

High-Pressure Regulators RG20 Series

The RG20 is a direct spring-operated, pressure regulator that can be used anywhere pressure

regulation of natural gas, air or other gas is required. Its housing can be moved to one of four positions to save space during installation.

The RG20 is designed for easy maintenance by allowing access to the body without removing it from the line. A NACE option is available for sour service.

The RG20H is a high-pressure option that includes a steel housing and spring cover capable of handling pressures above 150 psi.

The RG20R is a self-relieving version of the RG20. If the downstream pressure exceeds the set point, the RG20R will vent the excess pressure to atmosphere.



Sizes: 1" & 2"

Connection: Female NPT **Body Type:** Globe

Orifice Sizes: .125" (1/8"), .188" (3/16"), .25", .375" (3/8"), .50"

Temperature Range: -20° F to 180° F (-29° C to 82° C)

Body Pressure Rating: 2000 psi

Materials: Body: WCB steel

Housing and Spring Cover: Aluminum (RG20, RG20R),

WCB steel (RG20H)

Orifice and Disk Holder: Aluminum, stainless (optional)

Disk: Buna, Viton®, nylon

Diaphragm: Buna, Viton® (optional)

Weight: Approximate

1": 6.5 lbs aluminum or 10lbs steel
2": 10.5 lbs aluminum or 14 lbs steel

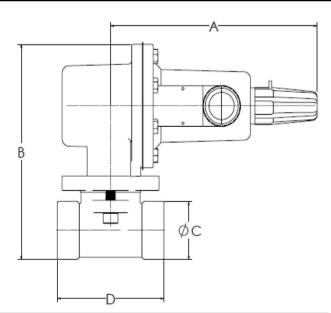
| Housing and Spring Cover Pre | essure Rating | s | |
|-------------------------------------|---------------|----------|----------|
| Material Pressure | | Material | |
| Limitations: | RG20 | RG20R | RG20H |
| To prevent housing failure | 375 psi | 375 psi | 1500 psi |
| To prevent leakage to atmosphere | 250 psi | 250 psi | 800 psi |
| To prevent damage to internal parts | 60 psi | 120 psi | 120 psi |





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Dimensions



| | Dimensions | | | | | | | | | | | |
|--------------|------------|-------|------|-------|------|------|------|-------|--|--|--|--|
| Bodv | | A | | В | (| 0 | D | | | | | |
| Body Size | in. | mm | in. | mm | in. | mm | in. | mm | | | | |
| 1" | 7.72 | 196.1 | 7.40 | 188.0 | 2.00 | 50.8 | 4.00 | 101.6 | | | | |
| 2" | 7.72 | 196.1 | 8.47 | 215.1 | 3.38 | 85.9 | 5.00 | 127.0 | | | | |

Capacities of 0.6 S.G. Natural Gas in SCFH - RG20

| Outlet | Ou | tlet | 1" Body Size Inlet Pressure Orifice Diameter | | | | | | 2" | Body Si | ze | | | |
|---------------------------|------------|------|--|-------------|----------------|----------------|----------|--------|--------|----------------|----------------|-----------------|------------------|------------------|
| Pressure | Pres | sure | Injet Pr | essure | | Orif | ice Diam | eter | | | Orif | ice Diam | eter | |
| Range | psig | bar | psig | bar | .125" | .188* | .25" | .375" | .50" | .125" | .188" | .25" | .375" | .50" |
| | | | 10 | 0.69 | 330 | 710 | 1,100 | 1,900 | 2,500 | 330 | 710 | 1,080 | 1,700 | 2,400 |
| | | | 15 | 1.0 | 390 | 890 | 1,600 | 2,500 | 3,350 | 390 | 890 | 1,250 | 1,900 | 2,700 |
| | | | 20 | 1.4 | 500 | 1,160 | 2,060 | 3,400 | 4,450 | 500 | 1,160 | 1,900 | 2,650 | 3,900 |
| | 51 | 0.34 | 30 | 2.1 | 670 | 1,560 | 2,800 | 4,750 | 6,900 | 670 | 1,560 | 2,800 | 3,680 | 6,500 |
| | | | 60 | 4.1 | 1,170 | 2,600 | 4,710 | 8,140 | 13,700 | 1,170 | 2,600 | 4,750 | 7,250 | 17,800 |
| | | | 75 | 5.2 | 1,410 | 3,150 | 5,710 | 9,790 | 14,500 | 1,410 | 3,150 | 5,700 | 8,060 | 22,400 |
| | | | 100 | 6.9 | 1,800 | 4,070 | 7,310 | 12,500 | 16,000 | 1,790 | 4,070 | 7,310 | 16,200 | 28,700 |
| | | | 15 | 1.03 | 375 | 880 | 1,590 | 2,480 | 3,300 | 375 | 880 | 1,220 | 1,860 | 2,670 |
| | | | 20 | 1.4 | 490 | 1,150 | 2,050 | 3,380 | 4,410 | 490 | 1,150 | 1,880 | 2,610 | 3,830 |
| | | | 30 | 2.1 | 670 | 1,560 | 2,800 | 4,720 | 6,840 | 670 | 1,560 | 2,760 | 3,640 | 6,460 |
| | | | 60 75 | 5.2 | 1,170 | 2,600 | 4,710 | 8,140 | 13,700 | 1,170 | 2,600 | 4,750 | 7,250 8,060 | 17,800 |
| | | | _ | | 1,410 | 3,150 | 5,710 | 9,790 | 14,500 | 1,410 | 3,150 | 5,700 | | |
| | | | 100 | 6.9 10.3 | 1,800 2,580 | 4,070 5,850 | 7,310 | 12,500 | 16,000 | 1,790 2,580 | 4,070 5.850 | 7,310 10,500 | 16,200 23,300 | 28,700 25,900 |
| | l | | 200 | 13.8 | 3,370 | 7,630 | 13,700 | 18,000 | 18,500 | 3,370 | 7,630 | 13,700 | 22,700 | 24,000 |
| | 10 | 0.69 | 300 | 20.7 | 4,910 | 11,200 | 19,800 | 20,000 | 10,000 | 4,910 | 11,200 | 10,300 | 12,800 | 24,000 |
| | | | 500 | 34.5 | 8.090 | 15,700 | 20,000 | 20,000 | | 8.090 | 18,300 | 21,000 | 12,600 | |
| 5 to 20 psig ² | | | 750 | 51.7 | 12,000 | | 20,000 | | | 12,000 | 27,200 | 2.1,000 | | |
| 0.34 to 1.4 bar) | | | 1,000 | 69.0 | 14,000 | 10,000 | | | | 16,000 | 27,200 | | | |
| Yellow Spring | | | 1.250 | 86.2 | | | | | | | | | | |
| | | | 1,500 | 103 | | | | | | | | | | |
| | | | 1,750 | 121 | | | | | | | | | | |
| 1 | | i . | 2,000 | 138 | | | | | | | | | | |
| | | | 30 | 2.1 | 620 | 1,450 | 2,580 | 4,360 | 6,290 | 620 | 1,450 | 2,350 | 4,300 | 6,110 |
| 1 | | | 50 | 3.4 | 1,000 | 2,280 | 4,090 | 7,870 | 14,100 | 1,000 | 2,280 | 4,040 | 7,100 | 12,800 |
| | | l | 60 | 4.1 | 1,170 | 2,640 | 4,750 | 9,690 | 14,500 | 1,170 | 2,640 | 4,750 | 8,400 | 15,700 |
| | l | l | 100 | 6.9 | 1,800 | 4,070 | 7,310 | 13,900 | 23,300 | 1,800 | 4,070 | 7,310 | 16,200 | 28,700 |
| | | | 150 | 10.3 | 2,580 | 5,850 | 10,500 | 17,700 | 34,200 | 2,580 | 5,850 | 10,500 | 23,300 | 29,000 |
| | | | 200 | 13.8 | 3,370 | 7,630 | 13,700 | 26,600 | 39,100 | 3,370 | 7,630 | 13,700 | 24,000 | 33,000 |
| | 20 | 1.4 | 300 | 20.7 | 4,910 | 11,200 | 20,100 | 37,000 | | 4,910 | 11,200 | 20,100 | 19,600 | |
| | | | 500 | 34.5 | 8,090 | 18,300 | 32,900 | | | 8,090 | 18,300 | 32,900 | | |
| | | | 750 | 51.7 | 12,000 | 23,600 | | | | 12,000 | 27,200 | | | |
| | | | 1,000 | 69.0 | 16,000 | | | | | 16,000 | | | | |
| | | | 1,250 | 86.2 | | | | | | | | | | |
| | | | 1,500 | 103 | | | | | | | | | | |
| | | | 1,750 | 121 | | | | | | | | | | |
| | | | 2,000 | 138 | 1,090 | 2,530 | 4,510 | 9,290 | 0.400 | 1,090 | 2,530 | 4.070 | 8,680 | 13,300 |
| | | | 75 | 5.2 | 1,370 | 3,080 | 5,640 | | 9,420 | 1,370 | 3,080 | 4,370 5,540 | | 19,300 |
| | | | 100 | 6.9 | 1,790 | 4,070 | 7,310 | 14,700 | 21,900 | 1,800 | 4,070 | 7,310 | | 25,400 |
| | | | 150 | 10.3 | 2,580 | 5,850 | 10,500 | 20.500 | 34,500 | 2,580 | 5,850 | 10,500 | 23,300 | 41,300 |
| | | | 200 | 13.8 | 3,370 | 7,630 | 13,700 | 27,100 | 46,400 | 3,370 | 7,630 | 13,700 | 30,400 | 53,900 |
| 15 to 40 psic | to 40 psig | l | 300 | 20.7 | 4,910 | 11,200 | 20,100 | 40,100 | 67,100 | 4,910 | 11,200 | 20,100 | 44,600 | 46,000 |
| (1.0 to 2.8 bar) | | 2.8 | 500 | 34.5 | 8,090 | 18,300 | 32,900 | 63,900 | , | 8,090 | 18,300 | 32,900 | 22,000 | |
| Green Spring | " | | 750 | 51.7 | 12,000 | | 39,400 | | | 12,000 | 27,200 | 28,000 | | |
| | i | i | 1,000 | 69.0 | 16,000 | | | | | 16,000 | | | | |
| | l | i | 1,250 | 86.2 | 19,000 | | | | | 19,000 | | | | |
| | l | l | 1,500 | 103 | 22,000 | | | | | 22,000 | | | | |
| | l | l | 1,750 | 121 | | | | | | | | | | |
| | | | 2,000 | 138 | | | | | | | | | | |

