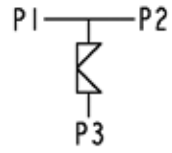
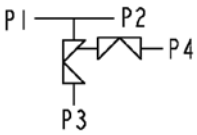
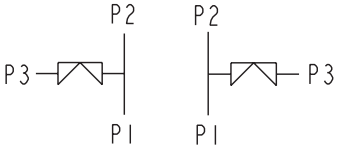
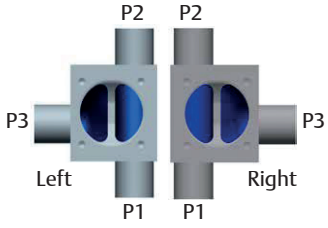
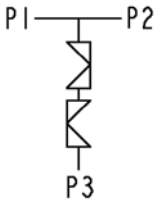
ASCO™ ASEPTIC VALVES
ZERO STATIC USE POINTS

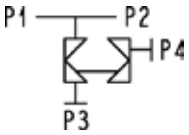
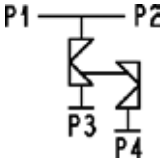
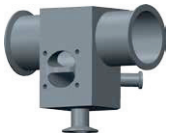
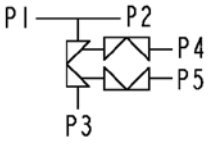
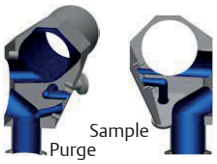
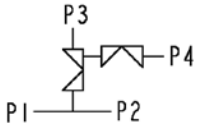
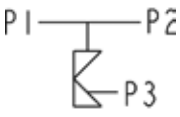
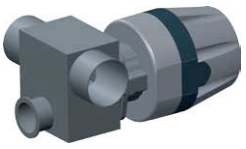
SERIES
224

Features

Zero Static use points are some of the most critical valves utilized in the Biopharmaceutical industry.

Use point valves allow process fluids to be transferred, sampled, drained or diverted with minimal impact on critical systems.

Description	P&ID	Illustration
Zero Static Tee (ZSBT)		
• Reduce dead legs. • Minimize the potential for contamination. • Main applications: WFI, purified water.		 Flow Path 
Zero Static Back to Back Sample (ZSBBS)		
• A modification of the zero static tee. • A second valve located at the back of the block provides access to a sample port. • Use to take samples. • Reduce contact surface and deadlegs.		 Flow Path 
Zero Static with vertical run (ZSBV)		
• Standard zero static valves are limited to horizontal main run by vertical outlet orientations. The ZSBV allows drainability with the main run in vertical orientation. • Minimize the potential for contamination. • Main applications: Sampling and diverting.		 Flow Path 
Zero Static Dual Inline (ZDI)		
• Designed specifically to allow for maintenance of two use points with minimum downtime. • Main applications: where the loop service intervals need to be maximized.		 Flow Path 

Description	P&ID	Illustration
Zero Static with Downstream Purge (ZDPT/ZDPB)		
• An integral valve located at the back of the valve assembly provides access to a purge port down stream. • ZDPT and ZDPB are an essential element of piping systems required to meet ASME BPE standard. • Main applications: CIP, SIP.	ZDPT  ZDPB 	Flow Path ZDPT   Flow Path ZDPB  
Zero Static with Upstream Sample and Downstream Purge (ZUD)		
• Allows for point of use sampling of the upstream flow, purging and sterilization of the downstream process and sampling from the same Zero Static valve. • Main applications: Single use point with multiple outlet, purging and steam sterilization of the downstream line, sampling of the upstream line.		Flow Path  
Zero Static Inverted with Drain (ZID)		
• Integrate the benefits of a zero static for low point feed or return lines while allowing for cleaning, sterilization and draining of the connectd process piping. • Main applications: for line feed applications that require the ability to drain the up stream line.		 Flow Path 
Zero Static Block body with Back Outlet Option (ZSBT-BO)		
• Instead of the standard Zero static Tee, the outlet is at the back of the block. • Minimized the vertical space required. • Reduce the space necessary when piping would require a 90° elbow the change the direction. • Main applications: low clearance areas below WFI and process vessels, skid process systems such as CIP.		 Flow Path