



GUIDANT

Mono-Block™ III

The industry's most widely used additive injector



Our Latest Generation Additive Injector

The Mono-Block III is the building block for both smart and remotely controlled injector solutions.

The Mono-Block III is the latest generation of the Mono-Block Series of additive injectors—the industry's most widely used additive injector, installed at more than 75,000 loading racks, pipelines, chemical storage and distribution facilities, and aviation fuel delivery facilities around the world.

The Mono-Block III is designed to work seamlessly with Guidant's Fusion4 smart injector controllers (MSC-A and SSC-A), as well as latest-generation loading presets and terminal automation systems, such as Guidant's FuelFACS suite of software. The compact assembly features a solid block, stainless steel design.

Features

- 304 stainless steel block
- 3/8-inch female National Pipe Taper (FNPT) inlet and outlet ports
- Outlet tapered plug-style isolation valves with 180° operation
- Two different types of Mono-Block models for standard flow and low flow
- Valve cover plates with seal wire screws for added security
- Oval gear meter cavity machined into the block for precise measurements
- Strainer basket positioned perpendicular to flow in the face of the block
- Explosion-proof solenoid machined into the block
- Explosion-proof Hall-effect meter sensor
- An integral stainless steel ball check valve, machined and polished for optimum sealing at discharge ports to protect against reverse flow
- Optional calibration kit P/N 30-00-002

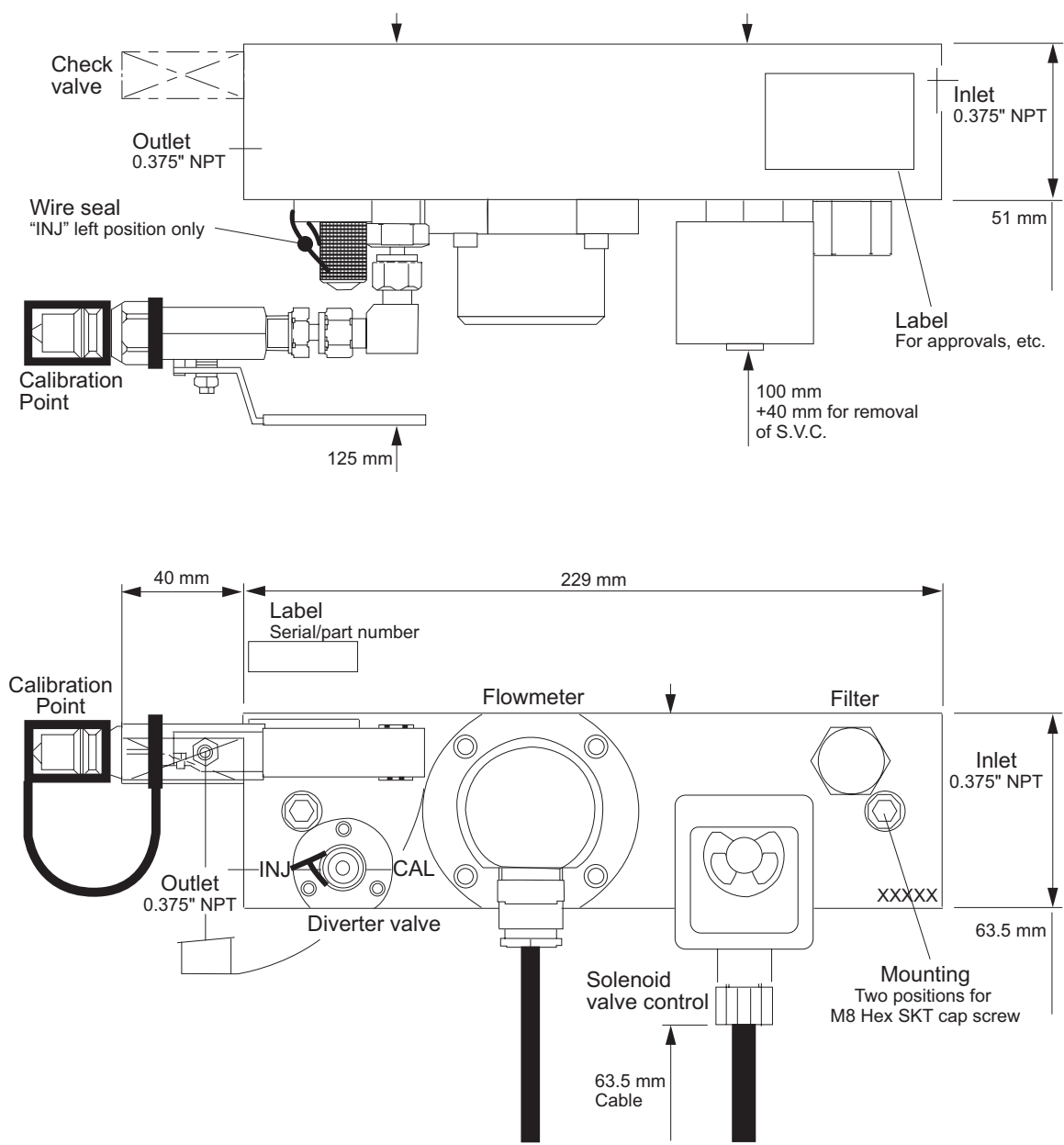
Benefits

- Operational security with tamper-proof features
- Proven reliability, more than 75,000 Mono-Block legacy injectors installed worldwide
- Proven ease of maintenance and calibration
- Extremely accurate treat-rate optimization when used with a smart controller