| Outlet | Ou | tlet | | 1° Body Size Orifice Diameter | | | | 2 | Body Si | ze | | | | | |
|-------------------------------------|------|-------|-----------|-------------------------------|--------|----------------|----------------|-----------------|---------|----------------|----------------|----------------|---------|---------|--------|
| Pressure | | sure | Inlet Pr | essure | | Ori | fice Diam | eter | | | Or | ifice Diam | eter | | |
| Range | psig | bar | psig | bar | .125" | .188" | .25" | .375° | .50" | .125" | .188" | .25" | .375* | .50" | |
| | pay | Dai | | | | | | | | | | | | | |
| | | | 75 100 | 5.2 6.9 | 1,230 | 2,760 4,010 | 4,880 7,000 | 8,630 13,000 | 16,100 | 1,260 | 2,760 4,010 | 4,900 7,000 | 9,000 | 12,300 | |
| | | | 150 | 10.3 | _ | 5,850 | 10,500 | 18,900 | 32,800 | _ | 5,850 | 10,500 | 23,300 | 35,200 | |
| | | | 200 | 13.8 | 2,580 | 7,630 | 13,700 | 24.000 | 42,200 | 2,580 3,370 | 7,630 | 13,700 | 30,400 | 53,900 | |
| | | | 300 | 20.7 | 4,910 | 11,200 | 20,100 | 32,500 | 69,100 | 4,910 | 11,200 | 20,100 | 44,600 | 79,000 | |
| | | | 500 | 34.5 | 8,090 | 18,300 | 32,900 | 64,000 | 94,300 | 8,090 | 18,300 | 32,900 | 73,000 | 38.800 | |
| | 60 | 4.1 | 750 | 51.8 | 12,000 | 27,200 | 43,380 | 66,000 | 130,000 | 12,000 | 27,200 | 48,900 | 53,000 | 32,000 | |
| | | | 1,000 | 69.0 | 16,000 | 36,100 | 50,300 | 67,700 | 130,000 | 16,000 | 36,100 | 43,000 | 52,000 | 32,000 | |
| | | | 1,250 | 86.2 | 19,000 | 45,000 | 57,000 | 01,100 | | 19,000 | 45,000 | 70,000 | 52,000 | | |
| | | | 1,500 | 103 | 22,000 | 54,000 | 63,000 | | | 22,000 | 54,000 | 43,000 | | | |
| 35 to 80 psig | | | 1,750 | 121 | 25,000 | 63,000 | 00,000 | | | 25,000 | - | 40,000 | | | |
| (2.4 to 5.5 bar) | | | 2,000 | 138 | 28,000 | 00,000 | | | | 28,000 | 20,000 | | | | |
| Blue Spring | | | 100 | 5.2 | 1,600 | 3,750 | 6.650 | 12,200 | 18,600 | 1,630 | 3,750 | 6,400 | 12,800 | 20,400 | |
| | | | 150 | 10.3 | 2,580 | 5,850 | 10,500 | 21,100 | 33,600 | 2,580 | 5,850 | 10,500 | 23,300 | 41,300 | |
| | | | 200 | 13.8 | 3,370 | 7,630 | 13,700 | 28,400 | 44,100 | 3,370 | 7,630 | 13,700 | 30,400 | 53,900 | |
| 1 1 | | | 300 | 20.7 | 4,910 | 11,200 | 20,100 | 43,300 | 75,400 | 4,910 | 11,200 | 20,100 | 44,600 | 79,000 | |
| | | | 500 | 34.5 | 8,090 | 18,300 | 32,900 | 71,600 | 110,000 | 8,090 | 18,300 | 32,900 | 73,000 | 48,000 | |
| 1 | 80 | 5.5 | 750 | 51.8 | 12,000 | 27,200 | 48,900 | | 135,000 | 12,000 | 27,200 | 48,900 | 87,000 | 44,000 | |
| | | | 1,000 | 69.0 | 16,000 | 36,100 | 64,900 | 118,000 | 100,000 | 16,000 | 36,100 | 65,000 | 63,000 | | |
| | | | 1,250 | 86.2 | 19,000 | 45,000 | 80,000 | | | 19,000 | 45,000 | 63,000 | | | |
| | | | 1,500 | 103 | 22,000 | 54,000 | 96,000 | | | 22,000 | 54,000 | 86,000 | | | |
| | | | 1,750 | 121 | 25,000 | 63,000 | | | | 25,000 | | | | | |
| | | | 2,000 | 138 | 28,000 | | | | | 28,000 | | | | | |
| | | | 150 | 10.3 | 2,510 | 5,540 | 8,710 | 16,000 | 24,000 | 2,510 | 5,540 | 8,600 | 16,000 | 22,000 | |
| i i | | i i | 200 | 13.8 | 3,370 | 7,630 | 12,000 | 21,300 | 34,100 | 3,370 | 7,630 | 13,700 | 22,000 | 33,000 | |
| | | | | 300 | 20.7 | 4,910 | 11,200 | 19,400 | 30,100 | 53,200 | 4,910 | 11,200 | 20,100 | 35,000 | 65,300 |
| i i | | i I | 500 | 34.5 | 8,090 | 18,300 | 31,800 | 66,500 | 83,900 | 8,090 | 18,300 | 32,900 | 73,000 | 129,000 | |
| | | | 750 | 51.8 | 12,000 | 27,200 | 47,300 | 95,300 | 117,000 | 12,000 | 27,200 | 48,900 | 108,000 | 54,000 | |
| 1 1 | 100 | 6.9 | 1,000 | 69.0 | 16,000 | 36,100 | 59,700 | 100,000 | 120,000 | 16,000 | 36,100 | 64,800 | 82,000 | | |
| 1 1 | | | 1,250 | 86.2 | 19,000 | 45,000 | 72,000 | 114,000 | | 19,000 | 45,000 | 80,000 | 110,000 | | |
| | | | 1,500 | 103 | 22,000 | 54,000 | 86,000 | | | 22,000 | 54,000 | 96,000 | | | |
| | | | 1,750 | 121 | 25,000 | 63,000 | 95,000 | | | 25,000 | 63,000 | 112,000 | | | |
| | | | 2,000 | 138 | 28,000 | 71,000 | | | | 28,000 | 71,000 | | | | |
| 1 1 | | | 150 | 10.3 | 2,340 | 5,340 | 9,470 | 15,700 | 20,800 | 2,340 | 5,340 | 8,600 | 16,000 | 24,000 | |
| | | | 200 | 13.8 | 3,320 | 7,550 | 13,400 | 28,100 | 32,800 | 3,320 | 7,550 | 13,700 | 24,000 | 36,000 | |
| 70 1- 150 | | | 300 | 20.7 | 4,910 | 11,200 | 20,100 | 36,300 | 52,600 | 4,910 | 11,200 | 20,100 | 39,000 | 65,300 | |
| 70 to 150 psig (4.8 to 10.3 bar) | | | 500 | 34.5 | 8,090 | 18,300 | 32,900 | | 109,000 | 8,090 | 18,300 | 32,900 | | 129,000 | |
| (4.8 to 10.3 bar) Red Spring | 105 | | 750 | 51.8 | 12,000 | 27,200 | 48,900 | 104,000 | 158,000 | 12,000 | 27,200 | 48,900 | 108,000 | 59,000 | |
| ried oping | 125 | 8.6 | 1,000 | 69.0 | 16,000 | 36,100 | 64,800 | 138,000 | 160,000 | 16,000 | 36,100 | 64,800 | 58,000 | | |
| | | | 1,250 | 86.2 | 19,000 | 45,000 | 80,000 | 145,000 | | 19,000 | 45,000 | 80,000 | 75,000 | | |
| | | | 1,500 | 10. | 22,000 | 54,000 | 96,000 | | | 22,000 | 54,000 | 96,000 | | | |
| | | | 1,750 | 121 | 25,000 | | 112,000 | | | | | 112,000 | | | |
| | | 2,000 | 138 | 28,000 | 71,000 | | | | 28,000 | 71,000 | | | | | |
| | | | 200 | 13.8 | 3,200 | 7,290 | 12,900 | 21,400 | 33,600 | 3,200 | 7,290 | 13,000 | 24,000 | 38,000 | |
| | | 300 | 20.7 | 4,910 | 11,200 | 17,200 | 40,100 | 55,900 | 4,910 | 11,200 | 20,100 | _ | 64,200 | | |
| | | | 500 | 34.5 | 8,090 | | 32,900 | 70,300 | 111,000 | 8,090 | 18,300 | 32,900 | | 129,000 | |
| | | | 750 | 51.8 | 12,000 | 27,200 | | 104,000 | | | | | 108,000 | 62,000 | |
| | 150 | 10.3 | 1,000 | 69.0 | 16,000 | | | | 162,000 | | | 64,800 | 144,000 | | |
| | | | 1,250 | 86.2 | 19,000 | | 80,000 | 150,000 | | | _ | 80,000 | 81,000 | | |
| | | | 1,500 | 103 | | | 96,000 | | | | 54,000 | | | | |
| | | | 1,750 | 121 | | | 112,000 | | | _ | _ | 112,000 | | | |
| | | | 2,000 | 138 | 28,000 | 71,000 | | | | 28,000 | 71,000 | | | | |

