

















BUY THE BEST!

Apex Valves Limited is a privately owned New Zealand company specialising in the design and manufacture of float valves for water reservoirs, tanks and troughs. Apex Valves also manufacture water tank accessories such as the VisiBall water level indicator.

In addition to our 'Rural Product Range' Apex Valves manufacture an extensive range of control valves for low and high pressure hot water and filtration systems.

Apex Valves is accredited with internationally recognised ISO 9001 Quality Certification.

We provide 100% backup and support for all products and are committed to being a progressive, responsible manufacturer, producing high quality, innovative products that are internationally recognised.













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APPLICATION

- Pump fed large reservoirs it allows for a single level or variable minimum and maximum levels within a reservoir/ tank.
- Rain Harvesting as a backup water supply control valve, providing a backup supply of water in the event of demand exceeding rainfall.

OPERATING PRINCIPLE

The BigBoy® will be closed when both weights are submerged (maximum water level). The valve will remain closed until the bottom weight is exposed (minimum water level). The valve will then open and remain open until the maximum level is reached.

PRODUCT CODES

BB32 - 32mm (1 ¹/₄" BSP) **BB40** - 40mm (1 ¹/₂" BSP)

BB50 - 50mm (2" BSP)

RKBB - Repair Kit

SPECIFICATIONS

WORKING PRESSURE: 15kPa - 1200kPa (2psi - 175psi)

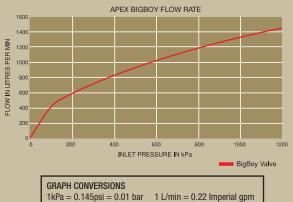
Flow Rates:

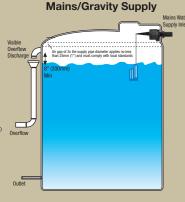
Very high flow rates - refer graph below Temperature Range: 1°C - 60°C (34°F - 140°F)

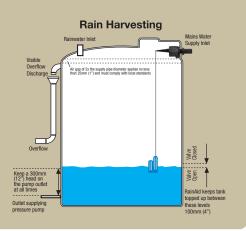
PATENTS

NZ PAT 598546, NZ PAT 328862, NZ PAT 535912, AUS PAT 73644, RSA PAT 98/87777, AUS CLASS 11 NO 1025211





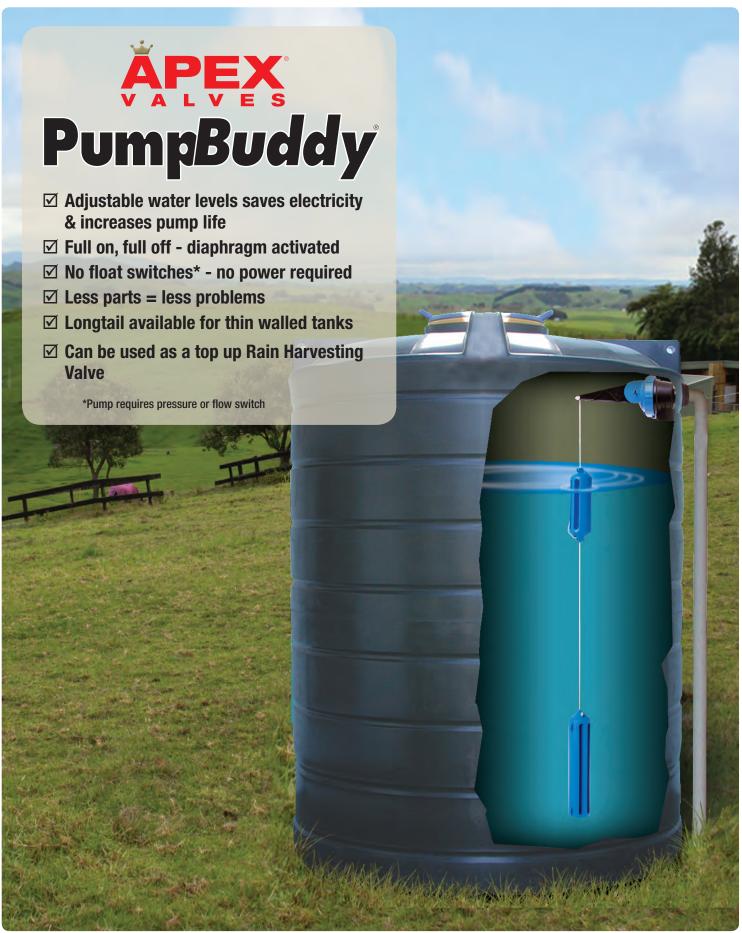


















PumpBuddy

APPLICATION:

- Pump fed large reservoirs it allows for a single level or variable minimum and maximum levels within a reservoir/tank.
- Rain Harvesting as a backup water supply control valve, providing a backup supply of water in the event of demand exceeding rainfall.

