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BENCHMARK PRO™ Patent Pending

(SMARTPOINT SERIES™)



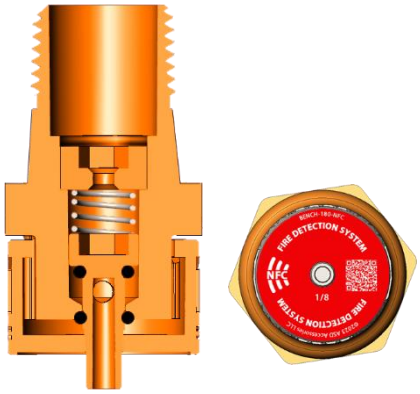
Air Sampling Smoke Detection System (ASD) performance is contingent on the design and integrity of its sampling pipe network, whereby smoke transport time is an indicative metric of performance verification. Benchmark test points at the end of each pipe branch serving an ASD detector are commonly used for achieving this verification.

In practice, ASD technicians record smoke transport times from benchmark test points during commissioning, compare the data to design calculations then record the results for future inspections. When inspecting ASD systems smoke transport time tests are repeated and the results compared with benchmark data to verify pipe integrity and system performance.

Benchmark Pro test point uniquely addresses the requirement for testing by providing a self-contained fail-safe mechanism with integrated NFC smart chip technology for storing and retrieval of benchmark and inspection data (IOS/Android compatible). Unlike alternative methods, the Benchmark Pro is purpose built, doesn't require external components for operation, cannot be left partially open like with ball valve methods, is corrosion resistant, is simple to use, and permanently stores data for retrieval alleviating technicians from sourcing historical or missing documentation.

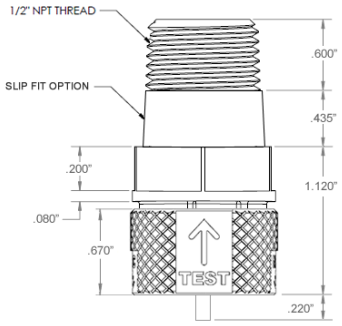
Features

- Purpose-built design. Simple, reliable, leak-free
- Self-contained fail-safe operation
- Two-step operation. Push up and twist to test
- When closed, will not leak (Vacuum: -2 Bar, Pressure: 7 Bar)
- Available in either all CPVC construction matching ASD Pipe Networks or in stainless steel 304 construction
- Chamfered 1/8" integrated orifice for precise and repeatable performance
- Provided with two mounting options, 1/2" NPT threads or direct slip fit attachment to ASD pipe networks without the need for additional components.
- Removeable to permit back-flushing of ASD pipe network when installed using 1/2" NPT connection.
- Integrated NFC Smart chip technology for storage and retrieval of benchmark and subsequent inspection data
- Compatible with ASD InspectPro™ App for commissioning and inspection management (IOS/Android)

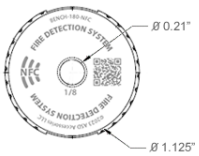


Benchmark Pro
BENCH-NFC-CPVC
(Cross Section)

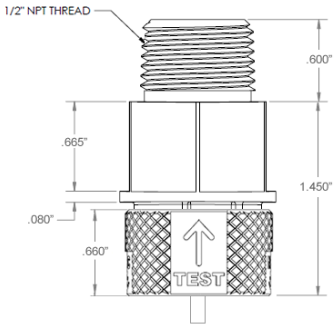
Dimensions



CPVC Version

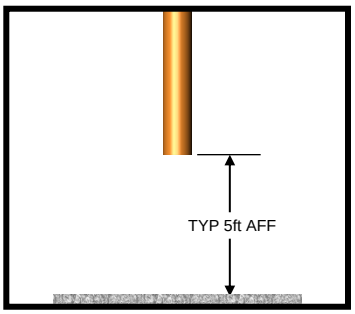


(Bottom)



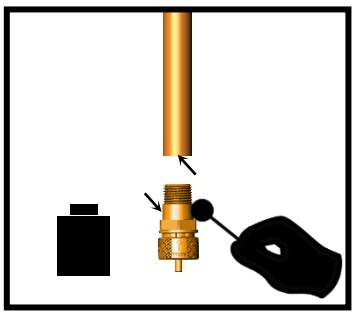
Stainless Steel 304 Version

Instructions - Slip Fit Insertion Option (CPVC version only)



