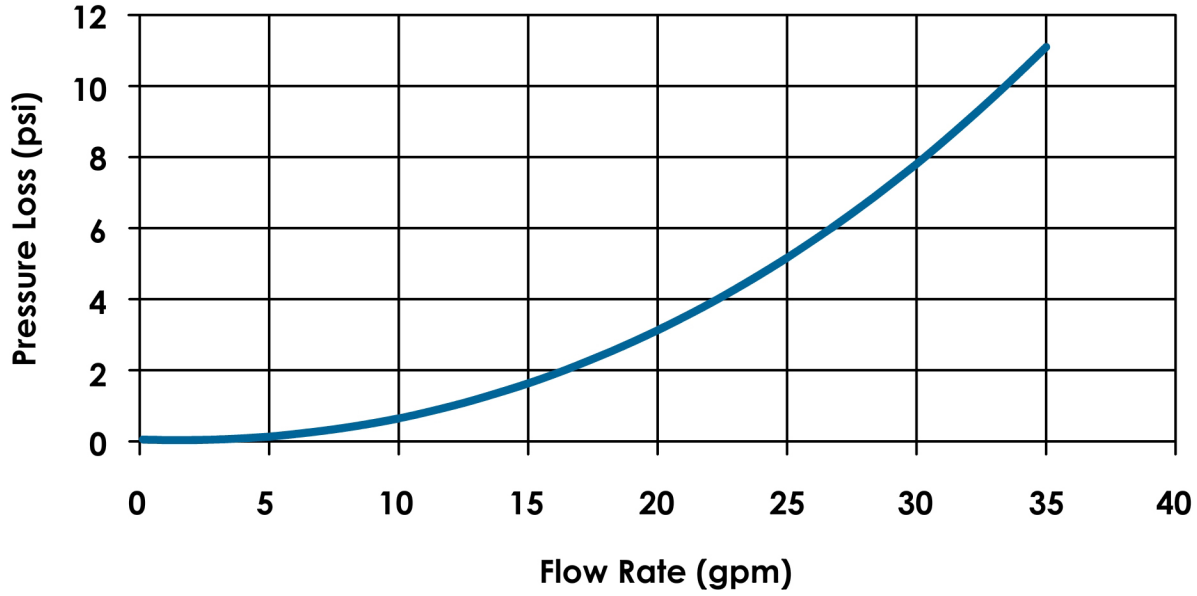
1" FIMCO Hydro-Indexing Valve



Pressure Loss (psi) = 0.0012 * Flow Rate² - 0.0446 * Flow Rate

$R^2 = 1$

Flow Rate (gpm)	0	5	10	15	20	25	30	35
Pressure Loss (psi)	0	0.03	0.6	1.6	3.2	5.3	7.8	10.9

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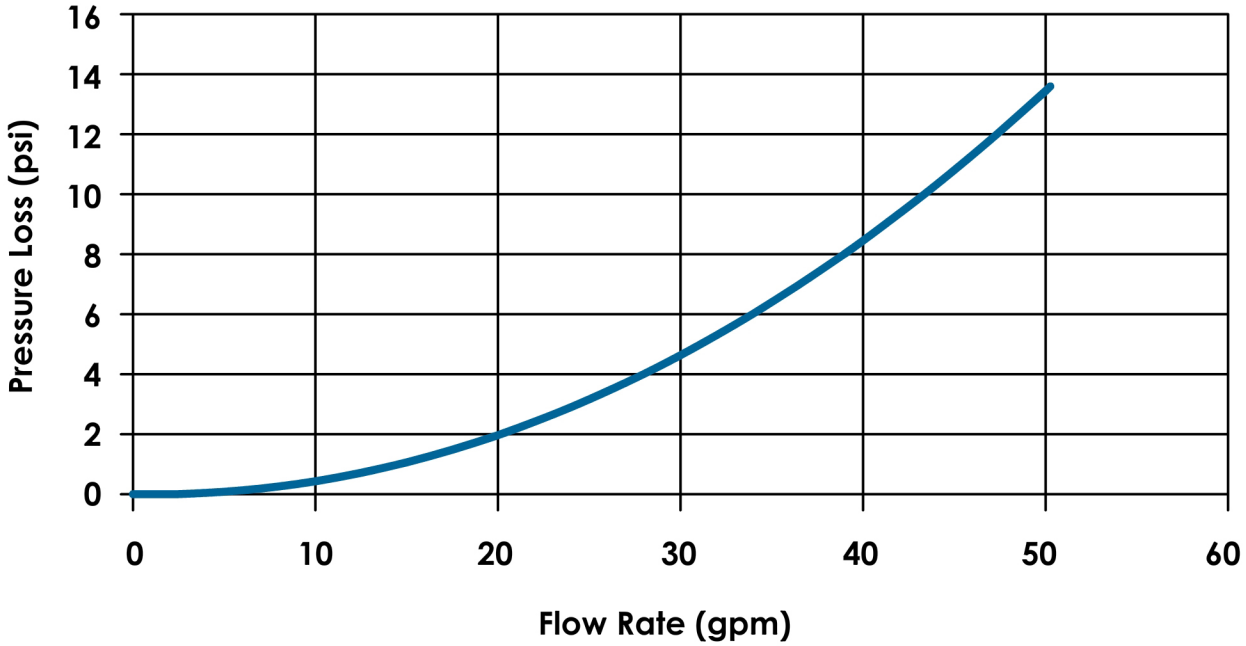
1.25" FIMCO Hydro-Indexing Valve



