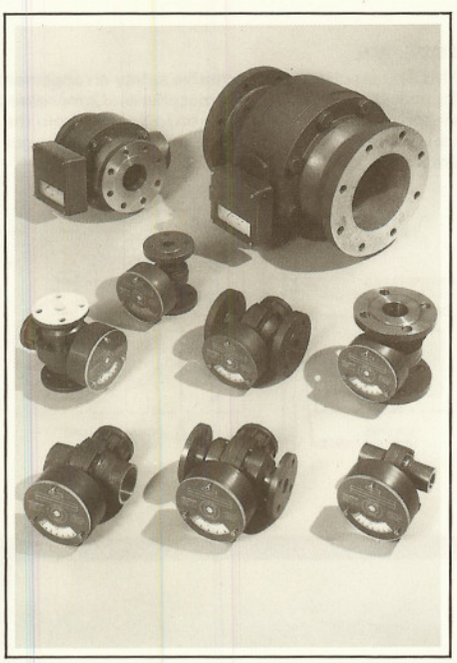
FLOW-MON LIMITED

FOR VERY LOW FLOWS THIS ADDITIONAL FLOW-SWITCH HAS BEEN ADDED TO OUR RANGE

* Suitable for liquid or gas applications
* Measures down to 50cc/minute (at 20 cS)
* Maximum capacity 5 litres/minute
* Electrical switch and/or calibrated indication
* Cannot be strained on cold start-up
* Suitable for 20 bar or 130 bar maximum pressures
* Inline design, ¼" to 1" BSP female inlet and outlet
* May be mounted in any plane



MECHANICAL FUNCTION

A fixed tapered needle passing through an orifice in the face of a piston, completely seals the port to port connection when the piston is seated. As flow commences the piston is displaced against a 4 p.s.i. differential spring and moves over the tapered section of the needle thus permitting flow through the orifice. Only the needle taper configuration needs to be changed to accommodate any specified viscosity and maximum flow requirement, thus the full deflection of the unit can be used for all applications.

INDICATION AND READ-OUT

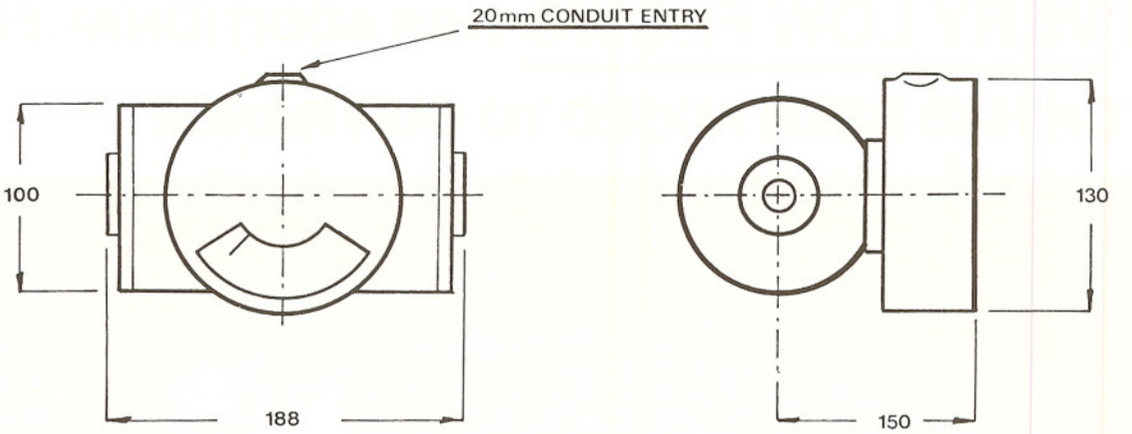
Piston movement is mechanically linked to a shaft which is rotated to a degree exactly representing piston displacement and therefore flow through the orifice. The shaft passes out of the unit wall into a switch box where it carries a field adjustable cam to operate up to four micro-switches. A pointer on the shaft gives visual indication of flow.

