

SUPERCELL P TANKS

Model Numbers: SUPERCELL 24008P, 24018P, 24040P, 24060P & 24080PHP16

DEPEND ON
DAVEY

WATER PRODUCTS



PRESSURE TANKS

PRODUCT DESCRIPTION

Robust hydro-pneumatic water pressure vessels of captive diaphragm design.

APPLICATIONS

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
- 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 life

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

OPERATING LIMITS

Maximum operating pressure

Supercell 24008P, 24018P, 24040P & 24060P

1000kPa (145 psi)

Supercell 24080PHP16

1600kPa (232 psi)

Maximum water temperature

90°C

Minimum water temperature

1°C

Tank air pre-charge

Supercell 24080PHP16

400kPa

All other models

200kPa

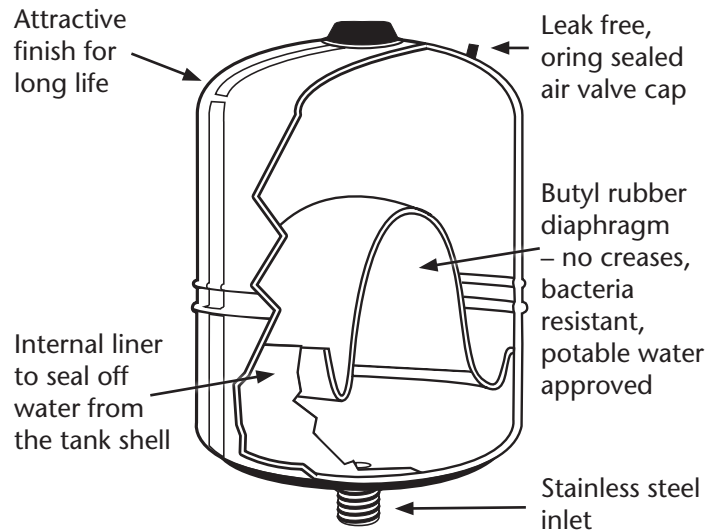


TECHNICAL SPECIFICATIONS

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

SECTIONAL VIEW



HYDRAULIC PERFORMANCE – NOMINAL DRAW OFF IN LITRES

Tank 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)
Supercell 8P	8	1000	2.2	3.0	3.2	2.4	3.3	3.4	3.5	N/A	N/A	N/A	N/A
Supercell 18P	18	1000	5.0	6.7	7.2	5.4	7.4	7.6	8.0	N/A	N/A	N/A	N/A
Supercell 40P	40	1000	10.7	14.1	15.2	11.5	16.0	16.5	17.7	N/A	N/A	N/A	N/A
Supercell 60P	60	1000	16.1	21.2	22.8	17.2	23.9	24.8	26.6	N/A	N/A	N/A	N/A
Supercell 80PHP16	80	1600	21.5	28.2	30.4	23.0	31.9	28.7	35.5	30.2	27.9	N/A	N/A

DIMENSIONS

Tank Model	Diameter	Height	Mounting Type	Shipping Weight (kg)
Supercell 8P	203	317	Pipe	2.6
Supercell 18P	279	368	Pipe	4.3
Supercell 40P	388	419	Pipe*	9.0
Supercell 60P	388	626	Free standing+	12.5
Supercell 80PHP16	388	790	Free standing+	16.7

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



This literature is not a complete guide to product usage. Further information is available from your Davey dealer, Davey Customer Service Centre and from the relevant product Installation and Operating Instructions. This data sheet must be read in conjunction with the relevant product Installation and Operating Instructions and all applicable statutory requirements. Product specifications may change without notice.

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WATER PRODUCTS

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