⁻Capacity is based on 20 percent droop unless otherwise noted below.

⁻For pressure setting under 10 psig (0.69 bar) limit the input pressure to 100 psig (6.9 bar) to obtain the set point.

⁻For 5 psig (0.34 bar) pressure set point, the droop is 2 psig (0.14 bar).

⁻Grayed out areas indicate that the inlet pressure is too high for a given orifice size.

⁻¹⁰⁻⁹⁵ psi utility spring available.

⁻To convert capacities to another gas, multiply by .775 and divide by the square root of the specific gravity of the desired gas.

⁻To convert SCFH to m3 /hr, multiply 0.0268.

Capacities of 0.6 S.G. Natural Gas in SCFH - RG20R

| Outlet | Ou | tlet | Inlet Pressure Orifice Diameter | | | | | | | 2' | Body Si | ze | | |
|---|------|-------|---------------------------------|--------------|--------|--------|-----------|--------|--------|----------------|---------|----------|--------|--------|
| Pressure | Pres | ssure | Inlet Pr | ressure | | Orif | fice Diam | eter | | | Orif | ice Diam | eter | |
| Range | psig | bar | psig | bar | .125" | .188" | .25* | .375* | .50* | .125° | .188° | .25* | .375" | .50° |
| | , | | 10 | 0.69 | 330 | 710 | 1,080 | 2,000 | 2,150 | 330 | 710 | 1,080 | 2,000 | 2,150 |
| | | | 15 | 1.0 | 390 | 890 | 1,500 | 2,350 | 3,000 | 390 | 890 | 1,150 | 2,350 | 3,000 |
| | | | 20 | 1.4 | 500 | 1,160 | 2,500 | 3,600 | 3,900 | 500 | 1,160 | 2,500 | 3,600 | 3,900 |
| | 51 | 0.34 | 30 | 2.1 | 690 | 1,500 | 2,500 | 3,600 | 4,900 | 690 | 1,500 | 2,500 | 3,600 | 4,900 |
| | | | 60 | 4.1 | 1,170 | 2,460 | 3,690 | 5,650 | 6,900 | 1,170 | 2,460 | 3,690 | 5,650 | 6,900 |
| | | | 75 | 5.2 | 1,410 | 2,880 | 4,150 | 6,450 | 7,490 | 1,410 | 2,880 | 4,150 | 6,450 | 7,490 |
| | | | 100 | 6.9 | 1,800 | 3,540 | 5,790 | 7,520 | 8,150 | 1,800 | 3,540 | 5,790 | 7,520 | 8,150 |
| | | | 15 | 1.03 | 390 | 840 | 1,480 | 2,300 | 2,930 | 390 | 840 | 1,480 | 2,300 | 2,930 |
| | | | 20 | 1.4 | 500 | 1,100 | 1,880 | 2,700 | 3,830 | 500 | 1,100 | 1,880 | 2,700 | 3,830 |
| | | | 30 | 2.1 | 690 | 1,500 | 2,460 | 3,550 | 4,840 | 690 | 1,500 | 2,460 | 3,550 | 4,840 |
| | | | 60 | 4.1 | 1,170 | 2,460 | 3,690 | 5,650 | 6,900 | 1,170 | 2,460 | 3,690 | 5,650 | 6,900 |
| | | | 75 | 5.2 | 1,410 | 2,280 | 4,150 | 6,450 | 7,490 | 1,410 | 2,280 | 4,150 | 6,450 | 7,490 |
| | | | 100 | 6.9 | 1,800 | 3,540 | 4,790 | 7,520 | 8,150 | 1,800 | 3,540 | 4,790 | 7,520 | 8,150 |
| | | | 150 | 10.3 | 2,580 | 4,660 | 5,680 | 9,980 | 10,800 | 2,580 | 4,660 | 5,680 | 9,980 | 10,800 |
| | 10 | 0.69 | 200 | 13.8 | 3,370 | 5,620 | 6,360 | 11,000 | 12,900 | 3,370 | 5,620 | 6,360 | 11,000 | 12,900 |
| | | | 300 500 | 20.7 34.5 | 4,880 | 6,890 | 7,780 | 13,600 | | 4,880 | 6,890 | 7,780 | 13,600 | |
| | | | 750 | | 6,720 | 8,570 | 11,600 | | | 6,720 | 8,570 | 11,600 | | |
| 5 to 20 psig ² 0.34 to 1.4 bar) | | | 1,000 | 51.7 69.0 | 9,500 | 9,000 | | | | 8,850 9,500 | 9,000 | | | |
| Yellow Spring | | | 1,250 | 86.2 | 9,500 | | | | | 9,500 | | | | |
| reliow opining | | | 1,500 | 103 | | | | | | | | | | |
| | | | 1,750 | 121 | | | | | | | | | | |
| | | | 2,000 | 138 | | | | | | | | | | |
| | | | 30 | 2.1 | 600 | 1,390 | 2,580 | 4,350 | 6,290 | 600 | 1,390 | 2,580 | 4,350 | 6,290 |
| | | | 50 | 3.4 | 1,000 | 2,250 | 4,090 | 7,600 | 8,000 | 1,000 | 2,250 | 4,090 | 7,600 | 8,000 |
| | | | 60 | 4.1 | 1,170 | 2,630 | 4,750 | 7,800 | 10,600 | 1,170 | 2,630 | 4,750 | 7,800 | 10,600 |
| | | | 100 | 6.9 | 1,800 | 4,070 | 7,310 | 10,800 | 13,400 | 1,800 | 4,070 | 7,310 | 10,800 | 13,400 |
| | l | ı | 150 | 10.3 | 2,580 | 5,720 | 10,300 | 13,500 | 14,000 | 2,580 | 5,720 | 10,300 | 13,500 | 14,000 |
| | | | 200 | 13.8 | 3,370 | 7,050 | 10,500 | 14,000 | 14,400 | 3,370 | 7,050 | 10,500 | 14,000 | 14,400 |
| | | ١ | 300 | 20.7 | 4,910 | 9,250 | 10,800 | 14,900 | | 4,910 | 9,250 | 10,800 | 14,900 | |
| | 20 | 1.4 | 500 | 34.5 | 7,830 | 11,800 | 13,000 | | | 7,830 | 11,800 | 13,000 | | |
| | | | 750 | 51.7 | 9,000 | 12,000 | | | | 9,000 | 12,000 | | | |
| | l | ı | 1,000 | 69.0 | 9,660 | | | | | 9,660 | | | | |
| | | | 1,250 | 86.2 | | | | | | | | | | |
| | | | 1,500 | 103 | | | | | | | | | | |
| | | | 1,750 | 121 | | | | | | | | | | |
| | | | 2,000 | 138 | | | | | | | | | | |
| | | | 60 | 4.1 | 1,090 | 2,430 | 4,510 | 9,200 | 9,400 | 1,090 | 2,430 | 4,510 | 9,200 | 9,400 |
| | | | 75 | 5.2 | 1,370 | 3,080 | 5,640 | 10,800 | 16,300 | 1,370 | 3,080 | 5,640 | 10,800 | 16,300 |
| | | | 100 | 6.9 | 1,790 | 4,070 | 7,310 | 13,500 | 17,600 | 1,790 | 4,070 | 7,310 | 13,500 | 17,600 |
| | | | 150 | 10.3 | 2,580 | 5,850 | 10,500 | | 22,200 | 2,580 | 5,850 | 10,500 | | _ |
| | | | 200 | 13.8 | 3,370 | 7,630 | 11,000 | | 24,600 | 3,370 | 7,630 | 11,000 | | 24,600 |
| 15 to 40 psig | | | 300 | 20.7 | 4,910 | 11,200 | 14,900 | 24,400 | | 4,910 | 11,200 | 14,900 | 24,400 | |
| (1.0 to 2.8 bar) | 40 | 2.8 | 500 | 34.5 | 8,090 | 16,300 | | | | 8,090 | | 21,800 | | |
| Green Spring | | | 750 | 51.7 | | 20,200 | 23,600 | | | | 20,200 | 23,600 | | |
| | | | 1,000 | 69.0 | | 23,200 | | | | | 23,200 | | | |
| | | | 1,250 | 86.2 | 19,000 | | | | | 19,000 | | | | |
| | | | 1,500 | 103 | 21,000 | | | | | 21,000 | | | | |
| | | | 1,750 | 121 | | | | | | | | | | |
| | | | 2,000 | 138 | | | | | | | | | | |

