



ADDITIVE INJECTION BLOCK

for dosing applications



AS-SERIES

- Compact stainless steel block
- High quality, accurate and reliable
- Economical & easy installation
- Approved by weights and measures authorities, India
- High flow capacity with little space requirement
- Detachable components for servicing
- ATEX / PESO approved explosion proof electrical instruments

Additive injection block is a compact equipment used for injecting very small doses of liquid to enhance the performance of the main liquid which are fuel base.

In general they are coloring agents, lubricants, corrosion inhibitors, anti-static, anti-freezing, anti-foaming emulsifiers.

Injection block is designed with a single stainless steel block containing precision oval wheel meter, solenoid valve, strainer, needle valve and non return valve.

Test port for site calibration makes it sleek and compact design. Invariably it is used in terminal automation system, as a slave unit with any controller for injecting in to the main header.

Design & Operation

Injection block is specially designed for performing with high accuracy and with least pressuredrop. The control functions of the injection block is done by the "ratio control module" or "batch controllers" which are approved for use in hazardous area and capable of powering the sensor and controlling the solenoid.

Principle

The additive liquid flows through the hydraulic hose filled on to the inlet port with suitable end connections, for ease of operation. It further passes through the needle valve, filter element, solenoid valve and to the flow meter. The quantity of liquid is measured in this zone. The liquid then passes through the non-return valve through a hydraulic hose which is injected on to the main line. The pulses generated by the flow meter evaluates the volume of additive injected liquid in the main line.

Flow Control

Additive flow control is provided by normally closed solenoid valve fitted in the stainless steel block which helps to batch the predetermined quantity being injected.

*Specification:

Model	AS - 03	AS - 06
Nominal size	6mm	10mm
Process connection	3/8 NPT(F)	3/8 NPT(F)
Flow range	10 to 80lph	25 to 200lph
Accuracy	± 1.0%	± 1.0%
Repeatability	± 0.25%	± 0.25%
Viscosity range (cp)	1.5 to 100	1.5 to 100
Temperature range	Ambient to 70°C	Ambient to 70°C
Operating pressure (Max)	10kg / cm ²	10kg / cm ²
Pulse output type	Inductive (NAMUR)	Inductive (NAMUR)
Pulse per litre (ppl)	660	330
Protection class	IP67 / Exd....	IP67 / Exd....
Overall dimension LxBxH (mm)	170 x 110 x 38	200 x 110 x 38
Mounting length M (mm)	310	340
Seal material	PTFE	PTFE
Block material / Grade	Stainless steel SS-316	Stainless steel SS-316

- Standard calibration kit can be offered on request.

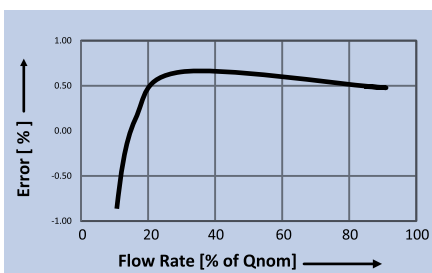
Applications:

Injection blocks are used to add colours or additives to improve the quality of main liquid. Generally they improve the characteristics such as combustion, lubrication, anti freezing, de-carbonization of engine etc.

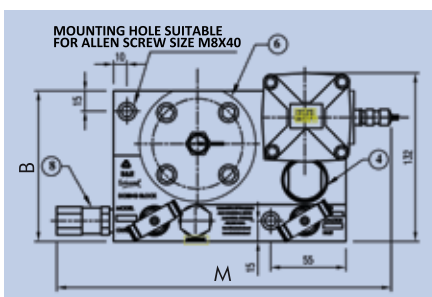
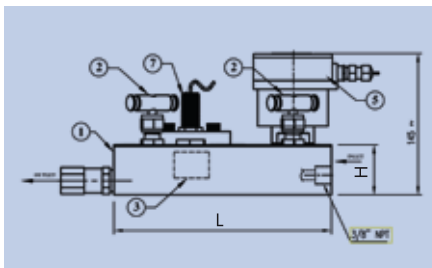
Packing | Dosing | Liquid filling | Pharma | Food | Chemicals | R&D | Oil & Gas

*Subject to modification without notice

PERFORMANCE CURVE



DIMENSION



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