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**BURKE Farming Products**



# 2013

**Water Service Products**  
Pumps and Water Systems

**Technical catalogue**



# TANKS



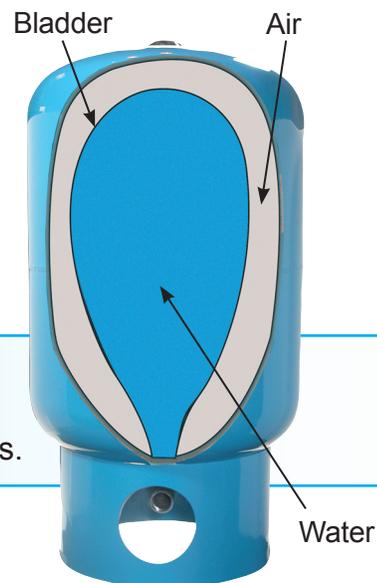
## Interchangeable Bladder

Designed for water systems equipped with a jet pump or a submersible pump.



Replaceable bladder. Made of Butyl rubber to increase reliability and life span.  
Tough, epoxy-baked or stainless steel finish.  
Pressure: Tested to 150 PSI.  
Maximum operation pressure of 75 PSI.  
Flange made from stainless steel.  
Factory pre-charged at 28 PSI.

- No water-air contact, rust free operation.
- No water-tank contact, eliminates seeping.
- No waterlogging, eliminates the need for air volume controls.



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## Interchangeable Bladder

### Inline



| <u>Epoxy-baked</u> | <u>Tank volume</u> | <u>NPT Connection</u> | <u>Pressure switch at</u> | <u>Pre-charge required at</u> | <u>Drawdown</u>          |
|--------------------|--------------------|-----------------------|---------------------------|-------------------------------|--------------------------|
| <b>600541B</b>     | 8 L / 2 US GPH     | 1"                    | 20/40<br>30/50            | 18 PSI<br>28 PSI              | 0.7 US GPH<br>0.6 US GPH |
| <b>600542B</b>     | 20 L / 5 US GPH    | 1"                    | 20/40<br>30/50            | 18 PSI<br>28 PSI              | 1.6 US GPH<br>1.3 US GPH |
| <b>600543B</b>     | 35 L / 9 US GPH    | 1"                    | 20/40<br>30/50            | 18 PSI<br>28 PSI              | 3.2 US GPH<br>2.6 US GPH |

### Upright

Through-tank connection, easy hook up with tee.



| <u>Epoxy-baked</u> | <u>Tank volume</u> | <u>NPT Connection</u> | <u>Pressure switch at</u> | <u>Pre-charge required at</u> | <u>Drawdown</u>            |
|--------------------|--------------------|-----------------------|---------------------------|-------------------------------|----------------------------|
| <b>600544B</b>     | 25 L / 15 US GPH   | 1"                    | 20/40<br>30/50            | 18 PSI<br>28 PSI              | 5.0 US GPH<br>4.0 US GPH   |
| <b>600545B</b>     | 80 L / 20 US GPH   | 1"                    | 20/40<br>30/50            | 18 PSI<br>28 PSI              | 7.5 US GPH<br>6.0 US GPH   |
| <b>600546B</b>     | 100 L / 26 US GPH  | 1"                    | 20/40<br>30/50            | 18 PSI<br>28 PSI              | 8.8 US GPH<br>7.0 US GPH   |
| <b>600547B</b>     | 150 L / 40 US GPH  | 1"                    | 20/40<br>30/50            | 18 PSI<br>28 PSI              | 13.2 US GPH<br>10.5 US GPH |
| <b>600548B</b>     | 200 L / 53 US GPH  | 1 1/4"                | 20/40<br>30/50            | 18 PSI<br>28 PSI              | 17.6 US GPH<br>14.0 US GPH |



| <u>Stainless steel</u> | <u>Tank volume</u> | <u>NPT Connection</u> | <u>Pressure switch at</u> | <u>Pre-charge required at</u> | <u>Drawdown</u>          |
|------------------------|--------------------|-----------------------|---------------------------|-------------------------------|--------------------------|
| <b>600545SS</b>        | 80 L / 20 US GPH   | 1"                    | 20/40<br>30/50            | 18 PSI<br>28 PSI              | 7.5 US GPH<br>6.0 US GPH |

