

Email: info@hansenproducts.com Website: www.hansenproducts.com

Super-Flo Technical Information

Super-Flo Features and Benefits

- High Performance and Cost Effective Trough Valve (29 PSI, 188 l/min)
- Each valve will fit multiple thread and connection combinations
- Strong Compact Design
- Delivers high volumes of water quickly with unrestricted full flow
- Patent pending* "Slipper Fit Piston" design to reduce valve sticking
- Low operating pressure required reducing pumping costs and increasing flow
- Mini body design to enable easy installation

- Manufactured from strong, non corrosive UV Stabilised materials
- Available in Female and Male BSPT, NPT, ACME thread configurations
- Suitable for High/Low Pressure operations (from 0 bar to 12 bar)
- Variable open and close action preventing valve bounce and water hammer
- Super~Flo Piston Valve is supplied with: Acetal or Brass Valve Body, Glass Fibre Reinforced Nylon Threaded Adaptors, Brass Arm and Cord and Nuts

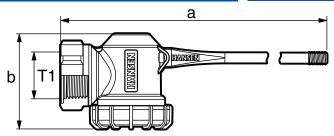
NB Adaptor configurations vary per pack

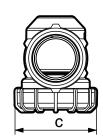
This product is protected by intellectual property rights owned by the Hansen group of companies in NZ and pending in other countries, including NZ patent applications 585472/585246 and NZ registered design 413594.

Super-Flo Dimensions

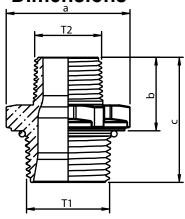
LONG BRASS ARM						
Product Code Acetal Valve	Product Code Brass Valve	T1 BSPT (DN)	a mm Acetal Valve	b mm Brass Valve	b mm	c mm
HSFPV2520	HSFPV2520B	1" (25mm)	376	371	69	58
HSFPV2015	HSFPV2015B	3/4" (20mm)	376	371	69	58
HSFPV2520L	HSFPV2520BL	1" (25mm)	376	371	69	58
HSFPV2015L	HSFPV2015BL	3/4" (20mm	376	371	69	58

SHORT BRASS ARM						
Product Code Acetal Valve	Product Code Brass Valve	T1 BSPT (DN)	a mm Acetal Valve	b mm Brass Valve	b mm	c mm
HSFPV2520LS	HSFPV2520BLS	1" (25mm)	250	245	69	58
HSFPV2015LS	HSFPV2015BLS	3/4" (20mm)	250	245	69	58
HSFPV2520S	HSFPV2520BS	1" (25mm)	250	245	69	58
HSFPV2015S	HSFPV2015BS	3/4" (20mm)	250	245	69	58





Adaptor Dimensions



Product	T1 BSPT	T2 BSPT	a mm	b mm	c mm	
	SHORT TAIL ADAPTORS					
15mm Adaptor BSPT	1" (25mm)	1/2" (15mm)	48	21.5	47	
20mm Adaptor BSPT	1" (25mm)	3/4" (20mm)	48	28.5	48.5	
25mm Adaptor BSPT	1" (25mm)	1" (25mm)	48	31.5	51.5	
32mm Adaptor BSPT	1" (25mm)	1 1/4" (32mm)	48	31.5	51.8	
40mm Adaptor BSPT	1" (25mm)	1 1/2" (40mm)	49	38.5	58.5	
50mm Adaptor BSPT	1" (25mm)	2" (50mm)	60.5	44	64	
LONG TAIL ADAPTORS						
15mm Adaptor BSPT	1" (25mm)	1/2" (15mm)	48	72	92.7	
20mm Adaptor BSPT	1" (25mm)	3/4" (20mm)	48	77.5	97.5	
25mm Adaptor BSPT	1" (25mm)	1" (25mm)	54	77.5	97.5	
32mm Adaptor BSPT	1" (25mm)	1 1/4" (32mm)	64	85.5	105.5	

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Super-Flo Parts and Materials

The Super-Flo Piston Valve is manufactured from Potable Water approved materials

- Super-Flo Piston Valve Body Acetal or Brass
- Split Pin Stainless Steel
- Slipper Fit Piston Acetal
- Piston O-Ring Potable Water Approved
- Valve Body Washer Seal Thermoplastic Polyurethane Elastomer
- Valve Body Cap Nut Glass Fibre Reinforced Nylon
- Brass Arm
- Cord Nuts Glass Fibre Reinforced Nylon
- Cord Polyester

Adaptors

- Adaptor Glass Fibre Reinforced Nylon
- Adaptor O-Ring Portable Water Approved

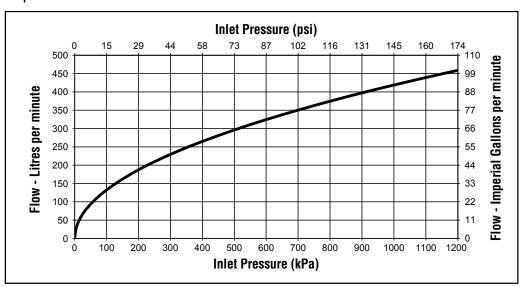
Float

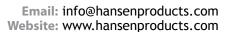
- Float High Density Polyethylene
- Thread Insert Glass Fibre Reinforced Nylon

Super-Flo Working Pressures

The Hansen Super Flo Valve will operate from 0.2 Bar to 12 Bar

Super-Flo Acetal Valve Flow Chart







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

Super-Flo Acetal 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.

