

PAUL GOTHE BOCHUM

PAUL GOTHE GmbH
Manufacturer of Emissions Control Technology



Product info: Prandtl-Pitot-Tube (L-Pitot-Tube)

This Prandtl-Tube is suitable for measurements in aggressive gases and can be used without any correction-factor (VDI 2640, page 3). The velocity can calculate with a simple formula (see box). For the total pressure is the hole at the tip of the nose. The static pressure is three head-diameters from the tip. The difference pressure can be measured with a pressure-sensing device. The L-Pitot Tube described in ISO 10780 has a longer leg and can also be ordered to the same price like the Prandtl-Pitot-Tube. In this case use instead of the index "PR" the index "L", the Art.-number remains.

p: difference pressure mbar
d: density

$$v = \sqrt{\frac{200p}{d}}$$

Prandtl-Pitot Tube:

Nominal length [mm] L	Ø- Outer [mm] D 1	Leg length [mm] (S)	Leg length minimum. [mm] (S)	Radius [mm] R	Ø-Opening total pressure [mm] d	Art.-No.	Available Material * ² A: 1.4541, C: 1.4841 T: Titanium
300	3	38	38	6	0,9	PR-3-	-A
250	5	60	40	10	1,5	PR-5-1-	-A
500	5	60	40	10	1,5	PR-5-2-	-A
250	6	72	55	12	1,8	PR-6-1-	-A
500	6	72	55	12	1,8	PR-6-2-	-A
250	8	97	60	16	2,4	PR-8-1-	-A
500	8	97	60	16	2,4	PR-8-2-	-A
800	8	97	60	16	2,4	PR-8-3-	-A
250	10	121	65	36	3	PR-10-1-	-A / -C / -T
500	10	121	65	36	3	PR-10-2-	-A / -C / -T
1000	10	121	65	36	3	PR-10-3-	-A / -C / -T
500	15	181	130	40	4,5	PR-15-2-	-A / -C / -T
1000	15	181	130	40	4,5	PR-15-3-	-A / -C / -T
1500	15	181	130	40	4,5	PR-15-4-	-A / -C / -T
500	20	242	150	56	6	PR-20-2-	-A / -C / -T
1000	20	242	150	56	6	PR-20-3-	-A / -C / -T
1500	20	242	150	56	6	PR-20-4-	-A / -C / -T
2000	20	242	150	56	6	PR-20-5-	-A / -C / -T
2500	20	242	150	56	6	PR-20-6-	-A / -C / -T
3000	20	242	150	56	6	PR-20-7-	-A / -C / -T
3500 * ¹	20	242	150	56	6	PR-20-8-	-A
4000 * ¹	20	242	150	56	6	PR-20-9-	-A
4500 * ¹	20	242	150	56	6	PR-20-10-	-A
5000 * ¹	20	242	150	56	6	PR-20-11-	-A

*¹ These pitot-tubes fortify after approximately 200 mm on Ø 30 mm (D2).

*² Material: stainless steel: 1.4541 up to 500 °C, stainless steel: 1.4841 up to 1000 °C, titanium up to 400 °C.

Exit of the pressure-tubes: olive for hoses Ø 6 - 10 mm

Mounting for pitot-tubes

The mounting is used for solidly installing a pitot-tube at the pipeline. Through solving of the stuffing box, the pitot-tube can push easy into each position and can be fixed afterwards again. Hint: The mounting must be installed during the manufacture of the pitot-tube. An additional montage, as well as dismantling is not possible.

Art.-No.: 47.5