| Outlet | Ou | tlet | 1* Body Size Inlet Pressure Orifice Diameter | | | | | | Body Si | ze | | | | |
|-------------------|------|----------|--|--------------|----------------|------------------|--------|--------|---------|--------|---------|------------|--------|--------|
| Pressure | Pres | | Inlet Pr | essure | | | _ | | | | | ifice Diam | | |
| Range | | | | - | 4055 | _ | | | 500 | 4057 | | | | 500 |
| | psig | bar | psig | bar | .125" | .188" | .25" | .375" | .50" | .125" | .188" | .25" | .375* | .50" |
| | | | 75 | 5.2 | 1,230 | 2,760 | 4,860 | 8,600 | 12,800 | 1,230 | 2,760 | 4,860 | 8,600 | 12,800 |
| | | | 100 | 6.9 | 1,740 | 3,910 | 7,000 | 12,500 | 16,700 | 1,740 | 3,910 | 7,000 | 12,500 | 16,700 |
| | | | 150 | 10.3 | 2,580 | 5,850 | 10,500 | 16.800 | 23,000 | 2,580 | 5,850 | 10,500 | 16,800 | 23,000 |
| | | | 200 | 13.8 | 3,370 | 7,630 | 13,700 | 20.900 | 27,700 | 3,370 | 7,630 | 13,700 | 20,900 | 27,700 |
| | | | 300 500 | 20.7 34.5 | 4,910 8,090 | 11,200 | 20,100 | 28,100 | | 4,910 | 11,200 | 20,100 | 28,100 | |
| | 60 | 4.1 | 750 | 51.8 | 12,000 | 18,300 27,200 | 37,400 | _ | | 12,000 | 18,300 | 37,400 | - | - |
| | | | 1,000 | 69.0 | 16,000 | | 37,400 | | | | 33,300 | 37,400 | | |
| | | | 1,250 | 86.2 | 19,000 | 33,300 | | | | 19,000 | 33,300 | | | |
| | | | 1,500 | 103 | 22,000 | | | | | 22,000 | | | | |
| 35 to 80 psig | | | 1,750 | 121 | 25,000 | | | | | 25,000 | | | | |
| (2.4 to 5.5 bar) | | | 2,000 | 138 | 20,000 | | | | | 25,000 | | | | |
| Blue Spring | - | | 100 | 5.2 | 1,630 | 3,570 | 6.490 | 12,000 | 17,200 | 1,630 | 3,570 | 6,490 | 12,000 | 17,200 |
| Lius opinig | | | 150 | 10.3 | 2,580 | 5,750 | 10,500 | 18,900 | 25,000 | 2,580 | 5,750 | 10,500 | 18,900 | 25,000 |
| | | | 200 | 13.8 | 3,370 | 7,630 | 13,700 | 23,000 | 29,000 | 3,370 | 7,630 | 13,700 | 23,000 | 29,000 |
| | | | 300 | 20.7 | 4,910 | 11,200 | 20,100 | 26,000 | 20,000 | 4,910 | 11,200 | 20,100 | 26,000 | 23,000 |
| | | | 500 | 34.5 | 8,090 | 18,300 | 29,000 | 20,000 | | 8.090 | 18,300 | 29,000 | 20,000 | |
| | 80 | 5.5 | 750 | 51.8 | 12,000 | 23,100 | 30,900 | | | 12,000 | 23,100 | 30,900 | | |
| | | | 1,000 | 69.0 | 16,000 | 27,400 | | | | | 27,400 | | | |
| | | | 1,250 | 86.2 | 19,000 | | | | | 19,000 | 2111100 | | | |
| | l | | 1,500 | 103 | 22,000 | | | | | 22,000 | | | | |
| | | | 1,750 | 121 | 25,000 | | | | | 25,000 | | | | |
| i i | l | i | 2,000 | 138 | | | | | | | | | | |
| | | | 150 | 10.3 | 2,510 | 5,540 | 8,310 | 15,500 | 20,300 | 2,510 | 5,540 | 8,310 | 15,500 | 20,300 |
| | | | 200 | 13.8 | 3,370 | 7,630 | 12,000 | 20,100 | 25,700 | 3,370 | 7,630 | 12,000 | 20,100 | 25,700 |
| | l | | 300 | 20.7 | 4,910 | 11,200 | 18,200 | | | 4,910 | 11,200 | 18,200 | | |
| | | | 500 | 34.5 | 8,090 | 18,300 | | | | 8,090 | 18,300 | | | |
| | 100 | 6.9 | 750 | 51.8 | 12,000 | | | | | 12,000 | | | | |
| | 100 | 0.5 | 1,000 | 69.0 | 16,000 | | | | | 16,000 | | | | |
| | | | 1,250 | 86.2 | | | | | | | | | | |
| | | | 1,500 | 103 | | | | | | | | | | |
| | | | 1,750 | 121 | | | | | | | | | | |
| | | | 2,000 | 138 | | | | | | | | | | |
| | | | 150 | 10.3 | 2,300 | 5,090 | 9,130 | 15,700 | 20,800 | 2,300 | 5,090 | 9,130 | 15,700 | 20,800 |
| | | | 200 | 13.8 | 3,320 | 7,360 | 13,160 | 22,400 | 28,800 | 3,320 | 7,360 | 13,160 | 22,400 | 28,800 |
| 70 to 150 psig | | | 300 | 20.7 | 4,910 | 11,200 | 19,700 | | | 4,910 | 11,200 | 19,700 | | |
| (4.8 to 10.3 bar) | | | 500 | 34.5 | 8,090 | 18,300 | | | | 8,090 | 18,300 | | | |
| Red Spring | 125 | 8.6 | 750 | 51.8 | 12,000 | | | | | 12,000 | | | | |
| | | | 1,000 | 69.0 | 16,000 | | | | | 16,000 | | | | |
| | | | 1,250 | 86.2 | | | | | | | | | | |
| | | | 1,500 | 10. | | | | | | | | | | |
| | | | 1,750 | 121 | | | | | | | | | | |
| | | \vdash | 2,000 | 138 | 0.000 | 7.000 | 40.500 | 04 100 | 00.000 | 0.000 | 7.000 | 40.500 | 04 400 | 00.000 |
| | | | 200 | 13.8 | 3,200 | 7,020 | 12,500 | 21,400 | 30,600 | | | | 21,400 | 30,600 |
| | | | 300 | 20.7 | 4,910 | | 17,200 | | | | 11,200 | 17,200 | | |
| | | | 500 | 34.5 | 8,090 | 18,300 | | | | | 18,300 | | | |
| | 150 | 100 | 750 | 51.8 | 12,000 | | | | | 12,000 | | | | |
| | 150 | 10.3 | 1,000 | 69.0 | 16,000 | | | | | 16,000 | | | | |
| | | | 1,250 | 86.2 | | | | | | | | | | |
| | | | 1,500 | 103 | | | | | | | | | | |
| | | | 1,750 | 121 | | | | | | | | | | |
| | | | 2,000 | 138 | | | | | | | | | | |

⁻Capacity is based on 20 percent droop unless otherwise noted below.

