PIP PN06SA0S01
Piping Material Specification 6SA0S01
Class 600, 304/304L Stainless Steel,
Socket Weld, 0.000 C.A., Process
PURPOSE AND USE OF PROCESS INDUSTRY PRACTICES

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PUBLISHING HISTORY

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Not printed with State funds
**PRESSURE - TEMPERATURE RATINGS – US CUSTOMARY UNITS**

**PRESSURE - TEMPERATURE RATINGS – METRIC UNITS**

**ALLOWANCE:**
- NOMINAL CORROSION
- TEMPERATURE LIMIT: -29°C to 425°C (-20°F to 800°F) (Note 09)
- STRESS RELIEF: None Required

**RATING CLASS:**

**SERVICE:**
- Piping Material Specification
  - Line Class 6SA0S01
  - May 2016

**FITTINGS**

**ITEM**
- NPS
- SCH/RAT
- ENDS
- DESCRIPTION
- USER CODE

**ITEM NOTES**
- 01, 23
- 03, 23
- 02

**ITEM**
- PIPE
- NIPPLES
- SWAGE (CONC)
- SWAGE (ECC)
- FITTINGS

**NOTES**
- 03
- 03
- 03
- 03

**SCH/RAT**
- 40S
- 80S
- SS, ASTM A312-TP 304/304L
- SS, ASTM A312-TP 304/304L (Ej=0.80)

**ENDS**
- Weld
- SS, ASTM A182-F304/304L, MSS SP-97
- SS, ASTM A182-F304/304L, MSS SP-97
- SS, ASTM A182-F304/304L, MSS SP-97
- SS, ASTM A182-F304/304L, MSS SP-97
- SS, ASTM A182-F304/304L, MSS SP-97
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- SS, ASTM A182-F304/304L, MSS SP-97
- SS, ASTM A182-F304/304L, MSS SP-97
- SS, ASTM A182-F304/304L, MSS SP-97

**DESCRIPTION**
- SS, SMLS, ASTM A312-TP 304/304L
- SS, EFWM, ASTM A312-TPO 304/304L (Ej=0.80)
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**USER CODE**
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**PRESSURE - TEMPERATURE RATINGS – US CUSTOMARY UNITS**

For NPS 1/2 through NPS 8 (Full flange ratings per ASME B16.5, Table 2-2.1.)

For NPS 10 through 24 see Note 01

**PRESSURE - TEMPERATURE RATINGS – METRIC UNITS**

For NPS 1/2 through NPS 8 (Full flange ratings per ASME B16.5, Table II-2.1.)

For NPS 10 through 24 see Note 01

**ITEM**
- PIPE
- NIPPLES
- SWAGE (CONC)
- SWAGE (ECC)
- FITTINGS

**NOTES**
- 01, 23
- 03, 23
- 02

**SCH/RAT**
- 40S
- 80S
- SS, ASTM A312-TP 304/304L
- SS, ASTM A312-TP 304/304L (Ej=0.80)

**ENDS**
- Weld
- SS, ASTM A182-F304/304L, MSS SP-97
- SS, ASTM A182-F304/304L, MSS SP-97
- SS, ASTM A182-F304/304L, MSS SP-97
- SS, ASTM A182-F304/304L, MSS SP-97
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**DESCRIPTION**
- SS, SMLS, ASTM A312-TP 304/304L
- SS, EFWM, ASTM A312-TPO 304/304L (Ej=0.80)
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**USER CODE**
- 03
- 03
- 02

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**Process Industry Practices**

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90° BRANCH CONNECTION

Legend and Chart

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E Reducing Tee
S Sockolet
T Tee
W Weldolet
NOTES:
01 If a pipe schedule is shown under "SCH/RAT," it shall be adequate for the full flange rating. If "CALC" is shown, the pressure limit may be lower than full flange rating.
02 All butt-welded component thicknesses shall match the pipe thickness.
03 Threaded joints are permitted only at the outlet of vent and drain valves, hydrostatic connections, outlet instrument take-off valves, and to match equipment.
06 These valves shall be used only for vent, drain, and instrument connections.
07 These valves have no flanges but are installed between line flanges with extra-length bolts.
08 Full-port valves shall be used if indicated on the P&ID.
09 Pressure and temperature rating can be limited by certain components permitted by this Practice. Manufacturer's recommended pressure-temperature restrictions shall be consulted.
23 Sch 80S pipe and pipe nipples shall be used for threaded connections for sizes NPS 1/2 through NPS 2.
26 To be used only if indicated on the P&ID.
53 To be used where required for pipe supports, dummy legs and unused socketweld taps.
61 These check valves shall be installed in a horizontal position with cover up.
62 These check valves shall be installed in a horizontal position with cover up or in a vertical position with upward flow.
63 These check valves shall be installed in a horizontal position with hinge pin vertical or in a vertical position with upward flow.
160 Wafer-type valves are not recommended for hazardous or flammable service or for temperatures greater than 260°C (500°F).

REFERENCES:
Process Industry Practices (PIP)
- PIP PNF0200 - Vents, Drains, and Instrument Connection Details
- PIP PNSMV023 - Stainless Steel Gate Valve Descriptions
- PIP PNSMV024 - Stainless Steel Globe Valve Descriptions
- PIP PNSMV025 - Stainless Steel Check Valve Descriptions
- PIP PNSMV026 - Stainless Steel Ball Valve Descriptions