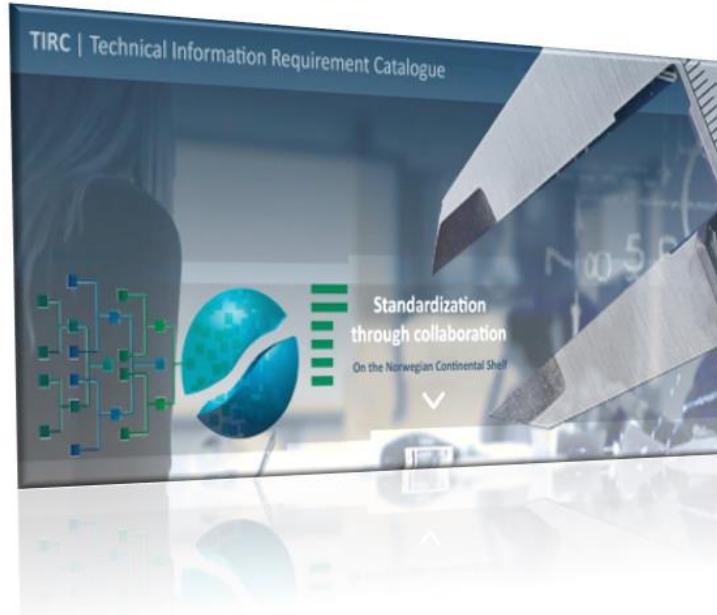


How to read TIRC Z-018
Technical Information Requirement Catalog

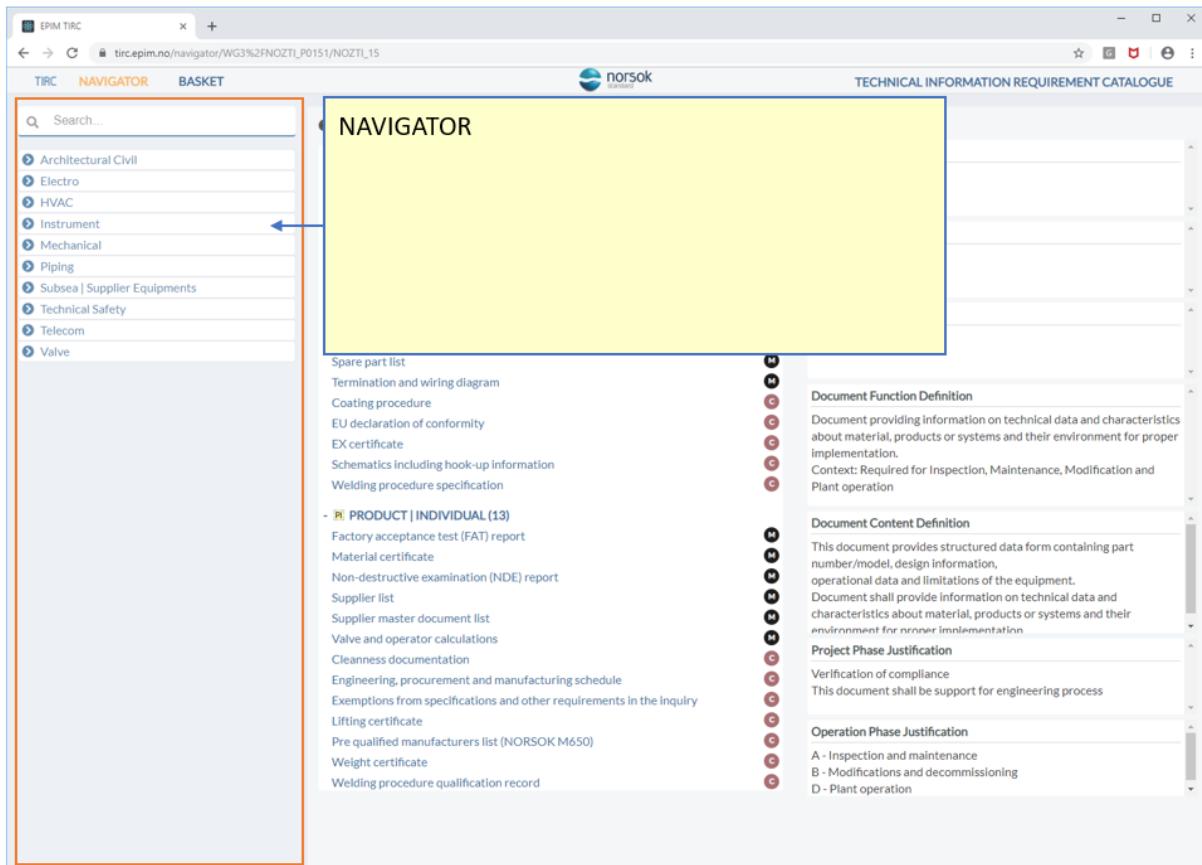


Contents

HOW TO READ Z-018.....	3
Navigator.....	3
REQUIREMENTS.....	4
PRODUCT DETAILS.....	4
DOCUMENTATION CATEGORIES	5
DOCUMENTATION DETAILS.....	6
REQUIREMENT DETAILS	7
BASKET.....	8
INCLUDE.....	9
EXPORT	10
EPIM STI INITIATIVE SCOPE	11
INFORMATION SCOPING PRINCIPLES.....	11
EPIM STI INITIATIVE.....	11
PROBLEM.....	11
SOLUTION	11
EPIM STI Scope	11
PRODUCTS SCOPE.....	11
EPIM STI Information requirements scoping principles.....	11
DOCUMENTATION SCOPE	11
REQUIREMENTS (PRODUCT-DOCUMENTATION CROSS REFERENCES)	12
REQUIREMENT CATEGORIES	12
<i>Mandatory (M)</i>	12
<i>Conditional (C)</i>	12
<i>Typical (T)</i>	12
<i>Individual (I)</i>	12
Available for information (AFI).....	13
REQUIREMENTS GRANULARITY.....	13
PO Declaration of compliance	13

HOW TO READ Z-018

Navigator



EPIM TIRC

NAVIGATOR

SEARCH...

Architectural Civil

Electro

HVAC

Instrument

Mechanical

Piping

Subsea | Supplier Equipments

Technical Safety

Telecom

Valve

NAVIGATOR

Spare part list

Termination and wiring diagram

Coating procedure

EU declaration of conformity

EX certificate

Schematics including hook-up information

Welding procedure specification

PRODUCT | INDIVIDUAL (13)

- Factory acceptance test (FAT) report
- Material certificate
- Non-destructive examination (NDE) report
- Supplier list
- Supplier master document list
- Valve and operator calculations
- Cleanliness documentation
- Engineering, procurement and manufacturing schedule
- Exemptions from specifications and other requirements in the inquiry
- Lifting certificate
- Pre qualified manufacturers list (NORSOK M650)
- Weight certificate
- Welding procedure qualification record

Document Function Definition

Document providing information on technical data and characteristics about material, products or systems and their environment for proper implementation.

Context: Required for Inspection, Maintenance, Modification and Plant operation

Document Content Definition

This document provides structured data form containing part number/model, design information, operational data and limitations of the equipment.

