

For Air, Water, Non-Corrosive and Non-Viscous Liquids

The GD-200/200H offers high capacity and highly accurate control with a large, cupped diaphragm for a long stroke. Compact and rugged, the GD-200's composition valve and stainless steel seat mean high performance over a long service life. Well suited to non-viscous liquid pressure reduction, the valve is widely applied in domestic water

applications, construction equipment, irrigation, tank car loading and industrial or commercial air conditioning. Upstream variations do not affect balanced pressure valve, and composition disc assures tight shutoff. Turndown ratio is 10:1, and sizes range from 2" through 6". ANSI Class IV Shutoff.

GD-200/200H Specifications

| Model Number | Pressure | | | Spring Color | Application | Max. Temp. °F (°C) | Min. Diff. psig (bar) | Materials | | | | |
|--------------|------------------|--------------------------------------------|-------------------------------------------|--------------|-------------|--------------------|-----------------------|---------------------------|------------|-----------------------------|-----------|-------------------|
| | Inlet psig (bar) | Reduced psig (bar) | | | | | | Body | Main Valve | Valve Seat | Diaphragm | Connection |
| | | 2" - 3" (50 - 80 mm) | 4" - 6" (100 - 150 mm) | | | | | | | | | |
| GD-200 | 150 (10) | 7 - 36 (4.8 - 2.5) 37 - 100 (2.5 - 6.9) | 7 - 36 (4.8 - 2.5) 37 - 72 (2.5 - 5.0) | Yellow | Liquid Gas | 175 (79)** | 7 (.48) | Ductile Iron ASTM A536 | NBR | Stainless Steel AISI 304 | NBR*** | ANSI 150 lb. Fig. |
| GD-200H | 300 (20) | *72 - 130 (4.9 - 8.8) | *72 - 108 (4.9 - 7.3) | Black | | | | | | | | ANSI 300 lb. Fig. |

*This spring range for GD-200H only.

