

Model 496

Domestic Service Regulator

Outlet Pressure Set Point 7.0" w.c. @ 50 scfh, variances not to exceed +2.0" w.c. and -1.0" w.c. from set point.

Body Size Outlet: 3/8"

| Inlet Psig | Orifice | | | | | |
|---------------|---------|-------|------|-------|------|------|
| | 1/8" | 3/16" | 1/4" | 5/16" | 3/8" | 1/2" |
| 1 | - | 100 | 160 | 190 | - | - |
| 2 | - | 150 | 200 | 220 | - | - |
| 5 | 180 | 200 | 250 | 260 | - | - |
| 10 | 190 | 220 | 270 | 280 | - | - |
| 15 | 200 | 240 | 280 | 290 | - | - |
| 20 | 220 | 260 | 290 | 300 | - | - |
| 25 | 230 | 260 | 290 | 300 | - | - |
| 30 | 240 | 270 | 300 | 300 | - | - |
| 40 | 250 | 280 | 300 | 300 | - | - |
| 50 | 260 | 300 | 300 | - | - | - |
| 60 | 270 | 300 | 300 | - | - | - |
| 80 | 300 | 300 | - | - | - | - |
| 100 | 300 | 300 | - | - | - | - |

Body Size Outlet: 1/2"

| Inlet Psig | Orifice | | | | | |
|---------------|---------|-------|------|-------|------|------|
| | 1/8" | 3/16" | 1/4" | 5/16" | 3/8" | 1/2" |
| 1 | - | 110 | 200 | 220 | - | - |
| 2 | - | 210 | 240 | 300 | - | - |
| 5 | 220 | 290 | 330 | 390 | - | - |
| 10 | 290 | 350 | 420 | 480 | - | - |
| 15 | 350 | 410 | 470 | 550 | - | - |
| 20 | 410 | 490 | 500 | 560 | - | - |
| 25 | 430 | 500 | 550 | 580 | - | - |
| 30 | 470 | 520 | 580 | 590 | - | - |
| 40 | 500 | 570 | 600 | 600 | - | - |
| 50 | 550 | 600 | 600 | - | - | - |
| 60 | 570 | 600 | 600 | - | - | - |
| 80 | 600 | 600 | - | - | - | - |
| 100 | 600 | 600 | - | - | - | - |

Body Size Outlet: 3/4"

| Inlet Psig | Orifice | | | | | |
|---------------|---------|-------|------|-------|------|------|
| | 1/8" | 3/16" | 1/4" | 5/16" | 3/8" | 1/2" |
| 1 | - | 200 | 275 | 300 | 400 | 500 |
| 2 | - | 250 | 400 | 475 | 575 | 775 |
| 5 | 275 | 400 | 675 | 725 | 875 | 1050 |
| 10 | 400 | 650 | 900 | 950 | 1000 | 1175 |
| 15 | 500 | 775 | 1100 | 1100 | 1150 | 1300 |
| 20 | 600 | 1000 | 1175 | 1250 | 1300 | 1350 |
| 25 | 675 | 1100 | 1225 | 1350 | 1375 | - |
| 30 | 775 | 1250 | 1300 | 1475 | 1500 | - |
| 40 | 900 | 1300 | 1350 | 1525 | - | - |
| 50 | 1050 | 1375 | 1425 | - | - | - |
| 60 | 1250 | 1425 | 1500 | - | - | - |
| 80 | 1500 | 1500 | - | - | - | - |
| 100 | 1550 | 1550 | - | - | - | - |

Body Size Outlet: 1"

| Inlet Psig | Orifice | | | | | |
|---------------|---------|-------|------|-------|------|------|
| | 1/8" | 3/16" | 1/4" | 5/16" | 3/8" | 1/2" |
| 1 | - | 200 | 250 | 300 | 400 | 425 |
| 2 | - | 300 | 350 | 475 | 525 | 550 |
| 5 | 250 | 450 | 600 | 725 | 950 | 1150 |
| 10 | 375 | 750 | 900 | 1200 | 1250 | 1700 |
| 15 | 500 | 950 | 1150 | 1550 | 1550 | 1800 |
| 20 | 600 | 1200 | 1350 | 1600 | 1600 | 1950 |
| 25 | 675 | 1350 | 1600 | 1650 | 1650 | - |
| 30 | 775 | 1550 | 1800 | 1825 | 1850 | - |
| 40 | 950 | 1875 | 1900 | 1950 | - | - |
| 50 | 1100 | 2000 | 2025 | - | - | - |
| 60 | 1250 | 2075 | 2100 | - | - | - |
| 80 | 1500 | 2200 | - | - | - | - |
| 100 | 1800 | 2250 | - | - | - | - |

Outlet Pressure Set Point 2.0psig @ 50 scfh, variances not to exceed ± 10% from pressure set point.