General Arrangement



Technical Specifications

Flow		
	Standard Flow	Low Flow
Nominal K-Factor	760 pulses per liter (P/L)	1460 P/L
Meter Accuracy	0.50%	0.50%
Meter Repeatability	0.25%	0.25%
Max Flow Rate Note: The specified maximum flow rate is based on 50 cSt hydrocarbon liquid.	11.0 liters per minute (l/min)	1.0 l/min
Min Flow Rate	1.0 l/min	0.1 l/min
Max Pressure	235 pound-force per square inch (psi) (16 bar)	235 psi (16 Bar)
Max Viscosity	300 centistokes (cSt)	
Environmental		
Temperature	-20 to 65 °C (-4 to 150 °F)	
Approvals	IECEX and ATEX Zone 2	
Materials		
Manifold	304 stainless steel	
Meter Gears	538 Ryton polyphenylene sulfide (PPS)	
Sensor	Aluminum	
Solenoid Seals	Isolast/polytetrafluoroethylene (PTFE)	
Electrical		
Solenoid Voltage	120/240 volts alternating current (VAC) 17.18.6 watts (W); 50/60 hertz (Hz)	
Sensor Type	Solid-state, bipolar magnetic gated, open-collector output	
Sensor Power	5 to 25 volts direct current (VDC), 20 milliampere (mA) maximum	
Open Collector Output	5 to 25 VDC, 100 mA maximum (unsourced)	
Mechanical		
Manifold Components	Diverter valve, inlet strainer, outlet check valve, quick-release coupling (QRC) for calibration port	
Manifold Connections	3/8-inch FNPT	
Weight		
Bare Mono-Block III Unmounted	Approximately 5 kilograms (kg) (11 pounds (lbs))	
Options		
Meter Gears	303 stainless steel	
Calibration	Mono-Block Calibration Kit (part number 30-00-002)	
Inlet and Outlet Isolation Valve	3/8-inch male NPT connection to Mono-Block, 1/2-inch ball valve, 316 stainless steel	
Blocking Solenoid	Same as control solenoid	
Flushing Options	Quick release coupling, 1/2-inch NPT, 303 stainless steel	

Identification Code

CV 1-6	Model Key	Availability	
HELA01	Mono-Block Standard Flow (ATEX)	–	
HELA02	Mono-Block Low Flow (ATEX)		–
CV 7	Number of Injectors		
1	One	•	•

CV 8	Mounting		
0	Not Requested	.	.
1	Backplate Mounting Kit 1 (2 x standard M20 Ex d glands, standoffs, bolts)	.	.
2	Backplate Mounting Kit 2 (2 x Hawke M20 Ex d glands, standoffs, bolts)	.	.
3	Backplate Mounting Kit 3 (2 x standard M20 Ex e glands, standoffs, bolts)	.	.
4	Backplate Mounting Kit 4 (2 x Hawke M20 Ex e glands, standoffs, bolts)	.	.
A	Backplate Mounting Kit T6/4 A (2 x standard M20 Ex e glands, standoffs, bolts)	.	.
B	Backplate Mounting Kit T6/4 B (2 x Hawke M20 Ex d glands, standoffs, bolts)	.	.
CV 9	Standard Flow and Gear Material		
0	No Standard Flow Injector Selected		.
A	Standard Flow - Ryton Gears - (760 P/L)	.	
B	Standard Flow - Stainless Steel Gears - (760 P/L)	.	
CV 10	Low Flow & Gear Material		
0	No Low Flow Injector Selected	c	
C	Low Flow - Ryton Gears - (1460 P/L)		d
D	Low Flow - Stainless Steel Gears - (1460 P/L)		d
CV 11	Solenoid - Seat Material		
1	Isolast (ATEX standard)	.	.
2	PTFE	.	.
CV 12	Control Solenoid - Voltage and Temperature Class		
1	230 VAC 50 Hz - T3 - Ex m - (ATEX Standard)	f	f
2	230 VAC 50 Hz - T5 - Ex m	f	f
3	230 VAC 50 Hz - T6 - Ex d	e	e
4	110 VAC 50 Hz - T3 - Ex m	f	f
5	110 VAC 50Hz - T5 - Ex m	f	f
6	110 VAC 50 Hz - T6 - Ex d	e	e
A	230 VAC 50 Hz - T4 - Ex d - IECEx	e	e
B	110 VAC 50 Hz - T4 - Ex d - IECEx	e	e
CV 13	Blocking Solenoid, Isolation, and Flushing Options		
0	Not Requested	.	.
1	Isolation Valves - Inlet and Outlet	.	.
2	Isolation Valves - Inlet and Outlet + Flushing Points 1/4-inch QRC	.	.
4	Blocking Solenoid + Isolation Valves - Inlet and Outlet	.	.
5	Blocking Solenoid + Isolation Valves - Inlet and Outlet + Flushing Points 1/4-inch QRC	.	.
CV 14	Ex Approvals		
A	ATEX	j	j
B	IECEx	k	k
C	CCOE (India)	m	m
CV 15	Cable Lengths		
0	No Option	n	n
A	2 Meter Flying lead - Ex m (Solenoid and Sensor)	q	q

Restrictions

Value	Only Available with Selection			Not Available with Selection		
	CV		Selection	CV		Selection
c	9		A, B			
d				9		A, B
e				8		1, 2, 3, 4
f				8		A, B
g				12		1, 4
h				12		1, 4
j	12		1, 2, 3, 4, 5, 6			
k	12		A, B, 1, 2 4, 5			
m	12		1, 2, 3, 4, 5, 6			
n	12		3, 6, A, B	8		1, 2, 3, 4, A, B
q	8		0, 1, 2, 3, 4			

About Guidant

As the undisputed leader in liquid and gas custody transfer solutions with the largest global install base, Guidant's legacy is built on more than 90 years of expertise, accuracy, reliability, and best-in-class technologies. We are a private company focused on the measurement solutions business, serving emerging and established energy markets across the globe.

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