**With Viton® diaphragm maximum temperature is 210°F (99°C).

***Viton optional.

GD-200/200H Capacities—Air

| Inlet | Outlet | scfm | | | | | | m3/hr | | | | | | | |
|--------------|---------|-----------------|-------|-------|--------|--------|--------|-----------------|------------|-------|-------|--------|--------|--------|--------|
| | | Connection Size | | | | | | Connection Size | | | | | | | |
| | | in | | | | | | mm | | | | | | | |
| psig | | 2 | 2-1/2 | 3 | 4 | 5 | 6 | bar | | 50 | 65 | 80 | 100 | 125 | 150 |
| 15 | 8 | 216 | 377 | 485 | 917 | 1,011 | 1,456 | 1.03 | 0.55 | 366 | 641 | 824 | 1,557 | 1,718 | 2,473 |
| | 13 | 235 | 412 | 530 | 1,000 | 1,103 | 1,589 | 1.38 | 0.90 | 400 | 700 | 900 | 1,699 | 1,874 | 2,699 |
| 20 | 7 | 305 | 534 | 686 | 1,296 | 1,429 | 2,058 | 1.72 | 1.24 | 431 | 754 | 969 | 1,831 | 2,019 | 2,907 |
| | 7 | 374 | 655 | 842 | 1,591 | 1,755 | 2,527 | | 0.48 | 636 | 1,113 | 1,431 | 2,703 | 2,981 | 4,293 |
| 25 | 18 | 254 | 444 | 570 | 1,077 | 1,188 | 1,711 | 2.07 | 1.59 | 459 | 804 | 1,034 | 1,953 | 2,154 | 3,102 |
| | 7 | 374 | 655 | 842 | 1,591 | 1,755 | 2,527 | | 0.48 | 636 | 1,113 | 1,431 | 2,703 | 2,981 | 4,293 |
| 30 | 23 | 270 | 473 | 609 | 1,149 | 1,268 | 1,826 | 2.76 | 1.59 | 459 | 804 | 1,034 | 1,953 | 2,154 | 3,102 |
| | 7 | 440 | 770 | 990 | 1,870 | 2,063 | 2,970 | | 0.48 | 748 | 1,308 | 1,682 | 3,178 | 3,505 | 5,047 |
| 40 | 32 | 321 | 561 | 722 | 1,363 | 1,503 | 2,165 | 3.45 | 2.21 | 545 | 954 | 1,226 | 2,316 | 2,554 | 3,678 |
| | 20 | 476 | 833 | 1,071 | 2,024 | 2,232 | 3,214 | | 1.38 | 459 | 804 | 1,034 | 1,953 | 2,154 | 3,102 |
| 50 | 7 - 12 | 531 | 929 | 1,194 | 2,256 | 2,488 | 3,583 | 4.14 | 48 - .83 | 902 | 1,578 | 2,029 | 3,833 | 4,227 | 6,087 |
| | 40 | 389 | 681 | 875 | 1,654 | 1,824 | 2,626 | | 2.76 | 661 | 1,157 | 1,487 | 2,810 | 3,099 | 4,462 |
| 60 | 30 | 527 | 922 | 1,185 | 2,239 | 2,469 | 3,555 | 5.17 | 2.07 | 809 | 1,416 | 1,820 | 3,438 | 3,792 | 5,461 |
| | 7 - 17 | 628 | 1,099 | 1,413 | 2,668 | 2,943 | 4,238 | | 48 - 1.17 | 1,067 | 1,867 | 2,400 | 4,534 | 5,000 | 7,200 |
| 75 | 48 | 457 | 800 | 1,029 | 1,943 | 2,143 | 3,086 | 6.89 | 3.31 | 777 | 1,360 | 1,748 | 3,302 | 3,642 | 5,244 |
| | 35 | 628 | 1,099 | 1,413 | 2,669 | 2,944 | 4,239 | | 2.41 | 895 | 1,566 | 2,014 | 3,803 | 4,195 | 6,041 |
