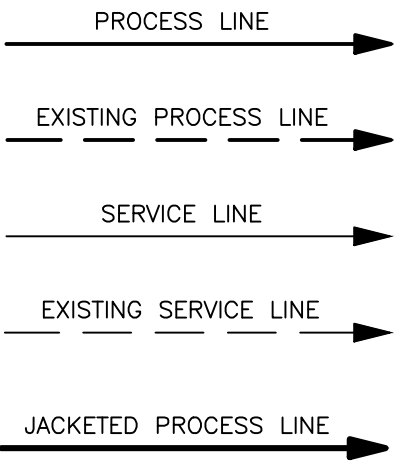
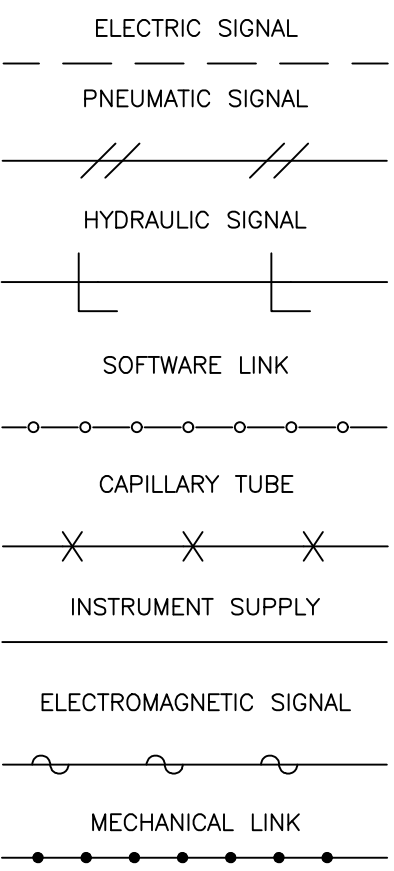


