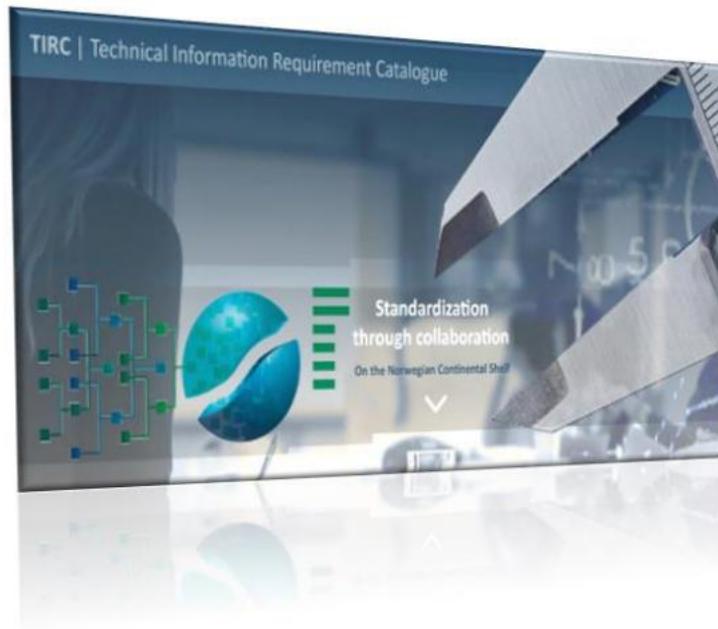


How to read TIRC Z-018 and Z-001

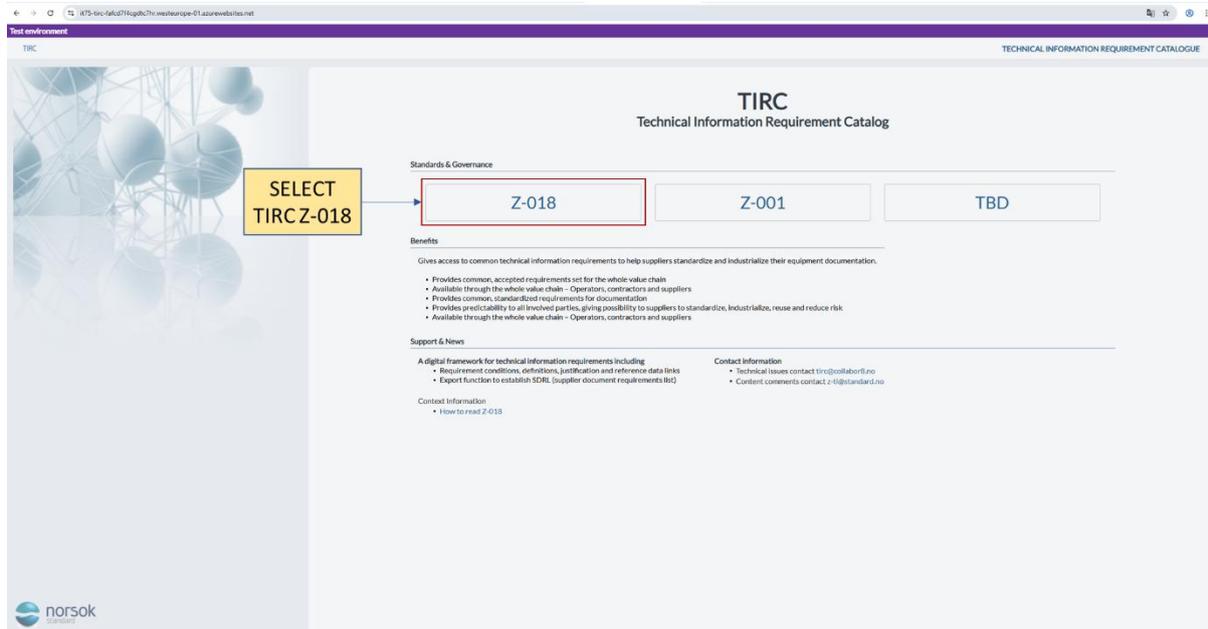
Technical Information Requirement Catalogue



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A. TIRC FRONT PAGE



Select Z-018 for Z-018 requirements, or Z-001 for Z-001 requirements.

B. HOW TO USE TIRC Z-018

The purpose of this document is to explain how to use TIRC Z-018, as well as to clearly define the scope of the TIRC Z-018 delivery.

