

# Supercell P



## ROBUST HYDRO-PNEUMATIC WATER PRESSURE TANKS

### APPLICATION

Supercell P tanks can be used as storage units for water under pressure in household, farm or industrial water pressure systems, hydronic heating system expansion tanks, water hammer arrestor systems and mains water toilet flushing systems.

### FEATURES & BENEFITS

Captive diaphragm held firmly in a central position:

- Less movement allowing use of a thicker reinforced diaphragm material than a bag or bladder tank for longer lives

Heavy duty butyl diaphragm meets all major worldwide requirements for potable water applications:

- Safe, non-toxic

Safe potable grade virgin polypropylene liner seals the water from the tank shell:

- Longer life
- Specific wear areas reinforced for longer life

Deep drawn steel shell with appliance like 2 part polyurethane enamel finish and epoxy primer:

- Protected against rusting & the effects of UV light for long life

Patented stainless steel water connection:

- Long life even in less than perfect water conditions
- Seals water and air chambers ensuring a complete leak free and maintenance free pressure vessel

Every tank is individually tested:

- Guaranteed reliable operation

Compliance with the strict requirements of ISO 9001, NSF Standard 61, CE/PED, WRAS, ACS, Watermark and Gost quality standards:

- Consistent product quality
- Assurance of acceptance by plumbing regulators

# Pressure Tanks

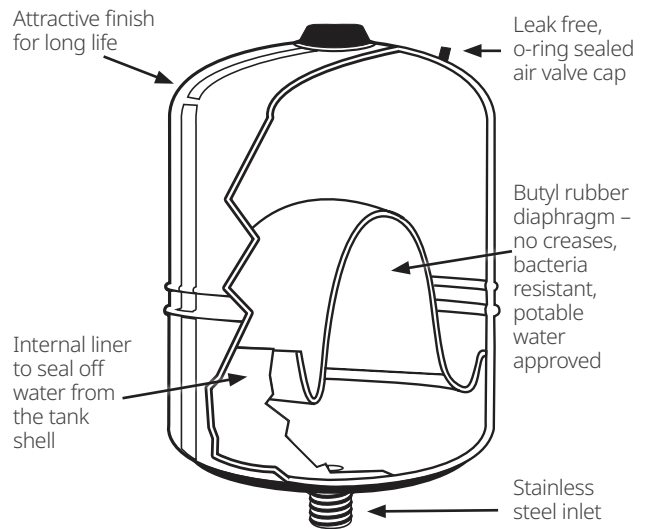
## MATERIALS OF CONSTRUCTION

| PART             | MATERIAL                                     |
|------------------|----------------------------------------------|
| Tank shell       | Steel                                        |
| Tank finish      | Epoxy primed with 2 part polyurethane enamel |
| Diaphragm        | Butyl rubber - FDA approval                  |
| Tank inner liner | Virgin polypropylene                         |
| Tank inlet       | Stainless steel with patented design         |

## OPERATING LIMITS

| Model                      | 24008P, 24018P, 24040P, 24060P | 24018HPH16, 24080PHP16 | 24100P             |
|----------------------------|--------------------------------|------------------------|--------------------|
| Maximum operating pressure | 1000 kPa (145 psi)             | 1600 kPa (232 psi)     | 1000 kPa (145 psi) |
| Maximum water temperature  | 90°C / 194°F                   |                        |                    |
| Minimum water temperature  | -10°C / 14°F                   |                        |                    |
| Tank air pre-charge        | 190 kPa                        | 400 kPa                | 140 kPa            |

## SECTIONAL VIEW



## HYDRAULIC PERFORMANCE – NOMINAL DRAW OFF IN LITRES

| Model      | Tank Capacity (litres) | Max. Pressure Rating (kPa) | Pressure Switch Range kPa (psi) |                 |                 |                 |                 |                 |                   |                    |                     |                     |                     |
|------------|------------------------|----------------------------|---------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|--------------------|---------------------|---------------------|---------------------|
|            |                        |                            | 150-250 (22-36)                 | 150-300 (22-44) | 200-400 (29-58) | 250-400 (36-58) | 250-500 (36-73) | 300-600 (44-88) | 500-1000 (73-145) | 700-1200 (101-174) | 1000-1600 (145-232) | 1600-2000 (232-290) | 2000-2500 (290-363) |
| 24008P     | 8                      | 1000                       | 2.2                             | 3.0             | 3.2             | 2.4             | 3.3             | 3.4             | 3.5               | N/A                | N/A                 | N/A                 | N/A                 |
| 24018P     | 18                     | 1000                       | 5.0                             | 6.7             | 7.2             | 5.4             | 7.4             | 7.6             | 8.0               | N/A                | N/A                 | N/A                 | N/A                 |
| 24018PHP16 | 18                     | 1600                       | 3.0                             | 6.8             | 7.2             | 5.4             | 7.5             | 7.7             | 8.2               | 6.9                | 6.4                 | N/A                 | N/A                 |
| 24040P     | 40                     | 1000                       | 10.7                            | 14.1            | 15.2            | 11.5            | 16.0            | 16.5            | 17.7              | N/A                | N/A                 | N/A                 | N/A                 |
| 24060P     | 60                     | 1000                       | 16.1                            | 21.2            | 22.8            | 17.2            | 23.9            | 24.8            | 26.6              | N/A                | N/A                 | N/A                 | N/A                 |
| 24080PHP16 | 80                     | 1600                       | 21.5                            | 28.2            | 30.4            | 23.0            | 31.9            | 28.7            | 35.5              | 30.2               | 27.9                | N/A                 | N/A                 |
| 24100P     | 100                    | 1000                       | 28.6                            | 37.5            | 40.0            | 30.0            | 41.7            | 42.9            | 45.5              | N/A                | N/A                 | N/A                 | N/A                 |

## DIMENSIONS

| Model      | Diameter | Height | Mounting Type  | Inlet B.S.P. | Shipping Weight (kg) |
|------------|----------|--------|----------------|--------------|----------------------|
| 24008P     | 203      | 317    | Pipe           | 1"M          | 2.6                  |
| 24018P     | 279      | 368    | Pipe           | 1"M          | 4.3                  |
| 24018PHP16 | 279      | 367    | Pipe           | 1"M          | 4.8                  |
| 24040P     | 388      | 419    | Pipe*          | 1"M          | 9.0                  |
| 24060P     | 388      | 626    | Free standing* | 1"F          | 12.5                 |
| 24080PHP16 | 388      | 790    | Free standing* | 1"F          | 16.7                 |
| 24100P     | 430      | 804    | Free standing* | 1"F          | 19.1                 |

All dimensions in mm unless otherwise stated.

\* Wall bracket mount available – P/No. BR390

\* Free standing tanks have 90° SS elbow on inlet allowing horizontal inlet piping.

ISO:9001

