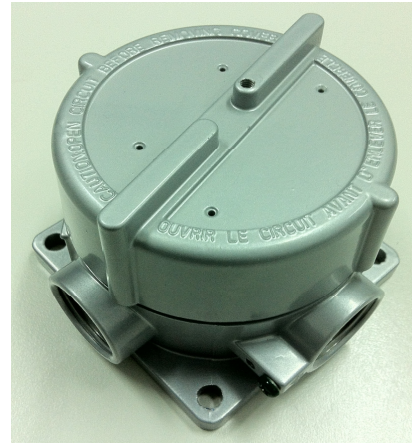# INTERNATIONAL METAL ENGINEERING

MODEL 7080 EXPLOSION PROOF JUNCTION BOX

- **EXPLOSION PROOF CERTIFIED**
- **NEMA 4X AND IP68 CONSTRUCTION**
- **CHOICE OF SS316 AND COPPER-FREE ALUMINUM**
- **CHOICE OF TEMPERED GLASS COVER OR BLIND COVER**
- **WIDE SELECTION OF CONDUIT SIZES**
- **OPTION FOR A CUSTOMIZE SS NAMEPLATES**

Introduction

Material of Construction:

Copper-Free Aluminum or SS316

Certification:

FM, CSA, ATEX & IECEx

Connections

½" NPT, ¾" NPT, M20x1.5

Mounting Holes

As per requirement

Surface Finishing

Epoxy Coated for Aluminum; Electro Polish for SS316

"O" Ring

Buna "N"

Weight

0.8 Kg (1.7 lbs) for Aluminum; 1.6 Kg (3.5 lbs) for SS316

Accessories

Customized SS Nameplate

Certification System

FM APPROVED	**CLASS I, DIV I GROUPS B, C & D** **CLASS II/III, DIV I GROUPS E, F & G** **NEMA 4X, IP66**
CSA ®	**CLASS I, DIV I GROUPS B, C & D** **CLASS II/III, DIV I GROUPS E, F & G** **NEMA 4X**
Ex	**II 2 G D** **Ex d IIC** **Ex tb A21 IP68** **Ta = -40℃ to +85℃**
IECEx	**Ex d IIC** **Ex tb A21 IP68** **Ta = -40℃ to +85℃**

Dimensions (Based on Aluminum Version)

55 [2.2"]
69 [2.7"]
41.5 [1.6"]
80 [3.2"]
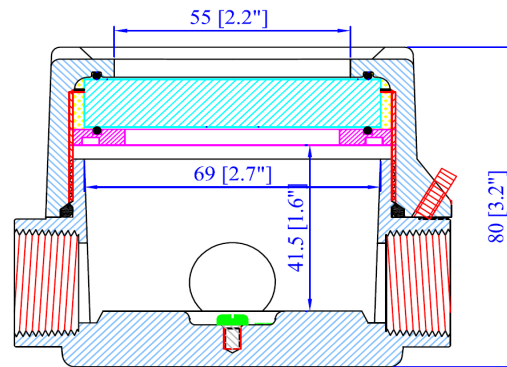
CROSS SECTION WITH GLASS COVER

69 [2.7"]
46 [1.8"]
73 [2.9"]
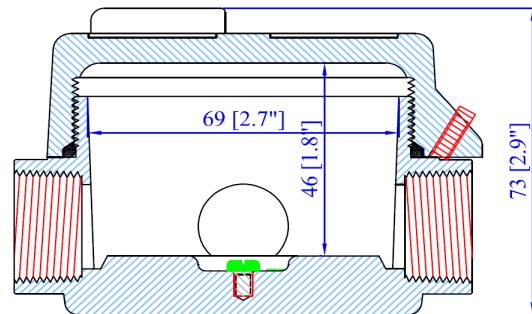
CROSS SECTION WITH BLIND COVER
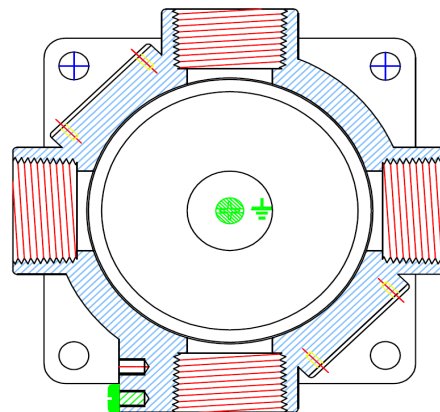
TOP VIEW OF 4 ENTRIES