⁻For pressure setting under 10 psig (0.69 bar) limit the input pressure to 100 psig (6.9 bar) to obtain the set point.

⁻For 5 psig (0.34 bar) pressure set point, the droop is 2 psig (0.14 bar).

⁻Grayed out areas indicate that the inlet pressure is too high for a given orifice size.

⁻¹⁰⁻⁹⁵ psi utility spring available.

⁻To convert capacities to another gas, multiply by .775 and divide by the square root of the specific gravity of the desired gas.

⁻To convert SCFH to m3 /hr, multiply 0.0268.

Capacities of 0.6 S.G. Natural Gas in SCFH - RG20H

| Precision Precision Precision Processor Proc | Outlet | Ou | tiet | 1" Body Size Inlet Pressure Orifice Diameter | | | | | 2 | * Body S | ize | | | | | |
|--|--------------------|----------|------|--|--------|--------|--------|--------|---------|----------|--------|--------|--------|---------|----------------|--|
| Raingard | Outlet | | | Inlet Pr | essure | | | _ | | | | | | | | |
| 140 to 250 psig (9.7 to 17.2 bar) Blue Spring (9.7 to 17.2 | Pressure Range | psig | bar | psig | bar | .125" | | _ | | .50" | .125" | | _ | | .50" | |
| 140 to 250 psig (8.7 to 17.2 bsig) 1.50 psig (8.7 to 17.2 | - J | | | | 13.8 | | 7.290 | 11.500 | | 31.000 | 3.200 | 7.290 | 13.700 | | 31.000 | |
| 140 to 250 psig (9.7 to 17.2 bs) 1.50 to 18.00 to 18. | 1 1 | | | _ | | _ | _ | _ | | | | | | | | |
| 140 to 250 psig (8.7 to 17.2 bar) Blue Spring RG20H Orly 13.8 2.80 16.000 2.70 4.900 2.70 4.900 2.70 4.900 2.70 4.900 2.70 4.900 4.9 | | | | | | _ | | | 31,000 | | | _ | | | | |
| 150 | | | i i | 400 | | | | _ | _ | | | | _ | | | |
| 140 to 250 prig (9.7 to 17.2 bar) 13.8 29.00 15.0 | 1 1 | | i I | 500 | 34.5 | 8,090 | 18,300 | 32,000 | 51,000 | | 8,090 | 18,300 | 32,000 | | | |
| 140 to 250 psig (8.7 to 17.2 bar) 17.20 25.00 25.000 25. | | 150 | 10.3 | 750 | 51.7 | 12,000 | 27,200 | 46,000 | | | 12,000 | 27,200 | 48,000 | | | |
| 140 to 250 psig (8.7 to 17.2 bar) 13.8 28.000 12.000 13.800 14.000 14.000 3.850 8.400 16.100 33.000 41.000 14.000 14.000 3.850 8.400 16.100 33.000 41.000 3.850 8.400 16.100 33.000 41.000 4 | 1 1 | | i i | 1,000 | 69.0 | 16,000 | 36,100 | 60,000 | | | 16,000 | 36,100 | 65,000 | | | |
| 1,750 121 25,000 63,000 25,000 63,000 25,000 63,000 | | | | 1,250 | 86.2 | 19,000 | 45,000 | | | | 19,000 | 45,000 | | | | |
| 140 to 250 psig (9.7 to 17.2 bar) 250 | | | | 1,500 | 103 | 22,000 | 54,000 | | | | | 54,000 | | | | |
| 140 to 250 psig (9.7 to 17.2 bar) 200 20.7 4,910 11,200 19,500 30,000 4,910 11,200 20,100 30,000 52,000 68,000 | | | | 1,750 | 121 | 25,000 | 63,000 | | | | 25,000 | 63,000 | | | | |
| 140 to 250 psig (9.7 to 17.2 bar) Blue Spring RG20H Only RG20H Only 13.8 13 | | | | 2,000 | 138 | 28,000 | | | | | 28,000 | | | | | |
| 18.0 | | | | 250 | 17.2 | 3,850 | 8,400 | 15,000 | 31,000 | _ | 3,850 | 8,400 | 16,100 | 33,000 | 41,000 | |
| 9.7 to 17.2 bar) Blue Spring 200 13.8 25.00 26.500 52.000 65.000 14.800 26.500 52.000 65.000 6 | 140 to 250 psig | | | 300 | | | | 19,500 | | | | | | | | |
| Blue Spring RG20H Only 13.8 13.8 18.90 18.300 18.300 18.300 27.200 29.000 | | | | | | _ | _ | | | 68,000 | _ | _ | | | 68,000 | |
| RG20H Only 13.8 | | | | 500 | | | _ | 33,000 | 61,000 | | | | _ | 61,000 | | |
| RG20H Only 1,000 | Dide opring | 200 | 13.8 | | | | | | | | | | | | | |
| 1,500 10, 22,000 49,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 26,000 | BG20H Only | 200 | | | | _ | _ | 65,000 | | | | | 65,000 | | | |
| 1,750 | I II GEGIT GILLY | | | _ | | | | | | | | | | | \blacksquare | |
| 250 17.2 17.2 17.2 25.00 13.8 28,000 9,900 18,500 37,000 75,000 4,500 9,900 18,500 37,000 75,000 18,500 37,000 75,000 18,500 37,000 75,000 18,500 37,000 75,000 18,500 37,000 75,000 18,500 37,000 75,000 18,500 37,000 75,000 18,500 37,000 75,000 18,000 27,200 49,000 10,000 12,000 27,200 49,000 102,000 12,000 27,200 49,000 102,000 12,000 27,200 49,000 102,000 12,000 27,200 49,000 102,000 12,000 27,200 49,000 102,000 12,000 27,200 49,000 102,000 12,000 27,200 49,000 102,000 12,000 27,200 49,000 102,000 12,000 27,200 49,000 102,000 12,000 27,200 49,000 102,000 12,000 27,200 49,000 102,000 12,000 27,000 45,000 81,000 12,000 27,000 45,000 81,000 12,000 27,000 45,000 81,000 12,000 27,000 45,000 81,000 12,000 27,000 45,000 81,000 12,000 27,000 45,000 81,000 12,000 27,000 45,000 81,000 12,000 27,000 45,000 12,000 27,000 45,000 12,000 27,000 45,000 12,000 27,000 45,000 12,000 27,000 45,000 12,000 27,000 45,000 12,000 27,000 45,000 12,000 27,000 45,000 12,000 27,000 45,000 12,000 27,000 45,000 12,000 27,000 45,000 12,000 27,000 45,000 12,000 27,000 45,000 12,000 27,000 45,000 12,000 27,000 45,000 12,000 27,000 45,000 12,000 27,000 45,000 12,000 27,000 45,000 12,000 27,000 45,000 12,000 27,000 44,000 45,000 45,000 12,000 27,000 44,000 45,000 12,000 27,000 44,000 45,000 | | | | | | | | | | | _ | | | | \blacksquare | |
| 250 17.2 300 20.7 4,500 9,900 18,500 37,000 75,000 4,500 9,900 18,500 37,000 75,000 6,400 14,300 26,000 55,000 81,000 6,400 14,300 26,000 55,000 81,000 6,400 14,300 26,000 55,000 81,000 6,400 14,300 26,000 55,000 81,000 6,400 14,300 26,000 65,000 8,090 18,300 33,000 64,000 95,000 8,090 18,300 33,000 64,000 95,000 12,000 | | | | _ | | | 63,000 | | | | | 63,000 | | | \blacksquare | |