1. STRUCTURE

1.1 Requirements (Product-Documentation Cross References)

REQUIREMENT CATEGORIES

Mandatory (M)

Always required to be available by Supplier to Purchaser

Conditional (C)

Requirements that shall be available by Supplier to Purchaser when condition is fulfilled

Typical (T)

Documentation that is always same for the given product, not depending on where the product is installed, by whom, or for which client (documentation that one will expect to find in common repository such as EqHub)

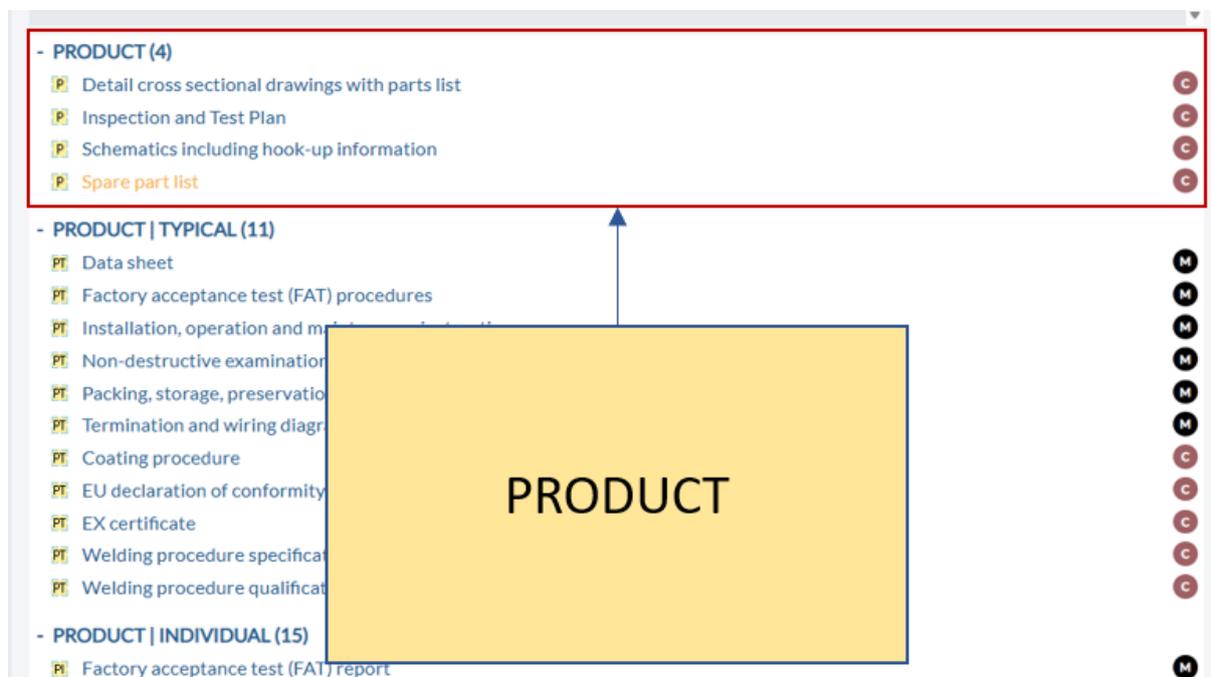
Individual (I)

Documentation that is individual for the installed product (often related to serial number)

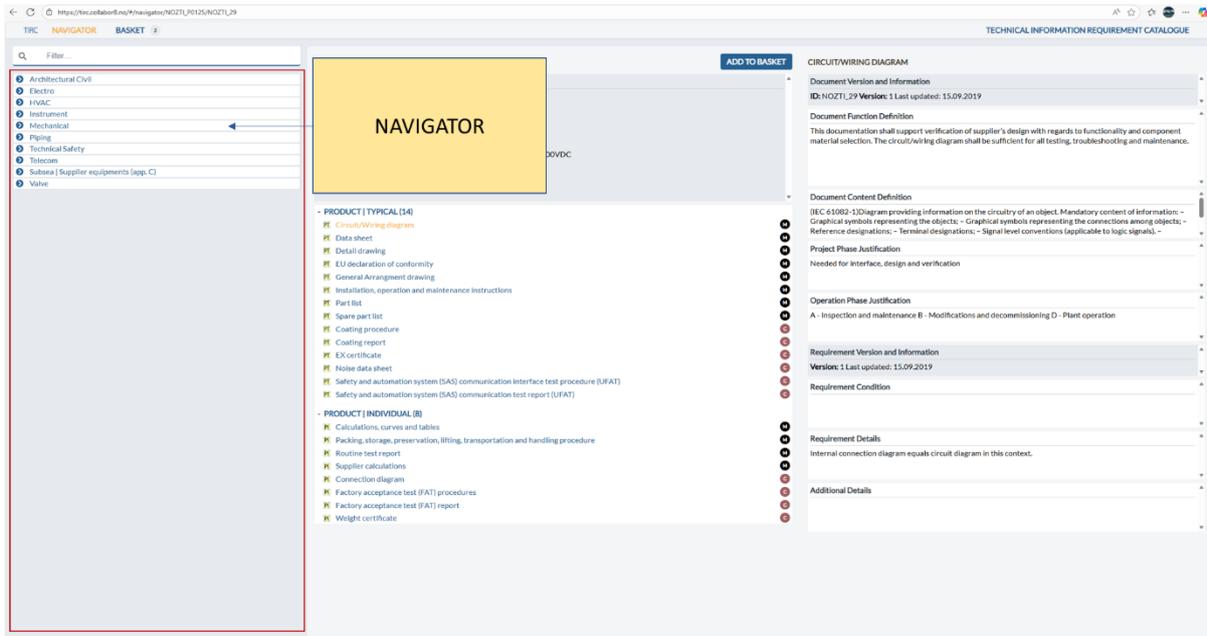
Note that some documents can be both typical or individual for various applications and the categorization in “T” and “I” is only indicative. TIRC uses only the category “Product” when this applies.

