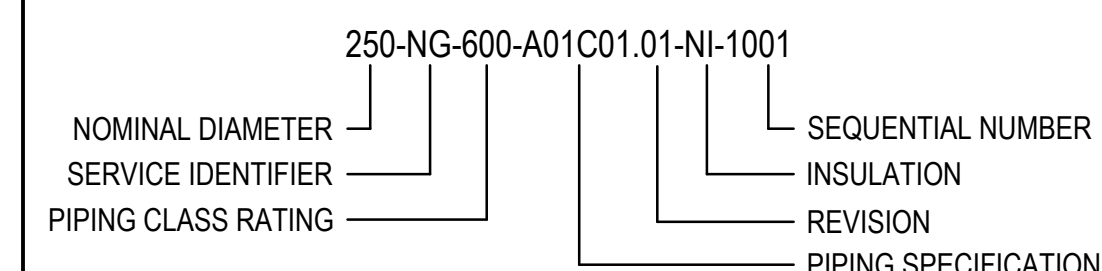


PIPING LINES IDENTIFICATION



NOTES:
 1. LINE NUMBERING EXAMPLE ABOVE IS AS SHOWN ON P&ID. FOR FULL LINE NUMBERING REFER TO 530-SP-Q-0003 (SECTION 2).
 2. REFER TO 530-SP-Q-0003 (APPENDIX H) FOR SEQUENTIAL NUMBER.

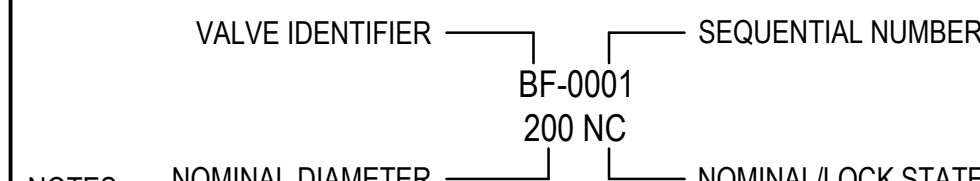
NOMINAL DIAMETER
 NOMINAL DIAMETER (IN mm)
SERVICE IDENTIFIER

| | | | |
|-----|----------------------------|-----|-------------------------|
| CA | COMPRESSED AIR | FO | DIESEL OIL |
| CB | CHEMICAL, ACID | GS | GAS, SEAL |
| CC | CHEMICAL CATALYST | GW | GAS, WASTE |
| CD | CLOSED DRAIN | HG | HOT GLYCOL |
| CF | AQUEOUS FILL FORMING FLUID | HO | HOT OIL |
| CG | GLYCOL | HW | HOT WATER |
| CH | WAX INHIBITOR | HY | HYDRAULIC OIL |
| CI | CORROSION INHIBITOR | IA | INSTRUMENT AIR |
| CJ | ANTI-FOAM | IG | INSTRUMENT GAS |
| CK | EMULSION BREAKER | LNG | LIQUEFIED NATURAL GAS |
| CL | BIOCIDE | LO | LUBRICATING OIL |
| CM | SCALE INHIBITOR | LPG | LIQUEFIED PETROLEUM GAS |
| CO2 | CARBON DIOXIDE | MB | MUD, BULK / SOLID |
| CS | SODIUM HYPOCHLORITE | MD | MUD, DIVERT |
| CU | CAUSTIC | MG | MAINS GAS |
| CW | COOLING WATER | MH | MUD, HIGH PRESSURE |
| DC | DRAIN, CLOSED | MK | MUD, CHOKE & KILL |
| DH | DRAIN, OPEN HAZARDOUS | ML | MUD, LOW PRESSURE |
| DL | DRAIN, LUBE OIL | N2 | NITROGEN |
| DM | DRAIN, MUD | NG | NATURAL GAS (PROCESS) |
| DO | DRAIN, OPEN NON HAZARDOUS | OW | OILY WATER |
| DS | DRAIN, SEWER | PA | PLANT AIR |
| DW | STORMWATER | PW | POTABLE WATER |
| ED | DRILL EFFLUENT | ST | UTILITY STEAM |
| ET | ETHANE GAS | VC | VENT CLOSED |
| FC | COMPLETIONS FLUIDS, BRINE | VE | VENT |
| FFF | FIREFIGHTING FOAM | VG | VENT GAS |
| FFG | GAS, FIRE FIGHTING | VL | VENT LINE |
| FFW | FIREFIGHTING WATER | VO | VENT OPENED |
| FG | FUEL GAS | WO | WASTE OIL |
| FJ | JET FUEL | | |

INSULATION

| | | | |
|----|----------------------|----|---------------------|
| PP | PERSONAL PROTECTION | AC | ACOUSTIC INSULATION |
| TC | THERMAL CONSERVATION | NI | NO INSULATION |

