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ENGINEERING BULLETIN

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Document Title:

Water Flow Rates for Emergency Valves

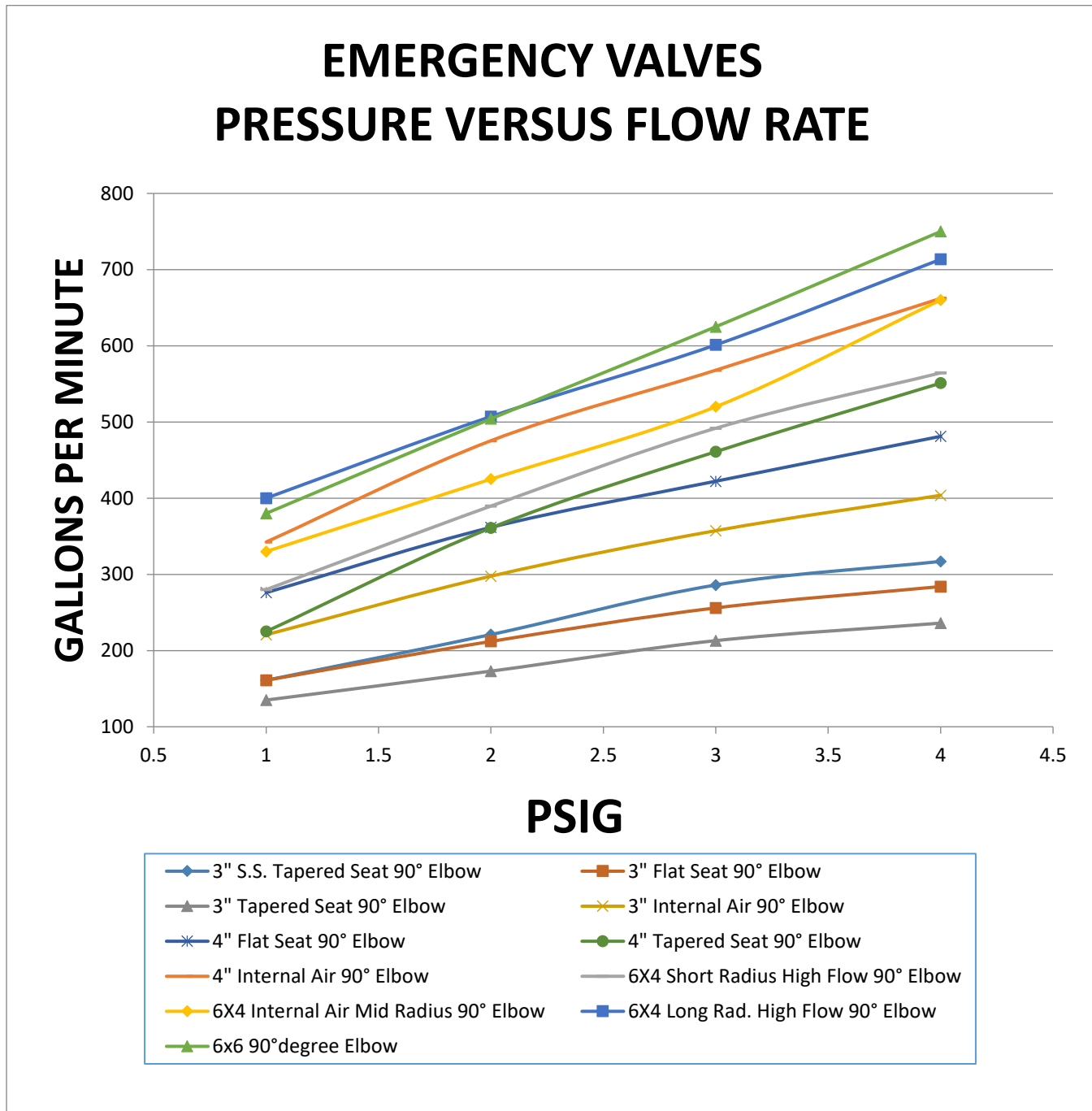
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The following chart displays flow rate versus head pressure for various Betts Industries Emergency Valves. These results were obtained in experimental conditions using water. Field results will vary.



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The following table shows flow rates of various Betts Emergency Valves during a gravity discharge test. The gravity discharge test is a method of simulating tank unloading by allowing water to pass through the valve without the addition of air pressure. Betts gravity discharge test is a release of water from a starting height of 80" to a final height of 17." These results were obtained in experimental conditions. Field results will vary.

Valve Style	Gallons per Minute Gravity Discharge Test
3" S.S. Tapered Seat 90° Elbow & 3" Flat Seat 90° Elbow	199
3" Tapered Seat 90° Elbow	156
3" Internal Air 90° Elbow	259
4" Flat Seat 90° Elbow	316
4" Tapered Seat 90° Elbow	439
4" Internal Air 90° Elbow	427
6X4 Short Radius High Flow 90° Elbow	434
6X4 Internal Air Mid Radius 90° Elbow	435
6X4 Long Rad. High Flow 90° Elbow	450
6X6 90° Elbow	468