Product (P)

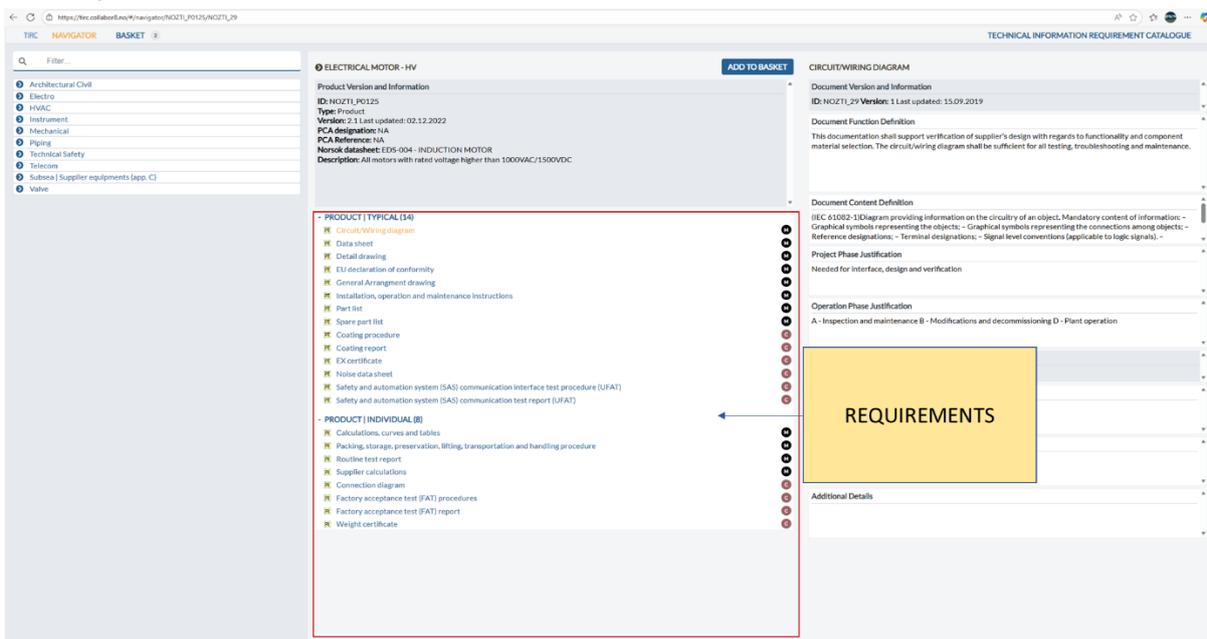
The fields “Requirement Condition” and “Requirement Details” describes the instances when the requirement is typical and when it is individual. The requirement condition is set to be “always required to be delivered (as Mandatory)”.



