Note: 000126

Overview

Number	**000126**
Description	**ISO 6578:2025 - Compliance Enhancements**
Version	**01 from 04.02.2026**
Status	**Released to Customer**
Language	**EN**
Responsible	**Markus Seng**
Product	**BCS**
Category	**Advanced Development**

Symptom

ISO 6578 “Refrigerated hydrocarbon liquids — Static measurement — Calculation procedure” has been released by ISO as a new version in October 2025, with the designation ISO 6578:2025.

This third edition cancels and replaces the second edition (ISO 6578:2017), which has been technically revised.

1. As stated in the new version, the main changes are:
    - the alignment with ISO 6976:2016 physical property data
    - moving of calculation examples from the main body into a new Annex.

2. In addition, calculation data is now designated as “informative” and not as “normative” any longer (Various annexes).
   This apparently reflects the current global business practise (i.e. signing medium and long term LNG delivery contracts which contain various different sets of calculation data for the revised Klosek-McKinley equation).
   Since QuantityWare BCG fully supports the definition of customer specific data sets for ISO 6578 LNG or LPG density calculations, QuantityWare BCG implementations for LNG are compliant with ISO 6578:2025.

3. For LPG, the alternative density calculation models (Francis equation and COSTALD routine) are both not referenced (as informative) any longer.

The simplified density calculation formula is provided with molar volume data (at 15 °C, only) as informative data. This density calculation formula may be combined – for LPG with less than 20 % unsaturated hydrocarbons – with the ISO 91:2017 LPG volume correction factor standards (i.e. GPA 8217 / API MPMS Chapter 11.2.4).

4. For LPG with more than 20 % unsaturated hydrocarbons, no guidance is apparently available (as both the Francis equation and COSTALD routine are no longer referenced).

Cause

ISO Measurement Standard Update

Solution

With this note:

1. A detailed online documentation update for ISO 6578 configuration options (PMC and GMC) is delivered.
2. MQCI function /QTYW/MQCI_BCP_BCG_LPG_ALL is shipped with a new additional calculation option. The new option contained in that MQCI function combines the density calculation at base (15 °C) from composition with the CTPL calculations of ISO 91:2017 - for LPG/NGL with less than 20 % unsaturated hydrocarbons.

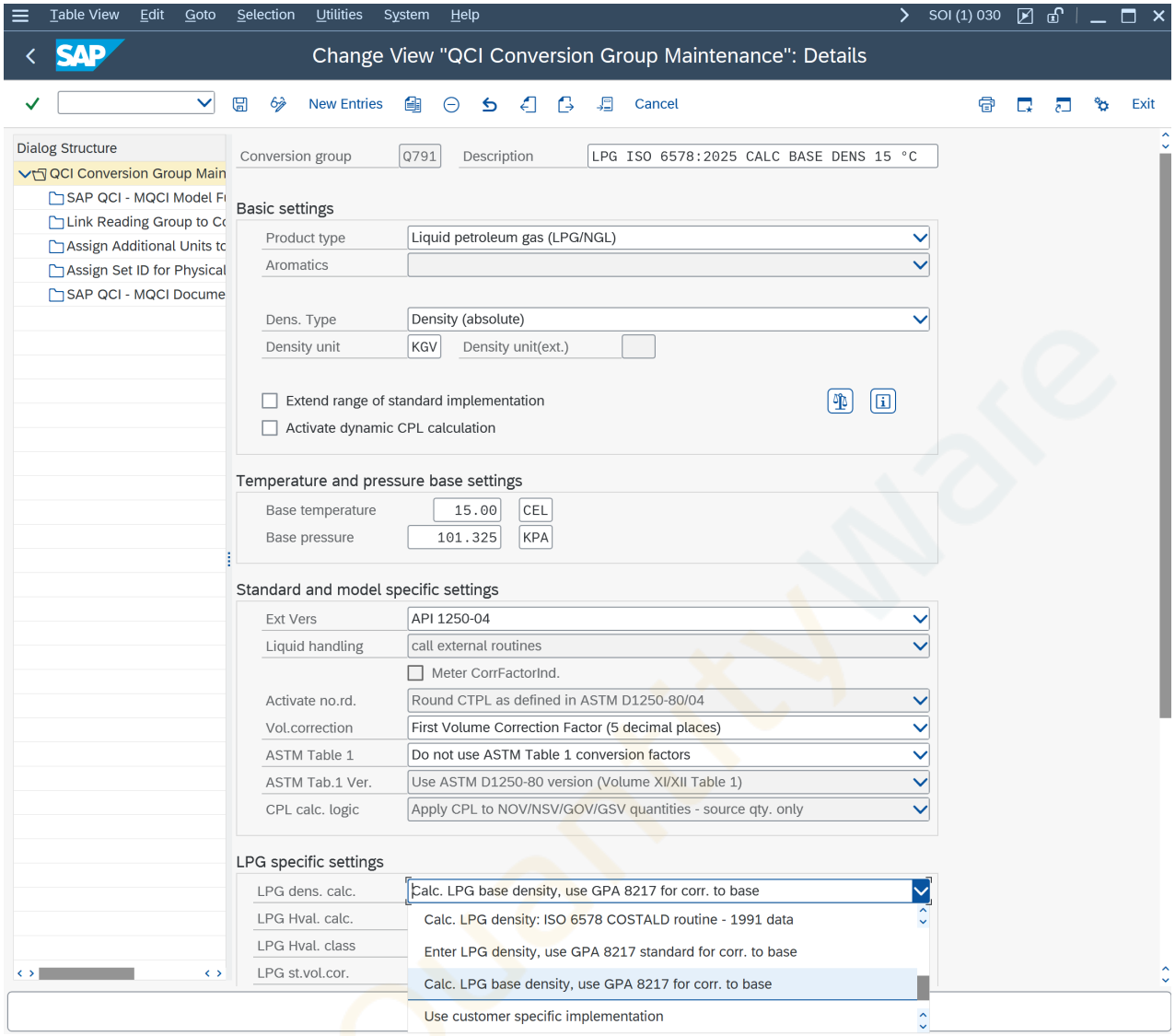
For LPG with more than 20 % unsaturated hydrocarbons apparently no guidance is given in ISO 6578:2025; in this case, QuantityWare recommends to continue usage of the conversion groups based on either Francis equation or COSTALD routine implementations, if no other guidance is available.

Transport Reference

SAP Release	Transport	File Name	Notes
ECC600	QOIK900404	NOTE-00126-30x.SAR	
S/4 HANA	QOIK900404	NOTE-00126-30x.SAR	

With this note, no additional configuration data is delivered. A new example template conversion group Q791 and associated configuration, including a new physical property data set QZ, will be delivered with the next BCS 3.0 CSP.

If required, that new template conversion group can be configured in advance by certified BCP or BCG consultants, with the help of QuantityWare support experts.



You may contact QuantityWare support for help via the support portal, where you raise a "consultant inquiry" ticket.

Validity

SAP Release	From SP	To SP	In SP Shipment
ECC600	BCS 3.0 CSP04	BCS 3.0 CSP04	BCS 3.0 CSP05
S/4 HANA	BCS 3.0 CSP03	BCS 3.0 CSP03	BCS 3.0 CSP04