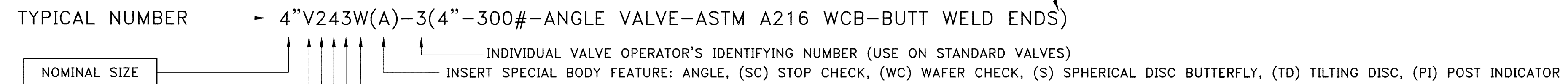


PIPING AND SYSTEM DESIGNATIONS

Table mapping SYSTEM CODE SYS NO to SYSTEM NAME and G.E. CODE SYS NO.

VALVE NUMBERING CODE



EXAMPLE OF A SPECIAL VALVE

10" 685 SV166W SPECIFIED AS A 10" GATE VALVE - 900 LB CLASS MATERIAL A 351 CF8/CF 8M BUTT WELD ENDS WITH LIMIT SWITCHES

SPECIAL DESIGNATIONS: (NUMBERED CONSECUTIVELY & COVERED BY SEPARATE SPECIFICATIONS)

SAFETY OR RELIEF VALVES (RV) ISOLATION VALVES (IV)(IMV) WITH MOTOR OPER. SOLENOID VALVES (SSV) BYPASS VALVES (BV)(BMW) WITH MOTOR OPEN NON-RETURN VALVES (AIR OPERATED, BLEEDER CHECK) (NRV) DRAIN VALVE (DRV) FIRE HOE VALVE (HV) FIRE HYDRANT (HT) DUMP VALVE (DV) MISC SPECIALTIES (TRAPS, STRAINERS, EXPANSION JOINTS, ETC) (S) CONTROL VALVES - SEE INSTRUMENT CODING (DWC 2001 SHT 1), CONTROL VALVES SHALL HAVE THE SAME NUMBER AS THE CONTROL LOOP OF WHICH THEY FORM A PART.

NOTES: THE ABOVE IDENTIFICATION CODE IS FOR GUIDANCE ONLY AND DOES NOT COVER ALL VALVE TYPES PRESSURE RATINGS AND/OR MATERIALS. REFER TO THE SPECIFICATIONS FOR THE ASSIGNMENT OF NUMBERS TO SPECIAL VALVE CATEGORIES AND SPECIFIC MATERIALS.

Table defining PREFIX (V, EV, CV, LV, GV, *IMV, *IAV, *ISV), FIRST DIGIT TYPE (1-9), SECOND DIGIT PRESSURE CLASS-LB (1-9), and THIRD DIGIT MATERIAL CLASS (ASTM) (1-9).

DESIGN CONDITIONS table with columns for CODE SUFFIX NO.* and DESIGN CONDITIONS (-1 to -6) including PRESS PSIG and TEMP °F.

NOTE: WHERE CODE SUFFIX NUMBER IS FOLLOWED BY A LETTER (EXAMPLE: FC-1S) THE DESIGN CONDITIONS WILL BE THE SAME AS CODE NUMBER WITHOUT A LETTER EXCEPT RH-1S & RF-1S WHICH ARE LISTED IN TABLE SEPARATELY.

- * LINE DESIGNATIONS SIGNIFY MATERIALS AS FOLLOWS: -1 NUMBER ONLY - STANDARD MATERIAL FOR THAT PRESSURE AND TEMPERATURE. -1A ALUMINUM PIPING AND/OR VALVES FOR SPECIAL CONDITIONS. -1C CHROME - MOLY ALLOY STEEL PIPING AND/OR VALVES FOR SPECIAL CONDITIONS. -1S(a) STAINLESS STEEL PIPING AND/OR VALVES FOR SPECIAL CONDITIONS. (a) INDICATES CARPENTER "20" ALLOY. -1D IMPACT TESTED (CARBON STEEL) ON CERTAIN SYSTEMS MEETING AEC CRITERIA 35.

EXAMPLES: CH-2 CONDENSATE PIPING WITH DESIGN CONDITIONS 670 PSIG, 375°F, CARBON STEEL PIPE. DR-2C HEATER DRAIN PIPING WITH DESIGN CONDITIONS OF 225 PSIG, 400°F, BUT WITH CHROME - MOLY ALLOY STEEL PIPE.

- NOTES: 1. AR: 1 DESIGN PRESSURE (DUE TO IMPACT OF H2 EXPLOSION) VAC-350 PSIG FOR STRAIGHT PIPE, VAC-900 PSIG FOR ELBOWS, CAPS, TEES AND OTHER POINTS OF DIRECTIONAL CHANGE. 2. DESIGN CONDITIONS ARE FOR GENERAL REFERENCE ONLY. WHERE THERE IS A CONFLICT WITH PIPING CONTRACT SPECIFICATION, THE SPECIFICATION GOVERNS. 3. SEE B&R DWG 2044 NOTE 11.

FOR PREVIOUS REVISIONS, SEE SUPERSEDED CARDS.

Table for tracking revisions with columns for NO., DESCRIPTION, DATE, and ENG.

AS BUILT 454003579 project information block including significant numbers, dates, and a flow diagram title: FLOW DIAGRAM SYMBOLS & ABBREVIATIONS COOPER NUCLEAR STATION.

STATUS: Release STATUS DATE: 10/20/2017 DS APPROVED: DTWALEN VER: AB REV: 08 SIZE: F