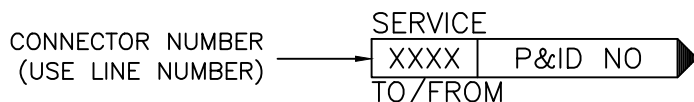
PIPE LINE SYMBOLS



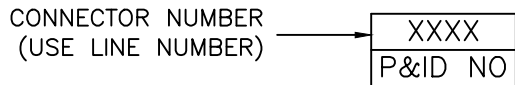
INSTRUMENT LINE SYMBOLS



OFF PAGE CONNECTORS

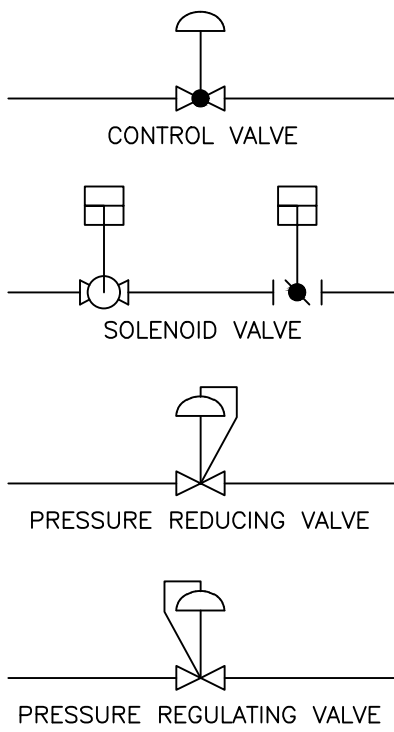


PRIMARY LINE OPC

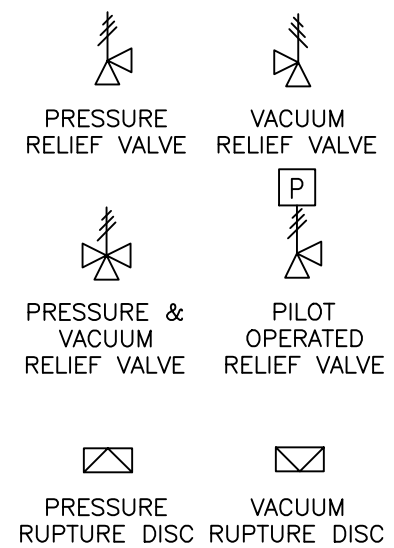


UTILITY LINE OPC

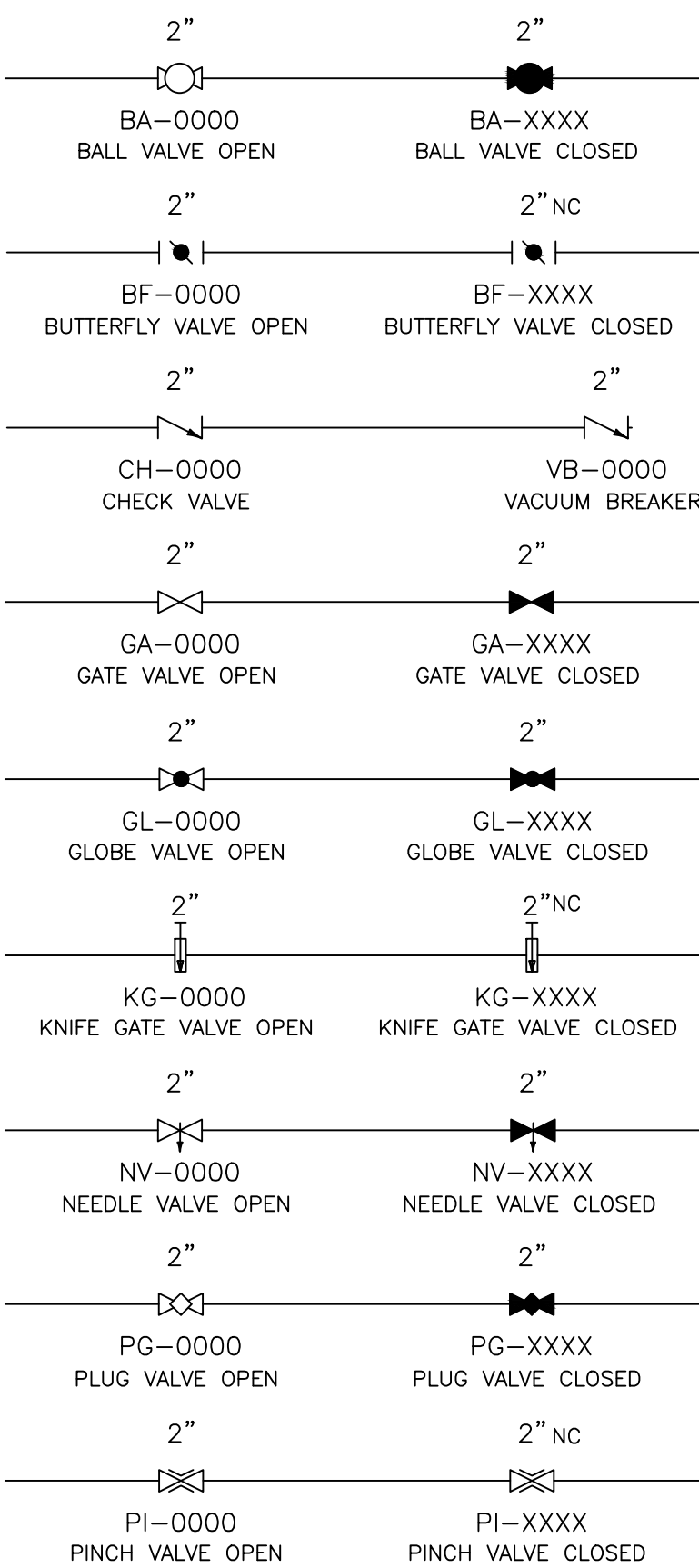
PROCESS VALVE SYMBOLS



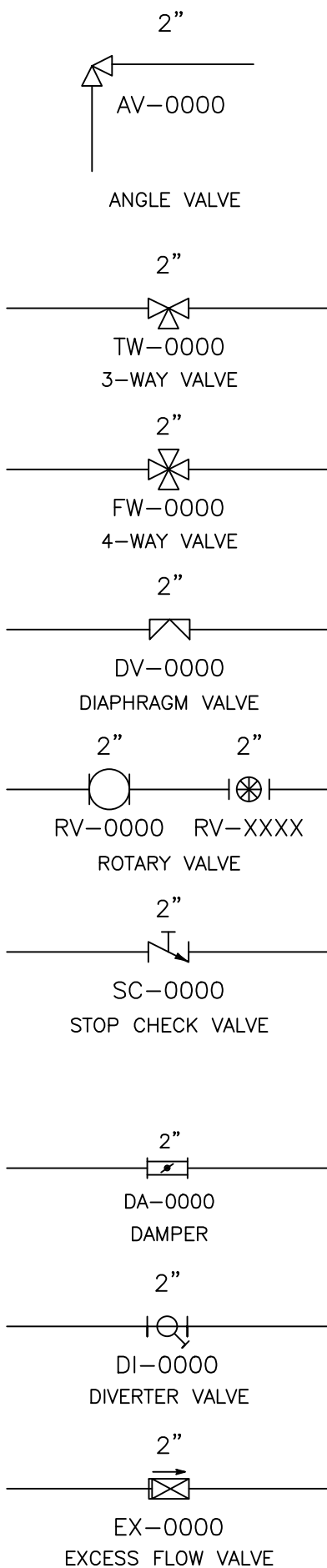
PRESSUR RELIEF VALVE SYMBOLS



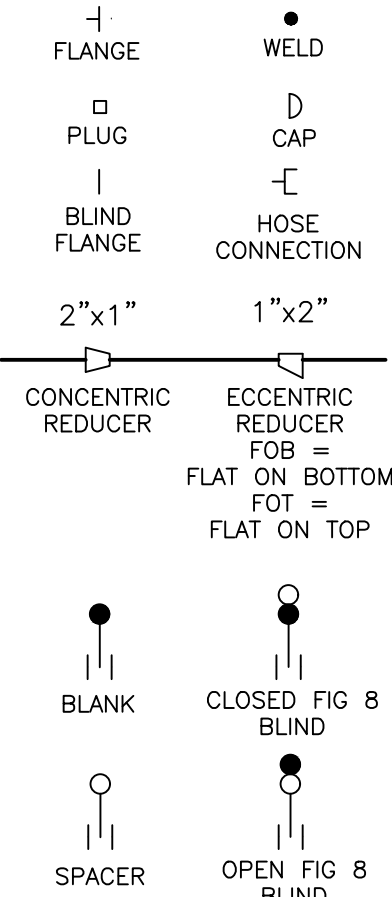
MANUAL VALVE SYMBOLS



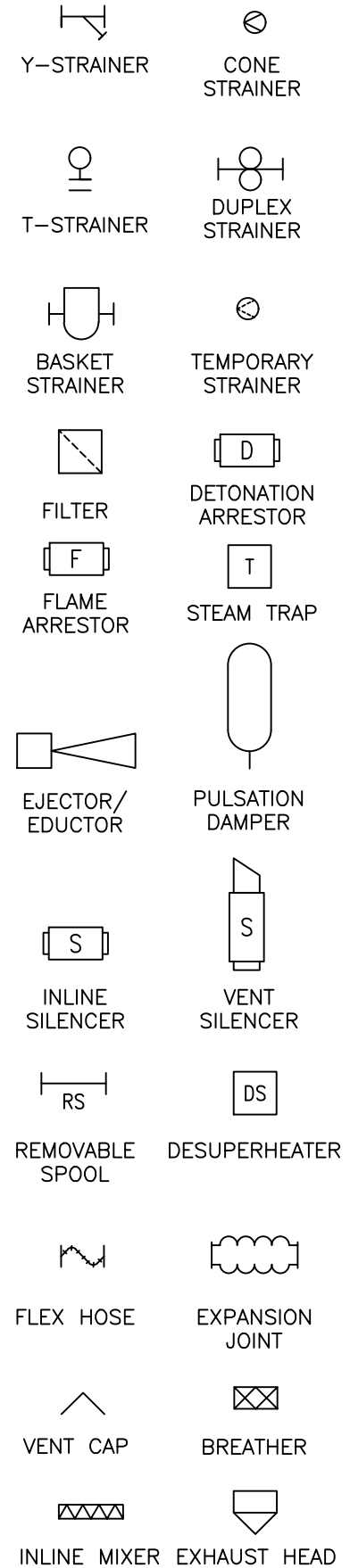
SPECIALTY VALVE SYMBOLS



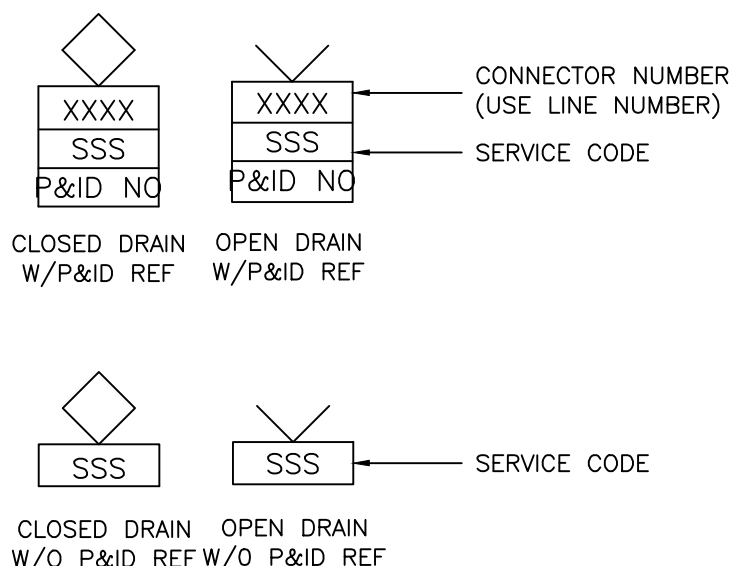
PIPE FITTING SYMBOLS



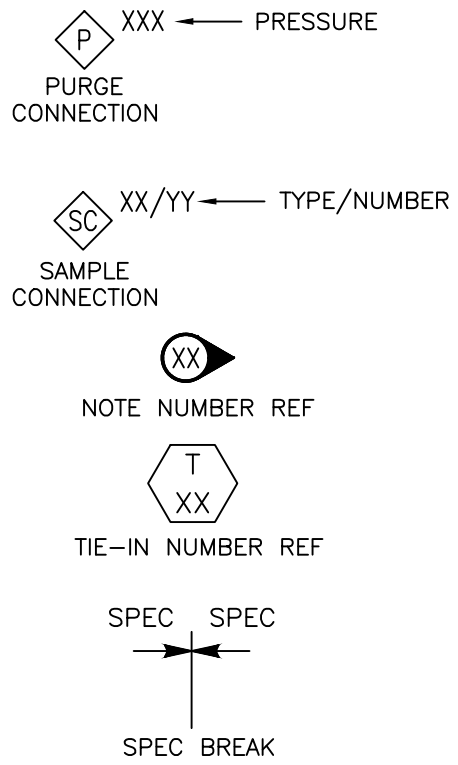
PIPE SPECIALTY ITEMS



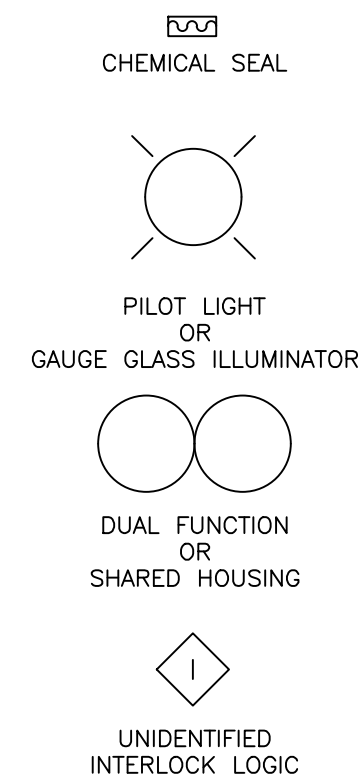
PIPE DRAINS



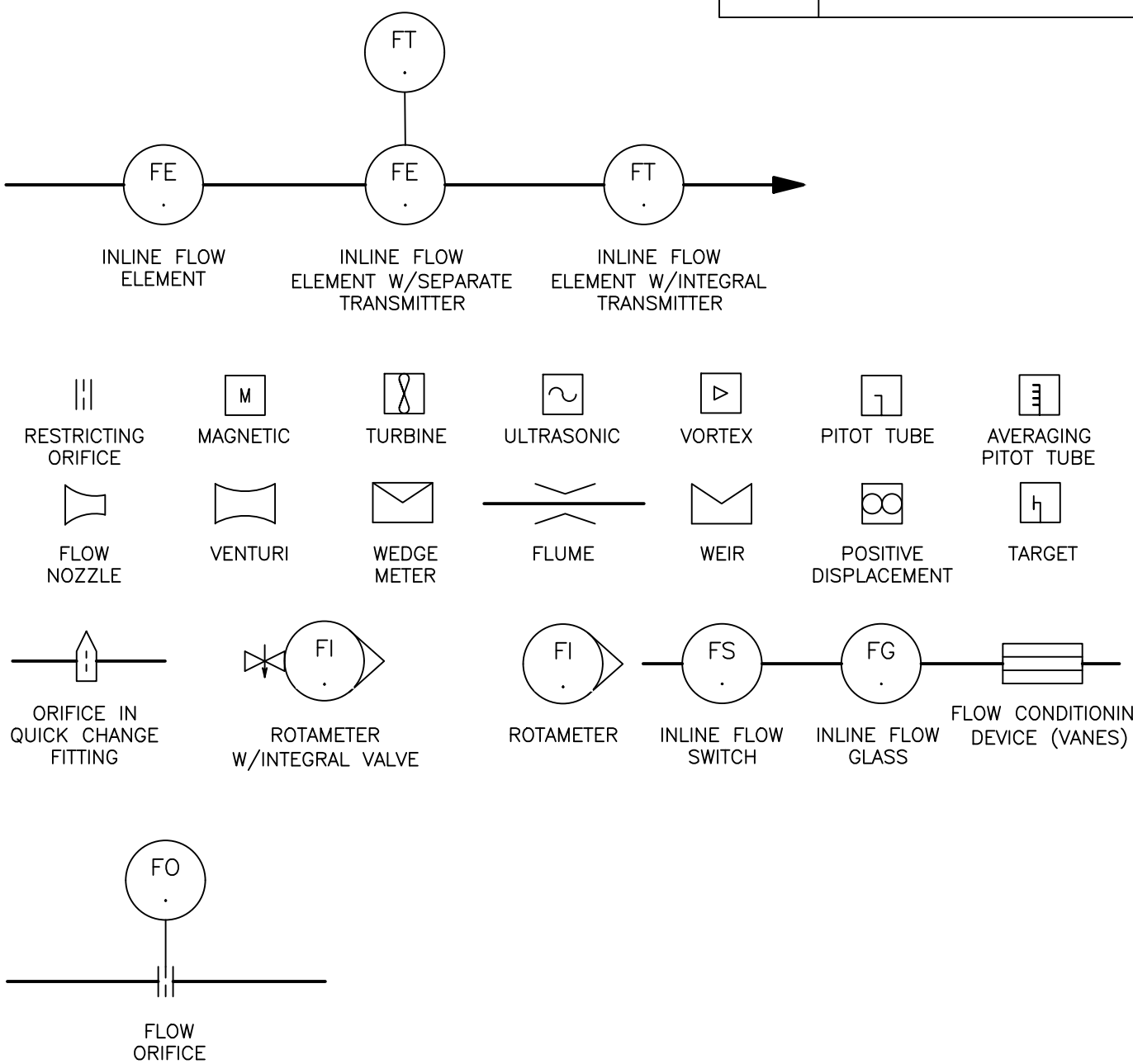
MISCELLANEOUS SYMBOLS



