

APPLICATION NOTE

MECHANICAL FITTINGS

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1. SCOPE

This document provides an introduction to mechanical fitting types in Europe and North-America and their fit of use with Solid AT's products in various environments according to the units' connections.

2. OBJECTIVES

- Familiarize the user with mechanical fitting types
- Familiarize the user with various connections used by Solid AT.

3. MECHANICAL FITTING TYPES

3.1 MECHANICAL FITTING TYPES

The most commonly used fittings:

- Gland
- Conduit ½" NPT
- Conduit M20

The European mechanical fittings are based on gland, conduit M20 connections.

North American mechanical fittings are based on conduit ½" NPT.

3.2 MONOSCAN CONNECTIONS

3.2.1 MonoScan Mechanical Fittings

- Connector connection Pg7
- Conduit connection 1/2" NPT
- Conduit connection M20 x 2.5

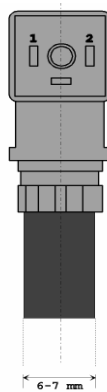


Figure 1: MonoScan Connector Front View



NOTE:

The cable for the mating connector must be at least 6 mm in diameter.

3.2.2 Conduit Box

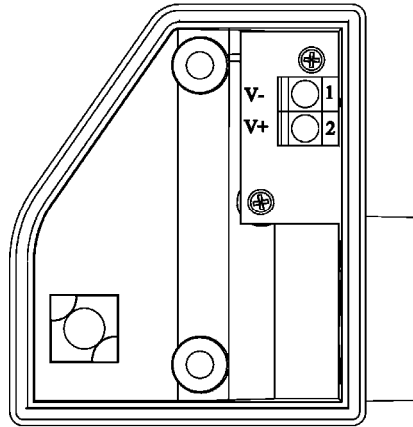


Figure 2: MonoScan Conduit Adapter



NOTE:

The conduit adapter should not exceed a torque of 50 lb/In.
To maintain the MonoScan properly sealed, make sure that conduit is firmly screwed to the conduit's adaptor.

3.2.3 MonoScan IP 67/NEMA 6

The MonoScan EX with conduit connection is suitable for IP 67/NEMA6.

3.3 MICROSCAN

3.3.1 MicroScan Mechanical Fittings

- Gland connection (to fit 1/2" NPT)
- Conduit connection 1/2" NPT
- Conduit connection M20 x 2.5

Use a conduit connector that is either 1/2" NPT or M20 x 2.5 compatible (depending on your MicroScan model) to ensure the unit will remain sealed.



NOTE:

The conduit adapter should not exceed a torque of 50 lb/In.
To maintain the MicroScan properly sealed, make sure that conduit is firmly screwed to the conduit's adaptor.

3.4 SMARTSCAN & SMARTLITE

3.4.1 SmartScan Mechanical Fittings

- Gland connection Pg9
- Conduit connection 1/2" NPT
- Conduit connection M 20 x 2.5

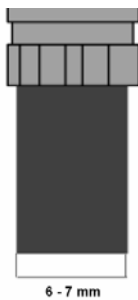


Figure 4: SmartScan Gland Connection



NOTE:

In order to ensure that the unit remains sealed, make sure to use round cables (for gland fitting) with a minimum of 6-7 mm diameter.

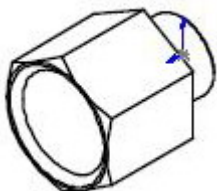


Figure 5: SmartScan Conduit Connection



NOTE:

The conduit adapter should not exceed a torque of 250 lb/In.