| 100 | 7 - 22 | 725 | 1,269 | 1,631 | 3,081 | 3,398 | 4,893 | 8.62 | 48 - 1.5 | 1,232 | 2,155 | 2,771 | 5,234 | 5,773 | 8,313 |
| | 60 | 559 | 979 | 1,258 | 2,377 | 2,621 | 3,775 | | 4.14 | 950 | 1,663 | 2,138 | 4,038 | 4,453 | 6,413 |
| 125 | 45 | 754 | 1,319 | 1,696 | 3,204 | 3,534 | 5,089 | 10.34 | 3.10 | 1,067 | 1,867 | 2,401 | 4,535 | 5,001 | 7,202 |
| | 7 - 30 | 870 | 1,523 | 1,959 | 3,699 | 4,080 | 5,876 | | 48 - 2.1 | 1,479 | 2,588 | 3,328 | 6,285 | 6,932 | 9,983 |
| 150 | 80 | 729 | 1,275 | 1,640 | — | — | — | 12.41 | 5.52 | 1,238 | 2,167 | 2,786 | — | — | — |
| | 60 | 980 | 1,715 | 2,205 | 4,166 | 4,594 | 6,616 | | 4.14 | 1,281 | 2,241 | 2,882 | 5,444 | 6,004 | 8,646 |
| 200 | 10 - 42 | 1,113 | 1,948 | 2,504 | 4,730 | 5,217 | 7,513 | 13.79 | 69 - 2.9 | 1,891 | 3,309 | 4,255 | 8,037 | 8,864 | 12,765 |
| | 100 | 898 | 1,572 | 2,021 | — | — | — | | 6.89 | 1,526 | 2,670 | 3,433 | — | — | — |
| 250 | 70 | 1,206 | 2,111 | 2,714 | 5,317 | 5,864 | 8,444 | 17.24 | 5.17 | 1,665 | 2,914 | 3,747 | 7,077 | 7,806 | 11,241 |
| | 13 - 55 | 1,356 | 2,372 | 3,050 | 5,762 | 6,355 | 9,151 | | 89 - 3.8 | 2,303 | 4,031 | 5,182 | 9,789 | 10,796 | 15,547 |
| 300 | 100 | 1,331 | 2,329 | 2,995 | — | — | — | 20.00 | 6.89 | 2,261 | 3,957 | 5,088 | — | — | — |
| | 80 | 1,517 | 2,655 | 3,414 | — | — | — | | 5.52 | 2,049 | 3,586 | 4,610 | — | — | — |
| GD-200H Only | 15 - 67 | 1,598 | 2,797 | 3,596 | 6,793 | 7,492 | 10,788 | 12.41 | 1.03 - 4.6 | 2,715 | 4,752 | 6,110 | 11,541 | 12,729 | 18,329 |
| | 100 | 1,772 | 3,100 | 3,986 | — | — | — | | 6.89 | 3,010 | 5,268 | 6,773 | — | — | — |
| GD-200H Only | 90 | 1,848 | 3,235 | 4,159 | — | — | — | 13.79 | 6.21 | 2,578 | 4,512 | 5,801 | — | — | — |
| | 18 - 80 | 1,889 | 3,306 | 4,251 | 8,030 | 8,856 | 12,753 | | 1.24 - 5.5 | 3,210 | 5,618 | 7,223 | 13,643 | 15,047 | 21,668 |
| GD-200H Only | 100 | 2,044 | 3,577 | 4,598 | — | — | — | 17.24 | 6.89 | 3,472 | 6,077 | 7,813 | — | — | — |
| | 20 - 92 | 2,083 | 3,646 | 4,688 | 8,855 | 9,766 | 14,063 | | 1.38 - 6.3 | 3,540 | 6,195 | 7,965 | 15,044 | 16,593 | 23,894 |
| GD-200H Only | 250 | 2,569 | 4,495 | 5,779 | 10,917 | 12,041 | 17,338 | 20.00 | 1.72 - 6.9 | 4,364 | 7,637 | 9,819 | 18,548 | 20,457 | 29,458 |
| | 300 | 3,054 | 5,344 | 6,871 | 12,979 | 14,315 | 20,613 | | 1.72 - 6.9 | 5,188 | 9,080 | 11,674 | 22,051 | 24,321 | 35,022 |