### Horizontal



| <u>Epoxy-baked</u> | <u>Tank volume</u> | <u>NPT Connection</u> | <u>Pressure switch at</u> | <u>Pre-charge required at</u> | <u>Drawdown</u>          |
|--------------------|--------------------|-----------------------|---------------------------|-------------------------------|--------------------------|
| <b>600650B</b>     | 25 L / 7 US GPH    | 1"                    | 20/40<br>30/50            | 18 PSI<br>28 PSI              | 2.4 US GPH<br>1.9 US GPH |
| <b>600652B</b>     | 60 L / 15 US GPH   | 1"                    | 20/40<br>30/50            | 18 PSI<br>28 PSI              | 5.0 US GPH<br>4.0 US GPH |
| <b>600614B</b>     | 80 L / 20 US GPH   | 1"                    | 20/40<br>30/50            | 18 PSI<br>28 PSI              | 7.5 US GPH<br>6.0 US GPH |



| <u>Stainless steel</u> | <u>Tank volume</u> | <u>NPT Connection</u> | <u>Pre-charge required at</u> | <u>Pressure switch at</u> | <u>Drawdown</u>          |
|------------------------|--------------------|-----------------------|-------------------------------|---------------------------|--------------------------|
| <b>600650SS</b>        | 25 L / 7 US GPH    | 1"                    | 20/40<br>30/50                | 18 PSI<br>28 PSI          | 2.4 US GPH<br>6.0 US GPH |



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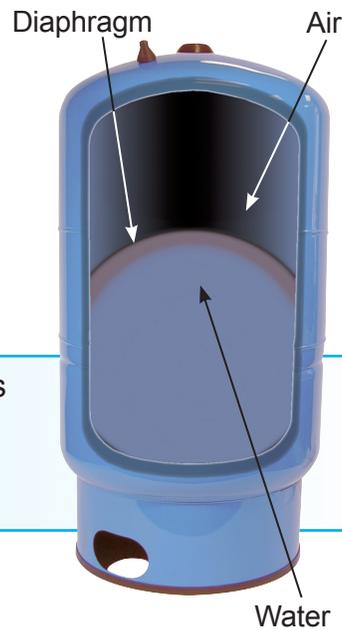


## Permanent Diaphragm

Designed for water systems equipped with a jet pump or a submersible pump.



NSF standard 61 listed.  
 Maximum operation pressure of 100 PSI.  
 Maximum working temperature of 200° F.  
 Factory pre-charged at 38 PSI.  
 Welded air stem to ensure reliable leak free performance.



- Exclusive Butyl blend diaphragm, permanently separates water and air.
- Polypropylene liner for complete corrosion resistance.
- Extreme resistance to bacterial growth in potable water.

### Upright

Through-tank connection, easy hook up with tee.

| <u>Epoxy-baked</u> | <u>Tank volume</u> | <u>NPT Connection</u> | <u>Pressure switch at</u> | <u>Pre-charge required at</u> | <u>Drawdown</u>           |
|--------------------|--------------------|-----------------------|---------------------------|-------------------------------|---------------------------|
| 600609             | 80 L / 20 US GPH   | 1"                    | 20/40<br>30/50            | 18 PSI<br>28 PSI              | 8.0 US GPH<br>6.8 US GPH  |
| 600619             | 100 L / 26 US GPH  | 1"                    | 20/40<br>30/50            | 18 PSI<br>28 PSI              | 10.5 US GPH<br>8.8 US GPH |



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## Typical Installation



When using a tank for your pump, we recommend installing a captive air tank (as shown in our typical installation diagram), which has air injected into the tank at the factory. This air, in addition to atmospheric pressure, increases the ability of the tank to deliver more water between on/off cycles, thus increasing the efficiency of your water system. Connect the pump discharge to the tank T, using adaptors and braided hose, then connect the other side of tank T to your home's plumbing distribution line. Make sure that the precharged air pressure (before filling the tank with water) is 2 PSI less than the starting pressure setted on the pressure switch of your pump.

