Crosscheck your simulator results with the actual experimental setup. The orifice data and flow details are as shown below.

Flow range: 0 – 3210 LPH

DPT Range: 0-3500 mm of water column

Voltage (DPT Output): 40-60 mv

Supply Voltage: 230 VAC

Pipe Diameter (ID), D: 40mm

Orifice Diameter, d: 22mm

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Flow in LPH** | **DPT O/P in mV** |  | **Flow in LPH** | **DPT O/P in mV** |
| 760 | 36.06 |  | 2190 | 43.41 |
| 990 | 37.13 |  | 2220 | 44.03 |
| 1020 | 37.67 |  | 2290 | 45.13 |
| 1060 | 37.84 |  | 2360 | 45.32 |
| 1140 | 38.1 |  | 2430 | 46.07 |
| 1220 | 38.47 |  | 2470 | 46.6 |
| 1240 | 38.89 |  | 2550 | 47.7 |
| 1270 | 38.3 |  | 2620 | 48.13 |
| 1280 | 38.9 |  | 2690 | 49.82 |
| 1300 | 39.13 |  | 2760 | 49.96 |
| 1360 | 39.57 |  | 2800 | 50.9 |
| 1450 | 39.65 |  | 2860 | 51.67 |
| 1520 | 40.013 |  | 2900 | 52.24 |
| 1530 | 40.361 |  | 2940 | 52.56 |
| 1550 | 40.48 |  | 2980 | 53.52 |
| 1620 | 40.95 |  | 3020 | 56.94 |
| 1690 | 41.01 |  | 3050 | 57.56 |
| 1700 | 41.33 |  | 3090 | 58.18 |
| 1750 | 41.82 |  | 3170 | 58.21 |
| 1820 | 42.11 |  | 3180 | 58.14 |
| 1890 | 42.32 |  | 3210 | 59.43 |
| 2080 | 43.19 |  |  |  |