



The Atrato Process is based on our standard, wide ranging, Atrato meter but packaged to address the more challenging process and control environment.



### FEATURES

- Ultrasonic technology
- No moving parts
- 4 flow ranges
- Accuracy
  - ±1% of reading 2—100% range
  - ±2% of reading 0—2% range
- Repeatability ±0.1% +0.005% FSD
- Pulse output, NPN and PNP
- 20 bar rating
- 8-24VDC operation
- Large turndown ratio
- 1/4" BSP fitting
- IP65 enclosure
- 65°C operation
- Pre-set 'K' factors

The Atrato Process body is 316 stainless steel, rated at 20 bar and the electronics are built-in and sealed to IP65. The only other wetter materials are PEEK and the customer's choice of elastomers.

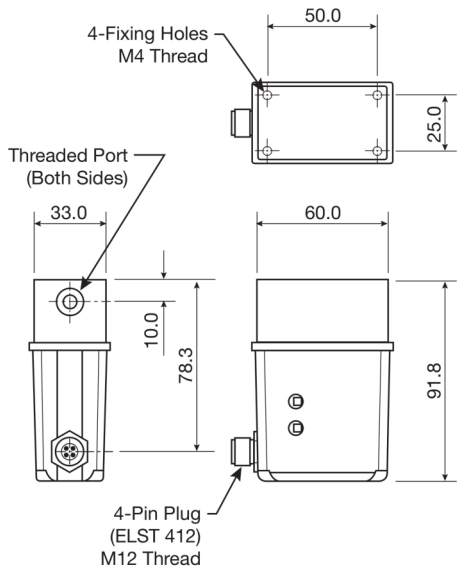
They are calibrated with a pre-set 'K' factor so all meters of the same flow range are fully interchangeable simplifying assembly and set-up procedures for OEM manufacturers.

There are two adaptable frequency outputs, one PNP and NPN. Two multicolour LEDs indicate signal strength, power malfunctions and pulse outputs. Electrical connections are through a standard M12, four pin, sensor connector. Four flow ranges are available from 2ml/min to 15 litres per minute, accuracy is ±1% over the whole flow range.

Flow Range	'K' factor Pulses per litre
2 to 500 ml/min	100,000
0.01 to 1.5 L/min	20,000
0.03 to 3 L/min	10,000
0.1 to 15 L/min	2,000

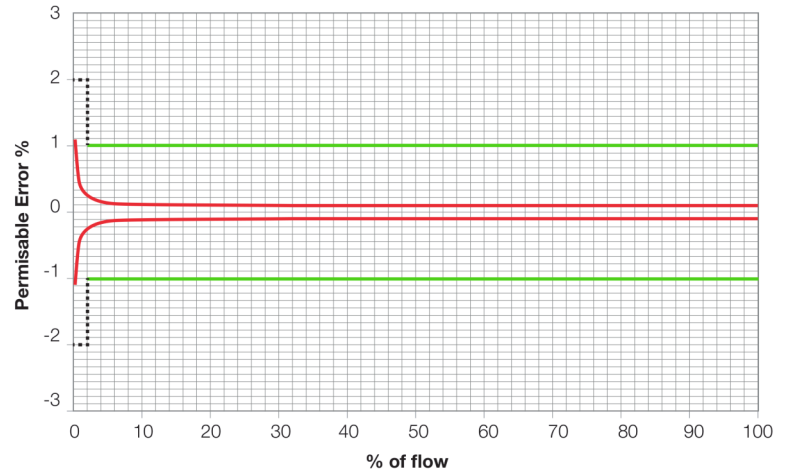


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### Process Atrato

- Linearity - Green line  $\pm 1.0\%$  of reading from 2 to 100% of range
- Black line  $\pm 2.0\%$  of reading minimum flow to 2% of range
- Repeatability - Red line  $\pm 0.1\%$  of reading plus 0.005% of full scale



#### First 3 digits Standard Flow range

71P = 2 - 500 mL/min

72P = 0.01 - 1.5 L/min

74P = 0.03 - 5 L/min

**76P = 0.1 - 15 L/min**

#### Fourth digit Seal material

**V = Viton®**

N = Nitrile

E = EPDM

S = Silicon

K = Kalrez®

#### Fifth digit Process fittings

**Q = 1/4"**

#### Sixth digit Thread type

**B = BSP**

N = NPT

#### Seventh digit Tube assembly materials

**O = PEEK/316 St St**

S = Special

For example

**76P - VQB - O**

This is a 15 L/Min flowmeter with Viton seals, quarter inch BSP fittings and a 316 stainless steel body with stainless steel and PEEK flow tube.