VALVE IDENTIFICATION



NOTES:
 1. VALVE NUMBERING EXAMPLE ABOVE IS AS SHOWN ON P&ID. FOR FULL VALVE NUMBERING REFER TO 530-SP-Q-0003 (SECTION 3).
 2. REFER TO 530-SP-Q-0003 (APPENDIX H) FOR VALVE SEQUENTIAL NUMBER.
 3. NOMINAL DIAMETER AND NOMINAL/LOCK STATE SHOWN IF REQUIRED

VALVE IDENTIFIER

| | | | |
|-----|---|-----|---|
| 2L | 2 PORT 2 WAY ANGLE VALVE | DIB | DOUBLE INTEGRAL BALL VALVE WITH DOUBLE BORE |
| 3L | 3 PORT 2 WAY VALVE, L PORTED | PI | PISTON SEAL (FULL BORE) |
| 3T | 3 PORT 2 WAY VALVE, T PORTED | PI | PISTON SEAL (REDUCED BORE) |
| 3W | 3 WAY VALVE | | |
| 4L | 4 PORT 2 WAY VALVE, L PORTED DIR | DIR | DOUBLE INTEGRAL BALL VALVE WITH DOUBLE BORE |
| 4W | 4 WAY VALVE | | |
| AN | ANGLE VALVE | | |
| AX | AXIAL VALVE | | |
| BF | BALL VALVE - FULL BORE (NO INTEGRAL BLEED) | GL | GLOBE VALVE |
| BR | BALL VALVE - REDUCED BORE | GV | GATE VALVE |
| BU | BUTTERFLY VALVE | KB | KEY BLOCK VALVE |
| BW | BLOWDOWN VALVE | NM | INSTRUMENT VALVE |
| CK | CHECK VALVE | | |
| DA | DIAPHRAGM VALVE | OF | VALVE (INCLUDING 'N' NUMBER VALVES) |
| DBB | DOUBLE BLOCK & BLEED BALL VALVE WITH SELF RELIEVING SEAT (FULL BORE) | NV | NEEDLE VALVE |
| DBR | DOUBLE BLOCK & BLEED BALL VALVE WITH SELF RELIEVING SEAT (REDUCED BORE) | PF | PRESSURE RELIEF VALVE |
| | | PL | PLUG VALVE |
| | | RO | ROTARY VALVE |
| | | SH | SHUTTLE VALVE |
| | | TH | THROTTLE VALVE |

NOMINAL AND LOCK STATES

| | | | | |
|---------|----|-----------------|----|---------------|
| NOMINAL | NC | NORMALLY CLOSED | LC | LOCKED CLOSED |
| | NO | NORMALLY OPEN | LO | LOCKED OPEN |
| | | | LL | LOCK LAST |

MISCELLANEOUS ABBREVIATIONS

| | | | |
|-----|--------------|-----|------------------|
| AG | ABOVE GROUND | BLD | BUILDING |
| ATM | ATMOSPHERE | DN | NOMINAL DIAMETER |
| BD | BLOWDOWN | UG | UNDER GROUND |

PIPING LINE TYPES

| | |
|-----|--------------------------------|
| --- | PRIMARY FLOW LINE |
| --- | PRIMARY FLOW LINE - FUTURE |
| --- | PRIMARY FLOW LINE - EXISTING |
| --- | SECONDARY FLOW LINE |
| --- | SECONDARY FLOW LINE - FUTURE |
| --- | SECONDARY FLOW LINE - EXISTING |
| --- | UTILITY FLOW LINE |
| --- | UTILITY FLOW LINE - FUTURE |
| --- | UTILITY FLOW LINE - EXISTING |

ANNOTATION SYMBOLS

| | |
|---------------------------|--|
| PIPELINE | LINE IDENTIFIER |
| UNASSIGNED1 | LINE INSULATION IDENTIFIER |
| Line No A2 XXX-XX-XXXX | LINE CONTINUATION (THIS APPLIES TO BI-DIRECTIONAL PIPELINES) |
| Origin / Destination | |
| P8-000 | REGULATION STATION |
| UG --- AG | SPECIFICATION BREAK |
| SP XX | SPECIALTY ITEM (UP TO 5 DIGITS) |
| TIP 02 | TIE-IN POINT |
| ! | LINE NUMBER BREAK |
| SLOPE 1:2 | SLOPE |
| ▲ | VALVE DIRECTION |