OPERATING PRINCIPLE

The PumpBuddy® will be closed when both weights are submerged (maximum water level). The valve will remain closed until the bottom weight is exposed (minimum water level). The valve will then open and remain open until the maximum level is reached.

SPECIFICATIONS

Working Pressure: 55 - 1200kPa (8 - 175psi) Maximum water temperature: 60°C (140°F) Minimum water temperature: 1°C (34°F)

PRODUCT CODES

Standard

20 20mm (3/4" BCD)

PB20 - 20mm (3/4" BSP)

PB25 - 25mm (1" BSP)

PB32 - 32mm (1 ¹/₄" BSP)

Longtail

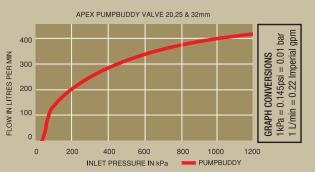
PBLT20 - 20mm (3/4" BSP)

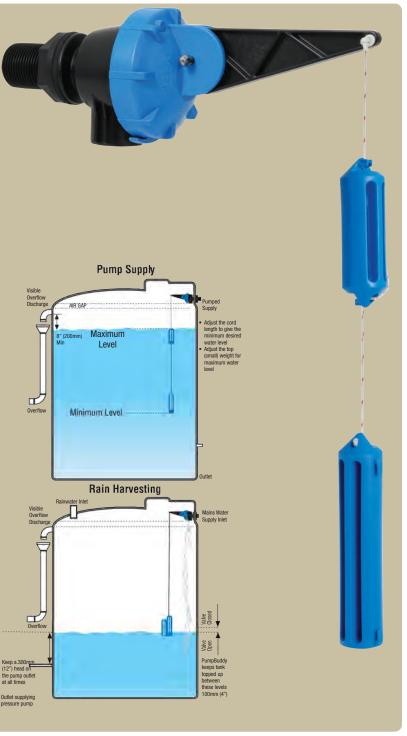
PBLT25 - 25mm (1" BSP)

RKPB - Repair Kit

PATENTS

- New Zealand Patent Application No. 535912
- Australian Class 11 Patent Application No. 1025211
- US Patent Application No. 11/604204
- RSA Patent Application No. 2006/09432





RESERVOIR VALVE

APPLICATION: LARGE STORAGE TANKS/RESERVOIRS

Large Acetyl sleeve valve. High volume flow valve for reservoirs and large header tanks (for pump fed tanks use BigBoy® or PumpBuddy® valves).

PRODUCT CODES:

RES 32 - 32mm (1 1/4" BSP) Single arm, dual float RES 40 - 40mm (1 1/2" BSP) Single arm, dual float RES 50 - 50mm (2" BSP) Single arm, dual float

Supplied with two 150mm (6") floats and a twin Float Connector.

WORKING PRESSURE: 0 - 850kPa (120psi) Flow Rates: 500L/min @ 400kPa (58psi) Maximum Water Temperature: 60°C (140°F) Minimum Water Temperature: 1°C (34°F)





















FULL FLOW

APPLICATION: LARGE TROUGHS, HIGH DEMAND

Compact armless diaphragm valve with full - flow high volume fill. The valve has a 30mm (1") water level differential between opening and closing, reducing pump motor overload.

Full-flow operation, the pump runs unrestricted until trough is full.

SPECIFICATIONS

Working Pressure: 30 - 1200kPa (4 - 175psi)

PRODUCT CODES:

Xtraflo XF20 - 20mm (3/4" BSP)

XF25 - 25mm (1" BSP) **XF32** - 32mm (1 ¹/₄" BSP)

Xtraflo Longtail XFLT20 - 20mm (3/4" BSP)

XFLT25 - 25mm (1" BSP)

Xtraflo Top Entry XFTE20 - 20mm (3/4" BSP)

XFTE25 - 25mm (1" BSP) **XFTE32** - 32mm (1 1/4" BSP)

Xtraflo Top Entry

Longtail XFLTTE20 - 20mm (3/4" BSP)

XFLTTE25 - 25mm (1" BSP) XFTEK - Top Entry Kit Only

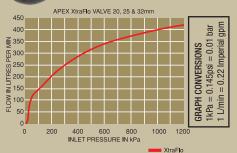
RKXF - Repair Kit

NOTE: Top entry may require protection from stock. **Maximum Water Temperature:** 60°C (140°F) **Minimum Water Temperature:** 1°C (34°F)