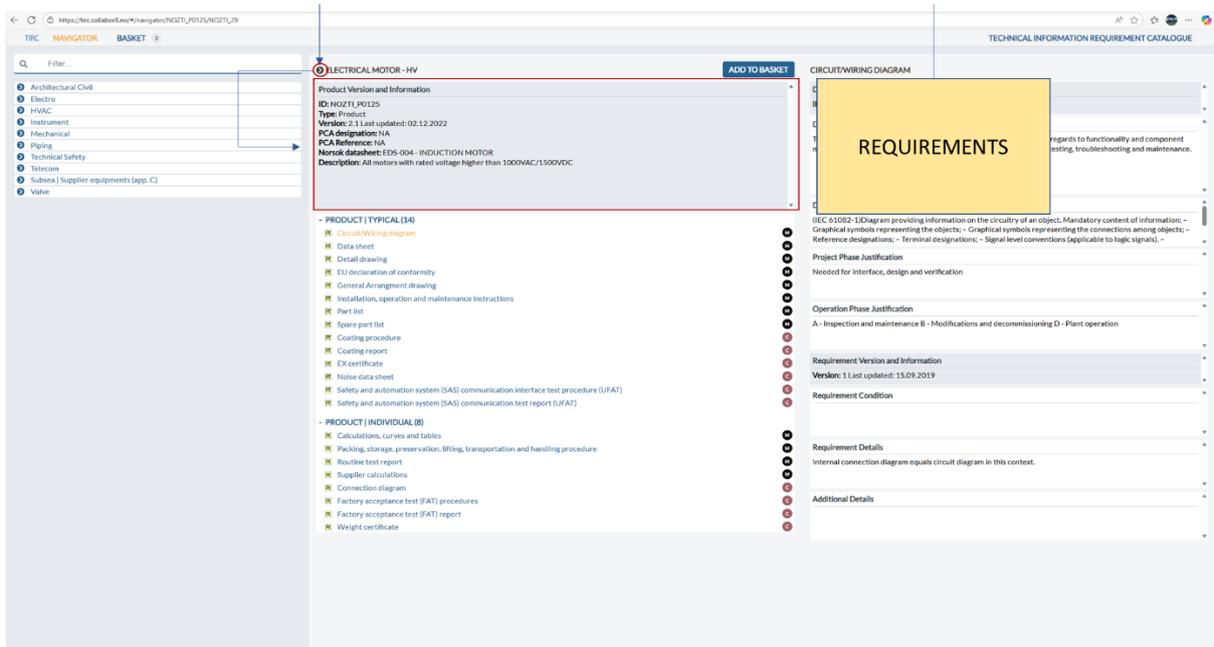
1.2 Navigator



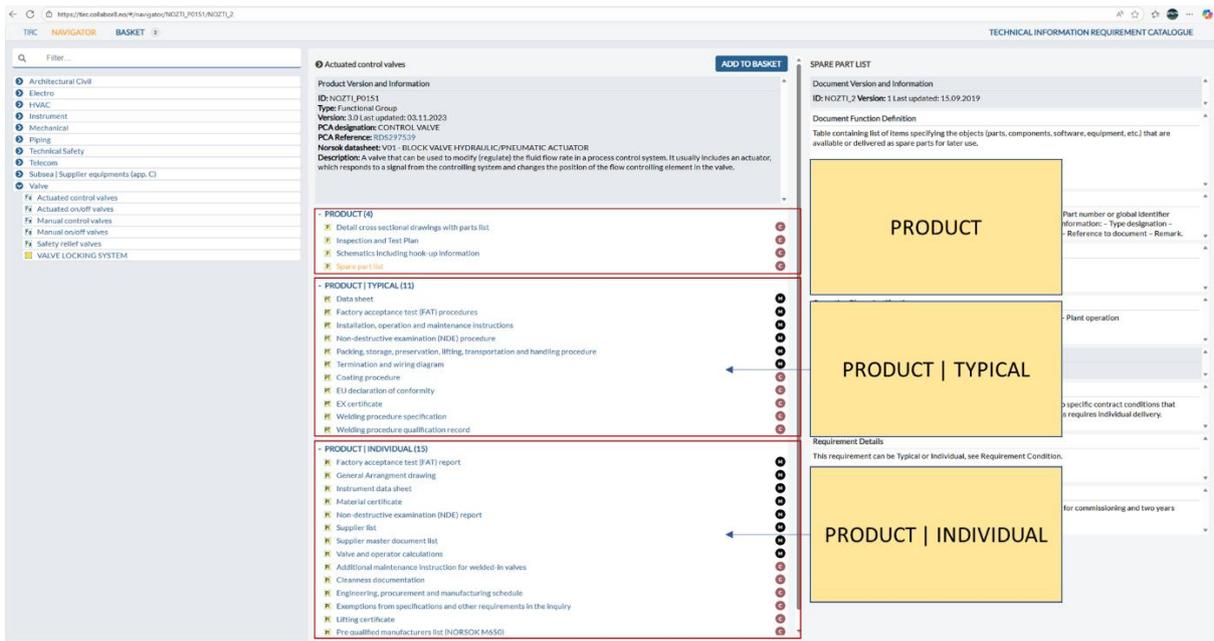
1.3 Requirements



1.4 Product details



1.5 Documentation categories



1.6 Documentation details

The screenshot displays the 'TECHNICAL INFORMATION REQUIREMENT CATALOGUE' interface. On the left, a navigation pane lists categories like Architectural Civil, Electro, HVAC, Instrument, Mechanical, Piping, Technical Safety, Telecom, and Valve. The main content area is titled 'Actuated control valves' and includes sections for 'Product Version and Information', 'PRODUCT (4)', 'PRODUCT [TYPICAL] (11)', and 'PRODUCT [INDIVIDUAL] (15)'. A yellow box labeled 'DOCUMENTATION DETAILS' is overlaid on the central part of the page. On the right, a 'SPARE PART LIST' is visible, along with sections for 'Document Function Definition', 'Document Content Definition', 'Project Phase Justification', 'Operation Phase Justification', 'Requirement Version and Information', 'Requirement Condition', 'Requirement Details', and 'Additional Details'.