| 250 17.2 1 | | | | | | | | | | | | | | | | |
| 250 17.2 17. | | | | | | _ | _ | | | _ | | _ | _ | | | |
| 250 17.2 750 51.8 12,000 27,200 49,000 102,000 12,000 27,200 49,000 102,000 12,000 12,000 102,000 12,000 103,000 | | | | | | | | | - | | | | | | _ | |
| 250 17.2 1,000 69.0 16,000 36,100 65,000 16,000 36,100 65,000 1,250 86.2 19,000 45,000 81,000 19,000 45,000 81,000 1,500 103 22,000 54,000 55,000 | | | | | | | | | | 95,000 | | | | | 95,000 | |
| 1,250 86.2 19,000 45,000 81,000 19,000 45,000 81,000 1,500 1,500 103 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 54,000 22,000 55,000 81,000 55,000 | | 050 | 47.0 | | | _ | | | 102,000 | | | | | 102,000 | \vdash | |
| 1,500 | | 250 | 17.2 | | | | | | | | | | | | \vdash | |
| 1,750 | | | | | | _ | _ | 81,000 | | | _ | | 81,000 | | \vdash | |
| 2,000 | | | | _ | | | | | | | | | | | \vdash | |
| 240 to 500 psig (16.5 to 34.5 bar) Red Spring RG20H Only A | | | | | | | | | | | | | | | - | |
| A | $\overline{}$ | | _ | | | _ | _ | 18 500 | 27.000 | 75.000 | | | 18.500 | 27.000 | 75 000 | |
| 250 17.2 17. | | | | | | - | | | | | _ | _ | | | _ | |
| 250 17.2 17. | | | | | | | | | | | | | | | | |
| 240 to 500 psig (16.5 to 34.5 bar) Red Spring RG20H Only 250 17.2 1,000 1,250 17.2 1,000 1,25 | | | | - | | | | _ | | 50,000 | | | - | - 4000 | 50,000 | |
| 240 to 500 psig (16.5 to 34.5 bar) Red Spring RG20H Only 1,500 24.1 5,150 25,000 26,000 27,000 28,000 2 | | 250 | 17.9 | | | | | | 102,000 | | | | | 102,000 | \vdash | |
| 240 to 500 psig (16.5 to 34.5 bar) Red Spring RG20H Only 8 2000 103 22,000 54,000 25,000 63,000 25,000 63,000 20,000 138 28,000 71,000 28,000 71,000 28,000 71,000 28,000 71,000 28,000 71,000 28,000 71,000 28,000 71,000 28,000 71,000 28,000 71,000 28,000 71,000 28,000 71,000 28,000 71,000 28,000 71,000 28,000 71,000 27,66 6,200 13,700 23,400 40,000 52,000 62,000 13,700 23,400 40,000 52,000 750 51.7 12,000 27,200 48,000 80,000 12,000 27,200 48,000 80,000 12,000 750 51.7 12,000 27,200 48,000 80,000 12,000 27,200 48,000 80,000 12,000 750 86.2 19,000 45,000 79,000 19,000 45,000 79,000 1500 103 22,000 54,000 22,000 54,000 22,000 54,000 1750 121 25,000 63,000 25,000 63,000 25,000 63,000 1750 121 25,000 63,000 25,000 63,000 25,000 63,000 1750 121 25,000 63,000 25,000 63,000 125,000 63,000 1750 121 25,000 63,000 125,000 63,000 125,000 63,000 1750 121 25,000 63,000 125,000 63,000 125,000 63,000 1750 121 25,000 63,000 125,000 63,000 | | 250 | 11.2 | | | | | | | | | | | | \vdash | |
| 1,750 121 25,000 63,000 25,000 63,000 2,000 138 28,000 71,000 28,000 71,000 28,000 71,000 28,000 71,000 28,000 71,000 28,000 71,000 28,000 71,000 28,000 71,000 28,000 71,000 28,000 71,000 28,000 71,000 28,000 71,000 28,000 71,000 28,000 71,000 28,000 71,000 28,000 71,000 | | | | | | | | 01,000 | | | | | 61,000 | | \vdash | |
| Red Spring 350 24.1 5,150 11,300 18,400 31,000 45,000 5,150 11,300 18,400 31,000 45,000 45,000 5,150 11,300 18,400 31,000 45,000 45,000 13,700 23,400 40,000 52,000 6,200 13,700 23,400 40,000 52,000 52,000 6,200 13,700 23,400 40,000 52,000 67,000 18,300 32,000 53,000 67,000 750 51.7 12,000 27,200 48,000 80,000 12,000 27,200 48,000 80,000 12,000 27,200 48,000 80,000 12,000 27,200 48,000 80,000 12,000 27,200 48,000 80,000 12, | | | | | | | | | | | | | | | \vdash | |
| RG20H Only 350 24.1 5,150 11,300 18,400 31,000 45,000 5,150 11,300 18,400 31,000 45,000 | (16.5 to 34.5 bar) | | | | | _ | _ | | | | | | | | \vdash | |
| A00 27.6 6,200 13,700 23,400 40,000 52,000 6,200 13,700 23,400 40,000 52,000 6,200 13,700 23,400 40,000 52,000 50, | Red Spring | | | | | _ | | 18 400 | 31,000 | 45 000 | | | 18 400 | 31,000 | 45,000 | |
| HG20H Only 500 34.5 8,090 18,300 32,000 53,000 67,000 8,090 18,300 32,000 53,000 67,000 750 51.7 12,000 27,200 48,000 80,000 12,000 27,200 48,000 80,000 1000 69 16,000 36,100 62,000 16,000 36,100 62,000 1250 86.2 19,000 45,000 79,000 19,000 45,000 79,000 1500 103 22,000 54,000 22,000 54,000 1750 121 25,000 63,000 25,000 63,000 | | | | | | | | | | | | | | | | |
| 750 51.7 12,000 27,200 48,000 80,000 12,000 27,200 48,000 80,000 10,000 27,200 48,000 80,000 10,000 36,100 62,000 16,000 36,100 62,000 1250 86.2 19,000 45,000 79,000 19,000 45,000 79,000 1500 103 22,000 54,000 22,000 54,000 25,000 63,000 1750 121 25,000 63,000 25,000 63,000 | RG20H Only | 300 20.7 | | - | | | | | | | | _ | _ | | _ | |
| 300 20.7 1000 69 16,000 36,100 62,000 16,000 36,100 62,000 1250 86.2 19,000 45,000 79,000 19,000 45,000 79,000 1500 103 22,000 54,000 22,000 54,000 25,000 63,000 | | | | | | | | | 51,000 | | | | | 31,000 | | |
| 1250 86.2 19,000 45,000 79,000 19,000 45,000 79,000 1500 103 22,000 54,000 22,000 54,000 1750 121 25,000 63,000 25,000 63,000 | | | 20.7 | | | | | | 33,500 | | | | | 53,866 | \vdash | |
| 1500 103 22,000 54,000 22,000 54,000 1750 121 25,000 63,000 25,000 63,000 | | | | _ | | | | | | | | | | | \Box | |
| 1750 121 25,000 63,000 25,000 63,000 | | | | | | | | | | | | | | | | |
| | | | | | _ | | _ | _ | | | | | | | | |
| | | | | 2000 | 138 | | | | | | | | | | | |

