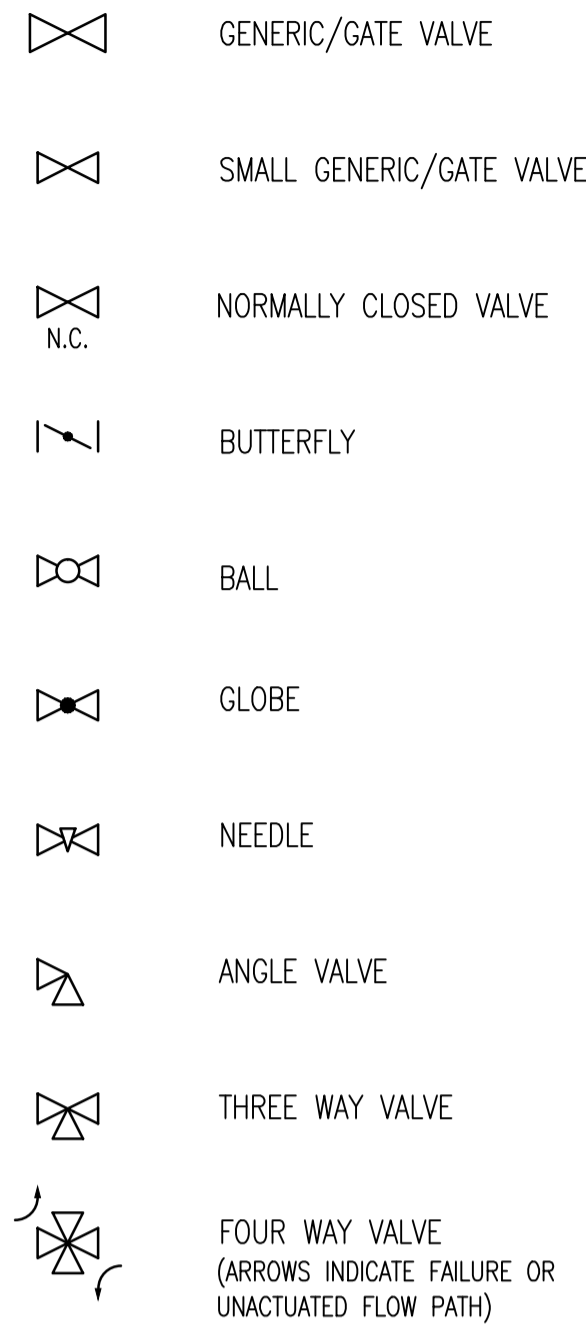
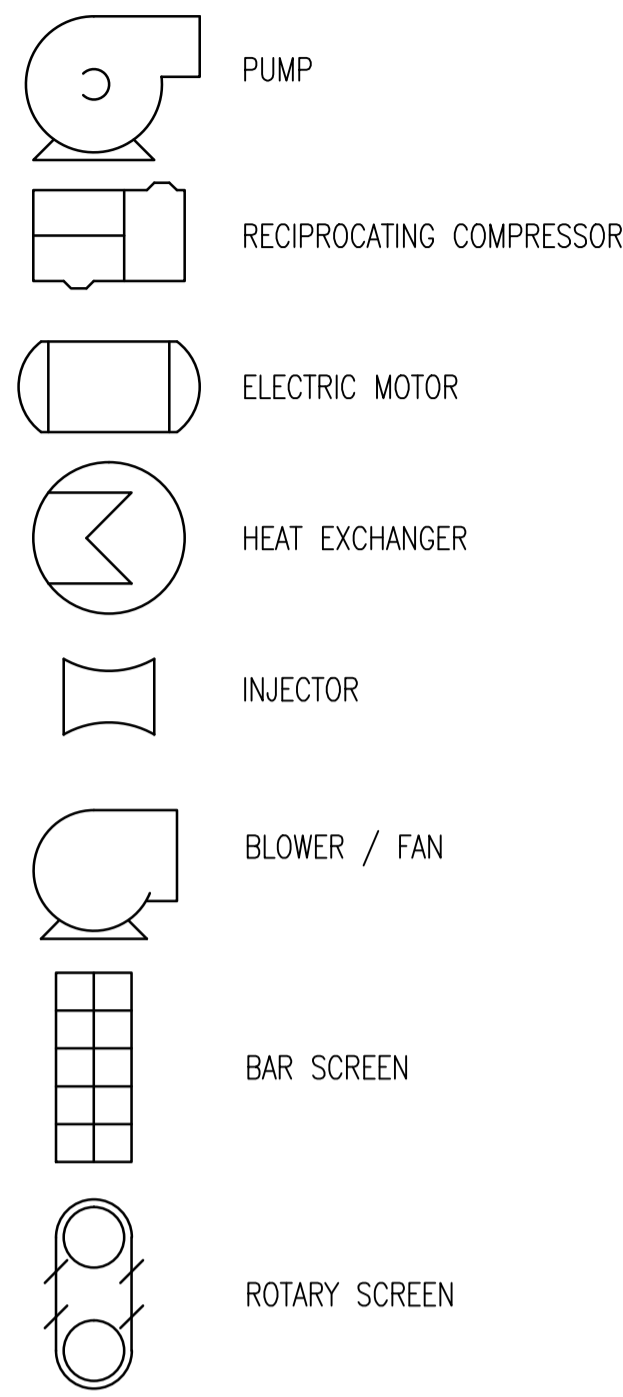
