

TECHNICAL PRODUCT DATA SHEET

process atrato™

titan

Industrial Process Ultrasonic Flowmeter

» **DDM**
sensor solutions

The distributor
of your choice!



IDEAL FOR

- Cooling equipment
- Pharmaceutical
- Drink dispense
- Chemical dosing
- Industrial Flow monitoring
- Semiconductor plant



TECHNICAL SPECIFICATIONS

Model	Flow range L/Min	Approx 'K' Factor
71P	0.002 - 0.5	100000
72P	0.01 - 1.5	20000
74P	0.03 - 5	10000
76P	0.1 - 15	2000

TITAN ENTERPRISES LTD.
www.flowmeters.co.uk

Distributor: DDM GmbH & Co. KG

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Titan's Process Atrato® ultrasonic flowmeter is based on our standard, wide ranging, Atrato® meter but packaged to address the more challenging industrial process and control environment. The body is 316 stainless steel, rated at 20 Bar, and the electronics are built-in and sealed to IP65. The only other wetted materials are PEEK and the customer's choice of elastomers. These devices 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 frequency outputs: 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 2 ml/min to 15 litres per minute, with an accuracy of $\pm 1\%$ over the whole flow range.



FEATURES

- Ultrasonic technology
- No moving parts
- 4 flow ranges
- Accuracy
 - $\pm 1\%$ of reading 2-100% of range
 - $\pm 2\%$ of reading 0-2% of range
- Repeartability $\pm 0.1\% +0.005\%$ FSD
- Pulse output: NPN and PNP
- 20 bar rating
- 8 to 24Vdc operation
- Large turndown ratio
- $\frac{1}{4}$ " BSP-F fittings / $\frac{1}{4}$ " NPT-F fittings
- IP65 enclosure
- -10 to +65°C operation
- Pre-set 'K' factors

Industrial Process Ultrasonic Flowmeter

Ordering Codes

Model

71P

72P

74P

76P

Seal Material (seal temperature range)

V = Viton™ (-20 to +150°C)

N = Nitrile (-20 to +100°C)

E = EPDM (-30 to +150°C)

S = Silicone (-50 to +230°C)

K = Kalrez® (-10 to +150°C)

Process Fitting Size

Q = 1/4"

Process Fitting Type

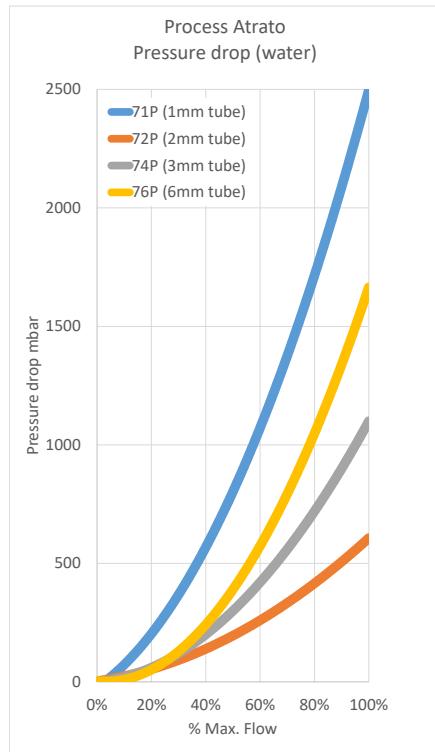
B = BSP (Female)

N = NPT (Female)

Internal Tube Materials

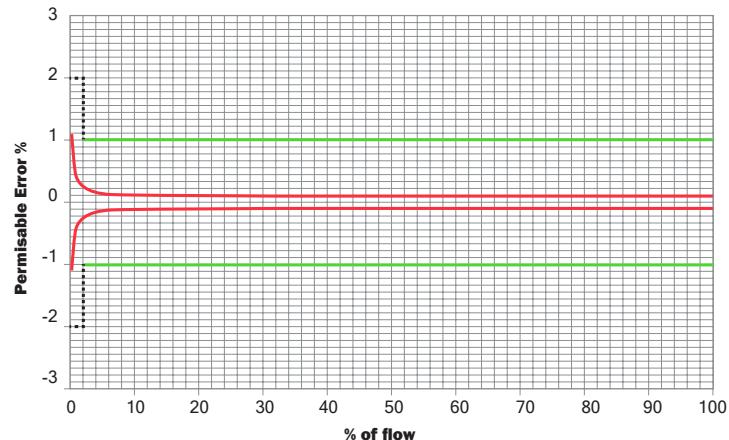
O = PEEK/316 St St

e.g. **76P-VQB-O** is a flow range of 0.1 to 15 L/min with Viton™ seals, quarter inch BSP fittings and a 316 stainless steel flow tube with PEEK internal fittings with a pre-set 'K' factor of 2000 pulses per litre.



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



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