OPAZ DIFFERENTIA

PRODUCT INFO



Differential





Description

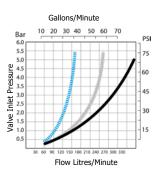
Topaz Differential valves are ideal for use in water tanks which are filled by a pressure system controlled water pump. The valve gives a level difference which is adjustable from 50mm up to 2.5m to minimise starting and stopping of the pumping system.

Applications

Maintaining Water Levels in:

- Water Storage Tanks
- Water Cisterns
- · Irrigation Applications

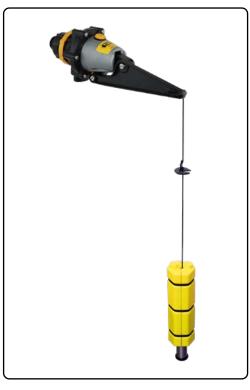
Flow Graph



Key

=15mm (1/2")

= 20mm (¾") = 25mm & 32mm (1" & 1 ¼")



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™ 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 1/4")

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

TOPAZ DIFFERENTIAL

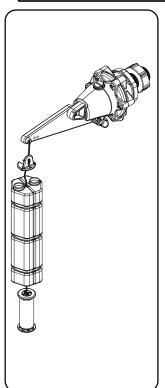
DIMENSIONS & MATERIALS

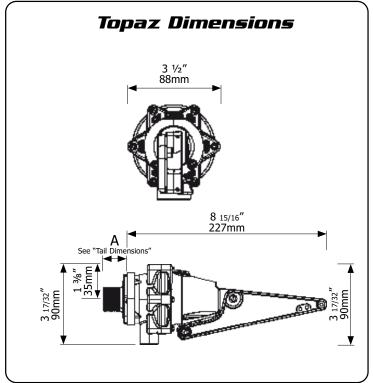


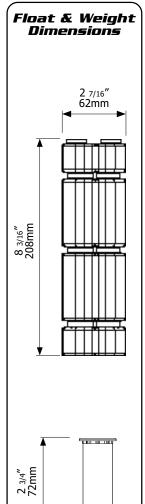


Differential









Tail Dimensions					
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
Filter	PP/Nylon	Float Cord	Polyester
Diaphragm	EPDM	Actuator / Arms & Caps	AB 5
Seal .	TPU		
prings, Bolts, Nuts, Pin, Screws	304 Stainless Steel		

Maximum Operating Temperature

60°C, 140°F

NB: High Temperature models on request.

TOPAZ DIFFERENTIAL

PARTS IDENTIFICATION SHEET





Differential



CODE DESCRIPTION

Float, Arm & Weight Assembly

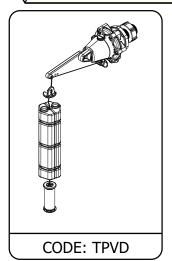
Cap & Actuator Assembly

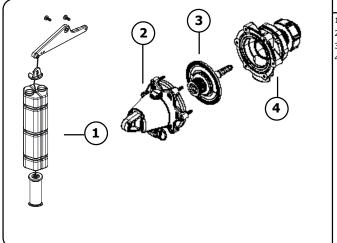
Diaphragm Assembly
Detach Base Assembly

TPPD1

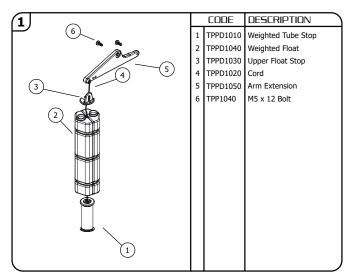
TPPD2

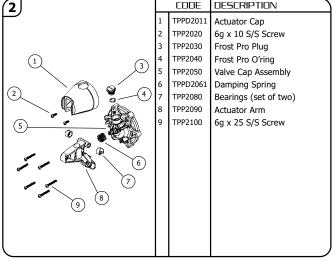
TPP3

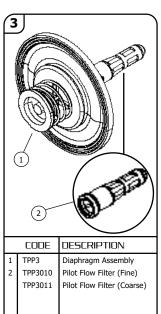


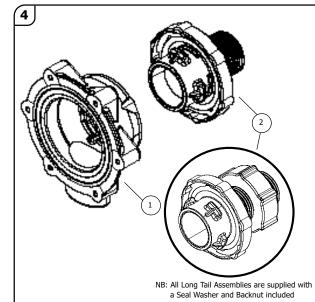


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(2)	Π	CODE	DESCRIPTION
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CODE	DESCRIPTION	
DTP1	Detach Base	
	BSP Tails	
	Short Tail Assembly (BSP)	
DTP020	Detach Tail 20mm(3/4") Short	
DTP025	Detach Tail 25mm(1") Short	
DTP032	Detach Tail 32mm(1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