GENERAL INSTRUMENT OR FUNCTION SYMBOLS

DISCRETE INSTRUMENTS
)
SHARED DISPLAY, SHARED CONTROL
• SCADA AND HMI
• ARM ONLY
• ARM ONLY
AUXILIARY I/O, MULLING, ETC.
PROGR-O-MATIC LOGIC CONTROL OR PLC REMOTE

PROGRAMMABLE LOGIC CONTROL OR PLC REMOTE

INSTRUMENTS SHARING COMMON HOUSING
■ TRANSMITTER REMOTE FROM PRIMARY ELEMENT
■ ROTAMETER
■ MAGNETIC FLOWMETER

ISA FUNCTIONAL IDENTIFICATION LETTERS

FIRST-LETTER (X)  MODIFIER
MEASURED OR INITIATING FUNCTION
B. Buffer/Combination
C. User's Choice (1)
D. Density/Gravity
E. Voltage
F. Flow Rate
G. Viscosity
H. Hard
I. Current (Electrical)
J. Power
K. Time, Time Schedule
L. Level
P. Pressure, Vacuum
Q. Quantity
R. Radiation
S. Speed, Frequency
T. Temperature
U. MultiValve (2)
V. Motor
W. Weight, Force
X. Unclassified (2)
Y. Event, State or Position (2)  a
Z. Position, Dimension

SUCCCEEDING-LETTERS (Y)  MODIFIER
READOUT OR PASSIVE FUNCTION
B. User's Choice (1)
C. User's Choice (1)
D. User's Choice (1)
E. User's Choice (1)
F. Control (1)
G. Sensor (Primary Element)
H. Glass, Viewing device (1)
I. Indicates (1)
J. Control Station (22)
K. Low (1, 15, 16)
L. Minimum, Intermediate (1, 15)
M. MultiFunction (12)
N. User's Choice (1)
O. Online, Recursion
P. Point (Field) Connection
Q. Inertial, Torque (1)
R. Signal (17)
S. Switch (13)
T. Transient (10)
U. MultiFunction (12)
V. Volt, Dampener, Limiter (13)
W. Wall
X. Unclassified (2)
Y. Unclassified (2)
Z. Unclassified (2)

PLC SYMBOLS

1. EMERGENCY POWER SYSTEM INTERLOCK
2. UNDEFINED INTERLOCK LOGIC
3. RESET FOR LATCH-TYPE ACTUATOR
4. PURGE OR FLUSHING DEVICE
5. TIE BREAKER INTERLOCK
6. LO SELECT
7. HI SELECT
8. DIGITAL INPUT
9. DIGITAL OUTPUT
10. ANALOG INPUT
11. ANALOG OUTPUT
12. SERIAL I/O TO PLC
13. ETHERNET I/O TO PLC
14. SERIAL TO ETHER CONVERTER PROLINK OR OTHER

PIPE EQUIPMENT

EJECTOR
PULSATTON DAMPER
SOLENOID
ELECTRIC MOTOR
DIAPHRAGM
VARIABLE SPEED DRIVE
PULSATTON DAMPER
MIXER

VALVE & GATE ACTUATORS

GATE
IN-LINE PUMP
BALL
NEEDLE
SUBMERSIBLE PUMP
PLUS
METERING PUMP
THREE WAY VALVE
IN-LINE CHECK
DIAPHRAGM PUMP
SOLENOID-OPERATED DIAPHRAGM PUMP
PRESSURE RELIEF
PERISTALTIC PUMP

PIPING SYMBOLS

FLANGE CONNECTION
INJECTION QUIL
STRAINER KITE TYPE WEIR, WEIR TRAP VALVE
RUPTURE DISC
AIR OPERATED PINCH VALVE
BACKFLOW PREVENTER
FLEXIBLE CONNECTOR
PNEUMATIC RELIEF VALVE
REGULATOR/RELIEF VALVE
REGULATOR SELF CONTAINED
BACK PRESSURE REGULATOR SELF CONTAINED

GENERAL SYMBOLS

A AND B DEMOLITION NOTES
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HVAC SYMBOLS

BALANCING DAMPER
MOTOR
DAMPER
DUCT WORK