

Pitot Static Tubes

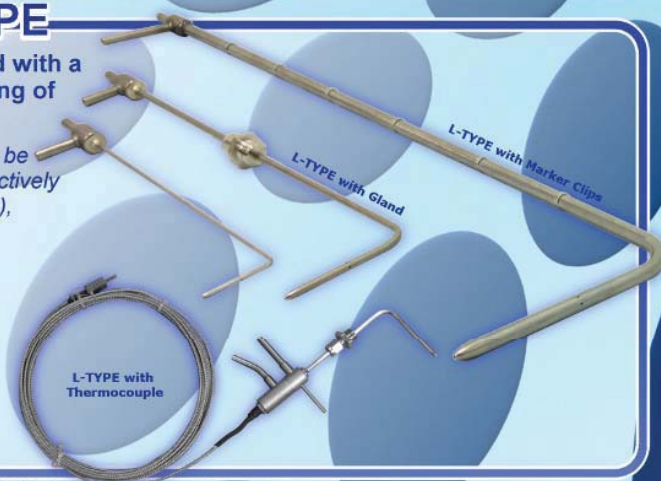
Pitot tubes are a primary device recommended in BS ISO 3966 : 2008 ('L'-TYPE) and ISO 10780 ('S'-TYPE) to determine the accurate measurement of fluid flow in a closed conduit system, adopting the traverse method. They are a universally accepted means of establishing the air velocity in a duct or stack with only small access requirements for insertion of the probe into a duct.

- Each Pitot has two tapping outlets at the tail end, static/sub-static pressure and total pressure.
- Fully welded design and are constructed of Stainless Steel BS3605-321-S18 and 303S31.
- Suitable for high temperature applications.
- Each version is available in standard sizes and length, however, special lengths by customers request can usually be accommodated.
- Each pitot has a direction handle to ensure correct alignment in duct.

L-TYPE

Our 'L'-TYPE Pitot tubes feature a modified ellipsoidal head with a single forward facing hole (sensing total pressure) and a ring of side holes (sensing static pressure).

- The 8.0mm and 9.5mm dia. and the 2.3mm and 4.0mm Pitots can be used in continuous temperatures of up to 680°C and 550°C respectively
- Can be supplied with sliding spring clip markers (used up to 276°C), glands or stud couplings
- They are available, as standard, in four diameters 2.3mm, 4.0mm, 8.0mm and 9.5mm and lengths from 200mm to 3 metres.
- The static pressure tapping doubles as a direction pointer.
- M-Factor of 0.997 \pm 0.001 (approximated to 1 in most cases).
- Available with a 90° bent head or fully straight design.
- Has been developed to include an integral thermocouple to allow for simultaneous monitoring of duct air temperature and velocity with minimal disturbance.



S-TYPE

The 'S'-TYPE Pitot is widely used in particulate sampling application and conforms to the requirements of ISO 10780 as they are less prone to clogging than 'L'-TYPE. They feature an integral thermocouple to allow for simultaneous monitoring of duct air temperature and velocity with minimal disturbance.



- Cast head gives more predictable result than a fabricated head.
- Only requires an access hole 35mm, regardless of duct wall thickness.
 - M-Factor of 1.422 with an accuracy of \pm 5% of reading
- 'S'-TYPE's can be used in continuous temperatures of up to 680°C and intermittently exposed to a temperature as high as 800°C
- 32mm diameter and available in four standard length, 0.7m, 1.2m, 2.2m and 3.2m.

Jointed

For larger sized ducts, up to 4.3m, Jointed Pitots are available. These larger Pitots are manufactured and supplied in jointed form consisting generally of 2 parts, a head section and tail section.

- Easy to use construction, the head and tail sections are connected by the internal pressure tubes using tube couplings that are easily tightened to become air tight.
- Compact design allows for easy storage and transportation.
- Supplied with a 90° 9.5mm diameter head or S-TYPE cast head
- 32mm diameter, in lengths to suit customer's requirements.



<u>Pitot Type</u>	<u>Diameter</u>	<u>Length</u>	<u>Additions</u>	<u>Stock No.</u>
Easy Fit Ellipsoidal	2.3mm	200mm	N/A	AFLPS583503
Easy Fit Ellipsoidal	2.3mm	300mm	N/A	AFLPS588701
Easy Fit Ellipsoidal	2.3mm	300mm	1/4" BSP Gland	AFLPS588704
Easy Fit Ellipsoidal	4.0mm	300mm	N/A	AFLPS540201
Easy Fit Ellipsoidal	4.0mm	300mm	1/4" BSP Gland	AFLPS540204
Easy Fit Ellipsoidal	8.0mm	500mm	N/A	AFLPS539701
Easy Fit Ellipsoidal	8.0mm	500mm	3/8" BSP Gland	AFLPS539704
Easy Fit Ellipsoidal	8.0mm	750mm	N/A	AFLPS539702
Easy Fit Ellipsoidal	8.0mm	750mm	3/8" BSP Gland	AFLPS539705
Easy Fit Ellipsoidal	8.0mm	1000mm	N/A	AFLPS539703
Easy Fit Ellipsoidal	8.0mm	1000mm	3/8" BSP Gland	AFLPS539706
Easy Fit Ellipsoidal	9.5mm	1250mm	N/A	AFLPS585601
Easy Fit Ellipsoidal	9.5mm	1250mm	1/2" BSP Gland	AFLPS585604
Easy Fit Ellipsoidal	9.5mm	1550mm	N/A	AFLPS585602
Easy Fit Ellipsoidal	9.5mm	1550mm	1/2" BSP Gland	AFLPS585605
Classic Ellipsoidal Pitot	9.5 – 12.7mm	1830mm	N/A	AFL7236801
Classic Ellipsoidal Pitot	9.5 – 19.0mm	2130mm	N/A	AFL7105301
Classic Ellipsoidal Pitot	9.5 – 19.0mm	2440mm	N/A	AFL7105302
Classic Ellipsoidal Pitot	9.5 – 19.0mm	2740mm	N/A	AFL7105303
Classic Ellipsoidal Pitot	8.0mm	1000mm	3/8" BSP Gland	AFL7013508
Classic Ellipsoidal Pitot	9.5mm	1220mm	1/2" BSP Gland	AFL7253805
Classic Ellipsoidal Pitot	9.5mm	1520mm	1/2" BSP Gland	AFL7253806
Classic Ellipsoidal Pitot	9.5mm	1830mm	1/2" BSP Gland	AFL7236802
Classic Ellipsoidal Pitot	4.0mm	300mm	K Type	AFL 72337701
with K-Type Thermocouple			Thermocouple	
Classic Ellipsoidal Pitot	8.0mm	1000mm	K Type	AFL72339302
with K-Type Thermocouple			Thermocouple	
'S'-type Pitot	35mm	700mm	K Type	AFL71983204
			Thermocouple	
'S'-type Pitot	35mm	1200mm	K Type	AFL71983201
			Thermocouple	
'S'-type Pitot	35mm	2200mm	K Type	AFL71983202
			Thermocouple	
'S'-type Pitot	35mm	3200mm	K Type	AFL71983203
			Thermocouple	



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