





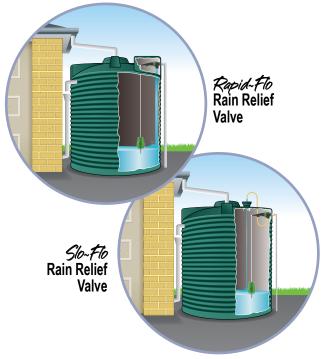
Difference Between Rapid-Flo & Slo-Flo Rain Relief Valves

The Rapid-Flo Valve functions at unrestricted full flow as indicated in the flow chart below. The Slo-Flo Valve is restricted to 2 litres/min.

If the tanks rain water drops below where the green float is set to, the valve opens to supplement the tanks water from an alternative source such as the mains water supply. However it will only increase the water level by either 50mm or 100mm depending on the setting.

Rapid-Flo and Slo-Flo Rain Relief Valve Features and Benefits

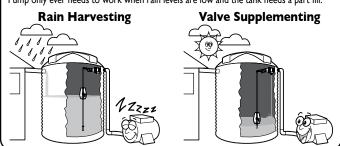
- Maintains a minimum water level in rainwater tanks
- Suitable for high/low pressures (0.2 Bar 12 Bar)
- Max pressure @ 20°C = 12 Bar / 174 PSI
- Patent pending "self cleaning pilot" for use in clean/ dirty water conditions
- Soft open and close action preventing valve bounce and water hammer
- Strong compact design
- Manufactured from strong, non corrosive UV stabilised materials

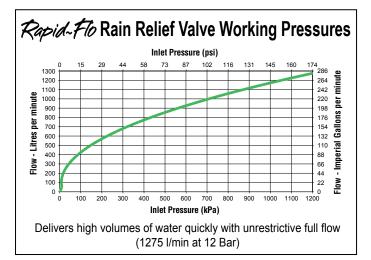


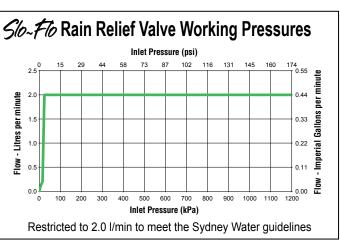
Note: Strainer and Gooseneck not included

Rain Harvest & Only Pump When You Need To

The Hansen Rapid-Flo & Slo-Flo valves are the perfect choice for systems that combine Rain Harvesting with Supplementary Pumping from alternative sources. The Pump only ever needs to work when rain levels are low and the tank needs a part fill.

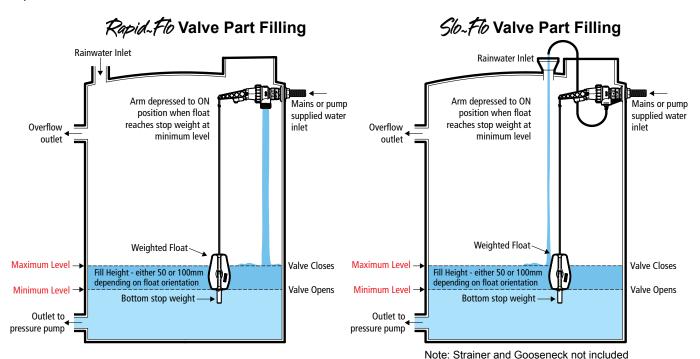








Rapid-Flo and Slo-Flo Rain Relief Valve Operating Principle & Float Orientation



The minimum level is set by adjusting the length of the cord between the valve arm and the stop weight at the bottom of the cord.

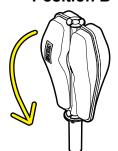
The maximum top up water level is set by the float orientation.

This is the Float in Position A



Position A = 50mm fill

This is the Float in Position B



Position B = 100mm fill

Rapid-Flo and Slo-Flo Rain Relief Valve Installation

- 1 Install Adapter into water tank / reservoir as per Hansen tank fitting installations steps Section Twelve Page 2.
- 2 Flush lines into water tank / reservoir before installing Rapidflo Rain Relief Valve.
- 3 Thread O-Ring end of correct size Adapter into Rapidflo Rain Relief Valve body.
- 4 Thread Rapidflo Rain Relief Valve onto Adapter inside tank, making sure it is vertical and then tighten up the nut on the Adapter.
- 5 String the cord through the float. Note: the float orientation determines the maximum top up water level.
- 6 Tie the cord to the bottom end of the Rapidflo Rain Relief Arm with the Weight at the required minimum water level. Note: the minimum water level must be above the tank outlet.
- **7** Check and ensure the valve is not locked in the Off position.