MISCELLANEOUS INSTRUMENT SYMBOLS



PRIMARY FLOW ELEMENT SYMBOLS



INSTRUMENT IDENTIFICATION LETTERS

LETTERS	FIRST LETTER		SUCCEEDING LETTERS		
	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARM		
B	BURNER, FLAME, COMBUSTION		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
C	USER'S CHOICE (TYPICALLY CONDUCTIVITY - ELECTRICAL)			CONTROL	CLOSED
D	USER'S CHOICE (TYPICALLY DENSITY OR SPECIFIC GRAVITY)	DIFERENTIAL			DIVERT
E	VOLTAGE		SENSOR (PRIMARY ELEMENT)		
F	FLOW RATE	RATIO (FRACTION)			
G	USER'S CHOICE OR GAUGING (DIMENSIONAL)		GLASS VIEWING DEVICE		
H	HAND				HIGH
I	CURRENT (ELECTRICAL)		INDICATE		
J	POWER	SCAN			
K	TIME, TIME SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL		LIGHT		LOW
M	USER'S CHOICE (TYPICALLY MOISTURE OR HUMIDITY)	MOMENTARY			MIDDLE, INTERMEDIATE
N	USER'S CHOICE		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
O	USER'S CHOICE		ORIFICE, RESTRICTION		OPEN
P	PRESSURE, VACUUM		POINT (TEST) CONNECTION		
Q	QUANTITY OR HEAT DUTY	INTEGRATE, TOTALIZE			
R	RADIATION		RECORD		
S	SPEED, FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	THROUGH
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
V	VIBRATION, MECHANICAL ANALYSIS			VALVE, DAMPER, LOUVER	
W	WEIFGT, FORCE		WELL		
X	UNCLASSIFIED	X AXIS	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED
Y	EVENT, STATE, OR PRESENCE	Y AXIS		RELAY, COMPUTE, CONVERT	
Z	POSITION, DIMENSION	Z AXIS		DRIVER, ACTUATOR, UNCLASSIFIED, FINAL CONTROL ELEMENT	

GENERAL INSTRUMENT SYMBOLS

LOCATION/ ACCESSABILITY	DISCRETE INSTRUMENTS	SHARED DISPLAY & CONTROL (DCS)	PLC	DISCRETE HARDWARE INTERLOCK