| Outlet | Ou | tlet | LIAN | Inlet Pressure | | 1 | * Body Si | ze | | | 2 | " Body Si | ze | |
|--------------------|------|------|---------|----------------|--------|--------|-----------|---------|---------|--------|--------|------------|---------|---------|
| Pressure | Pres | sure | inlet P | essure | | Ori | fice Diam | eter | | | Or | ifice Diam | eter | |
| Range | psig | bar | psig | bar | .125" | .188" | .26" | .375" | .50" | .125" | .188" | .25" | .375* | .50" |
| | | | 450 | 31 | 6,400 | 14,000 | 25,000 | 47,000 | 67,000 | 6,400 | 14,000 | 25,000 | 47,000 | 67,000 |
| | | | 500 | 34.6 | 8,090 | 18,300 | 32,000 | 54,000 | 77,000 | 8,090 | 18,300 | 32,000 | 54,000 | 77,000 |
| | | | 750 | 51.7 | 12,000 | 27,200 | 49,000 | 91,000 | | 12,000 | 27,200 | 49,000 | 91,000 | |
| | 400 | 27.6 | 1000 | 69 | 16,000 | 36,100 | 65,000 | | | 16,000 | 36,100 | 65,000 | | |
| | 400 | 27.6 | 1250 | 86.2 | 19,000 | 45,000 | 81,000 | | | 19,000 | 45,000 | 81,000 | | |
| 240 to 500 psig | | | 1500 | 103 | 22,000 | 54,000 | | | | 22,000 | 54,000 | | | |
| (16.5 to 34.5 bar) | | | 1750 | 121 | 25,000 | 63,000 | | | | 25,000 | 63,000 | | | |
| Red Spring | | | 2000 | 138 | 28,000 | 71,000 | | | | 28,000 | 71,000 | | | |
| neu opring | | | 550 | 37.9 | 7,700 | 16,800 | 33,000 | 62,000 | 90,000 | 7,700 | 16,800 | 33,000 | 62,000 | 90,000 |
| RG20H Only | | | 600 | 47.4 | 8,800 | 19,400 | 37,000 | 70,000 | 104,000 | 8,800 | 19,400 | 37,000 | 70,000 | 104,000 |
| HG2UH Only | | | 750 | 51.7 | 12,000 | 27,200 | 49,000 | 88,000 | 140,000 | 12,000 | 27,200 | 49,000 | 88,000 | 140,000 |
| | 500 | 34.5 | 1000 | 69 | 16,000 | 36,100 | 65,000 | 130,000 | | 16,000 | 36,100 | 65,000 | 130,000 | |
| | 500 | 34.5 | 1250 | 86.2 | 19,000 | 45,000 | 81,000 | | | 19,000 | 45,000 | 81,000 | | |
| | | | 1500 | 103 | 22,000 | 54,000 | 97,000 | | | 22,000 | 54,000 | 97,000 | | |
| | | | 1750 | 121 | 25,000 | 63,000 | | | | 25,000 | 63,000 | | | |
| | | | 2000 | 138 | 28,000 | 71,000 | | | | 28,000 | 71,000 | | | |

- -Capacity is based on 20 percent droop unless otherwise noted below.
- -For pressure setting under 10 psig (0.69 bar) limit the input pressure to 100 psig (6.9 bar) to obtain the set point.
- -For 5 psig (0.34 bar) pressure set point, the droop is 2 psig (0.14 bar).
- -Grayed out areas indicate that the inlet pressure is too high for a given orifice size.
- -10-95 psi utility spring available.
- -To convert capacities to another gas, multiply by .775 and divide by the square root of the specific gravity of the desired gas.
- -To convert SCFH to m3 /hr, multiply 0.0268.

Pressure Ranges

| Maximum Inlet Pressure | | | | | | | | | | | | | |
|------------------------------------|--|-----------|------------|-------------|------------|------------|------------|------------|-------------|------|------|-------|------|
| | | | | RV20 an | d RV20H | | | | | RV | 20R | | |
| Outlet Pressure Range | Orifice Size | Nylon | Disk | Buna | Disk | Viton | Disk | Nylon | Disk | Buna | Disk | Vitor | Disk |
| nange | Size | psi | bar | psi | bar | psi | bar | psi | bar | psi | bar | psi | bar |
| | .125" | 1000 | 69 | 1000 | 69.0 | 300 | 20.7 | 1000 | 69 | 1000 | 69 | 300 | 20.7 |
| E11-00 | .188* | 750 | 51.7 | 750 | 51.7 | 300 | 20.7 | 750 | 51.7 | 750 | 51.7 | 300 | 20.7 |
| 51 to 20 psig (0.34 to 1.4 bar) | .25" | 500 | 34.5 | 500 | 34.5 | 300 | 20.7 | 500 | 34.5 | 500 | 34.5 | 300 | 20.7 |
| (0.34 to 1.4 bar) | .375" | 300 | 20.7 | 300 | 20.7 | 300 | 20.7 | 300 | 20.7 | 300 | 20.7 | 300 | 20.7 |
| | .50" | 250 | 17.2 | 250 | 17.2 | 250 | 17.2 | 200 | 13.8 | 200 | 13.8 | 200 | 13.8 |
| | .125* | 1500 | 103.4 | 1000 | 69.0 | 300 | 20.7 | 1500 | 103 | 1000 | 69 | 300 | 20.7 |
| 15 to 40 psig | .188" | 1000 | 69.0 | 1000 | 69.0 | 300 | 20.7 | 1000 | 69 | 1000 | 69 | 300 | 20.7 |
| (1.0 to 2.8 bar) | .25" | 750 | 51.7 | 750 | 51.7 | 300 | 20.7 | 750 | 51.7 | 750 | 51.7 | 300 | 20.7 |
| (1.0 to 2.6 bar) | .375* | 500 | 34.5 | 500 | 34.5 | 300 | 20.7 | 300 | 20.7 | 300 | 20.7 | 300 | 20.7 |
| | .50° 300 20.7 300 20.7 300 20.7 200 13.8 200 13.8 200 13.8 | | | | | | | | | | | | |
| | .125* | 2000 | 137.9 | 1000 | 69.0 | 300 | 20.7 | 1750 | 121 | 1000 | 69 | 300 | 20.7 |
| 35 to 80 psig | .188* | 1750 | 120.7 | 1000 | 69.0 | 300 | 20.7 | 1000 | 69 | 1000 | 69 | 300 | 20.7 |
| (2.4 to 5.5 bar) | .25* | 1500 | 103.4 | 1000 | 69.0 | 300 | 20.7 | 750 | 51.7 | 750 | 51.7 | 300 | 20.7 |
| (2.410 0.5 011) | .375* | 1000 | 69.0 | 1000 | 69.0 | 300 | 20.7 | 300 | 20.7 | 300 | 20.7 | 300 | 20.7 |
| | .50" | 750 | 51.7 | 750 | 51.7 | 300 | 20.7 | 200 | 13.8 | 200 | 13.8 | 200 | 13.8 |
| | .125* | 2000 | 137.9 | 1000 | 69.0 | 300 | 20.7 | 1000 | 69 | 1000 | 69 | 300 | 20.7 |
| 70 to 150 psig | .188* | 2000 | 137.9 | 1000 | 69.0 | 300 | 20.7 | 500 | 34.5 | 500 | 34.5 | 300 | 20.7 |
| (4.8 to 10.3 bar) | .25* | 1750 | 120.7 | 1000 | 69.0 | 300 | 20.7 | 300 | 20.7 | 300 | 20.7 | 300 | 20.7 |
| (4.0 10 10.0 011) | .375* | 1250 | 86.2 | 1000 | 69.0 | 300 | 20.7 | 200 | 13.8 | 200 | 13.8 | 200 | 13.8 |
| | .50" | 750 | 51.7 | 750 | 51.7 | 300 | 20.7 | 200 | 13.8 | 200 | 13.8 | 200 | 13.8 |
| | .125* | 2000 | 138 | | | | | | | | | | |
| 140 to 250 psig | .188* | 1750 | 121 | | | | | | | | | | |
| (9.7 to 17.2 bar) | .25* | 1500 | 103 | | | | | | | | | | |
| (5.7 10 17.2 00) | .375* | 1000 | 69.0 | | | | | | | | | | |
| | .50* | 750 | 51.7 | | | | | | | | | | |
| | .125* | 2000 | 138 | | | | | | | | | | |
| 240 to 500 psig | .188* | 1750 | 121 | | | | | | | | | | |
| (16.5 to 34.5 bar) | .25" | 1500 | 103 | | | | | | | | | | |
| (10.0 to 04.0 bar) | .375* | 1000 | 69.0 | | | | | | | | | | |
| | .50* | 750 | 51.7 | | | | | | | | | | |
| For outlet pressu | ure settin | g below 1 | 0 psi (.69 | bar), the i | nlet press | ure should | d be 100 p | si (6.9 ba | r) or less. | | | | |