PATENTS

- New Zealand Patent No. 328862
- Australian Patent No. 736446
- RSA Patent No. 736446
- US Patent Pending





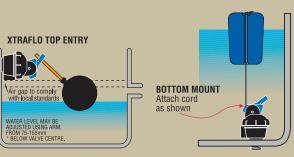


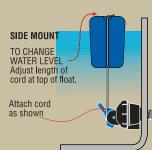
Apex Trough-Mate Slips comfortably over the top assembly of the XtraFlo® allowing easy dismantling of valve.





Only three internal moving parts (less parts = less problems)
Patented self-cleaning mechanism (to minimise blockages)
30mm (1") water level differential from open to closed (reducing electricity costs & increasing pump life)











Use 150mm float SPARE ARM CODE: P16 XS



LONGTAIL VERSION



APPLICATION: LARGE TROUGH, HIGH DEMAND

Full flow designed for fast filling large troughs.

Unique cam-lock compatible outlet allows for convenient water supply for many jobs around the farm!

BENEFITS

- ☑ Very high flow rate 500L/min @ 1200kPa (175psi)
- ☑ Two sizes in one valve 25/20mm (1" & 3/4")
- ☑ Cam-lock compatible outlet
- ✓ No tools required for servicing
- Plunger serviced without removing arm
- ☑ Shut off pin to close valve
- ✓ Includes cord and nipple
- ☑ Longtail version available

SPECIFICATIONS

Cam-lock Compatibility: Top entry troughs or minimum clearance from trough bottom 6" Uses 6" float

Working Pressure: 0 -1200kPa (0 - 175psi) Maximum Water Temperature: 60°C (140°F) Minimum Water Temperature: 1°C (34°F)

PRODUCT CODES

XS 25/20 - 25/20mm (1"/3/4" BSP) **XSLT 25/20** - 25/20mm (1"/3/4" BSP Longtail)

RKXS - Repair Kit





- New Zealand Pat No. 239796
- New Zealand Pat Des. App. No. 415938
- Australia Pat No. 653422
- Australia Des. No. 11/099/2012 & No. 11111/2012
- Patent Application No: 595205, 595420 & 599134

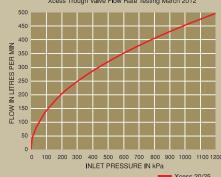
NOTE: Permission or consent may be required to irrigate from various water sources.











GRAPH CONVERSIONS

1kPa = 0.145psi = 0.01 bar 1 L/min = 0.22 Imperial gpm







Service without removing arm







ACETYL FULL FLOW

APPLICATION: MEDIUM TROUGHS

Economy Acetyl sleeve valve - full flow design for fast filling medium troughs.



FULL FLOW TROUGH VALVE: Includes cord and nipple and 25mm (1") bush.

Working Pressure: 0 - 1200kPa (175psi)

PRODUCT CODES (plastic cord):

AP 20/25 - 20/25mm (3/4" BSP with 1" bush)

APC LT20 - 20mm (3/4" BSP) longtail

APC LT25 - 25mm (1" BSP) longtail

RKAP - Repair Kit

Maximum Water Temperature: 60°C (140°F) **Minimum Water Temperature:** 1°C (34°F)



Use 150mm Float (6")



APPLICATION: MEDIUM TROUGHS

Robust Brass sleeve valve - full flow design for fast filling medium troughs.



FULL FLOW TROUGH VALVE: Includes cord and nipple

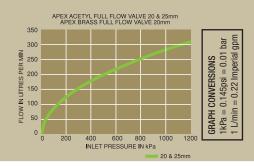
Working Pressure: 0 - 1200 kPa (175 psi)

PRODUCT CODE

ABC 20 - 20mm (3/4" BSP)

RKAB - Repair Kit

Maximum Water Temperature: 60°C (140°F) **Minimum Water Temperature:** 1°C (34°F)



APEX7220/25 BRASS FULL FLOW

APPLICATION: MEDIUM TROUGHS

Robust Brass sleeve valve - full flow design for fast filling medium troughs.



FULL FLOW TROUGH VALVE: Includes cord and nipple and 25mm (1") bush.

