

3PC True Bore Extended Tube & Clamp Ends

High Purity Series

Clamp End



Extended Tube End



DESIGN FEATURES

- Stayflow's Sanitary Ball Valves offers a high finish in both its standard surface of Ra 25-30. Optional finer Ra and Electropolish finish available thru 8-12 Ra.
- True Bore Port Design eliminates pooling traces of media and improves flow characteristics for greater efficiency
- Full body cavity fillers available to reduce the possibility of contamination by entrapment of process fluids in the void normally found between the ball and valve body in conventionally designed ball valves. Cavity fillers are a major plus in applications where cross contamination is a concern
- C.I.P. valves clean-in-place
- All valve ends incorporate a special boss for welding purge port connections
- Extended tube ends are suitable for in-line Automatic Orbital Welding without disassembly
- Safety lock handle Prevents accidental movement of valve handles

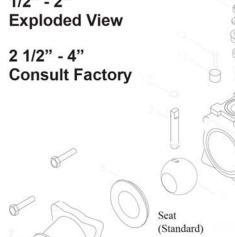
Same Proven Design as Our Industrial Valves, but designed specifically for the Sanitary Market



Bill of Materials

4		SS304
		PTFE/TFM
11.		
	THIN NUT	
		SS304

1/2" - 2" **Exploded View**



(optional) Models/Standard Offering S350-SL-TTT-L Tri-Clamp End S370-SL-TTT-L Extended Tube OD

MAWP/WOG is a do-not exceed pressure at normal ambient Npt & Weld End Models

Pressure Ratings

Valve Body: 1000psi MAWP/WOG Steam Rating: 150psi WSP Vacuum Rating: 20 micron

Specifications

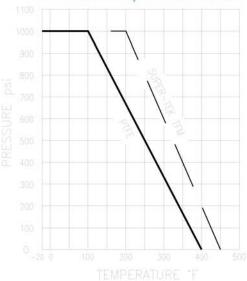
Valve bodies and end connections are high quality investment cast and solution annealed. Body shell wall thickness complies with ASME B16.34.

BPEa compliant with < 3% ferrite and 0.005 to 0.007 sulfur content in the extended tube ends for orbital welding, consult factory.

Valve stems are blow-out proof for maximum safety and comply with ASME B16.34.

All standard materials of construction comply with FDA requirements and all soft goods meet USP Class IV standards.

Pressure/Temperature Chart



Body & Trim Materials

The valve body and ends are castings made from 316L grade stainless steel conforming to ASTM A351 CF3M which improves the resistance to intergranular corrosion caused by welding. Welded end castings have low sulphur content of 0.005-0.017%. The ball & stem are from stainless steel conforming to SS316L. A lower cost version 316/CF8M center body with SS316L end connections is also available.

Valve Seat Options

(T) PTFE is the material of choice where the characteristics of low friction, high durability. excellent thermal resistance or chemical inertness are required. Recommended for water, foodstuff & corrosive chemicals.

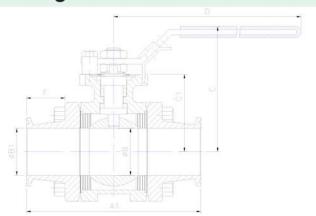
(F) TFM offers all of the properties of reinforced PTFE with greater strength, toughness & improved thermo-mechanical properties, offering lower coefficient of friction for lower torques & less permeability, reduced cold flow deformation & enhanced deformation recovery.

(C) Cavity Filler Seats are available for all valves. It eliminates most crevices, gaps & pockets between the ball & valve body, reduces the risk of

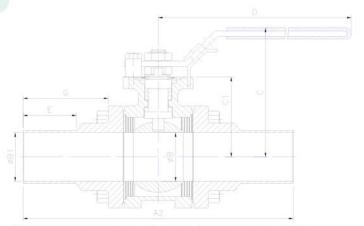
contaminants being trapped or solidification of product.



