

How to read TIRC Z-018

Technical Information Requirement Catalog



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HOW TO READ Z-018

Navigator

The screenshot displays the EPIM TIRC Navigator interface. The browser address bar shows the URL: `tirc.epim.no/navigator/WG3%2FNOZTL_P0151/NOZTL_15`. The interface includes a search bar, a list of categories on the left, and a detailed view of the 'NAVIGATOR' section in the center.

Categories (Left Panel):

- Architectural Civil
- Electro
- HVAC
- Instrument
- Mechanical
- Piping
- Subsea | Supplier Equipments
- Technical Safety
- Telecom
- Valve

NAVIGATOR Section (Center Panel):

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
- Cleaness 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

EPIM TIRC

Search...

Architectural Civil
Electro
HVAC
Instrument
Mechanical
Piping
Subsea | Supplier Equipments
Technical Safety
Telecom
Valve

Actuated control valves

+ ADD TO BASKET

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 procedure
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
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REQUIREMENTS

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D - Plant operation

PRODUCT DETAILS

EPIM TIRC

Search...

Architectural Civil
Electro
HVAC
Instrument
Mechanical
Piping
Subsea | Supplier Equipments
Technical Safety
Telecom
Valve

Actuated control valves

+ ADD TO BASKET

Product Details

[Z-VERSION]
Z-ID: NOZTL_P0151 | Ver.: 2.0 | Last update date: 10-31-2019

[Z-TYPE]
Functional Group

[ISO 15926 | Z-Disc. approval pending]
Designation: PILOT OPERATED CONTROL VALVE
Definition: A pilot operated valve with a shear seal type slide valve as the main stage and a solenoid valve as the pilot stage.
RDSID: RDS16743608

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 procedure
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)

PRODUCT DETAILS

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

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

DOCUMENTATION CATEGORIES

The screenshot displays the EPIM TIRC web application 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 is titled 'Actuated control valves' and features a '+ ADD TO BASKET' button. It lists two product categories: 'PRODUCT | TYPICAL (16)' and 'PRODUCT | INDIVIDUAL (13)'. The 'TYPICAL' category includes documents like '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', and 'Welding procedure specification'. The 'INDIVIDUAL' category includes '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'. On the right, the 'TECHNICAL INFORMATION REQUIREMENT CATALOGUE' is visible, showing 'Document Function Definition' and 'Operation Phase Justification'.

Product | Typical

- 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 procedure
- 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

- 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

TECHNICAL INFORMATION REQUIREMENT CATALOGUE

Document Function Definition

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

Operation Phase Justification

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

DOCUMENTATION DETAILS

The screenshot displays the EPIM TIRC web application interface. The browser address bar shows the URL: `tirc.epim.no/navigator/WG3%2FNOZTL_P0151/NOZTL_15`. The application header includes the NORSOK logo and the title 'TECHNICAL INFORMATION REQUIREMENT CATALOGUE'. The main navigation bar contains 'TIRC', 'NAVIGATOR', and 'BASKET' tabs. A search bar is located on the left side of the main content area.

The left sidebar lists various categories under 'Actuated control valves':

- Architectural Civil
- Electro
- HVAC
- Instrument
- Mechanical
- Piping
- Subsea | Supplier Equipments
- Technical Safety
- Telecom
- Valve

The main content area is titled 'Actuated control valves' and includes a '+ ADD TO BASKET' button. Below the title, there is a section for 'PRODUCT | TYPICAL (16)' with a 'Data sheet' link. A large yellow box labeled 'DOCUMENTATION DETAILS' is highlighted. To the right of this box is a vertical list of icons representing different document types.

The right sidebar, titled 'Data sheet', contains the following sections:

- 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

[illegible]

BASKET

The screenshot displays the NORSOK TIRC Z-018 Basket interface. The top navigation bar includes 'TIRC', 'NAVIGATOR', 'BASKET', and 'TECHNICAL INFORMATION REQUIREMENT CATALOGUE'. The 'BASKET' section on the left shows a list of items, with 'Valve' selected. The main area displays the requirements for 'Actuated control valves', categorized into 'PRODUCT | TYPICAL (16)' and 'PRODUCT | INDIVIDUAL (13)'. The right panel provides a detailed view of the selected requirement, including 'Requirement Condition', 'Requirement Details', 'Additional Details', 'Document Function Definition', 'Document Content Definition', 'Project Phase Justification', and 'Operation Phase Justification'.

EXPORT **CLEAR BASKET** **- REMOVE FROM BASKET**

Valve
F: Actuated control valves

BASKET

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 (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 inq...
- Lifting certificate
- Pre qualified manufacturers list (NORSOK M650)
- Weight certificate
- Welding procedure qualification record

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

INCLUDE

The screenshot displays the EPRI TIRC web application interface. The browser address bar shows the URL: tirc.epim.no/basket/WG3%2FNOZTL_P0151/NOZTL_15. The application header includes the TIRC logo, a NAVIGATOR tab, a BASKET tab with a count of 1, and the NORSOK logo. The main content area is titled 'TECHNICAL INFORMATION REQUIREMENT CATALOGUE' and features a 'REMOVE FROM BASKET' button.

The left sidebar contains an 'EXPORT' button and a 'CLEAR BASKET' button. Below these, a search bar shows 'Valve' and a filter for 'Actuated control valves'. A large yellow box labeled 'INCLUDE' is positioned over the left sidebar.

The main content area is divided into two sections: 'Actuated control valves' and 'Actuated control valves'. The 'Actuated control valves' section is expanded, showing a list of requirements under the heading '- PRODUCT | TYPICAL (16)'. The requirements are:

- 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

The 'Actuated control valves' section is also expanded, showing a list of requirements under the heading '- PRODUCT | INDIVIDUAL (13)'. The requirements are:

- 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 Inc...
- Lifting certificate
- Pre qualified manufacturers list (NORSOK M650)
- Weight certificate
- Welding procedure qualification record

On the right side of the application, there is a 'Requirement Condition' section with a table of requirements. The table has two columns: 'Requirement Condition' and 'Requirement Details'. The requirements are:

- Requirement Condition
- Requirement Details
- Additional Details
- Document Function Definition
- Document Content Definition
- Project Phase Justification
- Operation Phase Justification

The 'Requirement Condition' section includes a table with the following data:

Requirement Condition	Requirement 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

EXPORT

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 (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 Inq...

Lifting certificate

Pre-qualified manufacturers list (NORSOK M650)

Weight certificate

Welding procedure qualification record

TECHNICAL INFORMATION REQUIREMENT CATALOGUE

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

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 tailormade 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.