UK Flowtechnik

Specialists in flow metering, pumps, couplings and process measurement equipment

PRODUCT DATASHEET

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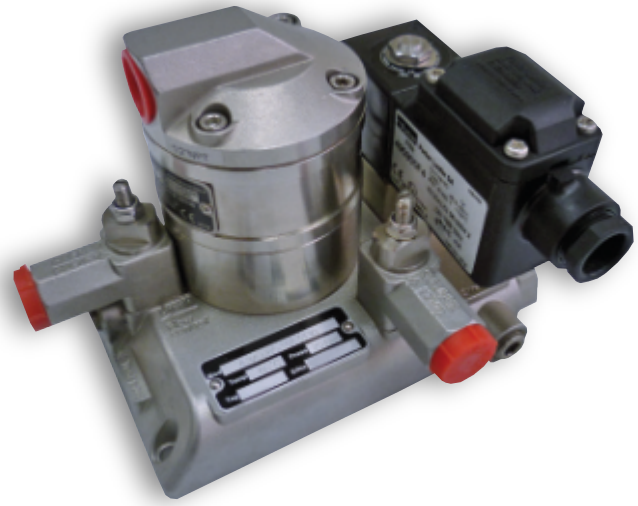
AIM Block (Additive Injection Manifold)

FLOMEC® AIM Block is a compact all stainless steel manifold assembly complete with isolating, flow regulating & check valves, a fine mesh strainer, solenoid valve & a precision oval gear flowmeter. AIM injects small amounts of modifying additives & performance enhancing agents into fuels, & base products. These include lubricants, dyes, colourings, denaturants, detergents, odorising, anti-freeze, anti-corrosion, anti-static, anti-detonating, anti-icing, anti-foaming and emulsifiers. AIM block will work well with any controller or TAS system, serving as a composite slave assembly for accurate blending of fuel additives to fuels at loading facilities, stationary & mobile transfer units within the petroleum industry worldwide.



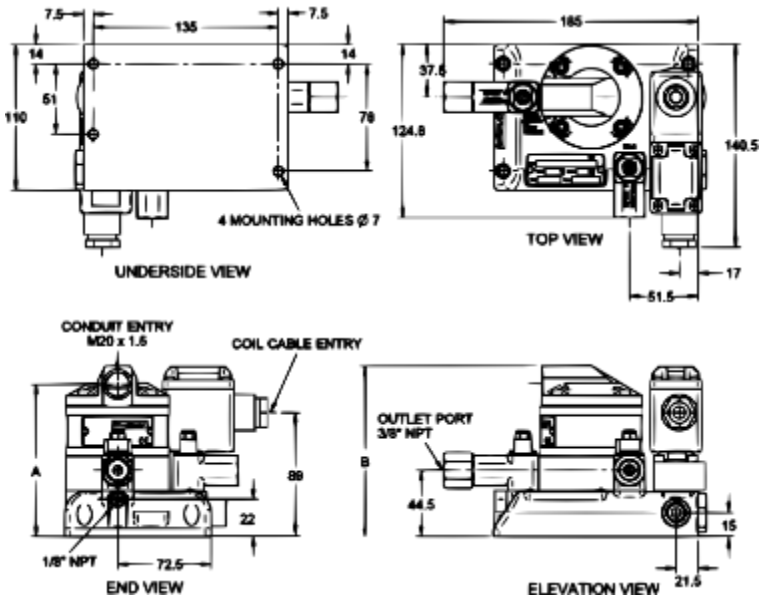
Features & Benefits

- Compact all stainless steel design
- All valve assemblies are detachable
- Modular process connections (directional)
- High accuracy & repeatability (±1%)
- Simple to install, easy to service in situ
- ATEX/IECEx approved Explosion proof

Technical Data

	AIM004	AIM006	AIM008
Flow Range L/Hr	1-36	2-100	15-550
Connection Size	3/8" NPT female (elbows can be indexed in 3 x 90° positions)		
Hall Effect Meter Factor (Pulses per litre)	2,800	1,050	710
High Resolution Meter Factor (Pulses per litre)	11,200	4,200	/
Body Material	316 Stainless Steel		
Gear Material	Stainless Steel with Carbon/Ceramic bearings		
Seals	Viton or PTFE encapsulated Viton		
Linearity	+/- 1% of reading		
Max Static Pressure	30 Bar		
Max Operating Pressure	7 Bar (DC solenoid valve coils), 20 Bar (AC solenoid valve coils)		
Max Temperature (°C)	65°C		
Output	Hall effect NPN pulsed output (5-24 Vdc, 20 mA max)		

Dimensional Data



	A	B
AIM004	108	122
AIM006	108	122
AIM008	115	129

Ordering Information

AIM006	3	I	I	-	2	I	5	HR

Meter Size

0.5-36 L/Hr (1/8")	AIM004
2-100 L/Hr (1/4")	AIM006
15-550 L/Hr (3/8")	AIM008

Seal Material

Viton (standard for Aluminium, -15oC minimum)	1
Chem-Kit (comprises PTFE & FFKM O-rings minimum -15° C)	3

Meter Protection Approval

ATEX/IECEx Approved	1

Cable Entries

M20x1.5 (M16x1.5 for R4 & R7)	1
½" NPT	2

Solenoid Valve Voltage

24V (dc) x 9W coil (maximum operating pressure 7 Bar)	1
110-115V (ac)/ 60 Hz x 8W coil (maximum operating pressure 20 Bar)	2
220-230V (ac)/ 50 Hz x 8W coil (maximum operating pressure 20 bar)	3

Solenoid Valve Protection Approval

ATEX/IECEx Approved	1

Solenoid Valve Orifice

3 mm (V (dc) coil = 7 Bar, V (ac) coil = 10 Bar) max. differential pressure)	3
5 mm (V (dc) coil = 3.5 Bar, V (ac) coil = 8.5 Bar max. differential pressure)	5

Integral Options

Hall effect Output	0
High Resolution Hall Effect output (004 - 006 only)	HR