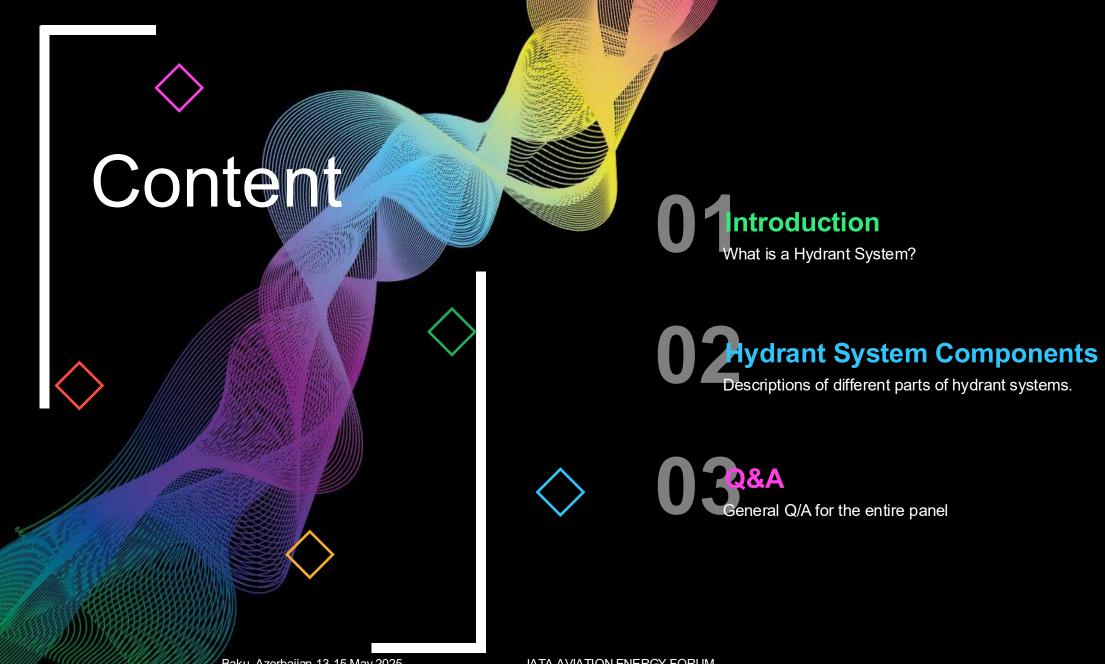
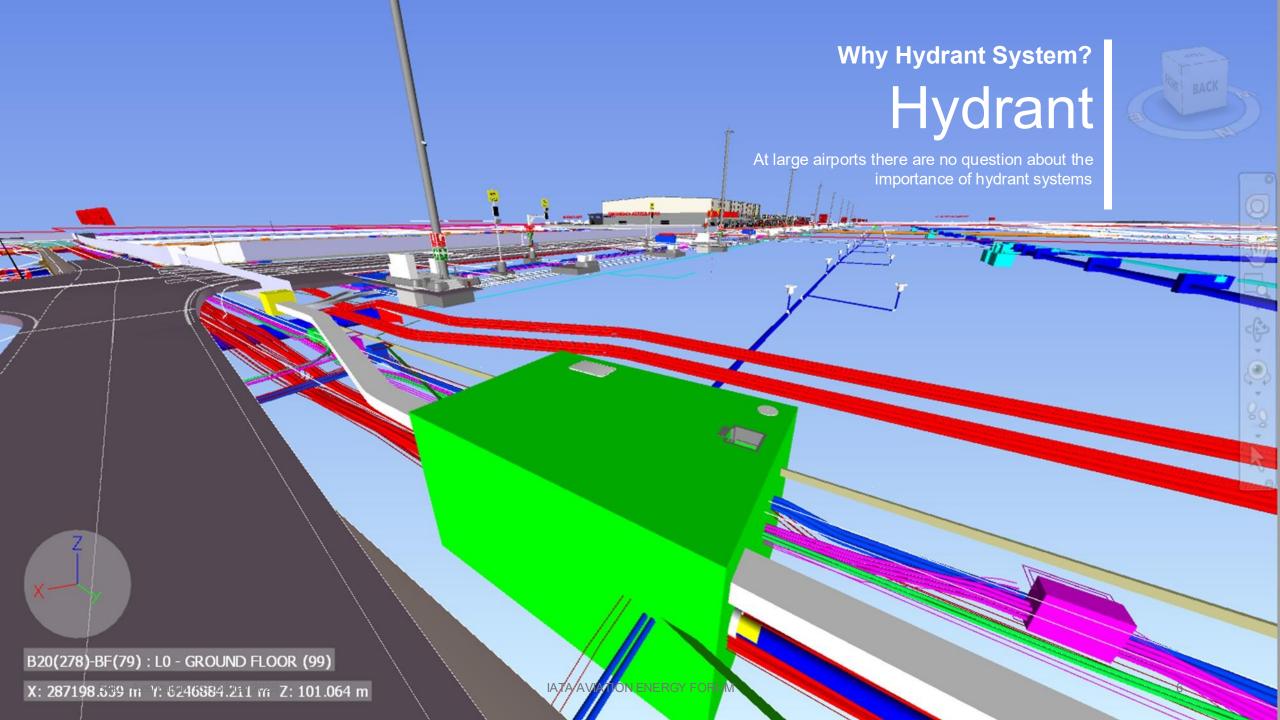


