



Supporting the transition to Low GWP Propellant pMDI's

H&T Presspart is a market leader in the development, manufacture and supply of inhaled drug delivery components and devices. With more than 50 years' experience, H&T Presspart is the partner of choice for the inhalation industry.

H&T Presspart is now leading the industry transition to the new low global warming potential (GWP) propellants. We can support customers development programmes of next generation low GWP metered-dose inhalers with both HFA 152a and HFO1234ze propellants.

We can offer GMP standard filling for MDI batches and conduct in-vitro tests to support customers with product development, analytical services and product transfers to these novel propellants.

Services	H&T Presspart
HFA 152a propellant pMDI filling	✓
HFO 1234ze propellant pMDI filling	✓
Solution & Suspensions formulations	✓
GMP Standard batch filling	✓
Customer API & valve choice	✓
Stability testing (ICH Zone 2 conditions)	✓
Full analytical testing (DDU, ASPD, spray pattern, plume geometry etc.)	✓
Component selection support	✓

25L mixing vessel for development to pilot scale batches

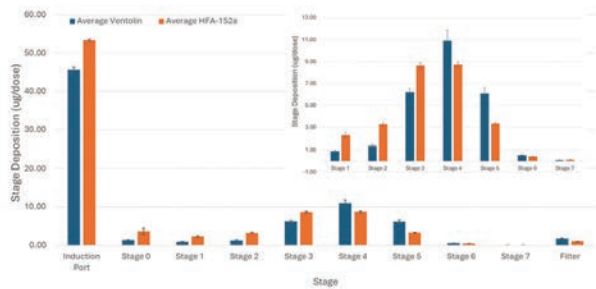


Single fill and dual fill capability

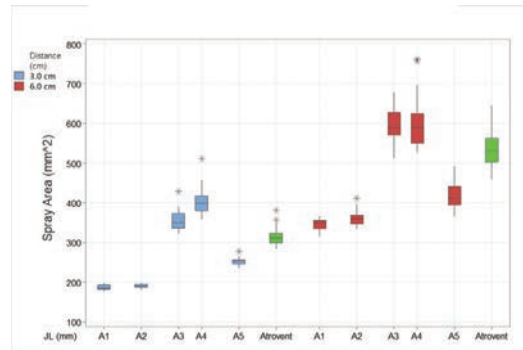


H&T Presspart Low GWP Propellant Analytical Data

Comparative APSD Ventolin HFA134a vs Salbutamol HFA 152a



Spray Pattern: Different actuator geometries – Ipratropium HFA-152a vs Atrovent



Let's work together

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