NOTE: Maximum pressure reduction ratio 10:1.

NOTES: Available in sizes below 2" upon request. Differential valve (GD-21) available upon request.

Designs, materials, weights and performance ratings are approximate and subject to change without notice. Visit armstronginternational.com for up-to-date information.

GD-200/200H

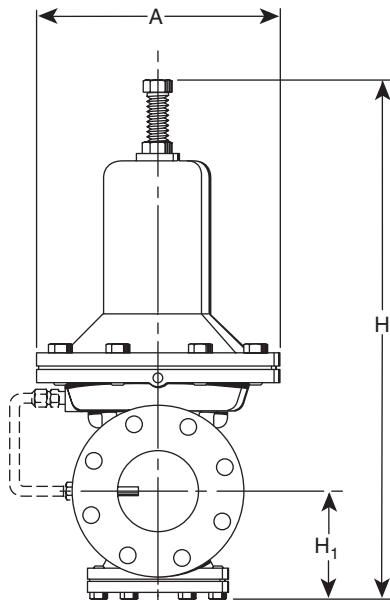


| GD-200/200H Capacities—Water | | | | | | | | | | | | | |
|------------------------------|-----------------|-------|------|------|------|-------|----------|-----------------|-------|-------|-------|--------|--------|
| ΔP | gpm | | | | | | ΔP | l/min | | | | | |
| | Connection Size | | | | | | | Connection Size | | | | | |
| | in | | | | | | | mm | | | | | |
| DP (psig) | 2 | 2-1/2 | 3 | 4 | 5 | 6 | DP (bar) | 50 | 65 | 80 | 100 | 125 | 150 |
| 7 | 42 | 74 | 95 | 180 | 198 | 286 | 0.5 | 160 | 280 | 361 | 681 | 751 | 1,082 |
| 10 | 51 | 89 | 114 | 215 | 237 | 342 | 0.7 | 192 | 335 | 431 | 814 | 898 | 1,293 |
| 15 | 62 | 108 | 139 | 263 | 290 | 418 | 1.0 | 235 | 411 | 528 | 997 | 1,100 | 1,583 |
| 20 | 72 | 125 | 161 | 304 | 335 | 483 | 1.4 | 271 | 474 | 609 | 1,151 | 1,270 | 1,828 |
| 25 | 80 | 140* | 180 | 340 | 375 | 540 | 1.7 | 303 | 530* | 681 | 1,287 | 1,420 | 2,044 |
| 35 | 95* | 166 | 213* | 402* | 444 | 639 | 2.4 | 360* | 627 | 806* | 1520* | 1,680 | 2,419 |
| 50 | 113 | 198 | 255 | 481 | 530* | 764 | 3.4 | 428 | 749 | 964 | 1,820 | 2,006* | 2,891 |
| 75 | 139 | 242 | 312 | 589 | 650 | 900* | 5.2 | 525 | 918 | 1,180 | 2,229 | 2,459 | 3,407* |
| 100 | 160 | 280 | 360 | 680 | 750 | 1,080 | 6.9 | 606 | 1,060 | 1,363 | 2,574 | 2,839 | 4,088 |
| 125 | 179 | 313 | 402 | 760 | 839 | 1,207 | 8.6 | 677 | 1,185 | 1,524 | 2,878 | 3,174 | 4,571 |
| 150 | 196 | 343 | 441 | 833 | 919 | 1,323 | 10.0 | 742 | 1,298 | 1,669 | 3,153 | 3,477 | 5,007 |

*At flows greater than this, velocities will exceed 10 ft/sec and pipe erosion could occur.
NOTE: Minimum flow is 1.3 gpm (4.9 l/min).

| GD-200/200H Dimensions and Weights | | | | | | | | | | | | | | | |
|------------------------------------|-----|---------------------|-----|----------------------|-----|-------|-----|---------|-----|----------------|-----|----------------|--------|-------|--|
| Size | | GD-200 Face-to-Face | | GD-200H Face-to-Face | | A | | H | | H ₁ | | C _v | Weight | | |
| in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | | lb | kg | |
| 2 | 50 | 7-5/8 | 195 | 7-7/8 | 200 | 6 | 152 | 16-1/4 | 415 | 3-1/8 | 81 | 16 | 43 | 19.2 | |
| 2-1/2 | 65 | 10-5/8 | 270 | 10-7/8 | 277 | 7 | 178 | 21-1/2 | 550 | 4-1/16 | 105 | 28 | 88 | 40.0 | |
| 3 | 80 | 10-5/8 | 270 | 11-1/8 | 283 | 7-1/2 | 191 | 22-9/16 | 577 | 4-9/16 | 120 | 36 | 97 | 43.7 | |
| 4 | 100 | 12-1/8 | 308 | 12-3/4 | 342 | 9 | 229 | 25-1/6 | 637 | 5-1/4 | 135 | 68 | 154 | 70.0 | |
| 5 | 125 | 15 | 380 | 15-7/8 | 403 | 10 | 254 | 33 | 839 | 6-1/2 | 169 | 75 | 317 | 144.0 | |
| 6 | 150 | 15-3/4 | 400 | 16-5/8 | 422 | 11 | 280 | 35-9/16 | 908 | 7-1/2 | 194 | 108 | 381 | 173.0 | |

For a fully detailed certified drawing, refer to:
GD-200 **CD #2106**
GD-200H **CD #2107**



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