FIELD MOUNTED 1. FIELD OR LOCALLY MOUNTED 2. ACCESSIBLE TO AN OPERATOR AT DEVICE				
PRIMARY LOCATION NORMALLY ACCESSIBLE TO AN OPERATOR 1. CENTRAL OR MAIN CONTROL ROOM 2. FRONT OF MAIN PANNEL OR CONSOLE MOUNTED 3. VISIBLE ON VIDEO DISPLAY 4. ACCESSIBLE TO AN OPERATOR AT DEVICE OR CONSOLE				
PRIMARY LOCATION NORMALLY INACCESSIBLE TO AN OPERATOR 1. CENTRAL OR MAIN CONTROL ROOM 2. REAR OR PANEL OR CABINET MOUNTED				
AUXILIARY LOCATION NORMALLY ACCESSIBLE TO AN OPERATOR 1. SECONDARY OR LOCAL CONTROL ROOM 2. FIELD OR LOCAL CONTROL PANEL 3. FRONT OF SECONDARY OR LOCAL MOUNTED 4. VISIBLE ON VIDEO DISPLAY 5. ACCESSIBLE TO AN OPERATOR AT DEVICE OR CONSOLE				
AUXILIARY LOCATION NORMALLY INACCESSIBLE TO AN OPERATOR 1. SECONDARY OR LOCAL CONTROL ROOM 2. FIELD OR LOCAL CONTROL PANEL 3. REAR OF SECONDARY OR LOCAL PANEL OR CABINET MOUNTED 4. NOT VISIBLE ON VIDEO DISPLAY 5. NOT NORMALLY ACCESSIBLE TO AN OPERATOR AT DEVICE OR CONSOLE				

General Notes

00	INITIAL ISSUE, FOR PRELIMINARY COMMENTS	J.ANDRUS
REV NO	REVISION DESCRIPTION	BY DATE

ANDRUS DRAFTING & DESIGN, LLC
"YOUR PROJECT IS OUR PRIORITY"

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PROJECT INFORMATION CLIENT: ANDRUS DRAFTING & DESIGN, LLC. CLIENT PROJECT NUMBER: 18000 ADD PROJECT NUMBER: 18000	
PROJECT DESCRIPTION ANDRUS DRAFTING & DESIGN, LLC. PLANT 3D TEMPLATE PROJECT	
DRAWING INFORMATION DRAWING TYPE: PROCESS & INSTRUMENT DIAGRAM FLUE GAS SCRUBBING SYSTEM P&ID LEGEND SHEET 1	

DIVISION OF WORK AREA: 00	DRAWING STATUS
DRAWING NUMBER: 18000-PID-00-002-01	ISSUED FOR PRELIMINARY COMMENTS ONLY
DRAWN BY: J.ANDRUS	
DRAWN DATE: 9/7/2018	
APPROVED BY:	
APPROVED DATE:	