Design and Technical Data



TRI-CLAMP END MODEL S350



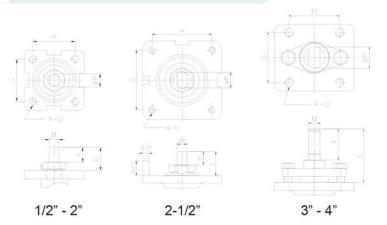
EXTENDED TUBE O.D. B/W END MODEL S370

Dimensions

SIZE	SIZE A1	A2	AO II	B BI C CI D E F	71	m m	70	VE.	16	.6	Cv	Torque	Weight	
in our														
1/2" 15						1.54 39			0.94 24					
3/4" 20	4.11 104.0					1.54				2.14 84 K				4
) ** 91	4.48 113.8							1.50 38.1			65	120 13.6		
1 1/2"														
2"		8.50 715.0	1.870	1.870									10 4.5	
2 1/2"					5.04									
3** 80					6.42		15.4							
4" 100		12.5 317.5		3.834 97.4	7.09 18001	4.35	15.4		1.25 31.7					61

Valve end connections are interchangeable within the multi choice sanitary valve series

Mounting Dimensions



	1.17	1,17	0.31	0.55	0.250 E.Jo	0.375	#10-24UNC	F04
3/4"							#10-24UNC	
I.							#10-24UNC	
1.1/2"								
2"					0.374			
2 1/2"	2.84				0.472			
3"		2,84						
à" Im	2.84							



Stayflow's High Purity Series is the Flo-Tite line of clean ball valves for the Food, Pharmaceutical and Bioprocessing Industries. The valves are designed for applications which require high flow capacity at minimum pressure drop, where sterility, cleanability and drainability are essential for product quality and perfection. The sanitary valve port matches tube ID dimensions, provides tight shutoff and has exceptional performance in many service applications.

Stayflow 3 PC VALVES are designed for easy removal from the pipeline so that all valve components can be easily and quickly cleaned. All valve hardware is Stainless Steel Type 304 as standard.

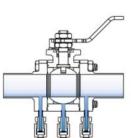
Fugitive Emission

In applications where it is essential to eliminate escape of volatile organic compounds (VOC) into the atmosphere, a Fugitive Emission kit can be mounted directly onto the ISO platform of the valves. The kits are available for all sizes and can be operated manually or with an actuator. Each housing has a threaded port for connecting tubing or instrumentation for registering potentiial leaks.



Purge Ports

Valve bodies and ends may be supplied with additional purge ports to allow draining of the body cavity or for flushing the lines. This enables in-line maintenance for clean in place (CIP) or



steam in place (SIP) where traces of product and containminants must be effectively removed from all pockets.

Assembly and Packaging

Stayflow operates a fully equipped cleanroom for the assembly of valves. All valves are cleaned, dried, assembled, 100% leak tested, inspected and finally, if required, packaged in a hermetically sealed bag filled with dry nitrogen. Each valve is individually tagged for traceability and material certification will be provided on request.

Surface Finishes

All surfaces which come directly or indirectly in contact with the product are machined to 0.625 micron (25 micro inch Ra, Grit 180). Mechanically polished to higher levels of surface finish up to 0.25 micron (10 micro inch Ra, Grit 320) are available including internal or external Electropolishing.

			MECHANICALLY POLISHED						
FLOTITE	ASME	PDIT	Ro A	verage	Ro Max				
			µ-in	µ-m	//-in	j.u-m			



		MECHANICALLY AND ELECTROPOLISHED					
FLOTITE	ASME	Ro A					
		j.l-jrj	1,1-11	14-in	/.t-m		
		10					
	SFV 6						

- Electropolished valves are solution cleaned and bagged as standard
- All materials of construction comply with FDA Requirements
- · Material test reports available
- Pressure rating 1000 MAWP/WOG clamps & gaskets can lower body pressure rating - C/F
- For additional technical information seeTech Bulletin page 45.

Steam Rating 150 PSI WSP 250 PSI available with Super-Tek II seats.

ISO 5211 ASME BPEa

Vacuum Service to 20 microns

MSS - SP25

Standards

ANSI B16.34



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