Document shall provide information on technical data and characteristics about material, products or systems and their environment for proper implementation

Project Phase Justification

Verification of compliance

This document shall be support for engineering process

Operation Phase Justification

A - Inspection and maintenance

B - Modifications and decommissioning

D - Plant operation

REQUIREMENTS

The screenshot shows the EPIM TIRC Requirements interface. The left sidebar contains a search bar and a list of categories: Architectural Civil, Electro, HVAC, Instrument, Mechanical, Piping, Subsea | Supplier Equipments, Technical Safety, Telecom, and Valve. The main content area displays a requirement card for 'Actuated control valves'. The card includes a title, a 'PRODUCT | TYPICAL (16)' section with a 'Data sheet' link, and a 'PRODUCT | INDIVIDUAL (13)' section with a 'Data sheet' link. To the right of the card is a 'REQUIREMENTS' section with a yellow background, which contains a 'Document Function Definition' and a 'Document Content Definition' section. Below these are 'Project Phase Justification', 'Operation Phase Justification', and a 'Data sheet' section.

PRODUCT DETAILS

The screenshot shows the EPIM TIRC Product Details interface. The left sidebar contains a search bar and a list of categories: Architectural Civil, Electro, HVAC, Instrument, Mechanical, Piping, Subsea | Supplier Equipments, Technical Safety, Telecom, and Valve. The main content area displays a product detail card for 'Actuated control valves'. The card includes a 'Product Details' section with version information (Z-VERSION: Z-ID: NOZTI_P0151 | Ver.: 2.0 | Last update date: 10-31-2019), a 'Z-TYPE' section (Functional Group: [ISO 15926 | Z-Disc, approval pending]), and a 'Designation: PILOT OPERATED CONTROL VALVE'. Below this is a 'Definition' section: 'A pilot operated valve with a shear seal type slide valve as the main stage and a solenoid valve as the pilot stage.' The RDSID is listed as RDS16743608. To the right of the card is a 'PRODUCT DETAILS' section with a yellow background, which contains a 'Document Function Definition' and a 'Document Content Definition' section. Below these are 'Project Phase Justification', 'Operation Phase Justification', and a 'Data sheet' section.

