



| | | |
|-------------|---------------------|-------|
| Job Name: | | |
| Job No: | JWC Representative: | |
| Tag No.: | Submitted By: | Date: |
| Engineer: | Approved By: | Date: |
| Contractor: | Order No.: | Date: |

JAPR Series

ASME Bladder Type Hydro-Pneumatic Tanks With Top Connection / Type IV For Potable Water Systems



APPLICATION

- Hydro-pneumatic tanks help protect the pump and pressure switches against short cycling.
- The tanks are designed to deliver water under pressure between pump cycles to meet demand.
- JAPR Series tanks improve the system operation and extend the pump motor service life by reducing surge pressures, dampening pressure spikes, and minimizing pump run-times.

DESIGN PRESSURE AND TEMPERATURE

- Maximum design pressure:
JAPR-20-601 to 607: 150 PSI (1035 kPa)
JAPR-20-608 to 610, 668: 125 PSI (862 kPa)
- 175, 200, 250 & 300 PSI available upon request
- Maximum design temperature: 240° F (115° C)

TYPICAL DESIGN SPECIFICATION

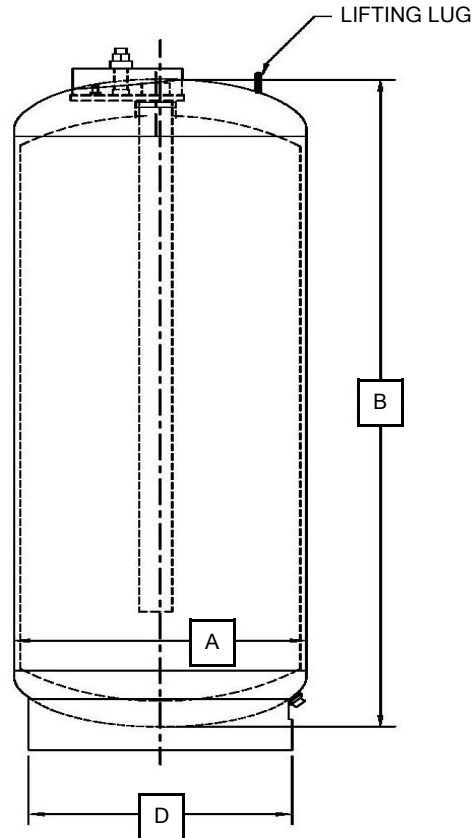
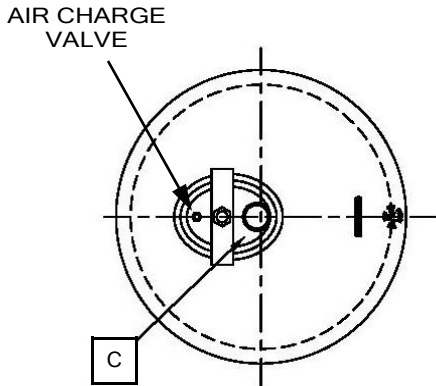
Furnish and install as shown on plans John Wood Model No. JAPR-20-_____ (_____ gallon / _____ liter) ASME pre-charged vertical / horizontal steel hydro-pneumatic tank with replaceable heavy duty butyl rubber bladder. The tank shall have a top mounted _____" MNPT SS system connection and a charging valve connection (Schrader valve) with full guard to facilitate on-site charging of the tank to meet system requirements. The tank shall be fitted with a lifting lug and a base designed for vertical installation or saddles for horizontal installation. The tank must be designed and constructed in accordance with the ASME Boiler and Pressure Vessel Code Section VIII, Division 1, with a stamped MAWP of _____ PSI (_____ kPa) and a maximum design temperature of 240°F (115°C).

SPECIFICATIONS

- Designed and built in accordance with the ASME BPV Code Section VIII, Division 1
- Installation: vertical or horizontal
- Shell: Carbon Steel with exterior gray primer finish
- System connection: MNPT top mounted Stainless Steel connection (with flexible internal flow tube)
- Replaceable bladder: high quality butyl rubber, NSF/ANSI Standard 61 bladders are available upon request
- Full acceptance bladder
- Maximum acceptance volume is approximately 90% of the tank capacity
- Air charge valve: ¼" Schrader charging valve, top mounted with protective guard
- Maximum precharge pressure with standard flow tube: 80 PSI (optional high precharge flow tube is required for precharge pressures above 80 PSI – not included with the standard design)
- Standard factory precharge: 12 PSI



JAPR Series / Type IV



OPTIONS

- High Precharge Flow Tube (required for pre-charge pressures above 80 PSI; suitable for vertical installations only)
- California Code Sight Glass
- Seismic Design

| MODEL NUMBER | CODE SYMBOL | MAWP | TANK VOLUME | | A DIAMETER | | B OVERHEADS | | C SYS. CONN | D BASE DIAMETER | | TANK WEIGHT | |
|--------------|-------------|------|-------------|-----|------------|-----|-------------|------|-------------|-----------------|-----|-------------|-----|
| | | | GAL | L | IN | MM | IN | MM | | INCH (MNPT) | IN | MM | LBS |
| *JAPR-20-601 | UM | 150 | 10 | 40 | 12 | 305 | 23 | 584 | 1 | 8% | 219 | 50 | 23 |
| *JAPR-20-602 | UM | 150 | 15 | 60 | 12 | 305 | 33½ | 851 | 1 | 8% | 219 | 65 | 30 |
| *JAPR-20-603 | UM | 150 | 24 | 90 | 12 | 305 | 52 | 1321 | 1 | 8% | 219 | 90 | 41 |
| *JAPR-20-604 | UM | 150 | 30 | 110 | 14 | 356 | 48 | 1219 | 1 | 8% | 219 | 90 | 41 |
| *JAPR-20-605 | UM | 150 | 35 | 130 | 14 | 356 | 55½ | 1410 | 1 | 8% | 219 | 100 | 45 |
| *JAPR-20-606 | U | 150 | 40 | 150 | 14 | 356 | 62¼ | 1581 | 1 | 8% | 219 | 115 | 52 |
| *JAPR-20-607 | U | 150 | 60 | 230 | 16 | 406 | 72% | 1838 | 1½ | 11½ | 292 | 155 | 70 |
| *JAPR-20-608 | U | 125 | 80 | 300 | 20 | 508 | 63¼ | 1607 | 1½ | 18 | 457 | 175 | 79 |
| *JAPR-20-668 | U | 125 | 105 | 400 | 24 | 610 | 56 | 1422 | 1½ | 18 | 457 | 225 | 102 |
| *JAPR-20-609 | U | 125 | 120 | 450 | 24 | 610 | 66 | 1676 | 1½ | 18 | 457 | 260 | 118 |
| *JAPR-20-610 | U | 125 | 135 | 500 | 24 | 610 | 72 | 1829 | 1½ | 18 | 457 | 275 | 125 |

Dimensions are approximate and subject to change
 Dimensions should not be used for pre-piping
 Weights are approximate
 *Stock model

