

## PRODUCT PROFILE: DF30 WITH COCe: ULTRA-CLEAN, ROBUST &amp; VERSATILE



Aptar Pharma's new DF30 metering valve version incorporates a cyclic-olefin-copolymer (COC) neck gasket to enhance its performance further. It is the result of continuous improvement to today's world-leading DF30 technology platform.

Aptar Pharma's DF30 metering valve technology platform (Figure 1) has been the industry gold standard for more than 20 years and we are constantly striving to optimise our DF30 product offering.



Figure 1: DF30 metering valve (Image Courtesy Aptar Pharma).

COC is a well-known and characterised material used for injectable drug containers. COCe is a specific version of COC that has unique elastomeric properties while being ultraclean and inert.

The new version of DF30 – that incorporates a neck gasket which is manufactured with COCe – offers several key benefits:

- Step change improvement as a barrier to leakage
- Ultra low extractible level
- Compatibility across a wider range of drug formulations, including ethanol-containing formulations
- Suitable for all pMDI filling technologies
- Robust design for accurate and consistent performance.

Each year, Aptar Pharma manufactures and supplies several hundred million metering valves which are used by the world's leaders in the pharma industry.

For more information on DF30 Technology Platform, please visit: [www.aptar.com/pharma](http://www.aptar.com/pharma).

#### ABOUT APSTAR PHARMA

Aptar Pharma – part of the Aptargroup family of companies along with Aptar Beauty + Home and Aptar Food + Beverage – creates innovative drug delivery systems that meet the evolving needs of biotechnology, healthcare and pharmaceutical companies around the world.

The company provides its customers with a wide range of delivery technologies and analytical services backed by decades of proven expertise.

Aptar Pharma's primary technologies associated to Asthma and COPD inhalation applications are metering valves for pressurised metered-dose inhalers (MDIs), and dry-powder inhalers (DPIs).

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For Allergic Rhinitis, CNS and other applications, Aptar Pharma offers a broad range of multidose spray pumps and single- and bi-dose disposable spraying and dispensing devices. The company also offers a full set of associated services to support customer speed-to-market and provide global support to branded and generic customers around the world.

Aptargroup (NYSE: ATR) is headquartered in the US and has manufacturing sites in North America, Europe, Asia and South America.

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