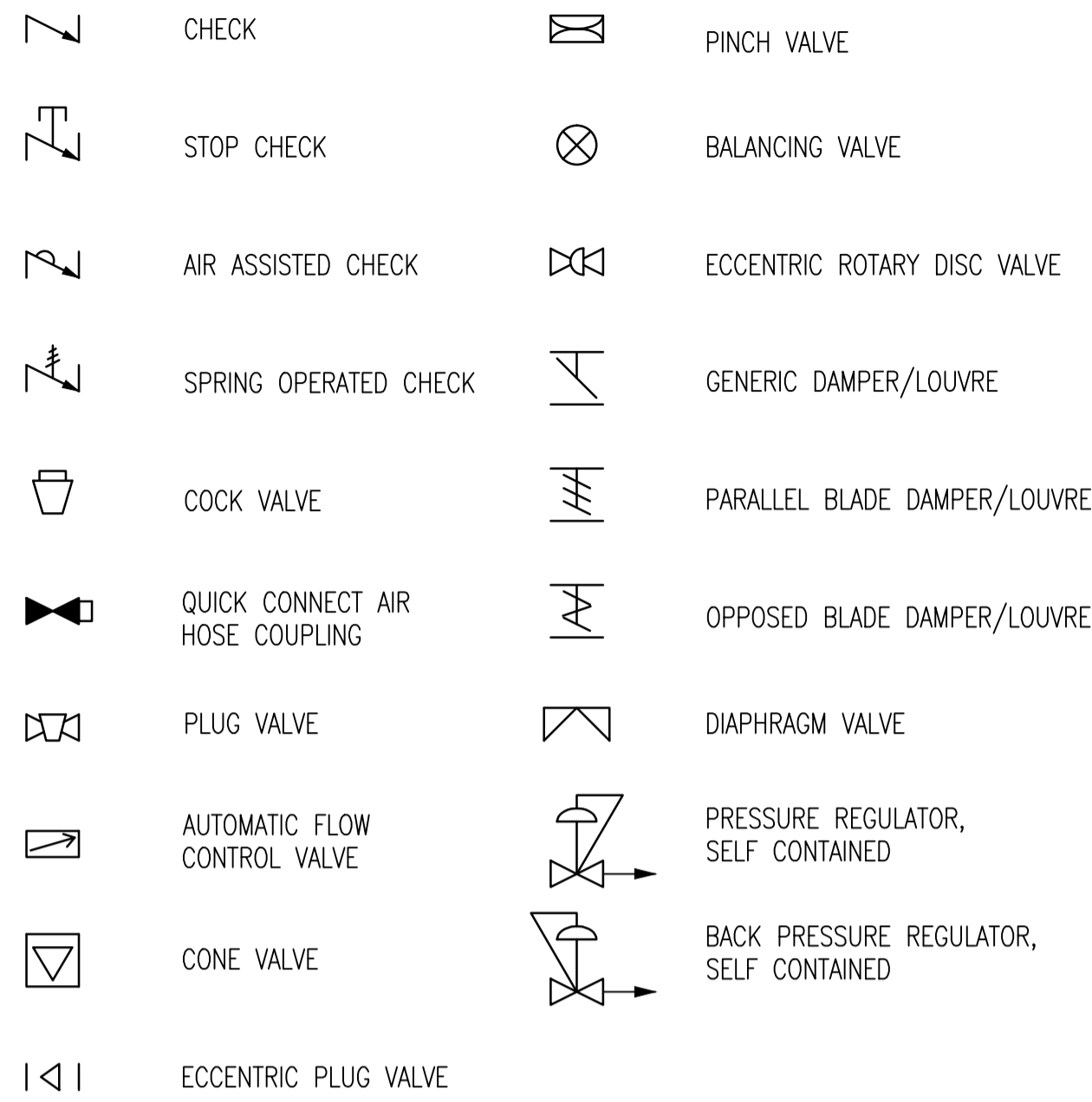