DOCUMENTATION CATEGORIES

The screenshot shows the EPIM TIRC software interface. The left sidebar lists categories: Architectural Civil, Electro, HVAC, Instrument, Mechanical, Piping, Subsea | Supplier Equipments, Technical Safety, Telecom, and Valve. The main area displays documentation for 'Actuated control valves' under 'PRODUCT | TYPICAL (16)' and 'PRODUCT | INDIVIDUAL (13)'. A blue box highlights the 'PRODUCT | TYPICAL' section, which includes: Data sheet, Detail cross sectional drawings with parts list, Factory acceptance test (FAT) procedures, General Arrangement drawing, Inspection and Test Plan, Installation, operation and maintenance instructions, Instrument data sheet, Non-destructive examination (NDE) procedure, Packing, storage, preservation, lifting, transportation and handling procedure, Spare part list, Termination and wiring diagram, Coating procedure, EU declaration of conformity, EX certificate, Schematics including hook-up information, Welding procedure specification, Factory acceptance test (FAT) report, Material certificate, Non-destructive examination (NDE) report, Supplier list, Supplier master document list, Valve and operator calculations, Cleanliness documentation, Engineering, procurement and manufacturing schedule, Exemptions from specifications and other requirements in the inquiry, Lifting certificate, Pre qualified manufacturers list (NORSOK M650), Weight certificate, and Welding procedure qualification record. A blue arrow points from the 'Product | Typical' section to the 'Product | Individual' section. The right side of the interface shows 'TECHNICAL INFORMATION REQUIREMENT CATALOGUE' with sections for Document Function Definition, Operation Phase Justification, and a large yellow area labeled 'Product | Individual'.

DOCUMENTATION DETAILS

The screenshot shows the EPIM TIRC software interface. The left sidebar lists categories like Architectural Civil, Electro, HVAC, Instrument, Mechanical, Piping, Subsea | Supplier Equipments, Technical Safety, Telecom, and Valve. The main content area shows a list of documentation items for 'Actuated control valves', including Supplier list, Supplier master document list, Valve and operator calculations, Cleanliness documentation, Engineering, procurement and manufacturing schedule, Exemptions from specifications and other requirements in the inquiry, Lifting certificate, Pre qualified manufacturers list (NORSOK M650), Weight certificate, and Welding procedure qualification record. A large yellow box highlights the 'DOCUMENTATION DETAILS' section. To the right, a sidebar titled 'TECHNICAL INFORMATION REQUIREMENT CATALOGUE' contains sections for Data sheet, Requirement Condition, Requirement Details, and Additional Details. A red box highlights the 'Document Function Definition' section, which describes the document as providing information on technical data and characteristics about material, products or systems and their environment for proper implementation. It also specifies the context: Required for Inspection, Maintenance, Modification and Plant operation. Another red box highlights the 'Operation Phase Justification' section, which lists A - Inspection and maintenance, B - Modifications and decommissioning, and D - Plant operation.

Actuated control valves

+ADD TO BASKET

DOCUMENTATION DETAILS

Supplier list

Supplier master document list

Valve and operator calculations

Cleanliness documentation

Engineering, procurement and manufacturing schedule

Exemptions from specifications and other requirements in the inquiry

Lifting certificate

Pre qualified manufacturers list (NORSOK M650)

Weight certificate

Welding procedure qualification record

Data sheet

Requirement Condition

Requirement Details

Additional Details

Document Function Definition

Document providing Information on technical data and characteristics about material, products or systems and their environment for proper implementation.

Context: Required for Inspection, Maintenance, Modification and Plant operation

Document Content Definition

This document provides structured data form containing part number/model, design information, operational data and limitations of the equipment.