PIPING VALVES (REFER TO PLANT P&ID USER GUIDE ATP-GD-QM-0021 FOR CONVERSION TO CONTROL VALVES)

| OPEN | CLOSED | END CONNECTIONS | OPEN | CLOSED | END CONNECTIONS | OPEN | CLOSED | END CONNECTIONS | END CONNECTIONS | END CONNECTIONS | | |
|---|--------|-----------------|---|--------|------------------------------------|--------------------|--------|-----------------|--------------------------------|-------------------------------|-------------------------|-------------------------------|
| BALL VALVES - FULL BORE / TAPPING - NO BLEED | | | BALL VALVES - FULL BORE - BYPASS AND BLEED | | | GATE VALVES | | | CHECK AXIAL VALVES | | BUTTERFLY VALVES | |
| | | BWBW | | | BALL VALVE BYPASS AND BLEED | | | NPTNPT | | THDTHD | | NPTNPT |
| | | BWTHD | | | BALL VALVE BYPASS AND BLEED - RFRF | | | RFRF | | RFRF | | RFRF |
| | | THDBW | | | | | | BWBW | | BWBW | | BWBW |
| | | RFRF | | | | | | SWSW | | SWSW | | SWSW |
| | | RFBW | | | | | | BWRF | SHUTTLE VALVES | | | |
| | | BWRF | | | | | | | | | | NPTNPT |
| | | SWSW | | | | | | | | | | RFRF |
| | | | | | | | | | | | | BWBW |
| | | | | | | | | | | | | SWSW |
| | | | | | | | | | CHECK SWING VALVES | | | |
| | | | | | | | | | | NPTNPT | | NPTNPT |
| | | | | | | | | | | RFRF | | RFRF |
| | | | | | | | | | | BWBW | | BWBW |
| | | | | | | | | | | SWSW | | SWSW |
| | | | | | | | | | | BLEED - RFRF | | BLEED - RFRF |
| | | | | | | | | | CHOKE POSITIVE VALVES | | | |
| | | | | | | | | | | NPTNPT | | NPTNPT |
| | | | | | | | | | | RFRF | | RFRF |
| | | | | | | | | | | BWBW | | BWBW |
| | | | | | | | | | | SWSW | | SWSW |
| | | | | | | | | | CHOKE ANGLE VALVES | | | |
| | | | | | | | | | | NPTNPT | | NPTNPT |
| | | | | | | | | | | RFRF | | RFRF |
| | | | | | | | | | | BWBW | | BWBW |
| | | | | | | | | | | SWSW | | SWSW |
| | | | | | | | | | CHOKE ADJUSTABLE VALVES | | | |
| | | | | | | | | | | COMMON | | COMMON |
| | | | | | | | | | | RFRF | | RFRF |
| | | | | | | | | | | BWBW | | BWBW |
| | | | | | | | | | | SWSW | | SWSW |
| | | | | | | | | | CHECK (WAFFER) VALVES | | | |
| | | | | | | | | | | NPTNPT | | NPTNPT |
| | | | | | | | | | | RFRF | | RFRF |
| | | | | | | | | | | BWBW | | BWBW |
| | | | | | | | | | | SWSW | | SWSW |
| | | | | | | | | | CHECK (CONTROL) VALVES | | | |
| | | | | | | | | | | NPTNPT | | NPTNPT |
| | | | | | | | | | | RFRF | | RFRF |
| | | | | | | | | | | BWBW | | BWBW |
| | | | | | | | | | | SWSW | | SWSW |
| | | | | | | | | | CHECK (STOP) VALVES | | | |
| | | | | | | | | | | NPTNPT | | NPTNPT |
| | | | | | | | | | | RFRF | | RFRF |
| | | | | | | | | | | BWBW | | BWBW |
| | | | | | | | | | | SWSW | | SWSW |
| | | | | | | | | | ROTARY VALVES | | | |
| | | | | | | | | | | NPTNPT | | NPTNPT |
| | | | | | | | | | | RFRF | | RFRF |
| | | | | | | | | | | BWBW | | BWBW |
| | | | | | | | | | | SWSW | | SWSW |
| | | | | | | | | | DIAPHRAGM VALVES | | | |
| | | | | | | | | | | NPTNPT | | NPTNPT |
| | | | | | | | | | | RFRF | | RFRF |
| | | | | | | | | | | BWBW | | BWBW |
| | | | | | | | | | | SWSW | | SWSW |
| | | | | | | | | | BLOWDOWN VALVES | | | |
| | | | | | | | | | | NPT | | NPT |
| | | | | | | | | | | RFRF | | RFRF |
| | | | | | | | | | | BWBW | | BWBW |
| | | | | | | | | | | SWSW | | SWSW |
| | | | | | | | | | KEY BLOCK VALVES | | | |
| | | | | | | | | | | DOUBLE BLOCK AND BLEED | | DOUBLE BLOCK AND BLEED |
| | | | | | | | | | | DOUBLE BLOCK AND BLEED - RFRF | | DOUBLE BLOCK AND BLEED - RFRF |
| | | | | | | | | | | DOUBLE BLOCK AND BLEED - BWBW | | DOUBLE BLOCK AND BLEED - BWBW |
| | | | | | | | | | | DOUBLE BLOCK AND BLEED - SWSW | | DOUBLE BLOCK AND BLEED - SWSW |
| | | | | | | | | | | DOUBLE BLOCK AND BLEED - RFRF | | DOUBLE BLOCK AND BLEED - RFRF |
| | | | | | | | | | | DOUBLE BLOCK AND BLEED - BWRF | | |