TECHNICAL DATA SHEET

Intermediate Metal Conduit Elbow

90 Degree Type

ELECMAN® Intermediate Metal Conduit Elbow is a manufactured curved section of IMC conduit threaded on each end.

Material:

Carbon steel

Type:

90 degree

Surface Finish:

Hot-dip galvanized:

Involves dipping the steel conduit in molten zinc, which creates a thick, durable coating.

Zinc coating:

1.Magnetic test in accordance with ASTM B 499.
2.Copper sulfate test (Preece Test) in accordance with ASTM A 239. Material will withstand four 1-minute immersions.
3.The zinc coating thickness is more than 40μm.

Certification & Standard

Certification:

Manufactured to Underwriters Laboratory Safety Standards UL 1242
UL File No.: E542214

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Standard:

Manufactured in accordance with ANSI C80.6

Welding:

The welding of all seams is continuous and done in a workmanlike manner.

Thread and Chamfer:

1. Each length of elbow is threaded on both ends, the standard of the threads is NPT.
2. The number of threads per inch (threads per 25.4 mm), and the length of the threaded portion at each end of each length of conduit is as indicated in Table 1, and conform to ANSI/ASME B1.20.1. The thread is tapered for its entire length, and the taper is about 1 in 16.
3. Threads are treated with a protective coating to prevent corrosion.
4. Both ends are chamfered to remove burrs and sharp edges.

Tabel 1 - Dimensions of Threads for IMC Conduit Elbow

Trade Size		Threads Per 25.4 mm.	Pitch diameterat end ofthread E_o, taper 62.5 mm. per meter [b]	Length of Thread (mm)	
in.	mm			Effective L_2	Overall L_4 [a]
1/2"	16	14	19.3	13.5	19.8
3/4"	21	14	24.6	14.0	20.1
1"	27	11 1/2	30.8	17.3	24.9
1 1/4"	35	11 1/2	39.5	18.0	25.7
1 1/2"	41	11 1/2	45.6	18.3	26.2
2"	53	11 1/2	57.6	19.3	26.9
2 1/2"	63	8	69.1	29.0	39.9
3"	78	8	84.9	30.5	41.4
3 1/2"	91	8	97.5	31.8	42.7
4"	103	8	110.1	33.0	43.9
5"	129	8	136.9	35.8	46.7
6"	155	8	163.7	38.4	49.5

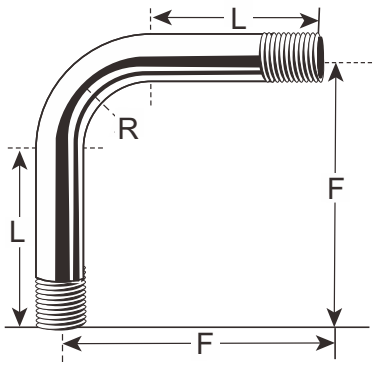
Applicable Tolerance:

[a]Thread length(L_4): ±1 thread, recommended practice +0, -1

[b]Pitch diameter: ± turn is the maximum variation permitted from the guaging face of the working thread gauges

Dimensions:

The dimensions of IMC elbow 90 degree are in accordance with Table 2.



Tabel 2 - Dimensions of IMC Elbow 90 Degree

Catalog Number	Trade Size		Minimum Radius (R)[1] to Center of Conduit	Minimum Straight Length (L) at Each End	Offset (F)[2]
	in.	mm	mm	mm	mm
IEN050	1/2"	16	102	38.10	149
IEN075	3/4"	21	114	38.10	178
IEN100	1"	27	146	47.63	222
IEN125	1 1/4"	35	184	50.80	273
IEN150	1 1/2"	41	210	50.80	311
IEN200	2"	53	241	50.80	368
IEN250	2 1/2"	63	267	76.20	432
IEN300	3"	78	330	79.38	498
IEN325	3 1/2"	91	381	82.55	578
IEN400	4"	103	406	85.73	606

[1]Mimimum requirement as per UL Standard

[2]For information only, not a requirement as per UL Standard

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