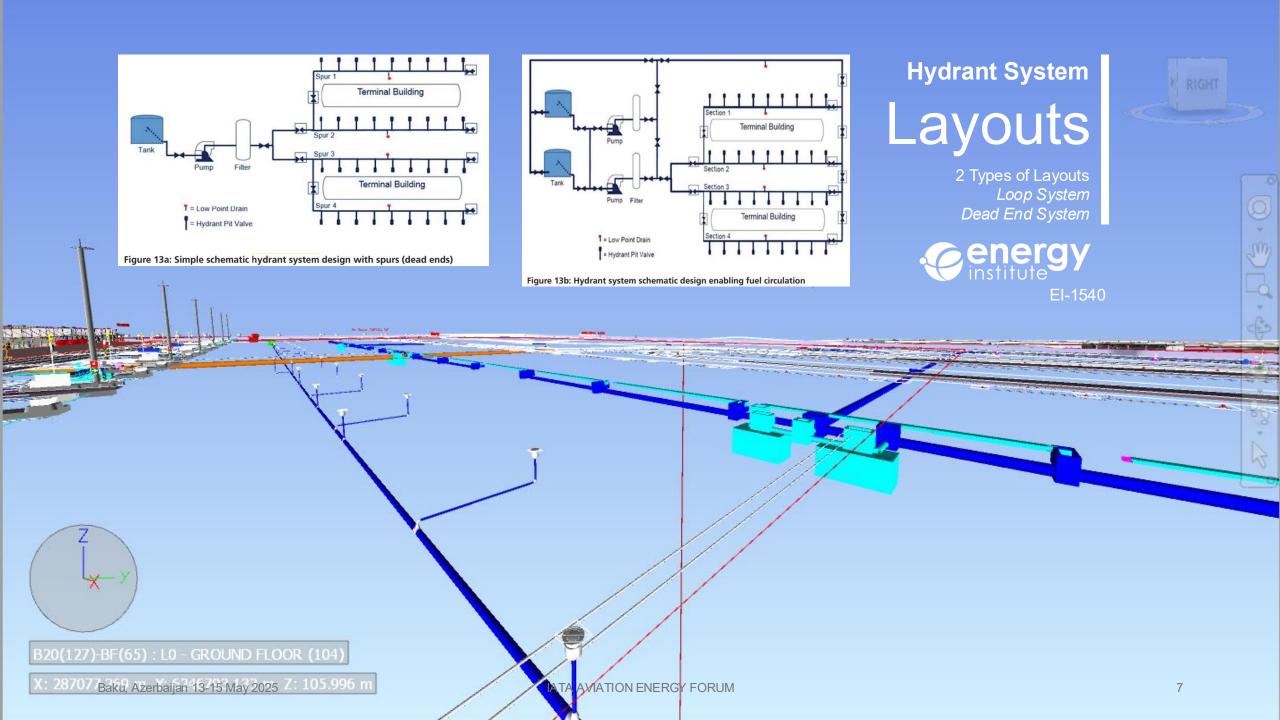
Baku, Azerbaijan 13-15 May 2025

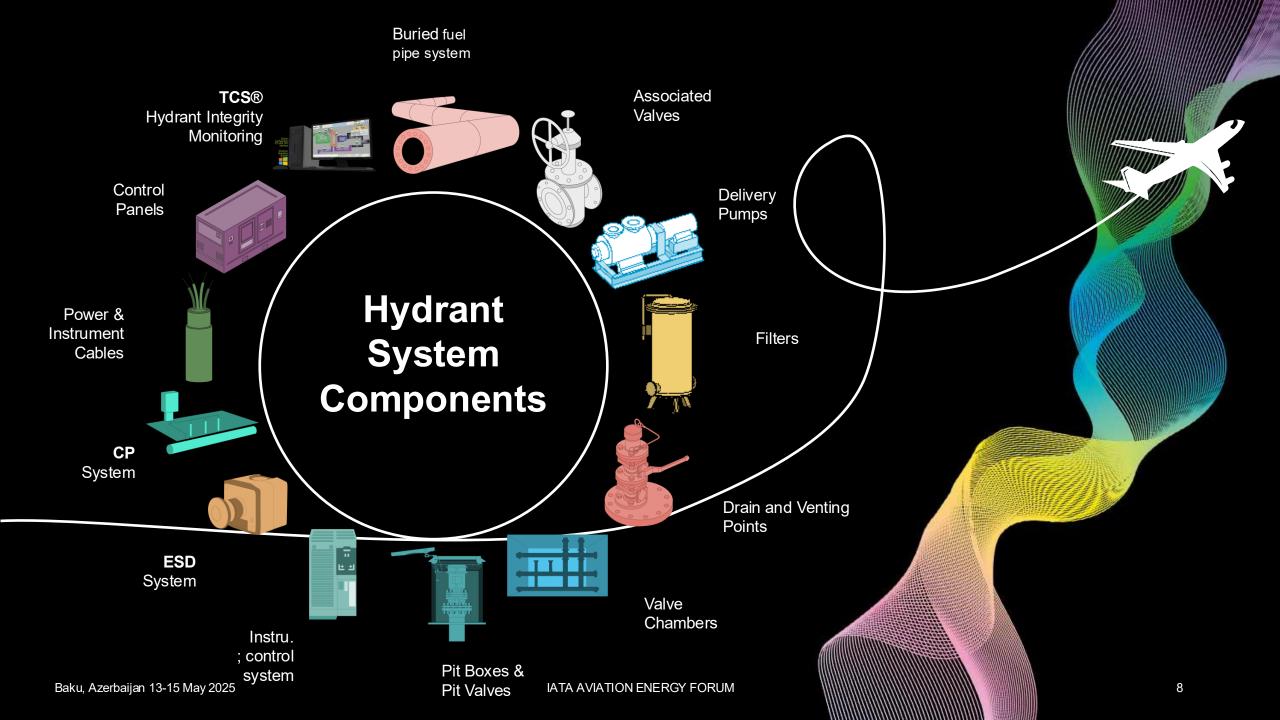
IATA AVIATION ENERGY FORUM

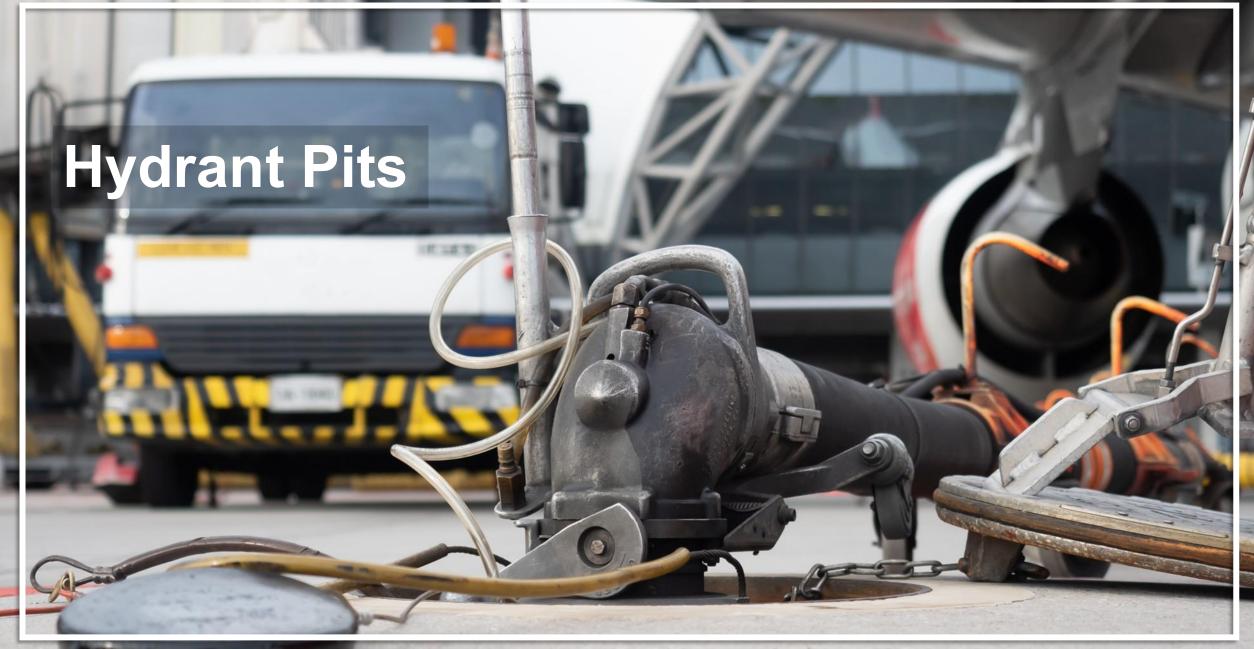