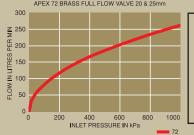
Working Pressure: 0 - 1000kPa (150psi)

PRODUCT CODE:

72 20/25 - 20/25mm (3/4" BSP with 1" bush)

RK 6972 - Repair Kit

Maximum Water Temperature: 60°C (140°F) **Minimum Water Temperature:** 1°C (34°F)



MEDIUM & SMALL TROUGH VALVES





APPLICATION: MEDIUM TROUGHS

Durable Brass, plunger activated valve for medium sized troughs. Has removable brass valve seat for lower pressures (stainless steel seat models also available).



With Seat Removed With Seat

TROUGH VALVE/REMOVABLE SEAT: Includes cord and nipple High Working Pressure with Seat: 0 - 1000kPa (150psi) Low Working Pressure without Seat: 0 - 700kPa (100psi)

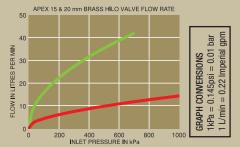
225 Brass: Includes cord and nipple

PRODUCT CODES:

225 15 (15mm, 1/2" BSP) 225 20 (20mm, 3/4" BSP)

Maximum Water Temperature: 60°C (140°F) Minimum Water Temperature: 1°C (34°F)

See page 14 for repair kit codes



220P **HIGH/LOW**

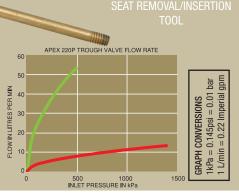
APPLICATION: MEDIUM TROUGHS

Economy Acetyl, plunger activated valve for medium sized troughs. Barbed outlet to fit silencer tube for cistern applications. Has removable valve seat for lower pressures.



220P 20 (20mm, 3/4" BSP) 220P 25 (25mm, 1" BSP) **Maximum Water Temperature:** 60°C (140°F) Minimum Water Temperature: 1°C (34°F)

See page 14 for repair kit codes



400 600 INLET PRESSURE IN kPa





PEX WATER LEVEL INDICATOR



APEX VisiBall

APPLICATION: WATER LEVEL INDICATOR

Highly visible water level indicator for large water tanks and

Innovative Uni-Ball Joint will suit any tank installation regardless of roof angle.

BENEFITS

- $\ oxdot$ Easy fit with only one 25mm hole to be drilled
- **☑** Designed to withstand the harshest weather conditions
- ☑ Easily adjusted using the patented Uni-Ball joint to all roof angles, for all tank types
- ☑ Made from the highest quality UV resistant materials
- **☑** 100% guaranteed
- ☑ Doesn't get stuck

SPECIFICATIONS

- Stainless steel tube 2m (6.5ft), bottom float 150mm (6"), top float 115mm (4")
- Maximum wind speed @ 2m(6.5ft): 120km/hr (75mph)
- Maximum wind speed @ 3m(10ft): 80km/hr (50mph)

PRODUCT CODES

PVSB EXT - VisiBall® extension tube

INSTALLATION

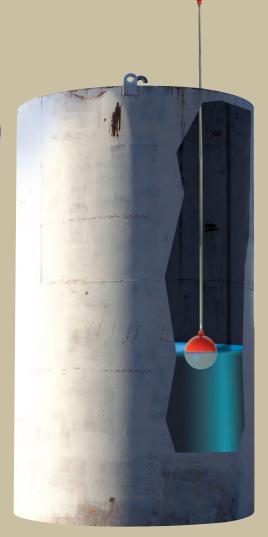
- Tube must be vertical
- Maximum height: 3m (10ft)

PATENTS

- New Zealand Patent Application No. 569558
- Australian Patent Application No. 2008207462
- RSA Patent Application No. 2008/07409















REPAIR KITS & SPARES



FLOATS



FLT SQBLU XTRAFLO FLOAT

FLOATS

FLT 115B (4" Black Ball Float) **FLT 150B** (6" Black Ball Float) FLT 1150 (4" Orange Ball Float) FLT 1500 (6" Orange Ball Float) FLT SQBLU (XtraFlo Replacement Float)

FLT SS (SpaceSaver Float)



FLT 1500 BALL FLOAT



FLT 115B BALL FLOAT

All UV Stabilised **ACETYL THREAD INSERT** 5/16" BSW THREAD MAXIMUM TEMPERATURE 60°C (140°F)



CORD AND NIPPLES SP82



FLT SS SPACESAVER FLOAT

REPAIR KITS

(For contents see apexvalves.co.nz/rural)

PRESLKA Res valve lever kit with arm

RK220P 220P repair kit

RK6972 69/72 trough valve repair kit

RKAP Apex plastic trough valve repair kit **RKHL** High low trough valve repair kit