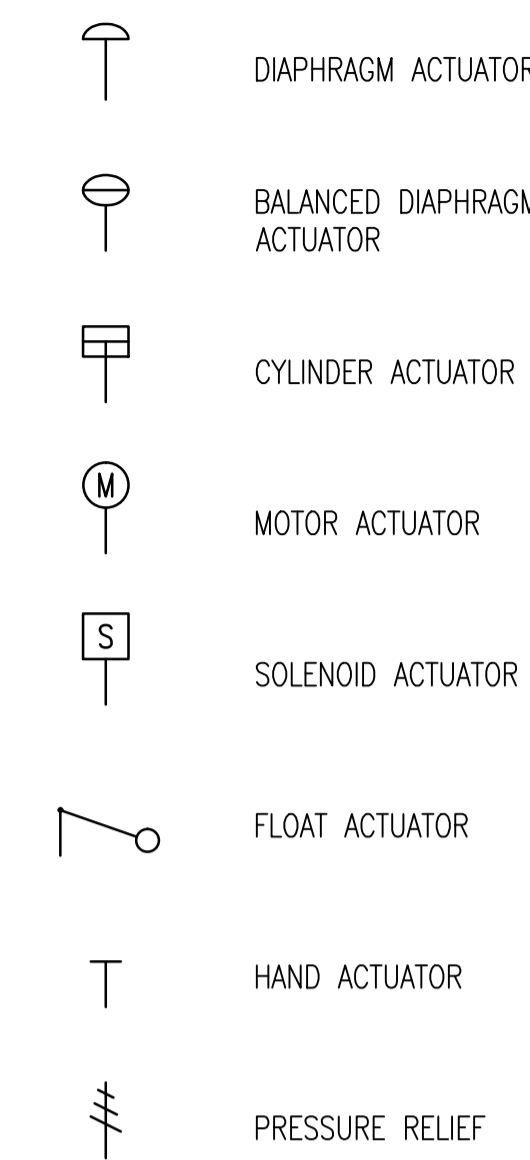
EQUIPMENT SYMBOLS



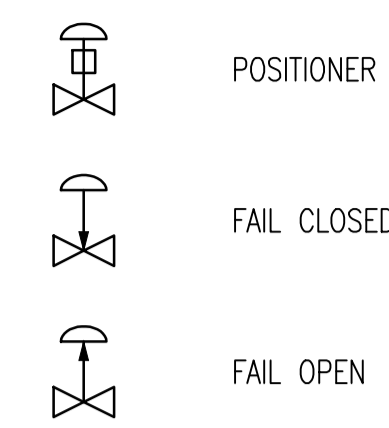
VALVE SYMBOLS



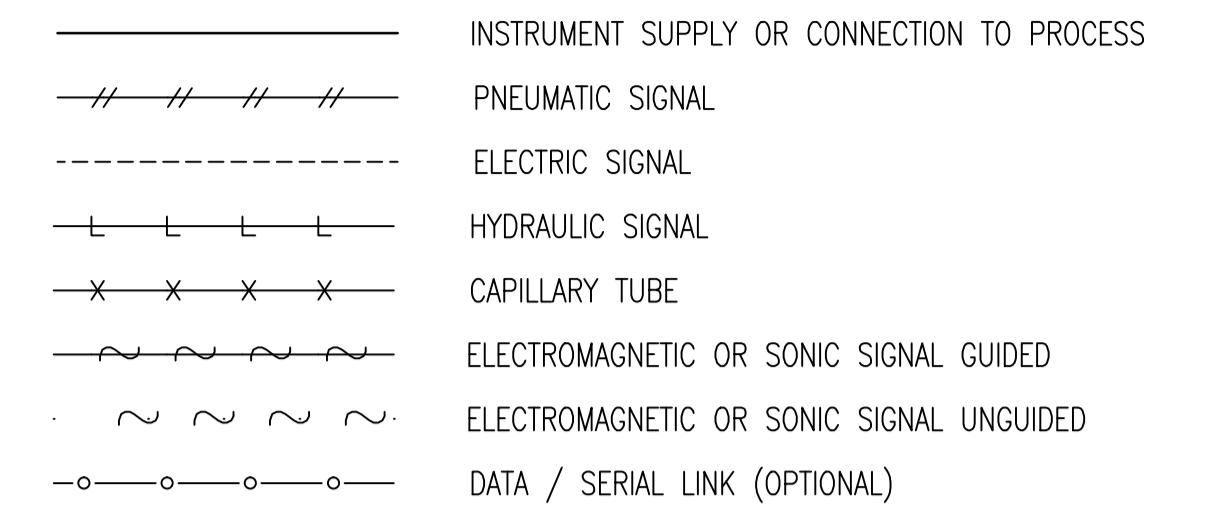
ACTUATOR SYMBOLS



ACTUATOR DETAIL SYMBOLS



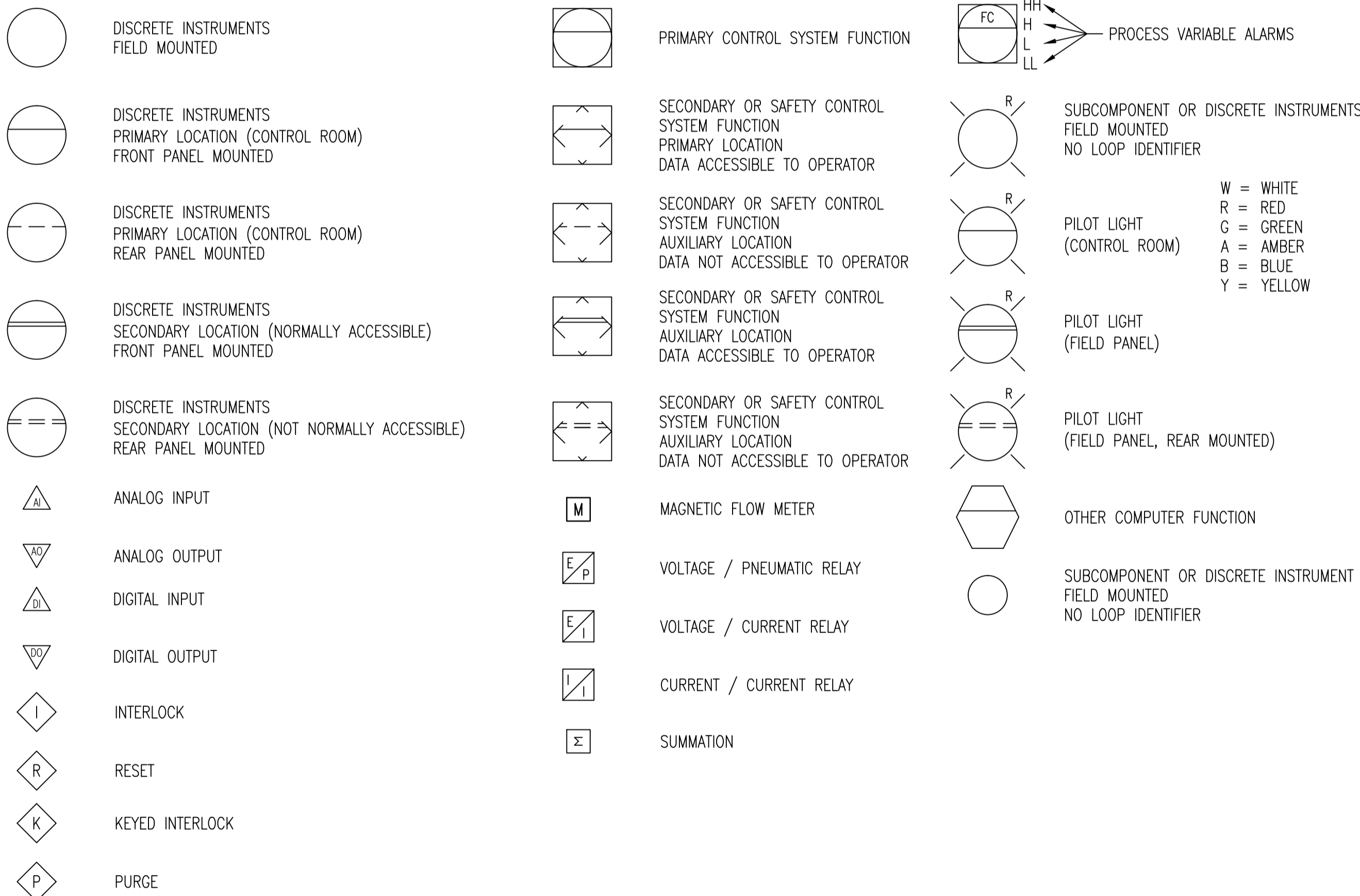
INSTRUMENT LINE SYMBOLS



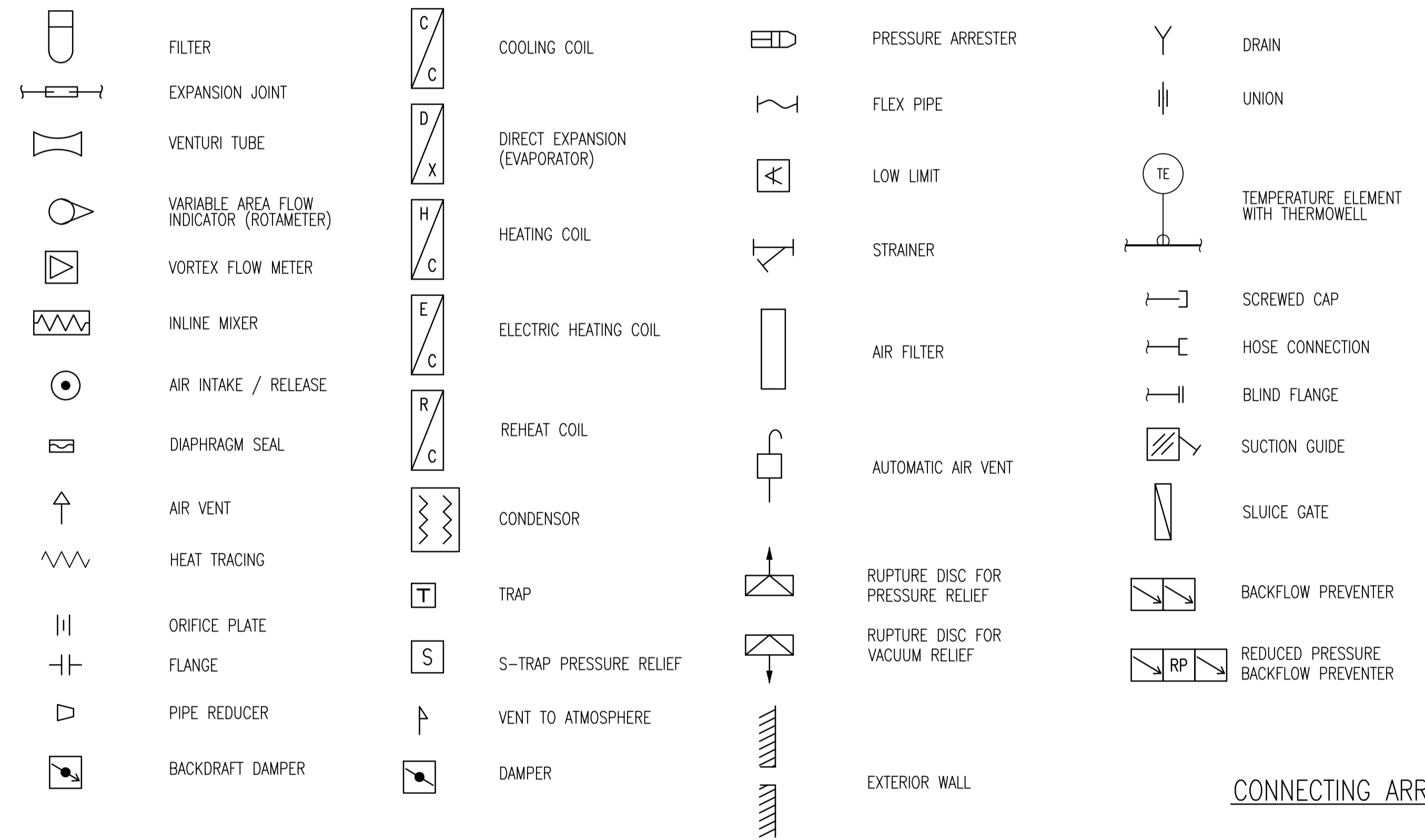
PID STANDARDS

- DRAWINGS UTILIZE CITY OF WINNIPEG STANDARDS FOR BORDER AND TITLE BLOCK. ALL DRAWINGS ARE PRODUCED ON AUTOCAD (LATEST REV., R2000 OR LATER).
- ALL UNITS ARE IN METRIC, EXCEPT AS NOTED OTHERWISE. ALL DIMENSIONS SHOWN ARE IN MILLIMETERS (mm).