Document shall provide information on technical data and characteristics about material, products or systems and their environment for proper implementation

Project Phase Justification

Verification of compliance

This document shall be support for engineering process

Operation Phase Justification

A - Inspection and maintenance

B - Modifications and decommissioning

D - Plant operation

REQUIREMENT DETAILS

The screenshot shows the EPIM TIRC web interface. On the left, a sidebar lists categories: Architectural Civil, Electro, HVAC, Instrument, Mechanical, Piping, Subsea | Supplier Equipments, Technical Safety, Telecom, and Valve. The main content area is titled "REQUIREMENT DETAILS" and contains a list of documents:

- Schematics including hook-up information
- Welding procedure specification
- PRODUCT | INDIVIDUAL (13)
 - Factory acceptance test (FAT) report
 - Material certificate
 - Non-destructive examination (NDE) report
 - Supplier list
 - Supplier master document list
 - Valve and operator calculations
 - Cleanliness documentation
 - Engineering, procurement and manufacturing schedule
 - Exemptions from specifications and other requirements in the inquiry
 - Lifting certificate
 - Pre qualified manufacturers list (NORSOK M650)
 - Weight certificate
 - Welding procedure qualification record

On the right, a sidebar titled "TECHNICAL INFORMATION REQUIREMENT CATALOGUE" contains the following definitions:

- Data sheet**
Requirement Condition
- Requirement Details**
- Additional Details**
- Document Function Definition**
Document providing information on technical data and characteristics about material, products or systems and their environment for proper implementation.
Context: Required for Inspection, Maintenance, Modification and Plant operation
- Document Content Definition**
This document provides structured data form containing part number/model, design information, operational data and limitations of the equipment.
Document shall provide information on technical data and characteristics about material, products or systems and their environment for proper implementation
- Project Phase Justification**
Verification of compliance
This document shall be support for engineering process
- Operation Phase Justification**
A - Inspection and maintenance
B - Modifications and decommissioning
D - Plant operation

BASKET

The screenshot shows a web-based interface for managing a basket of documents. A large yellow box labeled 'BASKET' highlights the left sidebar and the main content area. A smaller blue box labeled 'BASKET' highlights the 'CLEAR BASKET' button in the top navigation bar.

Left Sidebar (BASKET):

- EXPORT**
- CLEAR BASKET**

Content Area:

Selected Item: Valve (Actuated control valves)

Product Categories:

- Actuated control valves** (16 items)
- PRODUCT | TYPICAL** (16 items)
- PRODUCT | INDIVIDUAL** (13 items)

Document Details:

- Actuated control valves**
- Requirement Condition**
- Requirement Details**
- Additional Details**
- Document Function Definition**
Document providing information on technical data and characteristics about material, products or systems and their environment for proper implementation.
Context: Required for Inspection, Maintenance, Modification and Plant operation
- Document Content Definition**
This document provides structured data form containing part number/model, design information, operational data and limitations of the equipment.
Document shall provide information on technical data and characteristics about material, products or systems and their environment for proper implementation
- Project Phase Justification**
Verification of compliance
This document shall be support for engineering process
- Operation Phase Justification**
A - Inspection and maintenance
B - Modifications and decommissioning
D - Plant operation

Checklist: Each document item has a checkbox labeled 'include' and a circular icon with a 'C'.

INCLUDE

INCLUDE

Actuated control valves

- PRODUCT | TYPICAL (16)
 - Data sheet
 - Detail cross sectional drawings with parts list
 - Factory acceptance test (FAT) procedures
 - General Arrangement drawing
 - Inspection and Test Plan
 - Installation, operation and maintenance instructions
 - Instrument data sheet
 - Non-destructive examination (NDE) procedure
 - Packing, storage, preservation, lifting, transportation and handling...
 - Spare part list
 - Termination and wiring diagram
 - Coating procedure
 - EU declaration of conformity
 - EX certificate
 - Schematics including hook-up information
 - Welding procedure specification
- PRODUCT | INDIVIDUAL (18)
 - Factory acceptance test (FAT) report
 - Material certificate
 - Non-destructive examination (NDE) report
 - Supplier list
 - Supplier master document list
 - Valve and operator calculations
 - Cleanliness documentation
 - Engineering, procurement and manufacturing schedule
 - Exemptions from specifications and other requirements in the Inv...
 - Lifting certificate
 - Pre qualified manufacturers list (NORSOK M650)
 - Weight certificate
 - Welding procedure qualification record

Actuated control valves

Valve

Requirement Condition

Requirement Details

Additional Details

Document Function Definition

Document providing information on technical data and characteristics about material, products or systems and their environment for proper implementation.
Context: Required for Inspection, Maintenance, Modification and Plant operation