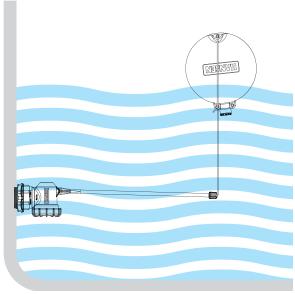


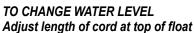
Super-Flo Installation Guide

Trough Installation:

- Flush pipe lines into water troughs before installing Super-FloValve into new system
- Isolate the water trough to replace valve in existing scheme
- Thread O-Ring end of correct size adaptor into valve body

Super-Flo Side Entry

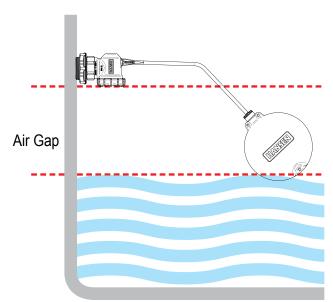




Side Entry Trough:

- Thread Super Flo Valve into existing trough fitting
- Screw the nut with cord onto the Super-Flo Brass arm
- Thread cord through the Super-Flo float. Tie the cord off to achieve the correct on/off and water level

Super-Flo Top Entry



Top Entry Trough:

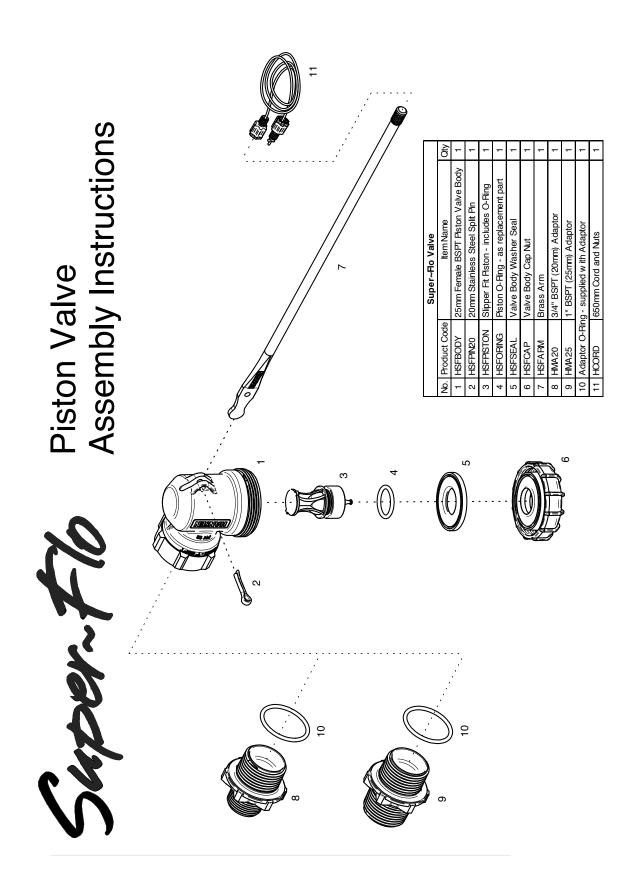
- Thread Super-Flo Valve into existing trough fitting
- Screw the float on to the brass arm
- Hold the body of the valve at arm entry point
- Bend brass arm to achieve the correct on/off and water level.

Wall Thickness Guide

Hansen Long Adaptors Maximum Wall Thickness for Troughs when screwed into a Hansen Female Bend

Adaptor	Trough Wall
HMAL15	14mm
HMAL20	22mm
HMAL25	19mm
HMAL32	24mm





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Super-Flo Frequently Asked Questions

- Q My troughs have both 20mm & 25mm threaded inlets, does your Hansen Super Flo Valve come in both sizes?
- A Yes the Hansen Super Flo Valve comes with the required components to install in 20mm or 25mm threaded inlets. This of course means you only have to buy one valve for all sized inlets.
- Q Will the higher flow cost me more to run my pump?
- A No, because the Hansen Supar Flo Valve is more efficient than what you are used to. The reduced operating pressure required will equate to higher flows at lower pressures at your pump which in turn will reduce pumping time and cost.
- Q At present I get valve bounce in my troughs, will your valve stop this?
- A Yes, valve bounce is created from high flows at high pressures, because our Hansen Super Flo Valve delivers higher flows than other valves it will effectively reduce line pressure which in return will reduce the incidences of this problem by also reducing water hammer.

- Q I have problems with having to forever clean my valves as my water supply can get dirty at times, how will the Hansen Super-Flo Valve handle these conditions?
- A We have designed the Hansen Super-Flo Valve to work in either clean or dirty water situations.
- Q What pressure can I run my Hansen Super-Flo Valve at?
- A The Hansen Super Flo Valve will operate from 0.2bar to 12bar.
- Q The valves I have at present have a tendency to jam open or closed costing me time and either a bog around my trough or no available water for my stock, will your valve stop this problem?
- A Yes the Hansen Super Flo Valve has a new patent pending "Slipper Fit Piston" design seal assembly to minimise this problem.