Body Size Outlet: 3/8"

| Inlet Psig | Orifice | | | | | |
|---------------|---------|-------|------|-------|------|------|
| | 1/8" | 3/16" | 1/4" | 5/16" | 3/8" | 1/2" |
| 5 | 150 | 280 | 330 | 380 | - | - |
| 10 | 240 | 400 | 430 | 440 | - | - |
| 15 | 310 | 440 | 460 | 500 | - | - |
| 20 | 350 | 450 | 480 | 510 | - | - |
| 25 | 380 | 460 | 500 | 530 | - | - |
| 30 | 430 | 490 | 520 | 560 | - | - |
| 40 | 450 | 510 | 560 | 580 | - | - |
| 50 | 460 | 550 | 570 | - | - | - |
| 60 | 470 | 560 | 590 | - | - | - |
| 80 | 540 | 570 | - | - | - | - |
| 100 | 570 | 580 | - | - | - | - |

Body Size Outlet: 1/2"

| Inlet Psig | Orifice | | | | | |
|---------------|---------|-------|------|-------|------|------|
| | 1/8" | 3/16" | 1/4" | 5/16" | 3/8" | 1/2" |
| 5 | 160 | 290 | 340 | 420 | - | - |
| 10 | 250 | 420 | 480 | 500 | - | - |
| 15 | 320 | 490 | 520 | 620 | - | - |
| 20 | 360 | 510 | 590 | 650 | - | - |
| 25 | 390 | 550 | 660 | 700 | - | - |
| 30 | 440 | 590 | 720 | 760 | - | - |
| 40 | 520 | 700 | 800 | 810 | - | - |
| 50 | 530 | 750 | 840 | - | - | - |
| 60 | 580 | 870 | 920 | - | - | - |
| 80 | 670 | 910 | - | - | - | - |
| 100 | 750 | 1000 | - | - | - | - |

Body Size Outlet: 3/4"

| Inlet Psig | Orifice | | | | | |
|---------------|---------|-------|------|-------|------|------|
| | 1/8" | 3/16" | 1/4" | 5/16" | 3/8" | 1/2" |
| 5 | 200 | 300 | 350 | 500 | 550 | 650 |
| 10 | 325 | 500 | 600 | 700 | 800 | 1050 |
| 15 | 425 | 650 | 725 | 900 | 1050 | 1150 |
| 20 | 525 | 725 | 850 | 1050 | 1200 | 1400 |
| 25 | 575 | 850 | 1000 | 1175 | - | - |
| 30 | 600 | 900 | 1100 | 1300 | - | - |
| 40 | 700 | 950 | 1250 | 1500 | - | - |
| 50 | 800 | 1100 | 1400 | - | - | - |
| 60 | 900 | 1250 | 1500 | - | - | - |
| 80 | 1100 | 1425 | - | - | - | - |
| 100 | 1200 | 1500 | - | - | - | - |

Body Size Outlet: 1"

| Inlet Psig | Orifice | | | | | |
|---------------|---------|-------|------|-------|------|------|
| | 1/8" | 3/16" | 1/4" | 5/16" | 3/8" | 1/2" |
| 5 | 250 | 275 | 350 | 400 | 450 | 750 |
| 10 | 300 | 425 | 500 | 650 | 900 | 1050 |
| 15 | 400 | 500 | 700 | 1000 | 1050 | 1200 |
| 20 | 475 | 650 | 800 | 1200 | 1300 | 1500 |
| 25 | 550 | 700 | 1000 | 1300 | 1400 | - |
| 30 | 650 | 850 | 1100 | 1400 | 1500 | - |
| 40 | 800 | 1050 | 1300 | 1500 | - | - |
| 50 | 900 | 1225 | 1500 | - | - | - |
| 60 | 1000 | 1350 | 1700 | - | - | - |
| 80 | 1300 | 1800 | - | - | - | - |
| 100 | 1700 | 2000 | - | - | - | - |

Flow capacities in SCFH of 0.60 specific gravity gas @ 60° F and 14.7 psia. For maximum performance, maximum inlet pressure should not exceed maximum capacity rating for any given orifice size.

For other non corrosive gases such as Air, Propane, Propane/Air Mix, Nitrogen and Dry Carbon Dioxide, use the following capacity calculation:

$$\sqrt{\frac{0.60}{\text{Specific Gravity of the Gas}}}$$