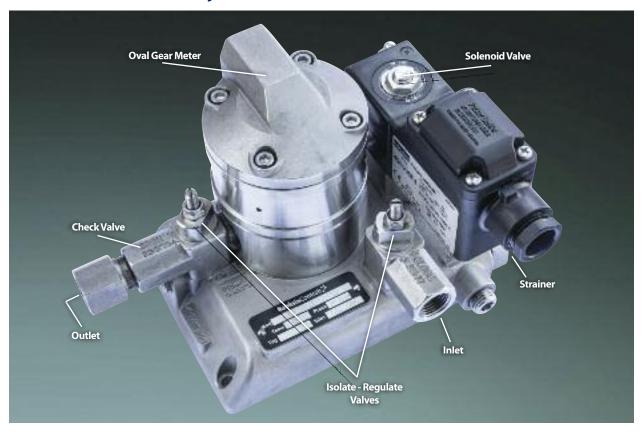




AIM Block (Additive Injection Manifold)



Additive Injection Manifold (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, odorizing, anti-freeze, anti-corrosion, anti-static, anti-detonating, anti-icing, anti-foaming and emulsifiers.

AlM block will work 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

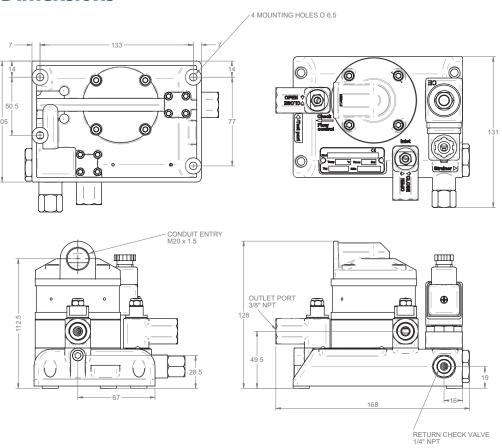
- Compact Stainless steel design with stainless gears
- All valve assemblies & the meter are detachable
- Modular process connections (directional)
- High accuracy & repeatability (±0.5% or better)
- Simple to install, easy to service in situ
- ATEX/IECEx approved Explosionproof Electrics
- Quadrature Pulse Output option



Specifications

Model Prefix	AIM004 (1/8"")	AIM006 (1/4"")	AIM008 (3/8"")
Nominal size (inches)	4mm (1/8"")	6mm (1/4"")	8mm (3/8"")
Process connections	3/8"" NPT elbows, 3 X 90° orientation positions		
*Flow range - LPH	0.5 ~ 36	2 ~ 100	15 ~ 550
- GPH	0.13 ~ 9.5	0.5 ~ 27	4 ~ 145
Accuracy @ 3cp	+/-0.05% of rate, or +/-0.5% over flow range stated		
Repeatability	typically +/-0.03% of reading		
Temperature range	-20°C ~ +120°C (-4°F ~ +250°F), refer factory for lower temperature		
Maximum Static pressure	30 bar (440 PSI)		
Maximum operating pressure		bar (PSI)	
DC Solenoid Coils	7 (100)		
AC Solenoid Coils	20 (295)		
Electrical - for pulse meters (see below for op	tional outputs)		
Output pulse resolution	pulses / litre (pulses / US gallon) - nominal		
Hall effect	2800 (10600)	1050 (3975)	710 (2690)
Quadrature Hall option	2800 (10600)	1050 (3975)	710 (2690)
HR-High Resolution Hall option	11200 (42400)	4200 (15900)	N/A
Hall effect output (NPN)	3 wire open collector, 5~24Vdc max., 20mA max.		
Optional outputs	4~20mA, quadrature pulse		
Physical			
Protection class	IP66/67 (NEMA4X); optional Exd I / IIB T4/T6,		
"Overall dimensions	Refer Below		

Overall Dimensions



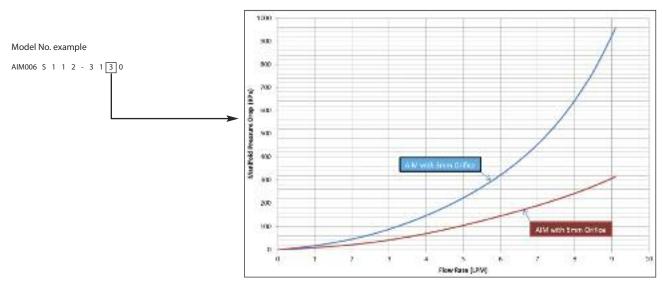
BanksiaControls***

Model Coding



AIM	1004	0.01~1.0 L/min (0.002~0.27 GPM)		
AIM006		0.03~1.66 L/min (0.008~0.444 GPM)		
		0.25~10 L/min (0.07~2.65 GPM)		
	l mate			
S		*meter, all valves & strainer 316SS, manifold block 303SS		
		*solenoid valve has a ruby seat to cover all applications		
O-ri	ing ma			
1		Viton (standard)		
		Chem-Kit, comprises Teflon & Perfluoroelastomer (Kalrez-Kemraz) O-rings		
Met	ter pro	tection approval		
0		No approval		
1 IEC / ATEX		IEC / ATEX		
		y for meter		
1		M20 x 1.5mm		
2		1/2" NPT		
Sole	enoid v	alve voltage		
-	0	12Vdc - max. 7 bar (100psi)		
-	1	24Vdc - max. 7 bar (100psi)		
-	2	110Vac - max. 20 bar (300psi)		
-	3	220Vac - max. 20 bar (300psi)		
-	9	Customer nominated		
		alve approval		
0		No approval		
1		IECEx / ATEX		
Sole	enoid v	alve orifice		
3		3mm Ø (DC coil - 7 bar, AC coil - 10 bar max. differential pressure)		
5		5mm Ø (DC coil - 3.5 bar, AC coil - 8.5 bar max. differential pressure)		
Inte	gral o			
0		No options		
2		Quadrapulse pulse output		
HR		High resolution Hall Effect output		

AIM004 = 11200 PPL, AIM006 = 4200 PPL



Part No. BCFAIMX0217