INSTALLATION

Accuracy is not affected by position and therefore the unit can be mounted in any plane. For fine manual control of flow, a needle valve may be fitted to the outlet port, and this in conjunction with the flow read out, provides a simple, accurate means of setting maximum flows through the line.

Designed and Printed by Interprint Limited, Harrogate. (0423) 887147

FEATURES & DIMENSIONS



OPTIONS & CODES

FMC 5L A LP 3EE 8cS 4 DI SI X

UNIT TYPE

FLOW RANGE
State maximum flow capacity required in units per min. or hour
C = Cubic centimetres/min.
L = Litres/min.
M = Cubic metres/hour
G = Impl. gallons/min.
P = Pints/min.
Others state in full

Note. Max. requirement stated will be at full scale deflection. Ranges start from zero and may cover any maximum flow between 200cc and 5000cc for water and similar viscosities.
For viscosities over 20 cS, flow ranges down to 50cc are practical.

MATERIAL (BODY)
B = Bronze
A = Aluminium
S = Steel
SS = Stainless 316
PVC = (100 PSI only)
Others to special order

WORKING PRESSURE
LP = 300 p.s.i. max.
HP = 2000 p.s.i. max. (S & SS only)

SWITCHES
ME = Mechanical Pointer only
3EE = 3 wire switch
4EE = 4 wire switch
6EE = 6 wire switch
3EE3EE = Double switch
3EXP = 3 wire explosion proof
6EEXP = 6 wire explosion proof
3EFP = 3 wire flameproof
AIR = Air switch and booster
For weatherproof read-out and switchbox (to IP54) add - W

WORKING VISCOSITY
State in Centistokes (cS) at working temperature

For gas applications, state specific gravity and line pressure i.e. S.G. 0.8/150 p.s.i.

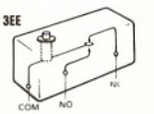
2 = ¼ BSP
4 = ½ BSP
6 = ¾ BSP
8 = 1" BSP

FOR NPT THREADS ADD N.

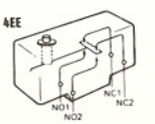
SEALS
S1 = Buna (standard)
S2 = EPR
S3 = Viton
S4 = PTFE
Others to special order

DIRECTION OF FLOW
Body rotated relative to indicator
D1 = Left to right (standard)
D2 = Right to left
D3 = Bottom to top
D4 = Top to bottom

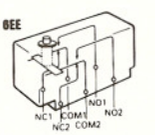
FLOW CONTROL VALVE
V = Valve required
X = No valve



CODE: 3EE
Basic single throw, 3 wire switch
15 amp - 125, 250 or 480V.AC
0.5 amp - 125V.DC
0.25 amp - 250V.DC

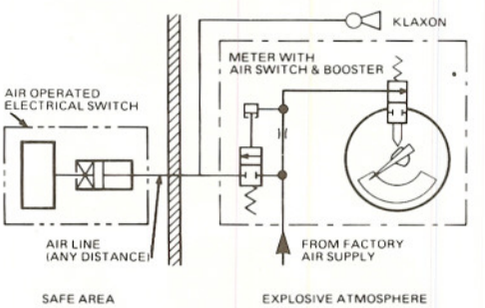


CODE: 4EE
Contact arrangement is single-pole, double throw, double-break.
10 amp - 125 or 250V.AC
0.3 amp - 125V.DC
0.15 amp - 250V.DC



CODE: 6EE
Double-pole, double throw switches simultaneously make and break two independent circuits.
10 amp - 125 or 250V.AC
0.3 amp - 125V.DC
0.15 amp - 250V.DC

CODE: AIR
This system offers an alternative safety arrangement for operation in explosive atmospheres. Compressed air can be used to transmit an on/off signal from the danger area or to operate a klaxon inside the danger area.



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