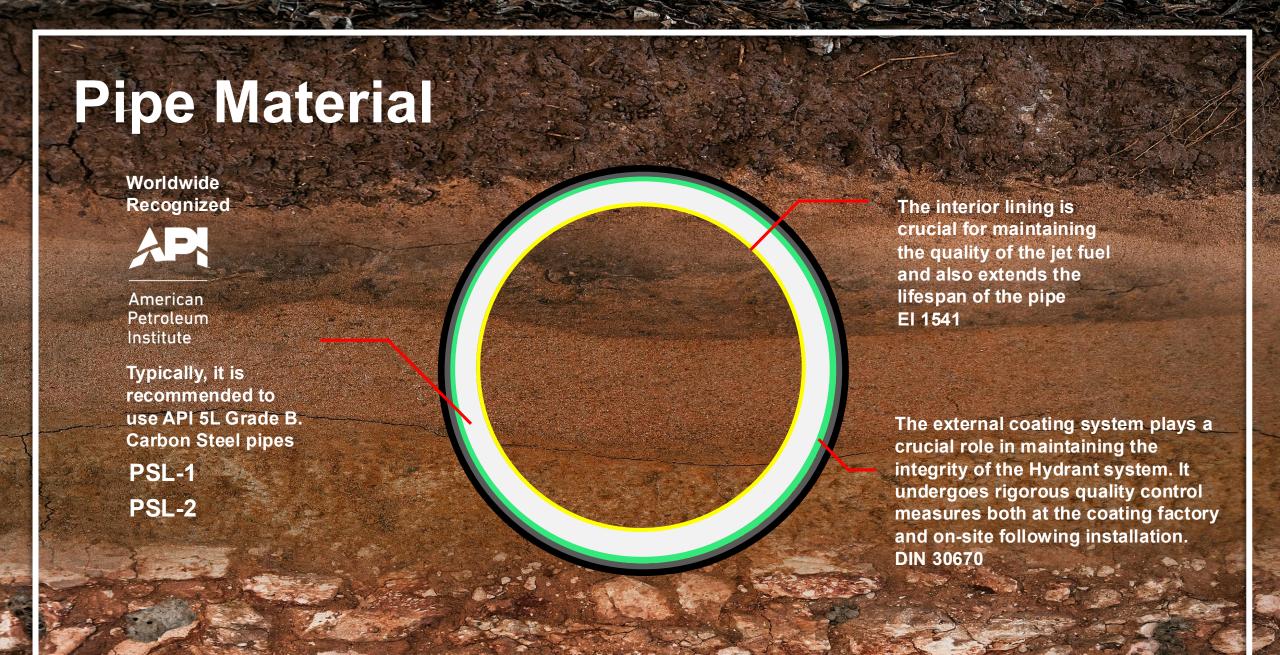












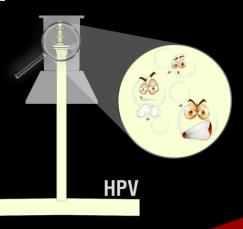


Pipe Slopes

High Point Vent

is a crucial component for the proper and safe operation of the Hydrant system

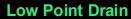
Air in hydraulic systems poses a significant risk as it can lead to higher pressure surges and increased wear on system components.