1.7 Requirement details

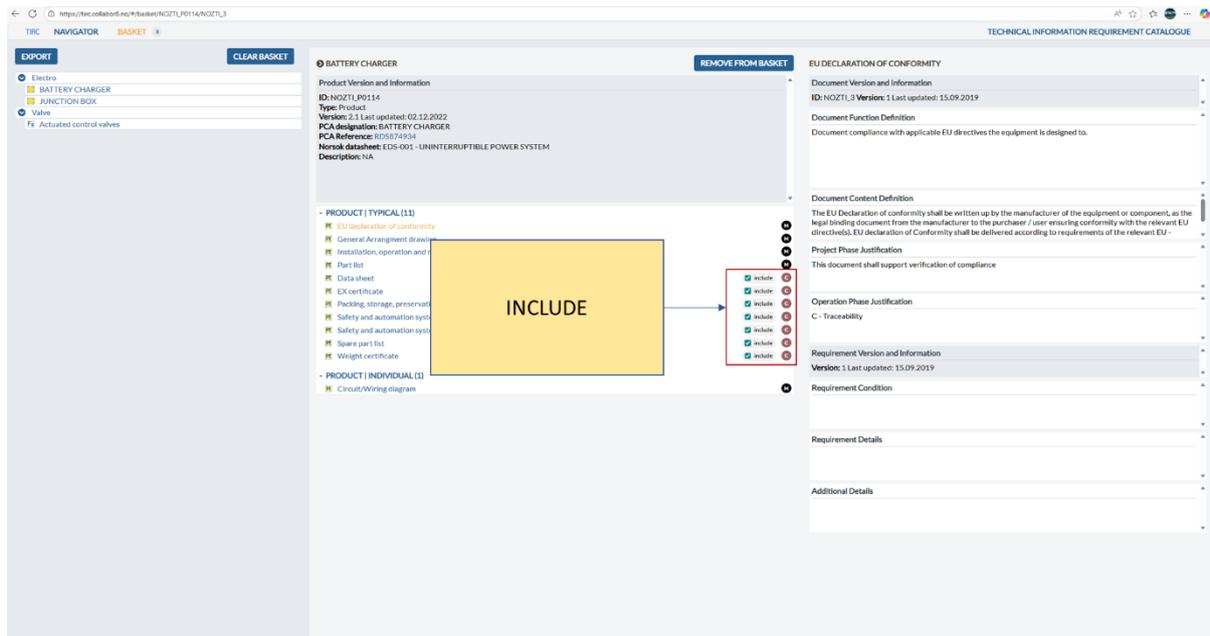
This screenshot is similar to the one above, showing the 'Actuated control valves' page. However, a red box highlights the 'Requirement details' section in the right-hand pane. This section contains the text: 'This requirement can be Typical or Individual, see Requirement Condition.' The 'Additional Details' section below it states: 'The list shall include equipment manufacturer's supplier recommendation for commissioning and two years operational spares. [ELECTRICAL] - Can be part of Detail Drawing.'

