

### Features

Divert valves are instrumental in achieving efficient, cost effective piping design. They allow process fluids to be diverted, mixed, and/or sampled.

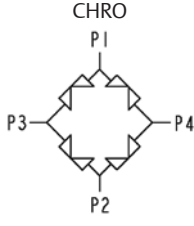
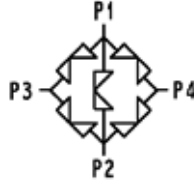

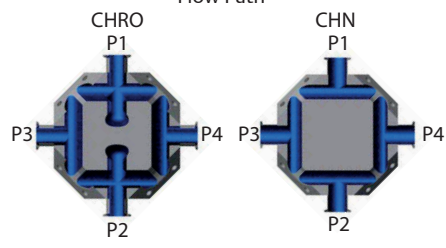
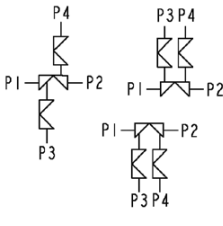

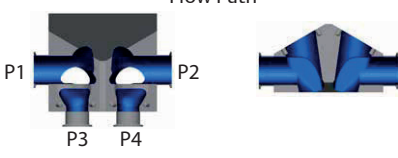
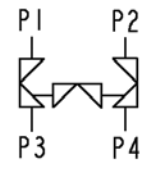
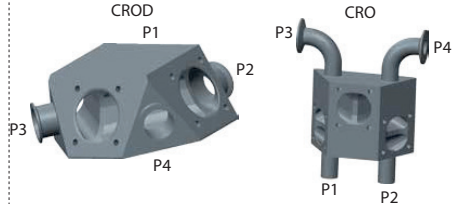
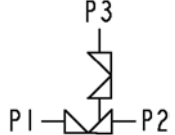
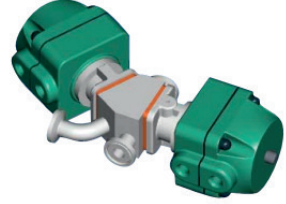
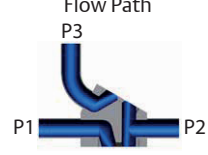
Divert valves minimize contact surfaces, minimize hold up volume, minimize piping dimensional envelope, reduce number of system weldments, and are more easily actuated and validated.

Description	P&ID	Illustration
<p><b>Integral Sterile Access and GMP (ISG)</b></p> <ul style="list-style-type: none"> <li>Provide the purge valve integral to the main body design.</li> <li>Main applications: Process diversion, steam barrier / block sampling.</li> </ul>		
<p><b>2 through 6 Ways Multipoint Divert Valves</b></p> <ul style="list-style-type: none"> <li>Allows process fluids to be diverted, mixed and/or sampled.</li> <li>Reduce piping.</li> <li>Cost effective.</li> <li>Avoid dead legs.</li> <li>Main applications: Distribution of process flows, use in place of transfer panels, use for by-pass, drain and isolation, CIP distribution, switching between buffers for Chromatography.</li> </ul>		<p>Patent for 2-Way # 6,237,637 and 5, 427, 150</p>

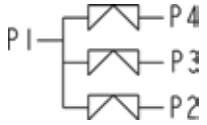
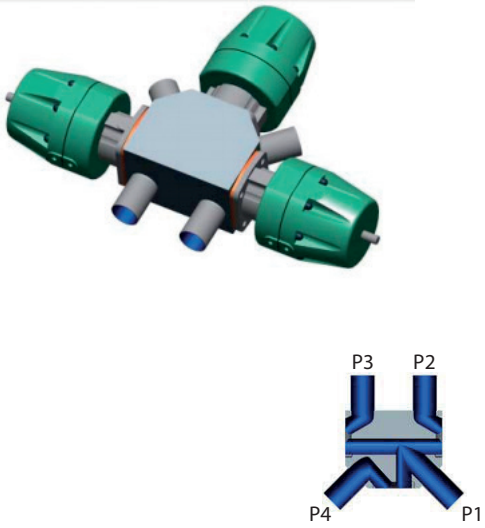
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Description	P&ID	Illustration			
<b>2 through 6 Ways Multiport Divert Valves Outlet Options</b>					
• 2-way	<p>Option 1</p>	<p>Option 2</p>	<p>Option 3</p>	<p>Option 4</p>	
• 3-way	<p>Option 1</p>	<p>Option 2</p>	<p>Option 3</p>	<p>Option 4</p>	
• 4-way	<p>Option 1</p>	<p>Option 2</p>	<p>Option 3</p>		
• 5-way	<p>Option 1</p>	<p>Option 2</p>	<p>Option 3</p>		
• 6-way	<p>Option 1</p>	<p>Option 2</p>	<p>Option 3</p>		

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Description	P&ID	Illustration
<p><b>Chromatography Valve (CHRO &amp; CHN)</b></p> <ul style="list-style-type: none"> <li>In a typical chromatography process, there is an assembly of 5 diaphragm valves that connect the chromatography column to the process piping.</li> <li>Minimizing dead legs.</li> <li>Reduce the overall space needed for the assembly.</li> <li>Main applications: Chromatography.</li> </ul>	<p>CHRO</p>  <p>CHN</p> 	 <p>Patent # 6,112,767 and 5,906,223</p> <p>Flow Path</p> 
<p><b>Integral Dual Sterile Access (IDSA)</b></p> <ul style="list-style-type: none"> <li>Allow access to the process system for sterilizing, sampling, cleaning, diverting or draining.</li> <li>Integrate access on either side of the valve.</li> <li>Main applications: Cleaning / Sterilization both upstream and downstream.</li> </ul>		 <p>Flow Path</p> 
<p><b>Crossover (CROD &amp; CRO)</b></p> <ul style="list-style-type: none"> <li>Facilitate maintenance without shutting down the entire process.</li> <li>Main applications: isolation and bypass or equipment such as filter and bubble traps.</li> </ul>		
<p><b>Integral Horizontal Sterile Access (IHSA)</b></p> <ul style="list-style-type: none"> <li>Integral block incorporating second horizontal valve.</li> <li>Ideal for vertical space constraints.</li> </ul>		 <p>Flow Path</p> 

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Description	P&ID	Illustration
<p><b>Horizontal Divert Valve 3-Way (HDV3W)</b></p> <ul style="list-style-type: none"> <li>• Divert process flow, mixing flow paths, drain and isolation.</li> <li>• Low vertical space installations.</li> </ul>		

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