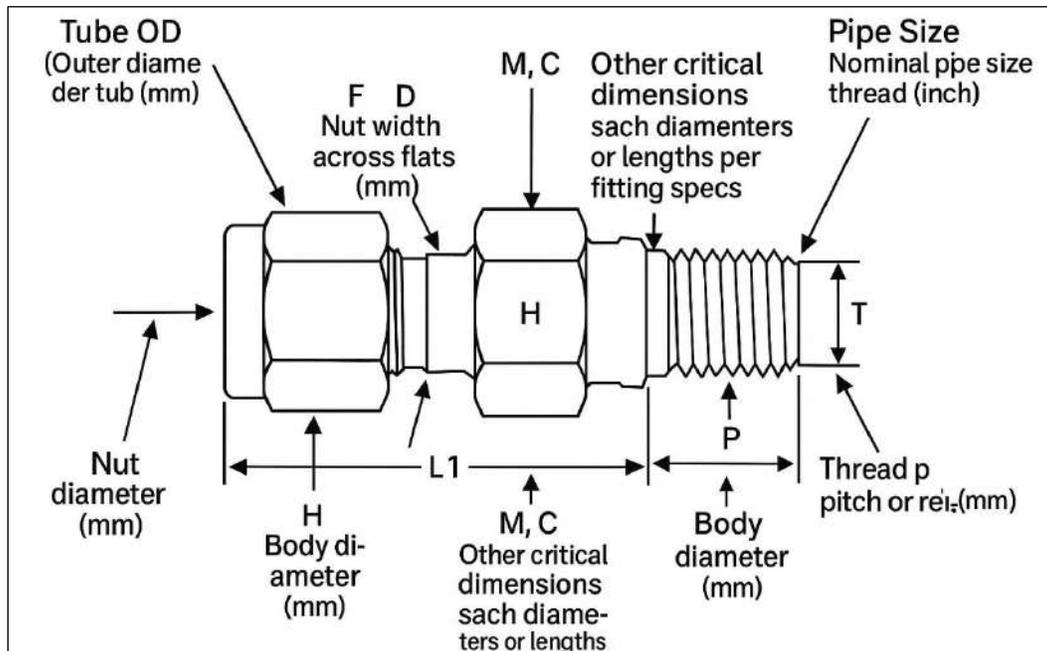


# INSTRUMENT TUBE FITTINGS DIMENSION CHART

**Doshi Impex India**



**Figure:** Schematic representation of fundamentals of instrumentation tube fittings and markings that can be used to determine the correct instrument tube fittings

**Table:** Dimensions of instrument tube fittings

T mm/d	P	L1 Length	M	C	D	F Body	G Nut	H Body	N
4	1/8'	31.35	9.53	16.67	14.29	12	12	24.21	10.72
4	1/4'	35.72	14.29	16.67	14.29	14	12	29.37	15.88
6	1/8'	33.34	9.53	18.26	15.88	14	14	25.40	11.11
6	1/4'	33.34	14.29	18.26	15.88	14	14	30.16	12.70
6	3/8'	38.89	14.29	18.26	15.88	19	14	30.96	13.49
6	1/2'	44.45	19.05	18.26	15.88	22	14	36.51	15.88
8	1/8'	34.53	9.53	19.05	16.67	14	17	26.59	11.51
8	1/4'	39.29	14.29	19.05	16.67	14	17	31.35	13.10
10	1/8'	35.72	9.53	19.84	17.46	17	19	27.78	11.91
10	1/4'	40.48	14.29	19.84	17.46	17	19	32.54	13.49

10	3/8'	40.48	14.29	19.84	17.46	19	19	32.54	13.49
10	1/2'	46.04	19.05	19.84	17.46	22	19	38.10	15.88
10	3/4'	46.83	19.05	19.84	17.46	27	19	38.89	15.08
12	1/4'	43.66	14.29	22.23	23.02	22	22	33.34	11.11
12	3/8'	43.66	14.29	22.23	23.02	22	22	33.34	11.11
12	1/2'	48.42	19.05	22.23	23.02	22	22	38.10	12.70
12	3/4'	49.21	19.05	22.23	23.02	27	22	38.89	11.91
16	3/8'	44.45	14.29	22.23	24.61	24	27	34.13	10.32
16	1/2'	49.21	19.05	22.23	24.61	24	27	38.89	11.91
16	3/4'	49.21	19.05	22.23	24.61	27	27	38.89	10.32
18	1/2'	50.80	19.05	22.23	24.61	27	30	40.48	13.49
18	3/4'	50.80	19.05	22.23	24.61	27	30	40.48	10.32
18	1"	56.36	23.81	22.23	24.61	36	30	46.40	14.29
20	1/2'	50.80	19.05	22.23	24.60	27	30	40.48	13.49
20	3/4'	50.80	19.05	22.23	24.61	27	30	40.48	10.32
20	1"	56.36	23.81	22.23	14.61	36	30	46.04	14.39
25	3/4'	57.15	19.05	26.19	30.96	36	41	45.24	11.91
25	1"	61.91	23.81	26.19	30.96	36	41	50.01	13.49

Where,

**Tube OD:** Outer diameter of the tube (mm)

**Pipe Size:** Nominal pipe size thread (inch)

**T:** Length of threaded portion (mm)

**P:** Thread pitch or related dimension (mm)

**LI:** Length of body or fitting (mm)

**M, C:** Other critical dimensions such as diameters or lengths per fitting specs

**D:** Nut diameter (mm)

**F:** Nut width across flats (mm)

**G:** Body diameter (mm)

**H:** Body width across flats (mm)

**N:** Additional dimension (e.g., thread engagement or other)

## **How to Choose the Right Instrument Tube Fittings**

1. Determine the Tube Size
2. Identify the Connection Type
3. Check the Pressure and Temperature Ratings
4. Select the Right Material
5. Choose Based on Installation Environment
6. Follow Standards & Certifications
7. Confirm with Technical Drawing and installed it