INTERNATIONAL METAL ENGINEERING

MODEL 7080 EXPLOSION PROOF JUNCTION BOX

IME Model 7080 Series Junction Boxes are designed to accommodate circuit boards and devices having a maximum diameter of 2.6"(66mm). Specifically designed for explosion proof applications, the housing is available in either a die-cast Copper-Free Aluminum (NEMA 4X) version or investment casted SS316 to withstand applications where aggressive atmospheres prevail. The housing can be ordered with either a tempered glass cover or solid cover. There is a wide choice of conduit and instrument entries.

Order Information

Model	Description
7080AN	Copper-Free Aluminum Junction Box With Blind Cover, General Purpose, Epoxy Coated
7080AE	Copper-Free Aluminum Junction Box With Blind Cover, FM & CSA Explosion Proof Certified, NEMA 4X/ IP66, Epoxy Coated
7080AT	Copper-Free Aluminum Junction Box With Blind Cover, ATEX & IECEx Explosion Proof Certified, IP68, Epoxy Coated
7080AM	Copper-Free Aluminum Junction Box With Blind Cover, FM, CSA, ATEX & IECEx Explosion Proof Certified, NEMA 4X, IP66/ IP68 Epoxy Coated
7080WN	Copper-Free Aluminum Junction Box With Tempered Glass Cover, General Purpose, Epoxy Coated
7080WE	Copper-Free Aluminum Junction Box With Tempered Glass Cover, FM & CSA Explosion Proof Certified, NEMA 4X/ IP66, Epoxy Coated
7080WT	Copper-Free Aluminum Junction Box With Tempered Glass Cover, ATEX & IECEx Explosion Proof Certified, IP68, Epoxy Coated
7080WM	Copper-Free Aluminum Junction Box With Tempered Glass Cover, FM, CSA, ATEX & IECEx Explosion Proof Certified, NEMA 4X, IP66/ IP68, Epoxy Coated
7080TN	Stainless Steel Junction Box With Blind Cover, General Purpose
7080TE	Stainless Steel Junction Box With Blind Cover, FM & CSA Explosion Proof Certified, NEMA 4X/ IP66
7080TT	Stainless Steel Junction Box With Blind Cover, ATEX & IECEx Explosion Proof Certified, IP68
7080TM	Stainless Steel Junction Box With Blind Cover, FM, CSA, ATEX & IECEx Explosion Proof Certified, NEMA 4X, IP66/ IP68
7080SN	Stainless Steel Junction Box With Tempered Glass Cover, General Purpose
7080SE	Stainless Steel Junction Box With Tempered Glass Cover, FM & CSA Explosion Proof Certified, NEMA 4X/ IP66
7080ST	Stainless Steel Junction Box With Tempered Glass Cover, ATEX & IECEx Explosion Proof Certified, IP68
7080SM	Stainless Steel Junction Box With Tempered Glass Cover, FM, CSA, ATEX & IECEx Explosion Proof Certified, NEMA 4X, IP66/ IP68

Code	Entries (See Details Below)
00	1 Entry
01	2 Entries at 180°
02	2 Entries at 90°
03	3 Entries
04	4 Entries

Code	Connections
05	½" NPT
07	¾" NPT
22	M20 x1.5P (SEE NOTE 1)

7080SM	02	07	Typical Model Number

Note:
1. A temporary metric label is required when a metric thread is selected. However this thread option is not allowed in Canada.

4 ENTRIES   3 ENTRIES   2 ENTRIES AT 90°   2 ENTRIES AT 180°   1 ENTRY ONLY