If you adjust the air pressure after the installation, follow these steps:

- Check the starting pressure of the pump on the pressure gauge.
- Disconnect the power to the pump.
- Open nearest faucet to the tank and relieve all pressure in tank, then close the faucet.
- Adjust the air pressure of the tank (by pumping or removing air at the sniffer valve) 2 PSI below the pressure switch "ON" setting.
- Turn power back on to pump.

Your tank is now precharged. Run the pump through a few cycles to verify that it functions properly.

Other type of tanks may be used, such as galvanized standard tanks, epoxy or glass lined tanks, although these products do not achieve the benefits of a captive air tank.

|                                     | Bladder type |        |        |          |        |         |         |        |            |         |          | Diaphragm type |         |
|-------------------------------------|--------------|--------|--------|----------|--------|---------|---------|--------|------------|---------|----------|----------------|---------|
|                                     | Inline       |        |        | Vertical |        |         |         |        | Horizontal |         |          | Vertical       |         |
|                                     | 600541       | 600542 | 600543 | 600544   | 600545 | 600546  | 600547  | 600548 | 600650     | 600652  | 600614   | 600609         | 600619  |
| <b>Quant. Fixtures</b>              | 1-2          | 2-4    | 5-7    | 8-11     | 12-15  | 13-18   | 18-25   | 20-35  | 3-6        | 8-11    | 12-15    | 12-15          | 13-18   |
| <b>Capacity Gallons</b>             | 2            | 5      | 9      | 15       | 20     | 26      | 40      | 53     | 7          | 15      | 20       | 20             | 26      |
| <b>Liters</b>                       | 8            | 20     | 35     | 60       | 80     | 100     | 150     | 200    | 25         | 60      | 80       | 80             | 100     |
| <b>Drawdown 20/40</b>               | 0.7          | 1.6    | 3.2    | 5.0      | 7.5    | 8.8     | 13.2    | 17.6   | 2.4        | 5.0     | 7.5      | 8.0            | 10.5    |
| <b>30/50</b>                        | 0.6          | 1.3    | 2.6    | 4.0      | 6.0    | 7.0     | 10.5    | 14.0   | 1.9        | 4.0     | 6.0      | 6.8            | 8.8     |
| <b>Std. Galvan. tank equiv.</b>     | 10           | 15     | 20     | 30       | 42     | 82      | 120     | 220    | 15         | 30      | 42       | 42             | 82      |
|                                     | usgal        | usgal  | usgal  | usgal    | usgal  | usgal   | usgal   | usgal  | usgal      | usgal   | usgal    | usgal          | usgal   |
| <b>Concurrency equivalent chart</b> |              |        |        |          |        |         |         |        |            |         |          |                |         |
| WELL X TROL                         | WX101        | WX102  | WX103  | WX201    | WX202  | WX202XL | WX250   | WX251  | WX110PS    | WX200PS | WX202PS  | WX202          | WX202XL |
| WELL-RITE                           | PJR6         | PJR15  | PJR25  | WR45     | WR60   | WR80    | WR140   | WR200  | N/A        | N/A     | N/A      | WR60           | WR80    |
| PERMA-AIR                           | PIL-2        | PIL-5  | PIL-7  | PAD-14   | PAD-20 | N/A     | PAD-36S | PAD-52 | PADH-7     | PADH-14 | PADH-20  | PAD-20         | N/A     |
| FLOTEC                              | FP7105       | FP7100 | N/A    | N/A      | FP7110 | N/A     | FP7125  | FP7125 | FP7100H    | N/A     | FP7110TH | FP7110         | N/A     |

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