# TOPAZ DIFFERENTIAL

### PRODUCT INFO









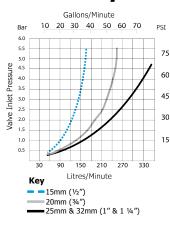
Topaz Differential valves are ideal for use in water tanks which are filled by a pressure system controlled water pump. The valve gives a level difference which is adjustable from 50mm up to 2.5m to minimise starting and stopping of the pumping system.

### **Applications**

Maintaining Water Levels in:

- · Water Storage Tanks
- Water Cisterns
- · Irrigation Applications

#### Flow Graph





#### **Principle of Operation**

- The valve mounts at the top of the tank.
  It fits easily through a thin walled tank or screws into a threaded tank inlet.
- As the tank empties the weighted float travels down the cord until it hits the bottom stop. The valve then opens immediately to give a full flow.
- The valve now runs constantly and the weighted float rises until it hits the upper float stop. This lifts the arm and the valve shuts down.
- Observe the pressure that your pump runs at while the tank is filling. Set the pressure switch to turn the pump off at a pressure at least one bar above the running pressure.

#### **Pressure Range**

1 Bar – 10 Bar (15psi-150 psi)

#### Features

- High flow
- Start and stop levels can be easily adjusted to give water level differentials from 50mm to 2.5 m
- Keeps pump operation to a mininum.
- Detach<sup>™</sup> Valve Seal Access System for quick access to valve seal (Patented)
- Ideal for all makes and models of tanks.

#### **Available Inlet Sizes**

15mm (1/2") 20mm (3/4") 25mm (1") 32mm (1 ¼")

All supplied in Detach long tail thread with back nut

### Typical Installation **Topaz Differential Operating Zone Topaz Differential Filling Zone** Mains or pump Mains or pump supplied water supplied water Adjustable Upper Off Float Stop Adjustable Differential Weighted Float On Weighted Tube Stop Outlet Outlet

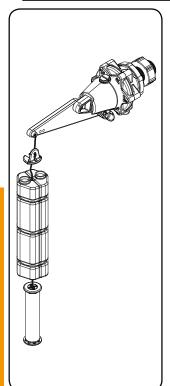
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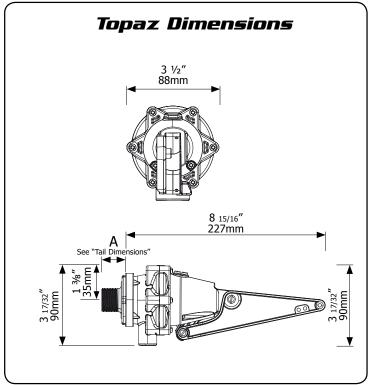
# **DIMENSIONS & MATERIALS**

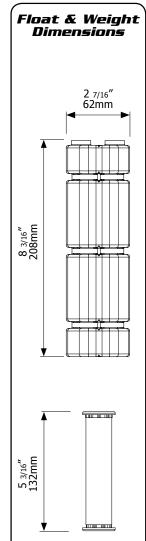




# Differential







Tail Dime	nsions	
Dimension A	mm	inches
15mm (1/2") Long Tail 20mm (3/4") Long Tail 25mm (1") Long Tail 32mm (1 1/4") Long Tail	100 46 62 67	3 15/16 1 13/16 2 7/16 2 21/32

Part	Material	Part	Material
Valve Body	Glass Filled Nylon	O'Rings	Nitrile
Yellow & White Internal Parts	Acetal	Float	HDPE
internai Parts Filter	PP/Nylon	Float Cord	Polyester
Diaphragm	EPDM	Actuator / Arms & Caps	AB5
Seal Seal	TPU		
Springs, Bolts, Nuts, Pin, Screws	304 Stainless Steel		

Maximum Operating Temperature

60°C, 140°F

NB: High Temperature models on request.

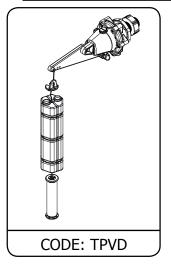
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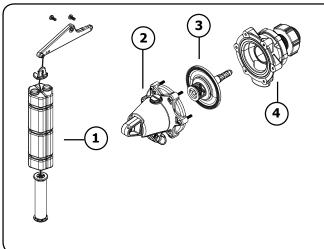
## PARTS IDENTIFICATION SHEET



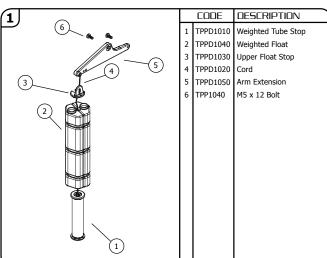


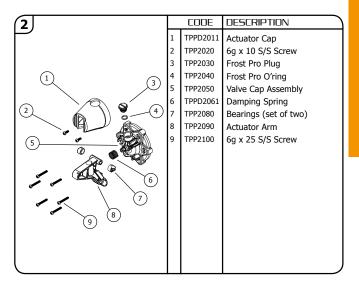
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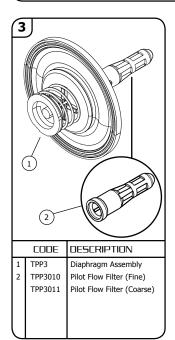


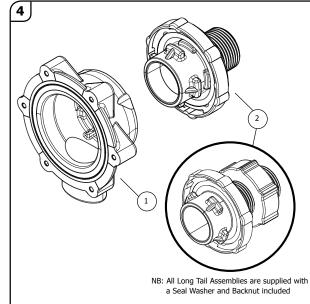


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	CODE	DESCRIPTION
1	TPPD1	Float, Arm & Weight Assembly
2	TPPD2	Cap & Actuator Assembly
3	TPP3	Diaphragm Assembly
4		Detach Base Assembly









I	CODE		DESCRIPTION
Ŀ	1	DTP1	Detach Base
1	2		BSP Tails
ı			Short Tail Assembly (BSP)
l		DTP020	Detach Tail 20mm(3/4") Short
l		DTP025	Detach Tail 25mm(1") Short
l		DTP032	Detach Tail 32mm(1 1/4") Short
l			Long Tail Assembly (BSP)
l		DTP015L	Detach Tail 15mm (1/2") Long
l		DTP020L	Detach Tail 20mm (3/4") Long
l		DTP025L	Detach Tail 25mm (1" bsp) Long
l		DTP032L	Detach Tail 32mm (1 1/4" bsp) Long
l			
l			NPT Tails
l			Short Tail Assembly (NPT)
l		DTP0075	Detach Tail 3/4" npt
l		DTP0100	Detach Tail 1" npt
l		DTP0125	Detach Tail 1 1/4" npt
l			Long Tail Assembly (NPT)
l		DTP0050L	Detach Tail 1/2" npt Long
l		DTP0075L	Detach Tail 3/4" npt Long
l		DTP0100L	Detach Tail 1" npt Long
l		DTP0125L	Detach Tail 1 1/4" npt Long
l			