1.8 Basket

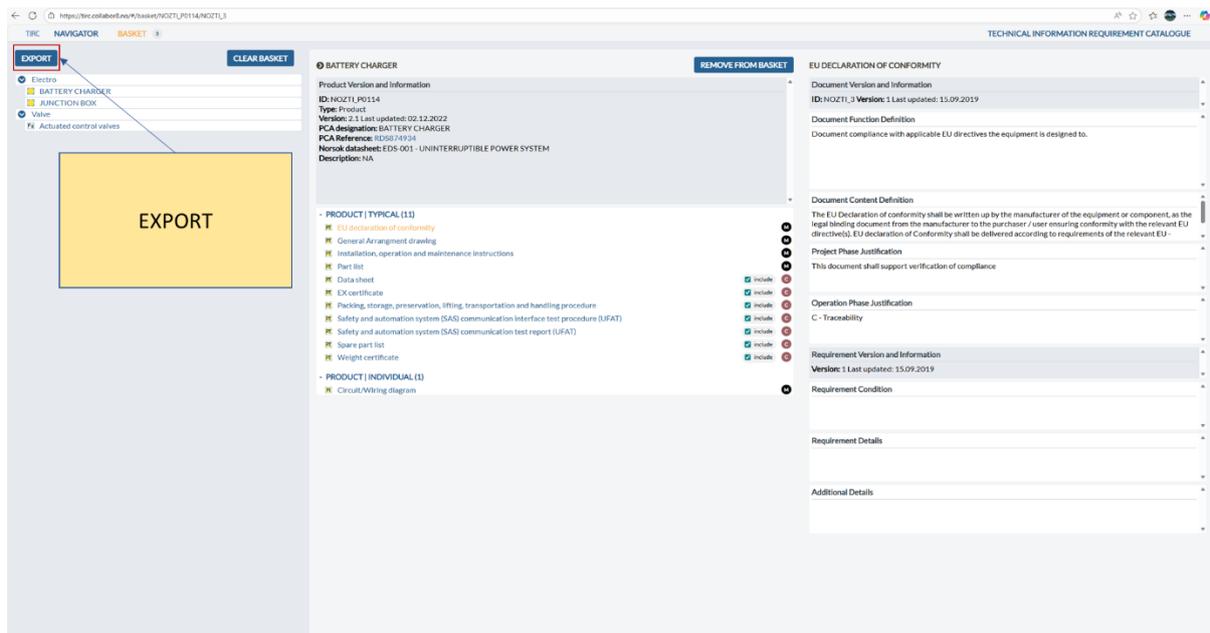
The screenshot shows the 'VIEW BASKET' section on the left, which lists various product categories like Architectural Civil, Electro, HVAC, Instrument, Mechanical, Piping, Technical Safety, Telecom, and Valves. A yellow box labeled 'VIEW BASKET' highlights this area. On the right, the 'ADD TO BASKET' button is visible, and a yellow box labeled 'ADD PRODUCT TO BASKET' points to it. Below the button, there is a detailed view of a product, including its description, technical specifications, and a list of documents to be added to the basket.

The screenshot shows the 'DOCUMENTS IN BASKET' section on the left, which lists items like BATTERY CHARGER, JUNCTION BOX, and Valve. A yellow box labeled 'DOCUMENTS IN BASKET' highlights this area. On the right, the 'EXPORT' button is visible, and a yellow box labeled 'EXPORT' points to it. Below the button, there is a detailed view of the 'TIRC Z-018 Technical Information Requirement Catalog' with a description of the digital framework and contact information.

1.9 Include for export



1.10 Export



2. INFORMATION SCOPING PRINCIPLES

The purpose of this clause is to clearly define the scope of the TIRC Z-018 delivery, ensuring a common understanding among all stakeholders, and promoting a consistent approach to requirements scoping across the work groups.

2.1 TIRC Z-018 SCOPE

The goal of TIRC Z-018 is to deliver industry-agreed minimum necessary documentation requirements for a selected set of products. Its purpose is to replace company specific requirements.

Information requirements for single equipment were a part of the deliverables from the EPIM STI project, and this is now made available as NORSOK Z-018 requirements in tirc.collabor8.no.

ORIGINAL CHALLENGE: “The equipment suppliers stated in the survey meetings that they meet different requirements from project to project, even if the customer is the same. As a company, it expressed "We deliver" the same "product every time, but never equal documentation! ”.

SOLUTION: A common and accepted set of requirements for the entire value chain, providing predictability for all involved parties, as well as giving Suppliers the possibility to standardize, industrialize, reuse documentation and reduce risk.

2.2 Available for information (AFI)

Requirements related to assurance and verification of quality in the manufacturing phase will depend significantly on the Purchaser’s level of knowledge of the Supplier. A well-known Supplier with a proven track record and deliveries in accordance with recognized industry standards, will typically be required to submit less verification documentation to the Purchaser, than a new or unknown Supplier delivering the same product.

Therefore, deliverables such as quality plans, welding procedures, coating procedures, and non-destructive examination procedures should be assessed as potential candidates for being made available to the Purchaser in digital format, for information only, when such documentation has already been provided as part of PO pre-qualification or a Frame Agreement. This is indicated with “Yes” in the “Available for Information” (AFI) field.

2.3 Requirements Granularity

Z-018/TIRC delivers documentation/information requirements list. Suppliers' standard way of bundling documentation should be used as far as possible meaning that documentation/information can be "bundled" in documents or separated as needed.

2.4 PO Declaration of compliance

The document known through NORSOK standards as "Certificate of compliance" is in Z-018/TIRC renamed to "PO Declaration of compliance". This was done as this is "egenerklæring"=declaration. To avoid a mix-up between the "Declaration of Compliance" and the "EU Declaration of Conformity", "PO" was added to the deliverable name.