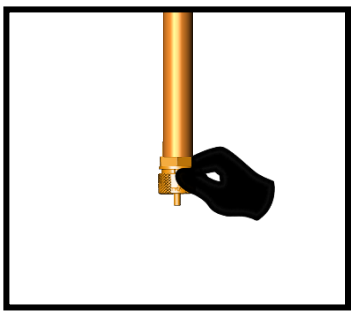
STEP 1

Route end of each ASD Pipe Branch down typically 5ft above finished floor



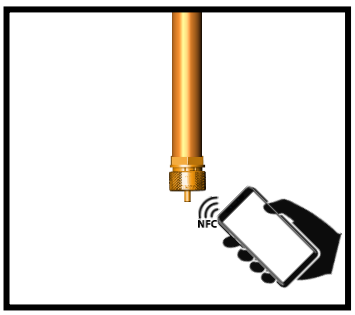
STEP 2

Lightly coat mating surfaces with CPVC one-step cement



STEP 3

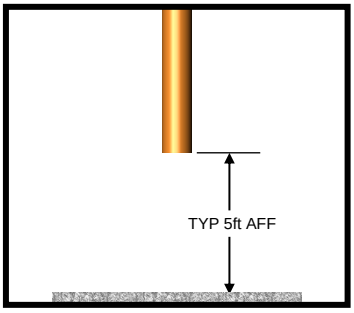
Slip BenchmarkPro into ASD Pipe until it is fully compressed. Twist to secure



STEP 4

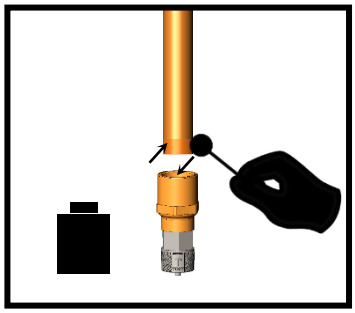
Use ASD InspectPro™ App on your IOS or Android device to scan in and document

Instructions - Threaded Fit Option (requires 34-12-CPVC adapter)



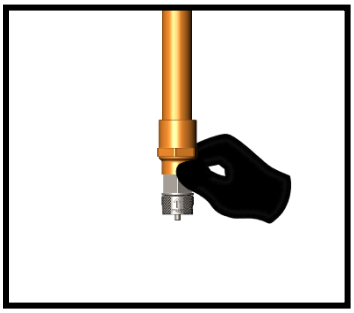
STEP 1

Route end of each ASD Pipe Branch down typically 5ft above finished floor



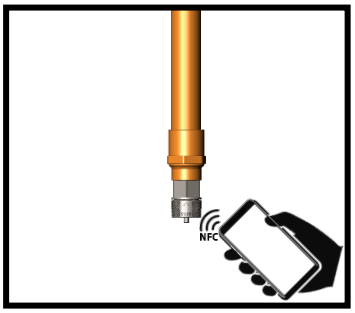
STEP 2

Lightly coat mating surfaces with CPVC one-step cement



STEP 3

Slip adapter fitting over end of ¾” CPVC ASD Pipe until it bottoms out. Twist to secure



STEP 4

Use ASD InspectPro™ App on your IOS or Android device to scan in and document

Specifying

ASD sampling pipe networks shall be fitted with a Benchmark Test Point at the end of each pipe branch. The Benchmark Test Point shall be purpose-built and provide normally closed fail-safe operation without the need of external components for function. It shall be constructed to fit 3/4" pipe by threaded connection or by optional slip fit insertion and be provided with an integral chamfered 1/8” port when opened for testing. The Benchmark Test Point shall be equipped with an integrated NFC chip that electronically stores information related to the test point, such as a unique serial number, associated detector and location, commissioning benchmark and subsequent inspection test data. Data shall be permanently stored and shall be protected from unauthorized deletion. The Benchmark Test Point shall be fitted with a label constructed of PET material. The label shall be antistatic, waterproof, chemical resistant and shall not self-peel. The label shall be pre-printed with an NFC identifier to inform that the test point is NFC enabled, part number, and a QR code containing a serial number unique to the test point. Retrieval and management of test point NFC and QR code data shall be compatible with IOS and Android devices using a compatible App intended for ASD commissioning, test and inspection.

Ordering Info

- **ASD-BENCH-NFC-CPVC** (CPVC Test Point)
- **ASD-BENCH-NFC-SUS** (Stainless Steel Test Point)
- **ASD-34-12-CPVC** (3/4“ SLIP x 1/2” FNPT CPVC Adapter)



ASD-BENCH-NFC-CPVC



ASD-BENCH-NFC-SUS



ASD-34-12-CPVC

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