » ±0.25% accuracy
- » 10:1 turndown
- » Minimum injection size of 2cc

MKI 7718:

- » Flow Rate: 0.3 GPM (1.2 Lpm) at 1 cSt
- » Maximum differential pressure 145 psig (10 barg)
- » Nominal Meter K, 12000 ppg (3170 ppl)

MKI 7738:

- » Flow Rate: 3 GPM (12 Lpm) at 1 cSt
- » Maximum differential pressure 145 psig (10 barg)
- » Nominal Meter K, 2600 ppg (687 ppl)

Mechanical

- » 3/8" FNPT inlet and outlet port connections
- » Swagelok quick-connect with dust cap on calibration port (316 L)
- » Integrated basket screen strainer 230 micron (60 mesh)
- » Check valve on output port (1 psig cracking pressure)

Materials

- » Manifold and meter body 304 Stainless Steel
- » All seals Chemraz or Teflon

Options

- » Calibration Kit (recommended)
- » Thermal Relief Kit

Hazardous Area Approvals

- » CSA C/US Approved for Class I, Groups C & D, Zone 1 Hazardous Areas
- » Ex d mb IIB T3 or T4 or T5 or T6 – CE Approved

Environment

- » IP6K Protection from Dust acc. to IEC 60529 Edition 2.2
- » IPX7 Immersion acc. to ISO 20653 2nd Edition
- » IP4X Protection against acc. to ISO 20653 2nd Edition
- » Ambient Temperature: -40°C to +65°C

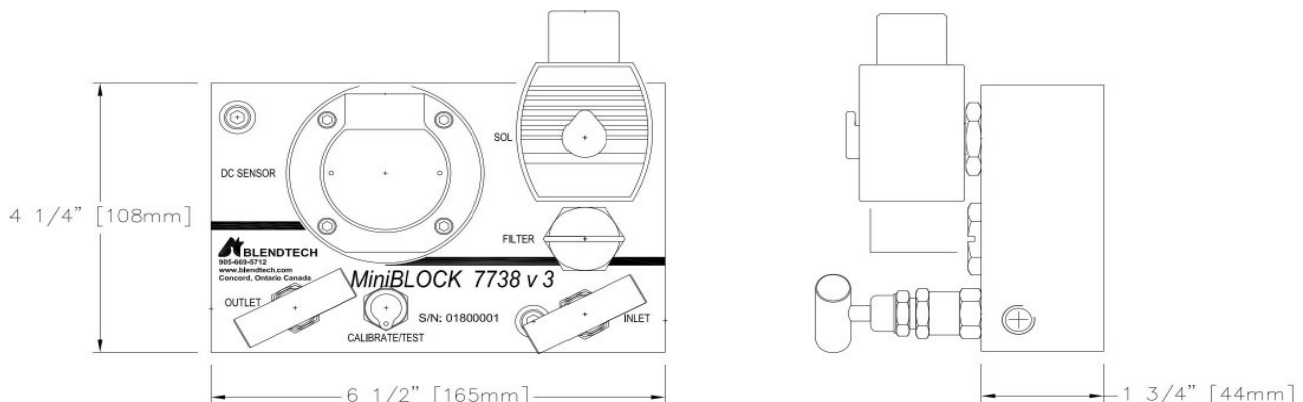
Electrical

Inject Valve:

- » Explosion Proof, 2-way direct acting normally closed solenoid valve. Rated for use in Class 1, Zone 1 Group C and D hazardous areas. CSA or ATEX approvals are available.

Flow Meter Sensor:

- » 3 wire Hall-Effect type (5 to 28 VDC)





Ordering Code

Flow	
MKI	7718- Low Dosage Applications Flow Rate: 0.03 – 0.30 GPM (0.12 – 1.20 LPM) at 1 cSt Maximum differential pressure 145 psig Nominal Meter K: 12000 ppg (3170 ppl)
	7738- Typical Additive Applications Flow Rate: 0.3 – 3.0 GPM (1.2 – 12.0 LPM) at 1 cSt Maximum differential pressure 145 psig Nominal Meter K: 2600 ppg (687 ppl)

Approvals

H1	CSA C/US Approved for Class I, Groups C & D, Zone 1 Hazardous Areas
H2	Ex d, mb IIB T3 or T4 or T5 or T6 – CE Approved

Manifold and Metering Body Material

SS	SS 304 stainless steel
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Electrical Value

1	12 VDC
2	24 VDC
3	120 VAC, 60 Hz
4	110 VAC, 50 Hz
5	240 VAC, 50 Hz

Flow Meter Sensor

H	3 wire Hall-Effect Type
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Poppet Elastomers

B	Buna (NBR)
P	PTFE
C	Chemraz

Meter Sensor - Cable Length

1	0.5 m [1.5 ft]
2	2 m [6.5 ft]
3	5 m [16.5 ft]

MKI	7718-	H1	SS	3	H	C	1	Standard Ordering Code
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								Your Custom Ordering Code
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