Pressure Loss (psi) = 0.0058 * Flow Rate² - 0.0204 * Flow Rate + 0.0792

$R^2 = 0.9924$

Flow Rate (gpm)	0	5	10	15	20	25	30	35	40	45	50
Pressure Loss (psi)	0	0.1	0.5	1.1	2.0	3.2	4.7	6.5	8.5	10.9	13.6

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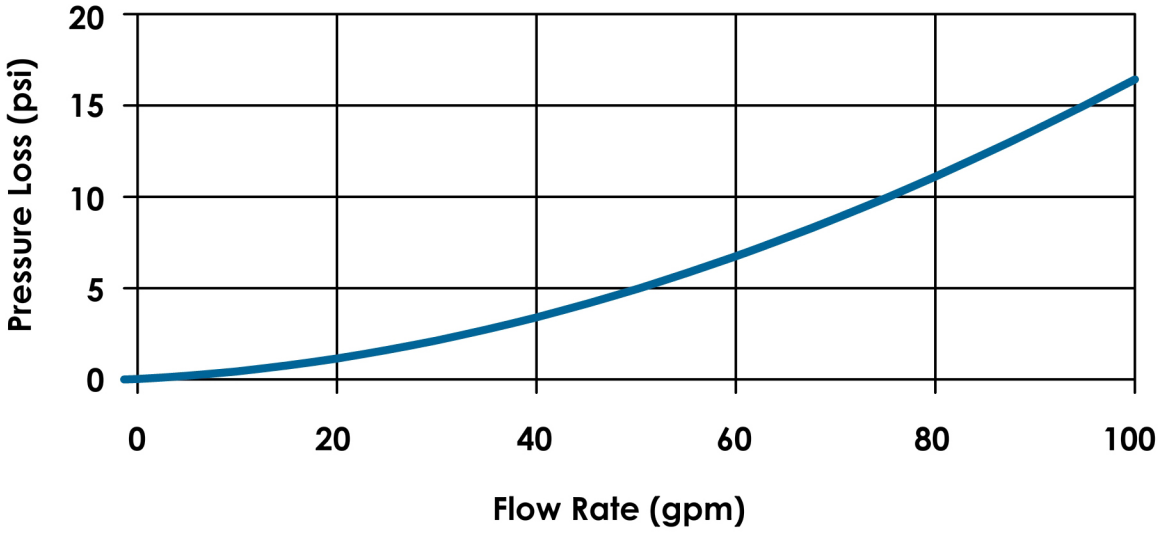
1.5" FIMCO Hydro-Indexing Valve



Pressure Loss (psi) = 0.0012 * Flow Rate² + 0.0446 * Flow Rate - 0.1888
$R^2 = 0.9843$

Flow Rate (gpm)	0	10	20	30	40	50	60	70	80	90
Pressure Loss (psi)	0	0.4	1.2	2.2	3.5	5.0	6.8	8.8	11.1	13.5

Example 1: Determine the pressure loss through the valve in psi at a flow rate of 50 gpm

Answer: Substitute 50 gpm into the equation above
Pressure Loss (psi) = $0.0012 * 50^2 + 0.0446 * 50 - 0.1888$ Note: 50^2 means $50 * 50$
$= 0.0012 * 50 * 50 + 0.0446 * 50 - 0.188$
$= 3 + 2.23 - 0.188$
$= 5.042$ psi

Example 2: Express the result obtained in Example 1 in feet of water.

Answer: To convert psi to feet of water multiply psi by 2.31
5.042 psi * 2.31 = 11.6 ft

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