| Outlet | Out | | | wnstream | Maximum | | to keep Maxim sure from Beir | um Allowed D | ownstream | |
|-------------------------|----------|---------|------------|--------------|----------------|--------------|---------------------------------|--------------|------------|-----|
| Pressure | Pressure | Setting | Pres | sure | | | vn Per Orifice | • | | |
| Range | psig | bar | psi | bar | .125° | .188* | .25" | .375" | .50" | |
| | | | 60 | 41 | 740 | 320 | 190 | 95 | 75 | |
| | | | 100 | 6.9 | 1,500 | 620 | 390 | 180 | 130 | |
| | 10 | 0.69 | 125 | 8.6 | 1,900 | 830 | 480 | 220 | 160 | |
| | | 0.05 | 175 | 12.1 | 2,000 | 1,100 | 670 | 320 | 220 | |
| | | | 200 | 13.8 | 2,000 | 1,300 | 770 | 360 | 260 | |
| | | | 250 60 | 17.2 4.1 | 2,000 620 | 1,600 260 | 960 170 | 450 90 | 320 70 | |
| | | | 100 | 6.9 | 1.400 | 610 | 370 | 170 | 130 | |
| 5-20 psig ^a | | | 125 | 8.6 | 1,900 | 810 | 480 | 220 | 160 | |
| (0.34 to 1.4 bar) | 15 | 1.0 | 175 | 12.1 | 2,000 | 1100 | 670 | 320 | 220 | |
| Yellow Spring | l | | 200 | 13.8 | 2,000 | 1,800 | 770 | 360 | 260 | |
| | | | 250 | 17.2 | 2,000 | 1,600 | 960 | 450 | 320 | |
| | | | 60 | 4.1 | 490 | 210 | 130 | 80 | 65 | |
| | | | 100 | 6.9 | 1,300 | 600 | 360 | 170 | 120 | |
| | 20 | 1.4 | 125 175 | 8.6 12.1 | 1,800 2.000 | 1,100 | 480 670 | 220 320 | 160 220 | |
| | | | 200 | 13.8 | 2,000 | 1,100 | 770 | 360 | 260 | |
| | | | 250 | 17.2 | 2,000 | 1,600 | 960 | 450 | 320 | |
| | | | 60 | 4.1 | 380 | 210 | 130 | 80 | 65 | |
| | | | 100 | 6.9 | 1300 | 590 | 350 | 170 | 120 | |
| | | | 125 | 8.6 | 1800 | 800 | 470 | 220 | 160 | |
| | 15 | 1.0 | 175 | 12.1 | 2000 | 1100 | 640 | 320 | 220 | |
| | | | 200 | 13.8 | 2000 | 1300 | 780 | 370 | 260 | |
| | | | 250 | 17.2 | 2000 | 1600 | 960 | 450 | 320 | |
| | | | 60 | 4.1 | 200 | 150 | 100 | 70 | 65 | |
| | | | 100 | 6.9 | 1200 | 550 | 330 | 160 | 120 | |
| | 20 | 1.4 | 125 | 8.6 | 1700 | 760 | 480 | 220 | 160 | |
| 15-40 psig ² | | | 175 200 | 12.1 | 2000 | 1100 1300 | 670 770 | 320 360 | 220 260 | |
| (1.0 to 2.8 bar) | | | 250 | 17.2 | 2000 | 1600 | 960 | 450 | 320 | |
| Green Spring | | | 100 | 6.9 | 950 | 450 | 260 | 140 | 110 | |
| | | | 125 | 8.6 | 1500 | 670 | 400 | 190 | 150 | |
| | 30 | 2.1 | 175 | 12.1 | 2000 | 1000 | 610 | 300 | 220 | |
| | | | 200 | 13.8 | 2000 | 1200 | 760 | 360 | 260 | |
| | | | 250 | 17.2 | 2000 | 1600 | 970 | 460 | 320 | |
| | | | 100 | 6.9 | 700 | 330 | 200 | 120 | 108 | |
| | | | 125 | 8.6 | 1300 | 560 | 340 | 180 | 140 | |
| | 40 | 2.1 | 175 | 12.1 | 1800 | 1000 | 550 | 290 | 220 | |
| | | | 200 250 | 13.8 17.2 | 2000 | 1200 1600 | 730 970 | 350 460 | 250 320 | |
| | | | 400 | 0.0 | 4400 | 500 | 000 | 470 | 4.40 | |
| | | | 150 | 10.3 | 1600 | 750 | 300 440 | 230 | 180 | |
| | 40 | 2.8 | 175 | 12.1 | 2000 | 980 | 580 | 290 | 220 | |
| | | | 200 | 13.8 | 2000 | 1200 | 720 | 340 | 250 | |
| | | | 250 | 17.2 | 2000 | 1600 | 940 | 450 | 320 | |
| | | | 125 | 8.6 | 820 | 400 | 230 | 150 | 140 | |
| | | | 150 | 10.3 | 1400 | 650 | 370 | 210 | 170 | |
| 35-80 psig | | 3.4 | 175 | 12.1 | 1900 | 700 | 530 | 270 | 210 | |
| (2.4 to 5.5 bar) | | | 200 | 13.8 | 2000 | 1100 | 670 | 330 | 240 | |
| Blue Spring | | | 250 | 17.2 | 2000 | 1500 | 920 | 430 | 320 | |
| _ | | | 150 175 | 10.3 12.1 | 850 1400 | 430 670 | 250 400 | 170 230 | 160 190 | |
| | | 4.8 | 200 | 13.8 | 2000 | 920 | 550 | 280 | 230 | |
| | | | 250 | 17.2 | 2000 | 1300 | 830 | 400 | 310 | |
| | | | 150 | 10.3 | 500 | 300 | 200 | 160 | 150 | |
| | | | 175 | 12.1 | 1200 | 550 | 330 | 210 | 190 | |
| | 80 | 5.5 | 200 | 13.8 | 1700 | 800 | 480 | 270 | 220 | |
| | | | | 250 | 17.2 | 2000 | 1200 | 770 | 390 | 300 |

Shaded areas indicate maximum inlet pressures allowed during system malfunction only.
 See Pressure Ranges, table gives the maximum inlet pressure for normal regulator operation.

| Outlet | Out | | Max Dov | | Maximum Inlet Pressure to keep Maximum Allowed Downstream System Pressure from Being Exceeded | | | | | | | | |
|-------------------|----------|---------|---------|------|--|-------|------|-------|------|--|--|--|--|
| Pressure Range | Pressure | setting | Fies | oute | PSI Shown Per Orifice Diameter | | | | | | | | |
| i imigo | psig | bar | psi | bar | .125" | .188" | .25" | .375" | .50" | | | | |
| | | | 175 | 12.1 | 600 | 400 | 260 | 200 | 175 | | | | |
| | 70 | 1.4 | 200 | 13.8 | 1,200 | 630 | 380 | 250 | 210 | | | | |
| | | | 250 | 17.2 | 2,000 | 1,100 | 680 | 360 | 290 | | | | |
| 70-150 psig | | | 175 | 12.1 | 250 | 240 | 200 | 190 | 175 | | | | |
| (4.8 to 10.3 bar) | 80 | 5.5 | 200 | 13.8 | 960 | 520 | 330 | 240 | 210 | | | | |
| Red Spring | | | 250 | 17.2 | 2,000 | 1,000 | 620 | 350 | 280 | | | | |
| | 100 | 6.9 | 200 | 13.8 | 250 | 240 | 230 | 210 | 210 | | | | |
| | 100 | 6.5 | 250 | 17.2 | 1,600 | 770 | 520 | 320 | 270 | | | | |
| | 125 | 8.6 | 250 | 17.2 | 1,000 | 500 | 390 | 290 | 260 | | | | |
| | 150 | 10.3 | 250 | 17.2 | 260 | 260 | 260 | 260 | 260 | | | | |

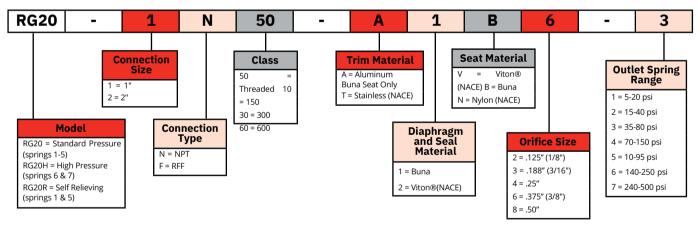
⁻ Shaded areas indicate maximum inlet pressures allowed during system malfunction only.

How to Order

Options are listed below. All configurations may not be available. Call your sales representative or FW Murphy for more information. Repair kits are available.

Example Model No. RG20-1N50-A1B6-3

RG20 Series Regulator, 1" Body, Threaded Ends, Aluminum Disk Holder, Buna Diaphragm, Buna Seat and Seals, .375" Orifice, 35-80 PSI

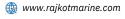


| | Approximate Weight | | | | | | | | | |
|----|--------------------|--------|--|--|--|--|--|--|--|--|
| | Material | | | | | | | | | |
| | Aluminum Steel | | | | | | | | | |
| 1" | 6.5 lbs | 10 lbs | | | | | | | | |
| 2" | 10.5 lbs | 14 lbs | | | | | | | | |



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See Pressure Ranges, table gives the maximum inlet pressure for normal regulator operation.