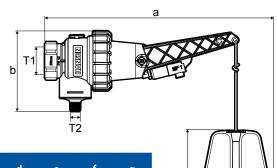
CHEMICAL TYPE	RESISTANCE LEVEL					
	Good	OK But Check Further	BAD Try to Avoid			
Drinking Water	Х					
Sea Water	χ					
Bloat Remedies Diluted		Х				
CHEMICAL TYPE		RESISTANCE LEVEL				
Acids Weak			X			
Acids Strong			X			
Organic Acids Weak		Х				
Organic Acids Strong			Х			
Bases Weak	χ					
Bases Strong			Х			
Bleach			X			
CHEMICAL TYPE		RESISTANCE LEVEL				
Automotive Fuel			X			
Automotive Lubricants			Χ			
Hydraulic Fluids			X			
CHEMICAL TYPE		RESISTANCE LEVEL				
Solvents			Х			
Hydrocarbons			Χ			
Halogens			Х			
Alcohols			X			
Aldehydes			χ			
Amines			X			
Esters			X			
Ethers			X			
Ketones			X			
CHEMICAL TYPE	RESISTANCE LEVEL					
Detergents	Х					
Oxidising Agents			X			
Weak Hydrogen Peroxide			χ			
Ozone			Х			
Phenols			Х			
CHEMICAL TYPE	RESISTANCE LEVEL					
Calcium Chloride			Х			

Rapid-Flo and Slo-Flo Rain Relief Valve Chemical Resistance Chart

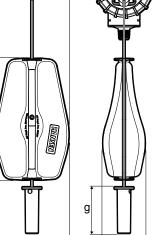
PLEASE NOTE: This chart is intended as a basic guide only. The resistance to a given chemical will vary with temperature & concentrations. Some chemicals within the group mentioned may result in different rating. For further information, please email us with your specific question.







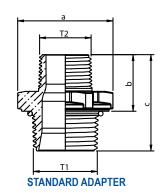
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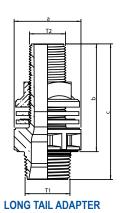


Valve	T1 BSPT (DN)	T2 BSPT	a mm	b mm	c mm	d mm	e mm	f mm	g mm
Slo~Flo	1" (25mm)	1/4" (8mm)	297	99	78	158	96	55	60
Rapid~Flo	1" (25mm)	1 1/4" (32mm)	297	105	78	158	96	55	60

Adapter Dimensions

Product	T1 BSPT			b mm	c mm			
STANDARD ADAPTERS								
15mm Adapter BSPT	1" (25mm)	1/2" (15mm)	48	34	54			
20mm Adapter BSPT	1" (25mm)	3/4" (20mm)	48	35	55			
25mm Adapter BSPT	1" (25mm)	1" (25mm)	48	38	58			
32mm Adapter BSPT	1" (25mm)	m) 1 1/4" (32mm)		32	52			
40mm Adapter BSPT	1" (25mm)	1 1/2" (40mm)	49	39	59			
50mm Adapter BSPT	1" (25mm)	2" (50mm)	61	44	64			
LONG TAIL ADAPTERS								
15mm Adapter BSPT	1" (25mm)	1/2" (15mm)	48	73	93			
20mm Adapter BSPT	1" (25mm)	3/4" (20mm)	48	78	98			
25mm Adapter BSPT	1" (25mm)	1" (25mm)	54	78	98			
32mm Adapter BSPT	1" (25mm)	1 1/4" (32mm)	64	86	106			
40mm Adapter BSPT	1" (25mm)	1 ½" (40mm)	73	97	117			
50mm Adapter BSPT	1" (25mm)	2" (50mm)	86	104	124			





Wall Thickness Guide

Long Tail Adapter	HMAL15	HMAL20	HMAL25	HMAL32	HMAL40	HMAL50
Tank Wall	14mm	22mm	19mm	24mm	24mm	24mm

Hansen Long Tail Adapters Maximum Wall Thickness for Tanks when screwed into a Hansen Female Bend

Rapid-Flo and Slo-Flo Rain Relief Valve Materials

- Diaphragm Valve Body Glass Fibre Reinforced Nylon
- Diaphragm Nitrile Rubber
- Guide Bush Nylon
- Guide Tube Acetal
- Springs Stainless Steel
- Split Pin Stainless Steel
- Valve Body Cap Acetal
- Guide Pin Stainless Steel
- Valve Body Cap Nut Glass Fibre Reinforced Nylon
- Pilot Seal Nitrile Rubber
- Float Arm Glass Fibre Reinforced Nylon
- Housing Glass Fibre Reinforced Nylon
- Roller Acetal
- Plunger Housing Acetal
- Locking Plunger Acetal
- Pivot Tube Acetal
- Cord Polyester
- Float Polypropylene

- Weight Stainless Steel
- Weight Carrier Glass Fibre Reinforced Nylon

SLO-FLO ONLÝ

- Adapter Glass Fibre Reinforced Nylon
- Adapter O-Ring EPDM (Ethylene Propylene)
- Stroke Limiter Acetal
- Flow Restricter Acetal & Silicone



Rapid-Flo and Slo-Flo Rain Relief Valve Frequently Asked Questions

Q What is the difference between the Rain Relief Valve and the Leveller Valve?

A The Leveller Valve opens when a pre-defined minimum water level is reached and will fill your entire tank. The Rain Relief Valve will only supplement your tank with either 50mm or 100mm of water, depending on the float orientation. So if it rains shortly afterwards you can continue rain harvesting.

Q What is the difference between the *Slo-Flo* Rain Relief Valve and the *Rapid-Flo* Rain Relief Valve?

A The Rapid-Flo and Slo-Flo Rain Relief Valves are essentially the same valve. The key difference between them is the Rapid-Flo valve is capable of functioning at full flow rate where as the Slo-Flo valve is restricted to 2 I/min to conform to the Sydney Water guidelines.

Q My rain water supply can get very dirty at times. Can the Rain Relief Valve cope with dirty water?

A Yes, both the *Slo-Flo* and *Rapid-Flo* Rain Relief Valves are designed to handle dirty water.