

Burner Block Positive Displacement Flowmeter

The Burner Block flowmeter is a precision machined positive displacement flowmeters capable of measuring a wide range of liquid flows and viscosities.

Each flowmeter is manufactured from aluminium with a high temperature, high impact rotary piston.



Features / Benefits

- Flow: 2~ 50 litres/min (0.5~13.2 US gal/min)
- Size: 25mm (1")
- High accuracy & repeatability, direct reading flowmeter
- No requirement for flow conditioning (*straight pipe runs etc.*)



Meter selection

Meters are selected based on temperature, material compatibility and functionality.

- **Aluminium** flow meters are ideal for lubricants including oils and grease, fuels and fuel oils.
- **Pulse meters** have two pulse outputs which can be interfaced to most electronic instrumentation. The Reed Switch is also used for integrating and batching applications & is connected into an approved intrinsically safe barrier when used in hazardous locations. The open collector Hall Effect output produces high resolution pulses ideal for precise dispensing and preset batch control.
- **Meters** available with an integral totalisers and flow rate totalisers.



Specification

Basic Model No.	BB025A
Size	25mm
Process connections	burner block footprint
Flow range Litres/hr (US gal/min)	120 ~ 3000 (0.5 ~ 13.2)
Accuracy & Repeatability	+/- 1% of rate, +/- 0.1% repeatability typical with steady flows
Max. pressure – Aluminium	30 bar (440psi)
Temperature range	-40 °C ~ +150 °C (-40 °F ~ +300 °F)
Meter Materials	Aluminium
Piston Materials	PEEK (polyether ether keytone) or ERTALYTE
O-ring Material	Viton (Std), EPR, Teflon or Buna-N (nitrile)
Reed Switch output	24Vdc max./50mA max. (current limited)
Pulses/litre (nominal) (Pulses/US gal nom.)	20 (76)
Square Wave output (optional)	5~24Vdc max./20mA max. sink current (3 wire NPN open collector)
Pulses/litre (nominal) (Pulses/US gal)	100 (380)
Protection class	IP66 (NEMA4X) – optional, Explosion proof Exd IIB T4 (class 1, Div.1)
Conduit entry port	M20 x 1.5mm female threaded (with terminal cover optin)
Suggested filtering (mesh)	250 microns (50)

Ordering information

Size	
BM 025	3/4" (25mm) Hamworthy rectangular footprint
BB 025	1" (25mm) Saacke or Hamworthy round footprint
Body material	
A	Aluminium
Piston material	
2	PEEK (polyetheretherkeytone)
3	PTFE - 36% carbon filled teflon (120°C max.)
Partition material	
2	316L Stainless Steel
O-ring material	
1	Viton (standard - 150°C max.)
Temperature limits	
1	-40 to 60°C
2	120°C max. *(see below)
3	150°C max. *(includes two integral cooling fins & 150°C piston)
5	120°C max. *(included integral cooling fin)
Mounting	
H	"H" configuratin burner block footprint (Hamworthy round footprint)
S	"S" configuratin burner block footprint (Saacke round footprint)
HR	Hamworthy rectangular footprint
HA	Hamworthy AWMark 1
Cable entries	
0	M 16x15 (exclusive to FRT Rate Totaliser)
1	M20 x 15mm
2	1/2" NPT
Integral options	
00	No options
GN	GRN terminal cover
SS	Stainless steel terminal cover
F1	FRT-00 Flow Rate Totaliser - No output - display only
F2	FRT-AP Flow Rate Totaliser - 4-20mA output proportional to flowrate & scaled pulse output
F3	FRT-ALP Flow Rate Totaliser - Alarm and/or scaled pulse output
F4	FRT-BC Flow Rate Totaliser - 2 stage batch control
R2	RT 1/2 rate totaliser with outputs
R3	IS. intrinsically safe RT 1/2 including output

Model No. Example

BB **025** **A** **1** **2** **1** **-2** **S** **0** **R2**

Note: Special build versions in stainless steel are available for tallow applications.

DSBB – 1803

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