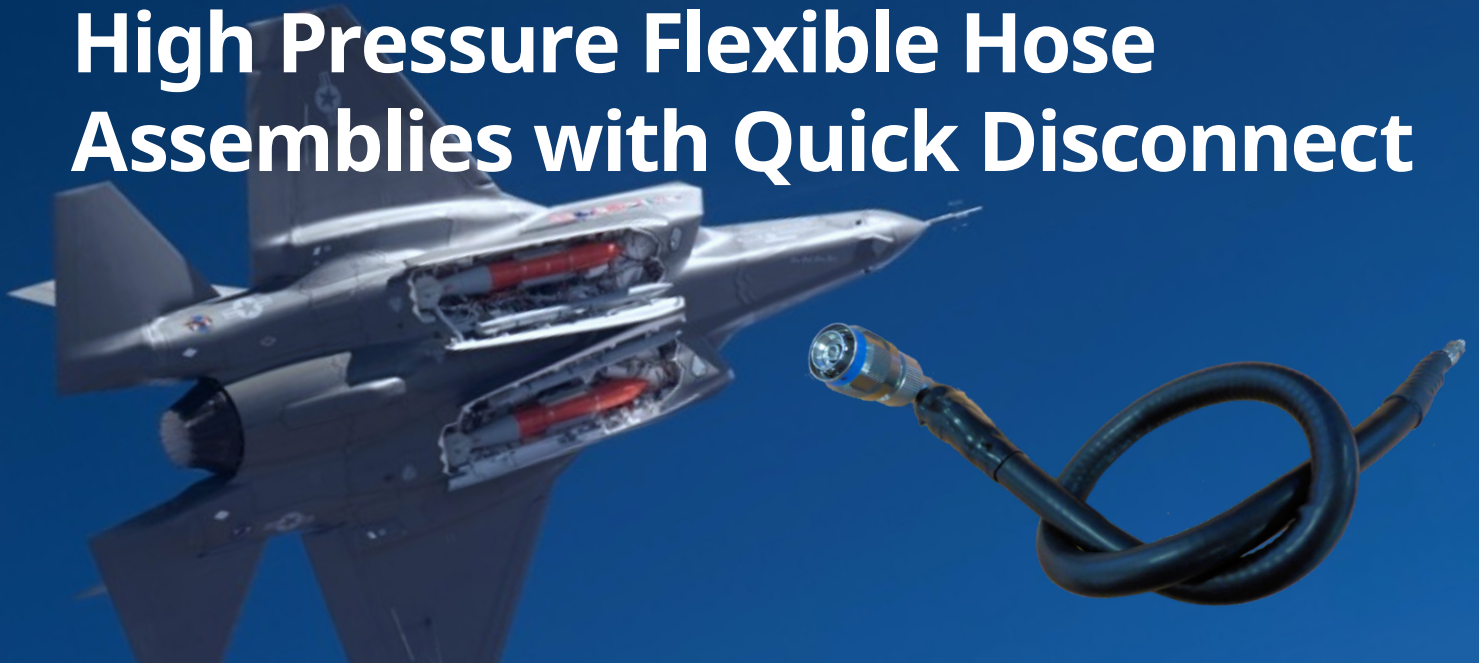




High Pressure Flexible Hose Assemblies with Quick Disconnect



Overview

Ultra has developed a range of high pressure flexible hose assemblies with quick disconnect, specifically designed for the transfer of high-pressure dry gasses across dynamic structures in demanding aerospace and defence applications. They are ideally suited for transferring air to moving structures such as internal weapon bay door mounted weapon stations on 5th generation air platforms.

Hoses can be supplied with end fittings such as; Ultra's proprietary quick disconnect mounted in a D38999 series connector, Swagelok®, 'fingertight' and JIC. Where appropriate the hoses can be cleaned and compatibility tested for pure air to DEF STAN 58-96.

Existing aircraft

Ultra's high pressure flexible hose with quick disconnect is installed on:

- Lockheed Martin F-35
- Saab Gripen E/F

Key features

- Media; Argon, Nitrogen or Pure Air
- Working pressure to 414 bar (6,000 psi)
- Nominal flow rate 30 NL/min at inlet pressure 20 BARG and outlet pressure 0 BARG
- Burst pressure >1379 bar (>20,000psi) minimum
- Operating temperature of -50°C to +70°C

Benefits

- Remains flexible even when pressurised to >350bar
- Safe operation, hose vents at 1/3 of a turn of the D38999 series connector
- Minimum bend radius of 40mm (internal diameter)
- Qualified to MIL-STD-810 environmental requirements



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