***MAOPMOP*  Field = Required Field = Not or Rarely Populated**

**It is strongly recommended that users rearrange the fields in the MAOPMOP table with the “Required” Fields showing first. Those fields not used and or not populated should be at the end.**

**MAOP is for GAS lines and refers to the Maximum Allowable Operating Pressure.**

**MOP is for LIQUIDS lines and refers to the Maximum Operating Pressure.**

From Measure: Stationing where MAOP/MOP starts on the line

To Measure: Stationing where MAOP/MOP ends on the line

From RouteID: Pressure System GlobalID or Facility Line GUID where MAOP/MOP record starts

To RouteID: Pressure System GlobalID or Facility Line GUID where MAOP/MOP record ends

Status: This should match the status on the pipe. Auto-populates with In-service.

Pressure Type: Design, Certificate, Grandfather, Special Permit, Other, Unknown, Operator Assigned, Historical, Strength Test

Pressure Value: Reported pressure for MAOP or MOP from an Establishment form (B.10/7T-234, etc.)

Unit of Measure: Auto populates with PSI

DetFactorMethodology: Auto-populates with Unknown. This comes straight from the **Code of Federal Regulations** (CFR) and can be accessed here: <https://www.ecfr.gov/current/title-49/subtitle-B/chapter-I/subchapter-D/part-192> and here: <https://www.ecfr.gov/current/title-49/subtitle-B/chapter-I/subchapter-D/part-195>

**The 192 designation should ONLY be used for Gas lines.**

**The 195 designation should ONLY be used for Liquid lines.**

|  |  |
| --- | --- |
| **192**.619(a)(1) Design Pressure | Typically when the line is built (design). Use this when there is not a form showing the pressure. |
| **192**.619(a)(2) Post-Constr. Pressure | After the line is built and a hydro has been performed; Uses the test pressure to calculate MAOP. |
| **192**.619(a)(3) High Actual Oper. Pressure | Highest Actual Oper Pressure during 5 yrs preceding date; Mostly when (a)(1) or (a)(2) can not be used; this is NOT Grandfathered Clause |
| **192**.619(a)(4) History of Pipe | History of Pipe (corrosion and actual operating pressure) |
| **192**.619(c)(Grandfathered) | MAOP of a pipe segm at the highest actual oper pressure to which it had been subjected to during the five years preceding July 1, 1970, as long as the pipe segment is in good condition |
| **192**.619(d) Alternative MAOP (192.620) | MAOP determined using a different design factor than that used in 192.619(a)(1) or 192.619(a)(2) |
| **192**.619(d) Alternative MAOP (192.620) – Special Permit | MAOP where transmission pipe has a waiver or Special Permit from PHMSA |
| **192**.619 Other | If MAOP is NOT based on any paragraph within 192.619 |
|  |  |
| **195**.406 Maximum Operating Pressure | For Liquids, this is what you will choose 95% of the time. |
| **195**.406(a)(2) Component Design Pressure | Used when no MOP Establishment form is available, and components installed are designed to run below a specified pressure |
| **195**.406(a)(3) 80% Test Pressure Part E | A calculation of 80% of the hydrotest pressure for any part of the line that has been tested under subpart E (found here: <https://www.ecfr.gov/current/title-49/subtitle-B/chapter-I/subchapter-D/part-195/subpart-E>) |
| Safe Operating Pressure | Used for instances not established in 192.619 options. Mostly in conjunction with Gathering Compliance forms |

MAOP Establishment Date: Date on the MAOP/MOP Establishment document (B.10/7T-234, etc.)

MAOP Establishment Report No:

Date Determined: Date on the MAOP/MOP Establishment document

Verified By: Name on the MAOP/MOP Establishment document

Pressure Test Verified: Yes, No, Unknown. Were you able to verify the pressure test? Whatever is on the ‘Pressure Test’ for VTC should be shown here. It should be the same.

Materials Verified: Yes, No, Unknown. Were you able to verify the materials on the line? Whatever is on the ‘Pipes’ for VTC should be shown here. It should be the same.

Comments: various

Comment Text: various

MLVS: Pressure System (Valve Section) that this MAOP or MOP applies to

TempPressureRestriction: This is populated with the temporary MAOP/MOP value when a Temporary Pressure Restriction has been placed on the line.

TempPressureExpiry: This is populated with the expiration date when a Temporary Pressure Restriction has been placed on the line.

GRANDFATHERED: NULL, 0, 1, 1813.5, 18135, 18164, 18165, 18166, No, Yes, Unknown

Date Reviewed:

VSMNOP: various numbers 0 to 1286

From Date: Date

To Date: Date

DEFICIENCY: NULL, 500, F, T. Do not populate.

EventID: NULL, 02/02/2021, 1, 13004, 3511, 6288, 09/20/2016, MOC 6263, MOC 6265, MOC 6266. Do not populate.

Scab: varoious numbers 0 to 741. Do not populate.

Location Error: Do not populate

Legacy ID: Do not populate

Historic\_Begin\_Station: Only populate with former stationing when a line stationing reversal occurs.

Historic\_End\_Station: Only populate with former stationing when a line stationing reversal occurs.

Historic\_Begin\_Series: Do not populate.

Historic\_End\_Series: Do not populate.

Beg\_X\_Loc: Do not populate

Beg\_Y\_Loc: Do not populate

End\_X\_Loc: Do not populate

End\_Y\_Loc: Do not populate

Pressure Type counts:

Certificate (1)

Design (2475)

\* Design Pressure (371)

\* Field Test Criteria (14)

Grandfather (564)

Highest Operating Pressure (4)

Historical (1243)

\* Leak Test (4)

\* MAOP (372)

\* MAOP Class Change (47)

\* MAOP Downrated (29)

\* MAOP New (547)

\* MAOP Official (115)

\* MOP (11406)

Operator Assigned (368)

Other (151)

\* Pressure Type (112)

Special Permit (66)

Strength Test (118732)

Unknown (28938)

\* Uprating (42)

Det. Factor Methodology counts:

0 or blank (350)

192.619 (a)(1) Design Pressure (73333)

192.619 (a)(2) Post Construction Pressure Test (15800)

192.619 (a)(3) High Actual Operation Pressure (198)

192.619 (a)(4) History of Pipe (2504)

192.619 (c )(Grandfathered) (9219)

192.619 (d) Alternative MAOP (1021)

192.619 (d) Alternative MAOP – Special Permit (778)

192.619 (d) Other (33495)

\* 195.106 Internal Design Pressure (160)

195.302 Pressure Test (45)

195.406 (a)(2) Component Design Pressure (154)

195.406 (a)(3) 80% Test Pressure Part E (336)

195.406 Maximum Operating Pressure (6608)

\* 49 CFR 195 (1672)

\* Design Pressure (45)

\* N/A Not In Service (331)

Safe Operating Pressure (5142)

Unknown (15078)