- DRAWING CONTENT GENERALLY CONFORMS WITH ISA-5.1 STANDARD.
- PID'S INDICATE MAJOR PROCESS PIPING AND EQUIPMENT AND ASSOCIATED LOCAL INSTRUMENTATION, SCADA PLC AND OTHER PROCESS I/O.
- EQUIPMENT INCLUDING VESSELS, DRUMS, EXCHANGERS, HEATERS, PUMPS, COMPRESSORS, ETC. ARE ARRANGED IN SEQUENCE WITH PRINCIPLE FUNCTIONS AND FLOWS.
- ALL MAJOR EQUIPMENT INCLUDING PUMPS, COMPRESSORS, TANKS, ETC. ARE LABELED AS TO FUNCTION WITH DESIGN SIZES AND RATINGS.
- ALL PROCESS LINES ARE LABELED ACCORDING TO FUNCTION AND SIZE UTILIZING SYSTEM CODES DEFINED HEREIN.
- EACH SYSTEM INTERCONNECTION POINT BETWEEN DRAWINGS IS LABELED WITH A SOURCE DRAWING NUMBER OR DESTINATION DRAWING NUMBER. ARROWS ON PROCESS PIPING INDICATE DIRECTION OF FLOW BETWEEN DRAWINGS.

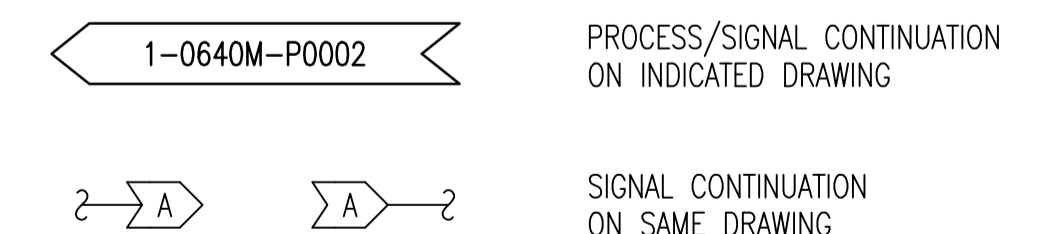
INSTRUMENT SYMBOLS



ACCESSORY DEVICE SYMBOLS



CONNECTING ARROWS



NOTES:

- THIS DRAWING WAS CREATED UNDER THE IDENTIFICATION STANDARD PROJECT FOR FUTURE USE. PREVIOUS P&ID'S WITH DRAWING NUMBERS IN THE "A" DISCIPLINE CODE ARE BASED ON THE PREVIOUS LEGEND DRAWINGS 1-0600A-A0001 SHEETS 1-3.

DRAWING NUMBER	REFERENCE DRAWINGS
----------------	--------------------

NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR CITY USE	2013/11/29	EFB	TMC

SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080	
DESIGNED BY: E. BOHNCKE	CHECKED BY: T. CHURCH
DRAWN BY: S. FUNK	APPROVED BY: E. RYCKOWSKI
SCALE: NTS	RELEASED FOR CONSTRUCTION BY: DATE: 2013/03/21
CONSULTANT NO.: 611003-0000-49DD	

ENGINEER'S SEAL

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT			
SHOAL LAKE INTAKE & AQUEDUCT			
PROCESS AND INSTRUMENTATION DIAGRAM LEGEND AND DETAILS			
CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0600A-P0001	001	00	A1