



| From  | To   | Dist (m) | Dist (ft) | Flow (usgpm) | Flow (m3) | Discharge Line Type | Pipe Dia. (in) | Line Fric Coef | Friction Head to Overcome (ft) | Friction Head to Overcome (ft) | Elevation Head to Overcome (ft) | Total Head to Overcome (ft) | Total Head to Overcome (m) | Total Head to Overcome (PSI) | Type              | usgpm  | Number in Parallel | Pump TDH (ft) from Performance Curve | TDH (psi) | NPSHD (ft) |
|-------|------|----------|-----------|--------------|-----------|---------------------|----------------|----------------|--------------------------------|--------------------------------|---------------------------------|-----------------------------|----------------------------|------------------------------|-------------------|--------|--------------------|--------------------------------------|-----------|------------|
| 0     | 40   | 40       | 131.2     | 1056.0       | 4.0       | Mine Flex           | 8.94           | 140            | 1.4                            | 1.4                            | 68.9                            | 70.2                        | 21.4                       | 30.5                         | Flygt 58 H-Volume | 1056.0 | 0                  | 80                                   | 35        | 9.75       |
| 40    | 2610 | 2570     | 8429.6    | 1056.0       | 4.0       | Mine Flex           | 8.94           | 140            | 86.9                           | 86.9                           | 30.2                            | 117.1                       | 35.7                       | 50.8                         | 6 XHH             | 1056.0 | 0                  | 150                                  | 69        | 42.63      |
| 2610  | 3090 | 480      | 1574.4    | 1056.0       | 4.0       | Mine Flex           | 8.94           | 140            | 16.2                           | 16.2                           | 295.3                           | 311.5                       | 94.9                       | 135.0                        | 6 XHH             | 1056.0 | 0                  | 300                                  | 149       | 31.12      |
| 3090  | 3550 | 460      | 1508.8    | 1056.0       | 4.0       | Mine Flex           | 8.94           | 140            | 15.6                           | 15.6                           | 240.8                           | 256.4                       | 78.1                       | 111.1                        | 6 HH              | 1056.0 | 0                  | 235                                  | 115       | 9.75       |
| 3550  | 4000 | 450      | 1476      | 1056.0       | 4.0       | Mine Flex           | 8.94           | 140            | 15.2                           | 15.2                           | 141.1                           | 156.3                       | 47.6                       | 67.8                         | 6 HH              | 1056.0 | 0                  | 150                                  | 69        | 3.45       |
| 4000  | 5240 | 1240     | 4067.2    | 1056.0       | 4.0       | Mine Flex           | 8.94           | 140            | 41.9                           | 41.9                           | 244.1                           | 286.0                       | 87.2                       | 124.0                        | 6 XHH             | 1056.0 | 0                  | 300                                  | 132       | 17.41      |
| 5240  | 6004 | 764      | 2505.92   | 1056.0       | 8.0       | Mine Flex           | 11             | 140            | 9.4                            | 9.4                            | 72.2                            | 81.6                        | 24.9                       | 35.4                         | 12 HH             | 1056.0 | 0                  | 110                                  | 55        | 45.81      |
| 0     | 0    | 0        | 0         | 0.0          | 0.0       | Mine Flex           | 0              | 140            |                                |                                |                                 |                             |                            |                              |                   | 0.0    | 0                  | 0                                    | 0         |            |
| 0     | 0    | 0        | 0         | 0.0          | 0.0       | Mine Flex           | 0              | 140            |                                |                                |                                 |                             |                            |                              |                   | 0.0    | 0                  | 0                                    | 0         |            |
| 0     | 0    | 0        | 0         | 0.0          | 0.0       | 0                   | 0              | 0              |                                |                                |                                 |                             |                            |                              |                   | 0.0    | 0                  | 0                                    | 0         |            |
| Total |      | 6004     | 19693.12  |              |           |                     |                |                | 186.7                          | 186.7                          | 1092.5                          | 1279.2                      | 389.9                      | 554.5                        |                   |        |                    | 1325.0                               |           |            |

Profile Max Distance **6004**

**System Max Pressure:  
147.823 PSI**

**System Flow:  
4.0 m3/min**