Document Content Definition

This document provides structured data form containing part number/model, design information, operational data and limitations of the equipment. Document shall provide information on technical data and characteristics about material, products or systems and their environment for proper implementation

Project Phase Justification

Verification of compliance
This document shall be support for engineering process

Operation Phase Justification

A - Inspection and maintenance
B - Modifications and decommissioning
D - Plant operation

EXPORT

The screenshot shows the 'TIRC' interface with a 'BASKET' tab selected. A large yellow box highlights the 'EXPORT' button. A blue arrow points from this button to a smaller yellow box containing the word 'EXPORT'. The main content area shows a list of items for a 'Valve' under the heading 'Actuated control valves'. The list includes: Data sheet, Detail cross sectional drawings with parts list, Factory acceptance test (FAT) procedures, General Arrangement drawing, Inspection and Test Plan, Installation, operation and maintenance instructions, Instrument data sheet, Non-destructive examination (NDE) procedure, Packing, storage, preservation, lifting, transportation and handling..., Spare part list, Termination and wiring diagram, Coating procedure, EU declaration of conformity, EX certificate, Schematics including hook-up information, and Welding procedure specification. To the right of the list are checkboxes for 'include' and circular icons. A 'REMOVE FROM BASKET' button is also present. The right side of the interface displays detailed information for 'Actuated control valves' under sections like 'Requirement Condition', 'Requirement Details', 'Additional Details', 'Document Function Definition', 'Document Content Definition', 'Project Phase Justification', and 'Operation Phase Justification'.

EPIM STI INITIATIVE SCOPE

INFORMATION SCOPING PRINCIPLES

Purpose of this document is to clearly define the scope of EPIM STI delivery, in order to achieve common understanding of delivered scope by all stakeholders, as well as to harmonize approach to requirements scoping across the work groups.

EPIM STI INITIATIVE

The goal of EPIM STI initiative is to deliver industry agreed minimum necessary documentation requirements for selected set of products. Its' purpose is to replace company specific requirements.

PROBLEM

"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

Common, accepted, requirements set for the whole value chain, giving predictability to all involved parties, giving possibility to Suppliers to standardize, industrialize, reuse, reduce risk.

EPIM STI Scope

PRODUCTS SCOPE

Scope of QC STI Q2/2019 are commercial standard products (components and single equipment), not tailor-made complex packages.

EPIM STI Information requirements scoping principles

DOCUMENTATION SCOPE

EPIM STI listed requirements will represent requirements for documentation available from Supplier to Purchaser (Purchaser can be: Package Supplier, Contractor or Owner/Operator). STI requirements address both Project and Operation's needs (stated in justification).

In certain situations, documentation not being included in the EPIM STI listed requirements may be included by Purchaser as additional documentation with expected additional costs.

EPIM STI listed requirements will not represent all the documentation that will be necessary for Supplier to develop in their systems in order to engineer and manufacture the equipment compliant to standards, directives, etc.

Scoping of information requirements for the physical equipment classes shall be representative independently on where (asset function and asset location) the equipment is installed. At this stage, functional perspective will be taken care of through defining conditions (operating conditions).

Example: Work groups are to state any condition that invokes the information requirement for the information type for the physical equipment class, for example:

Ex certificate is required when following condition applies: "the equipment is installed in hazardous zone" Weight certificate is required when equipment is "installed offshore and weights more than 1T" The condition is to be specific, "Upon Request" or "If Required" are not valid conditions

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 of 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.

Available for information (AFI)

Requirements related to assurance and check of quality in manufacturing phase will very much depend on Purchaser's knowledge of Supplier. Well known Supplier, with proven track record, delivering products based on industry standards, will typically deliver less verification documentation to Purchaser, than unknown/new Supplier delivering the same product. Therefore, deliverables such as quality plan, welding, coating, non-destructive examination procedures, should be evaluated as candidates for being available in digital format to Purchaser, for information only, when this documentation was part of PO pre-qualification or Frame agreement. This is indicated with "Yes" in the "Available for information" (AFI) field.

REQUIREMENTS GRANULARITY

STI delivers documentation/information requirements list (SDRL). 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.

PO Declaration of compliance

Document known through NORSOK standards as "Certificate of compliance" is in EPIM STI initiative renamed to "PO Declaration of compliance". This was done as this is "egenerklæring"=declaration. To avoid mix between "Declaration of compliance" and "EU Declaration of conformity", "PO" was added to deliverable name.