2.5 Requirements communicated to Suppliers

Requirements should be communicated through the Supplier Documentation Requirements List (SDRL), that has been evaluated for the specific purchase.

3. GOVERNING PROCEDURE FOR UPDATING Z-018

The Z-018 governance team will follow up improvement proposals and coordinate with relevant NORSOK expert groups.

Improvement proposals can be submitted to z-ti@standard.no. The proposals will be maintained in a management spreadsheet, where 'proposed consolidation' and classification 'high/low impact' will be included.

4. DEFINITION OF ‘COMMODITY VALVES’

Commodity valves is a term used in the condition for some valves, and the following is the definition of commodity valves using these conditions:

Commodity Valves								
Valves defined as rather replaced than repaired								
Shall have a Valve Data Sheet as design description								
Commodity valves are solely of manual valves category								
Spare Part List not required								
Should be manufactured in accordance with a frame agreement or by approved manufacturers								
Valve Type	NPS	Class	150	300	600	900	1500	2500
Gate, Globe and Check Valves, Carbon Steel & 316 SS	0.5" - 4"		X	X	X	X	X	X
Gate, Globe and Check Valves, Carbon Steel & 316 SS	6" - 12"		X	X	X	NA	NA	NA
Valve Type	NPS	Class	150	300	600	900	1500	2500
Gate, Globe and Check Valves, 22Cr, 25Cr, 6Mo, Titanium	0.5" - 2"		X	X	X	X	X	X
Gate, Globe and Check Valves, 22Cr, 25Cr, 6Mo, Titanium	3" - 6"		X	X	NA	NA	NA	NA
Valve Type	NPS	Class	150	300	600	900	1500	2500
Floating Ball Valves, Soft seat, Carbon Steel & 316 SS	0.5" - 10"		X	X	NA	NA	NA	NA
Valve Type	NPS	Class	150	300	600	900	1500	2500
Floating Ball Valves, Soft seat, 22Cr, 25Cr, 6Mo, Titanium	0.5" - 6"		X	X	NA	NA	NA	NA
Valve Type	NPS	Class	150	300	600	900	1500	2500
Modular Valves, Soft seat, Carbon Steel & 316 SS	0.5" - 2"		X	X	X	X	X	X
Valve Type	NPS	Class	150	300	600	900	1500	2500
Modular Valves, Soft seat, 22Cr, 25Cr, 6Mo, Titanium	0.5" - 2"		X	X	X	X	X	X
Valve Type	NPS	Class	150	300	600	900	1500	2500
Butterfly Concentric types, Soft seat, Carbon Steel & 316 SS	2" - and above		X	NA	NA	NA	NA	NA
Valve Type	NPS	Class	150	300	600	900	1500	2500
Butterfly Double Eccentric types, Soft seat, Carbon Steel & 316 SS	3" - 10"		X	X	X	NA	NA	NA
Valve Type	NPS	Class	150	300	600	900	1500	2500
Butterfly Double Eccentric types, Soft seat, 22Cr, 25Cr, 6Mo, Titanium	3" - 6"		X	X	X	NA	NA	NA
Valve Type	NPS	Class	150	300	600	900	1500	2500
Trunnion, Carbon Steel & 316 SS	0,5"-3"		x	x	x	x		

This definition of commodity valves will later be moved to EG L, and then a new reference will be made.