RKPB PumpBuddy® repair kit RainAid® repair kit **RKRA RKRES** Res valve repair kit **RKSS** SpaceSaver repair kit **RKXS** Xcess repair kit XtraFlo® repair kit **RKXF**

ARMS & SPARES

P16 AP Arm AP/AB without cord/nipple

P16 APB Arm AP bottom entry

P16 XS Arm XS 25/20 (incl shut off pin)

P16 PHIL Arm Philmac **P16 SS** Arm SpaceSaver

P16 220 Arm Hi/Lo without cord and nipple

Arm 220P -159mm P16 220P

Arm 69 without cord/nipple P16 69 **SP84** Twin Float Connector

PBN15 Back nut 15mm (1/2") Back nut 20mm (3/4") PBN20 PBN25 Back nut 25mm (1")

PBNW15 Back nut washer 15mm (1/2") PBNW20 Back nut washer 20mm (3/4") PBNW25 Back nut washer 25mm (1")

SP82 Cord and nipple

SP92 Cotter pins, bag of 5 **PVSB EXT** VisiBall® extension tube



Two piece tool used to service the complete range of Apex trough valves.

PRODUCT CODE: ATM



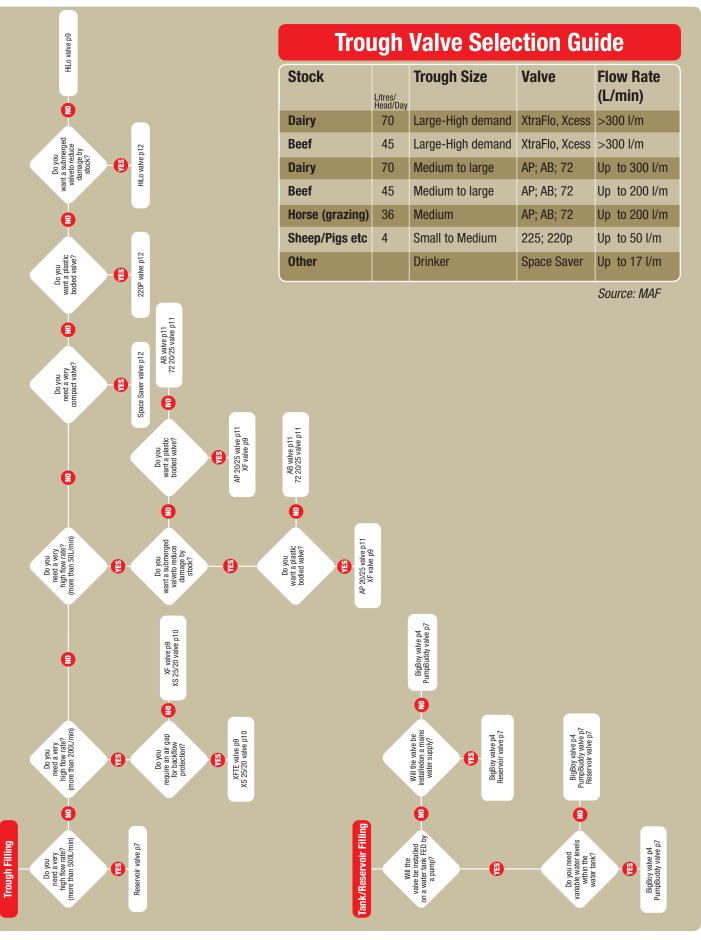






USAGE CHART





APEX VALVES 2 YEAR WARRANTY

Apex Valves warranty is limited to any fault found in a new valve due to poor workmanship or materials that is returned to Apex Valves

Limited within the warranty period (2 years).

The warranty does NOT apply if faults arise due to the following causes:

- 1. Faulty operation due to foreign matter in the water supply.
- 2. Installation of valves to impure or deleterious water supplies that contain excessive dissolved salt or chemicals.
- 3. Installation that does not comply with any other relevant approved Standard or Manufacturers instructions and recommendations.
- 4. Abuse of mutilation of a valve during installation or in an attempt to repair or replace the valve.
- 5. Installation of a valve in an application where its intended use is not that for which the valve was designed without the prior written consent of Apex Valves Limited.
- 6. Failure due to a lack of maintenance.

Apex Valves Limited shall in no way be liable for any loss, damage (direct, indirect or consequential), cost or expense incurred.

Apex Valves Limited reserves the right at any time to modify any valve specifications.

The 2 year warranty is valid from the date of manufacture.

MANUFACTURER:



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Email: sales@apexvalves.co.nz Website: apexvalves.co.nz



