

VALVE & INSTRUMENTATION FUNCTION IDENTIFIERS (SELECTED)

Table with columns: FIRST-LETTERS, INDICATING MEASURED OR CONTROLLED VARIABLE, CONTROLLERS (RECORDING INDICATING BLIND), VALVES, READOUT DEVICE (RECORDING INDICATING), SWITCHES AND * ALARM DEVICES (HIGH** LOW** COMB), TRANSMITTERS (RECORDING INDICATING BLIND), SOLENOIDS RELAYS COMPUTING DEVICES, PRIMARY ELEMENT, TEST POINT, WELL OR PROBE, VIEWING DEVICE GLASS, SAFETY DEVICE, FINAL ELEMENT. Rows include ANALYSIS, BURNER/COMBUSTION, CONDUCTIVITY, VOLTAGE, FLOW RATE, FLOW QUANTITY, FLOW RATIO, HAND, CURRENT, POWER, TIME, LEVEL, MOISTURE/HUMIDITY, PRESSURE VACUUM, PRESSURE DIFFERENTIAL, QUALITY, RADIATION, SPEED, TEMPERATURE, MULTIVARIABLE MACHINERY VIBRATION ANALYSIS, WEIGHT FORCE, WEIGHT FORCE DIFFERENTIAL, EVENT STATE PRESENCE, POSITION DIMENSION, GAUGING DEVIATION.

NOTE: THIS TABLE IS NOT ALL-INCLUSIVE; SEE ESM CH 1, SECTION 230, ATTACHMENT 1 SUBTYPES FOR ADDITIONAL FUNCTIONAL IDENTIFIERS. FOR FUNCTIONS NOT LISTED THERE, COORDINATE ADDITIONS WITH THAT SECTION'S POINT OF CONTACT (POC) AS INFORMED BY ISA 5.1.

*A, ALARM, THE ANNUNCIATING DEVICE, MAY BE USED IN THE SAME FASHION AS, SWITCH, THE ACTING DEVICE.

** THE LETTERS H AND L MAY BE OMITTED IN THE UNDEFINED CASE.

OTHER POSSIBLE COMBINATIONS:

FO (RESTRICTION ORIFICE) PFR (RATIO)
FRK, HIK (CONTROL STATIONS) KQI (RUNNING TIME INDICATOR)
FX (ACCESSORIES) QQI (INDICATING COUNTER)
TJR (SCANNING RECORDER) WKIC (RATE-OF-WEIGHT-LOSS CONTROLLER)
LLH (PILOT LIGHT) HMS (HAND MOMENTARY SWITCH)

GENERAL NOTES

- 1. FOR DRAWING TITLE BLOCK CONTENTS REFER TO THE DRAFTING MANUAL SECTION 202.
2. THE SHEET NUMBER IN THE TITLE BLOCK IS A REFERENCE NUMBER FOR THE ENGINEERING STANDARDS MANUAL (ESM).

Table with columns: LBO-DESIGN PACKAGE REVIEWER, APPROVED FOR RELEASE, SUBMITTED, VERIFIED, DESIGNED, DRAWN, CLASSIFICATION UNCLASSIFIED. Includes revision history with dates and descriptions.

ENGINEERING SERVICES

PROCESS FLOW DIAGRAMS AND P&ID SYMBOLS

PROCESS FLOW, P&ID AND INSTRUMENTATION DIAGRAM LEGEND

Los Alamos National Laboratory logo and project information: PROJECT ID CHAPTER 8, DRAWING NO ST6999, SHEET M-002, REV 2.

>>> NOTE TO DRAFTER/ENGINEER - UPDATE GENERAL NOTES, TITLE BLOCK, AND SHEET NUMBERS FOR YOUR SPECIFIC PROJECT. DELETE THIS NOTE PRIOR TO ISSUANCE.<<<