

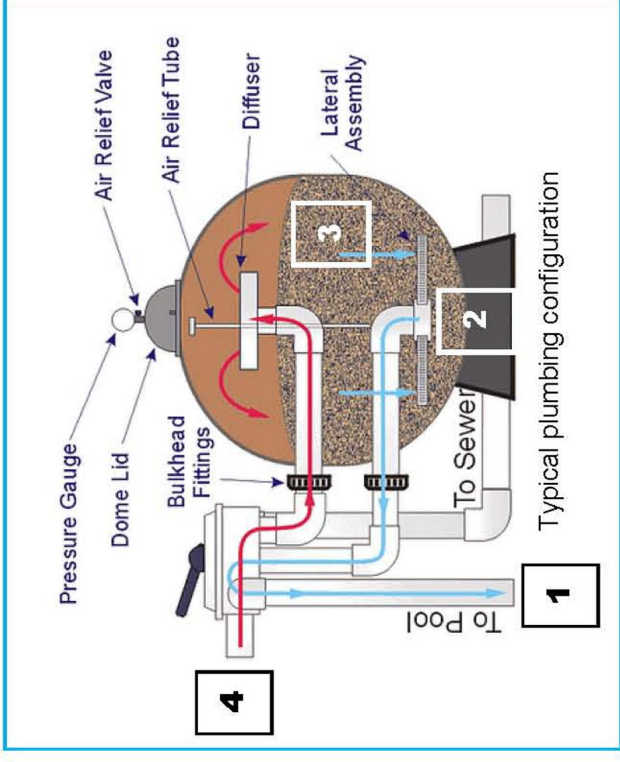
### Normal or Filtering Mode

1. Outlet to pool.
2. Filtered water enters lateral assembly
3. Dirty water permeates filter media, capturing particulate matter within the matrix of the installed media.
4. Water from Pool enters housing.

### \*Back-flushing mode

1. Clean water inlet.
2. Clean water exits lateral assembly under pressure.
3. Pressure and flow separate filter bed media, causing release of captured particulate matter.
4. Outlet to drain of contaminants released from filter media.

\* Initial  $\Delta P$  with sand is typically 10-15 psi, recommended back-flush threshold is +10psi or  $\Delta P$  of 20-25psi



Filterballs® functionally works the same in the above configuration. \*\*

\*\* Initial  $\Delta P$  with Filterballs® is typically < 1 psi, recommended back-flush threshold is +10psi or  $\Delta P$  of 10-14 psi

Filterballs® uses less pressure to accomplish the cycle and yields higher flow-through velocities and volumes.

Comparison: 

	Sand	Filterballs®	Advantage
➤ Working Pressure	10-15 psi	< 1 psi	Lower working pressure = Less Energy consumed
➤ Velocity of Effluent	100 gpm	140 gpm	40 % greater flow through yields quicker turnover of basin being filtered
➤ Micron Rating	~ 25µm	~ 15µm	Removal of more contaminants = cleaner water (can go as low as 1 µm)
➤ Weight (dry)	100 Lbs	1 Lbs	Replacement ratio is 100Lbs sand to 1 Lbs of Filterballs® = safer to handle
➤ Weight (wet)	150 Lbs	1.1 Lbs	Filterballs® is still much safer to handle and transport
➤ Void Volume	20-40%	60 %	Greater void volume yields greater contaminate holding and fewer backwashes



\*\*\* Note: in some filter vessel models that do not have a diffuser screen one will need to be added.