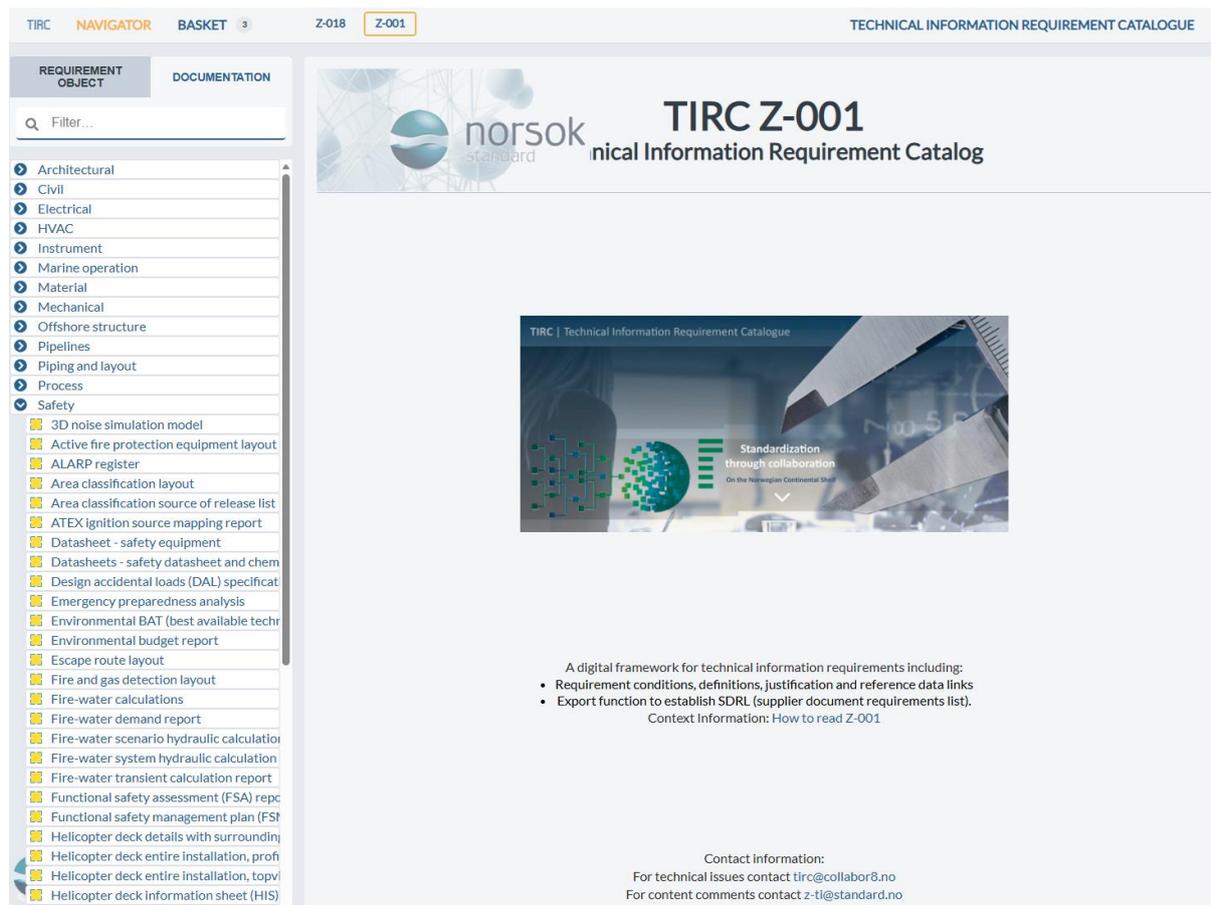
5. Requirements for complex equipment/package

When ‘single-equipment’ requirements from other Z-018 disciplines are added/included, equipment specific documentation shall be aggregated to package level - where relevant, e.g. IOM.

C. HOW TO USE Z-001

TIRC/Z-001 currently reflects NORSOK Z-001 document types for each discipline.

Requirement Objects will be defined/established and added later.



The screenshot displays the TIRC Z-001 interface. At the top, there are navigation elements: 'TIRC', 'NAVIGATOR', 'BASKET 3', 'Z-018', and 'Z-001'. The main header reads 'TECHNICAL INFORMATION REQUIREMENT CATALOGUE'. Below this, the 'REQUIREMENT OBJECT' section is active, showing a search bar and a list of categories and specific requirement objects. The 'DOCUMENTATION' section is also visible.

REQUIREMENT OBJECT

Filter...

- Architectural
- Civil
- Electrical
- HVAC
- Instrument
- Marine operation
- Material
- Mechanical
- Offshore structure
- Pipelines
- Piping and layout
- Process
- Safety
 - 3D noise simulation model
 - Active fire protection equipment layout
 - ALARP register
 - Area classification layout
 - Area classification source of release list
 - ATEX ignition source mapping report
 - Datasheet - safety equipment
 - Datasheets - safety datasheet and chem
 - Design accidental loads (DAL) specificat
 - Emergency preparedness analysis
 - Environmental BAT (best available techn
 - Environmental budget report
 - Escape route layout
 - Fire and gas detection layout
 - Fire-water calculations
 - Fire-water demand report
 - Fire-water scenario hydraulic calculation
 - Fire-water system hydraulic calculation
 - Fire-water transient calculation report
 - Functional safety assessment (FSA) repe
 - Functional safety management plan (FSM
 - Helicopter deck details with surroundin
 - Helicopter deck entire installation, profi
 - Helicopter deck entire installation, topvi
 - Helicopter deck information sheet (HIS)

DOCUMENTATION

TIRC Z-001
Technical Information Requirement Catalogue

TIRC | Technical Information Requirement Catalogue

Standardization through collaboration
Click the Plus sign to Expand Content

A digital framework for technical information requirements including:

- Requirement conditions, definitions, justification and reference data links
- Export function to establish SDRL (supplier document requirements list).

Context Information: How to read Z-001

Contact information:
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For content comments contact z-ti@standard.no