LPD

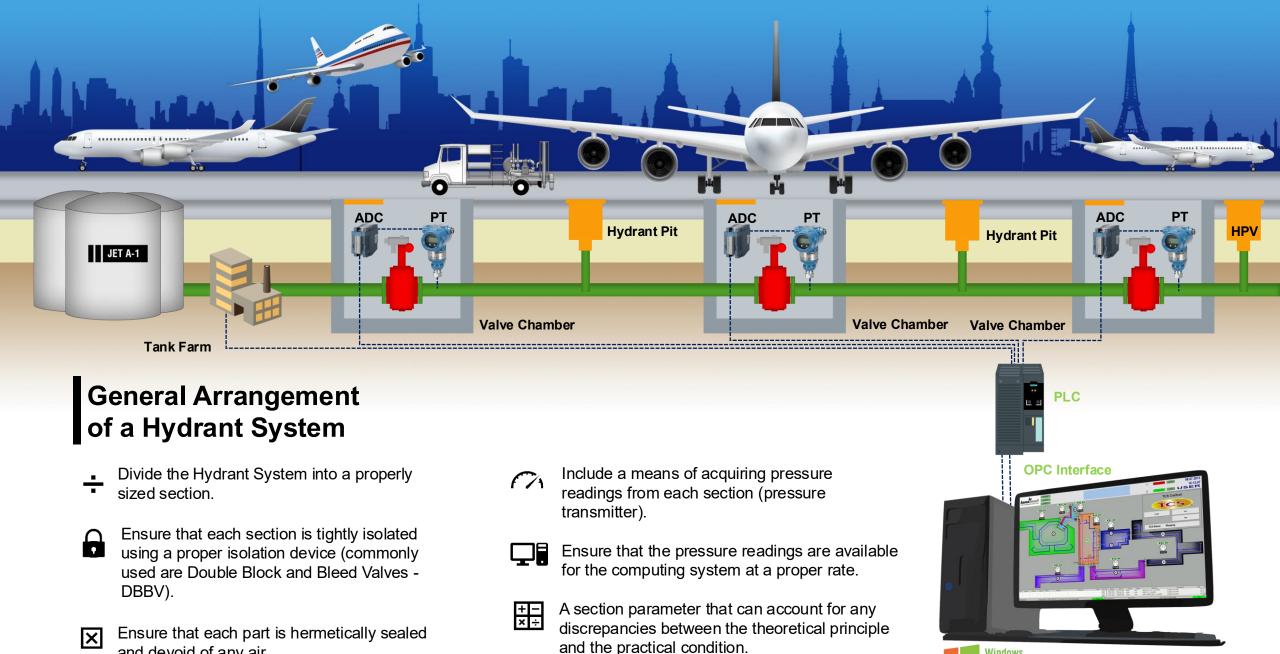
JIGSAW TEETH DESIGN





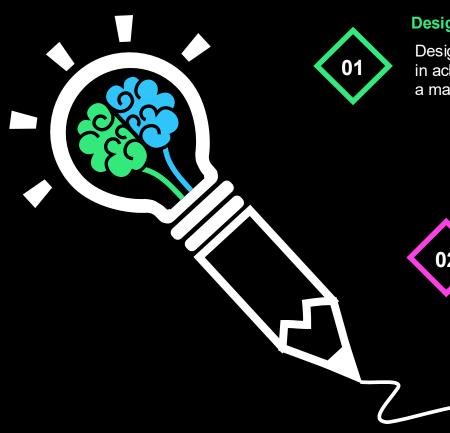
is an essential component for the Jet Fuel quality.

The **Hydrant System** is designed as a JIGSAW design with highpoint vents and low-point drains.



and devoid of any air.



