

Application Note #102

Pressure Drop Across ADP1000 Adapter

Competitor's sales representative test:

The ADP1000 adapter allows CROSSTECH® PROFESSIONAL TORCH TIPS to be used on any industry standard quick disconnect handle. One of our sales representatives experienced a situation where, in front of one of our wholesale distributors, a competitor's sales representative belittled the ADP1000 adapter because the hole in our adapter was smaller than that in his adapter. The competitor's sales representative did a subjective test by blowing into the two different adapters and claimed that ours had too much restriction and wasn't any good.

Tests performed to prove our ADP1000 adapter is a good product:

Our ADP1000 adapter uses the exact same swivel that is used in our standard pressure regulators. We have never had a problem with this product so we did a scientific measurement to see exactly how much pressure drop is across the ADP1000 adapter using our largest TT3000 torch tip with a tip pressure of 45 PSI. We used two identical pressure gauges which had scale graduations of 0.5 PSI. These gauges measured both the input and output pressures of the adapter under test. The total pressure drop across the ADP1000 adapter was less than 0.5 PSI. Both gauges were within 0.5 PSI of each other.

Evaluation of the test data:

At room temperature, the MAPP® vapor pressure in the tank is at 95 PSI so the 0.5 PSI pressure drop in the adapter is negligible. **Our testing and explanation shows that our ADP1000 adapter does work correctly with our torch tips. Rest assured that there is no problem in using our ADP1000 adapter with any of our tips and quick disconnect handles which are very common in the industry**



Pressure drop is less than 0.5 PSI when using a TT3000 Super Industrial Torch Tip

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