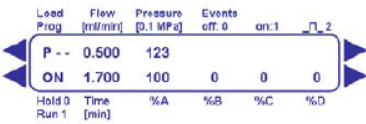
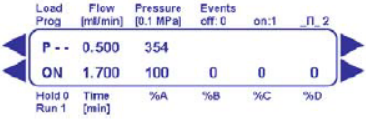




عیب یابی در HPLC

مشکل شماره ۳: فشار برگشتی بالا (High back pressure)

Problem	Probable cause	Troubleshooting																																			
Problem No. 3: Column back pressure too high/higher than usual																																					
<p>Usual:</p>  <table border="1"><thead><tr><th>Load Prog</th><th>Flow [ml/min]</th><th>Pressure [0.1 MPa]</th><th>Events off: 0</th><th>on: 1</th><th>1</th><th>2</th></tr></thead><tbody><tr><td>P --</td><td>0.500</td><td>123</td><td></td><td></td><td></td><td></td></tr><tr><td>ON</td><td>1.700</td><td>100</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>Hold 0</td><td>Time</td><td>%A</td><td>%B</td><td>%C</td><td>%D</td><td></td></tr><tr><td>Run 1</td><td>[min]</td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>	Load Prog	Flow [ml/min]	Pressure [0.1 MPa]	Events off: 0	on: 1	1	2	P --	0.500	123					ON	1.700	100	0	0	0	0	Hold 0	Time	%A	%B	%C	%D		Run 1	[min]						<p>1. Problem in pump, injector, in-line-filter or tubing.</p>	<p>1. Disconnect column from system and replace with unions 0.010" ID or larger tubing to reconnect the injector to the detector. Run pump at high flow rate (2 - 5 ml/min). If pressure is minimal, see cause 2. If not, isolate cause by systematically eliminating system components. Start with the detector and work back to the pump.</p>
Load Prog	Flow [ml/min]	Pressure [0.1 MPa]	Events off: 0	on: 1	1	2																															
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	<p>3. Wrong mobile phase.</p>	<p>3. Check mobile phase. Check make-up of mobile phase: Even small changes in composition can affect back pressure.</p>																																			