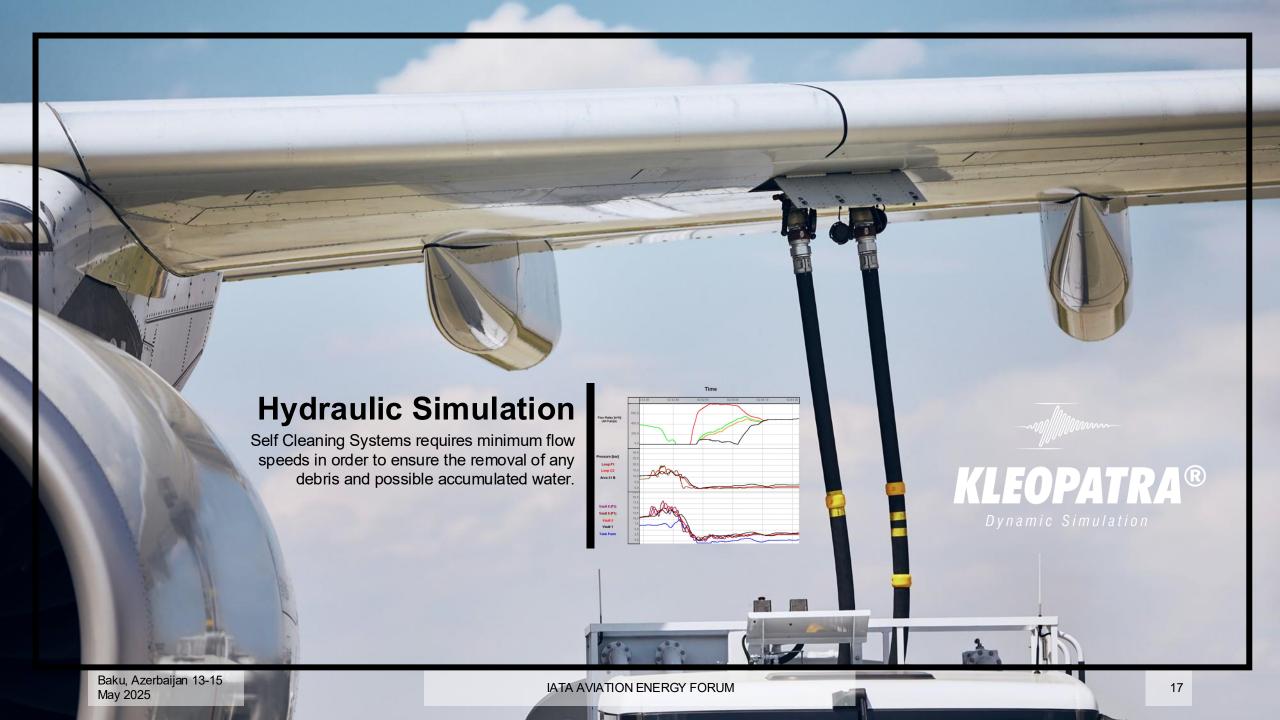


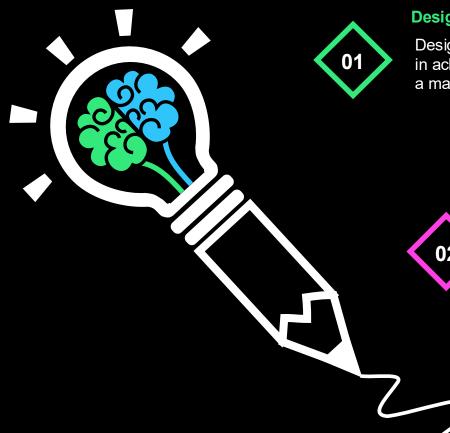
Design Consideration

Design considerations are vital in achieving a tight system with a maximum life expectancy.

Hydraulic Analysis

Hydraulic Analysis is essential from integrity perspective to ensure that the system pressure is correctly calculated taking into consideration the surge pressures that may occur and thus able to specify the correct pipe schedule and wall thickness accordingly.





Design Consideration

Design considerations are vital in achieving a tight system with a maximum life expectancy.

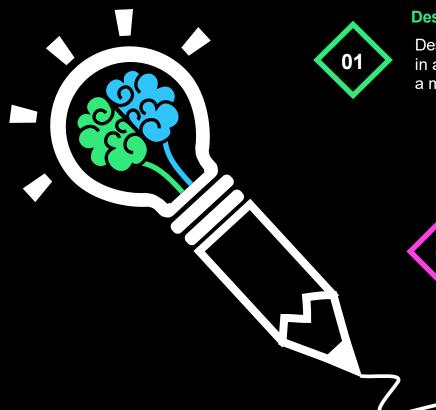


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Pipe Slopes, LPD & HPV

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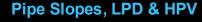
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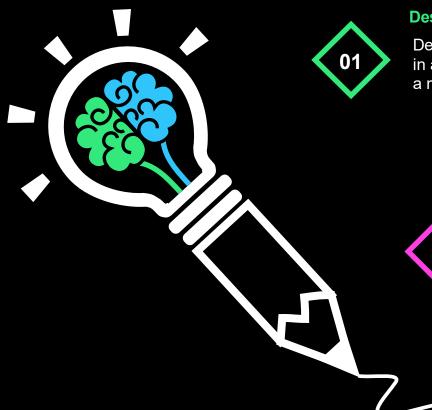


Air in hydraulic systems poses a significant risk as it can lead to higher pressure surges and increased wear on system components.



Hydrant Pipe Material

The pipes shall be coated on the outside and lined on the inside. The interior lining is crucial for maintaining the quality of the jet fuel and also extends the lifespan of the pipe.



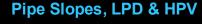
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Hydrant Pipe Installation

Adhering to the correct installation standards is crucial to prevent any harm to the external coating system when installing and backfilling the pipes.





Cathodic Protection

Corrosion protection is required for steel line pipes and other steel structures used in hydrant systems and fuel depots



Automated Hydrant Integrity Testing Systems

All Hydrant Systems shall incorporate a means of testing and proving the integrity of the system.





Aviation Energy Forum

Presented by Wafik Zakhary Managing Director







