

# Flow Velocity (Ft/s) to GPM Conversion Chart

(Carbon Steel, Schedule 40)



Typical HVAC Design Maximum Flow is 4 to 8 ft/s.

| Nominal Pipe Size | GPM @ 1 Ft/s | GPM @ 2 Ft/s | GPM @ 4 Ft/s | GPM @ 8 Ft/s | GPM @ 10 Ft/s | GPM @ 12 Ft/s |
|-------------------|--------------|--------------|--------------|--------------|---------------|---------------|
| 0.75              | 1.7          | 3.3          | 6.6          | 13           | 17            | 20            |
| 1                 | 2.7          | 6.0          | 12           | 24           | 30            | 36            |
| 1.25              | 4.7          | 9.3          | 19           | 37           | 47            | 56            |
| 1.5               | 6.4          | 13           | 25           | 51           | 64            | 76            |
| 2                 | 11           | 21           | 42           | 84           | 105           | 126           |
| 2.5               | 15           | 30           | 60           | 119          | 149           | 179           |
| 3                 | 23           | 46           | 92           | 184          | 230           | 276           |
| 4                 | 40           | 79           | 159          | 318          | 397           | 476           |
| 5                 | 62           | 125          | 250          | 499          | 624           | 749           |
| 6                 | 90           | 180          | 360          | 720          | 900           | 1,080         |
| 8                 | 156          | 312          | 624          | 1,248        | 1,560         | 1,872         |
| 10                | 246          | 492          | 984          | 1,968        | 2,460         | 2,952         |
| 12                | 349          | 698          | 1,396        | 2,792        | 3,490         | 4,188         |
| 14                | 422          | 844          | 1,688        | 3,376        | 4,220         | 5,064         |
| 16                | 551          | 1,102        | 2,204        | 4,408        | 5,510         | 6,612         |
| 18                | 697          | 1,394        | 2,788        | 5,576        | 6,970         | 8,364         |
| 20                | 866          | 1,732        | 3,464        | 6,928        | 8,660         | 10,392        |
| 24                | 1,253        | 2,506        | 5,012        | 10,024       | 12,530        | 15,036        |
| 30                | 2,094        | 4,188        | 8,376        | 16,752       | 20,940        | 25,128        |
| 36                | 3,042        | 6,084        | 12,168       | 24,336       | 30,420        | 36,504        |
| 48                | 5,640        | 11,280       | 22,560       | 45,120       | 56,400        | 67,680        |