



CASH VALVES TYPE G-60 PRESSURE REGULATORS

A self-contained, self-actuated high capacity all purpose regulator designed to operate within close limits



FEATURES

- Broad choice of body and internal materials for a wide range of applications.
- Wide variety of inlet pressure ranges and operating temperatures, depending on construction.
- Balanced piston design provides close control despite wide in inlet pressure variations for water, air, oil and gas services.
- Flat seal ring for excellent shut-off, high capacity and easy maintenance.
- All internal parts guided to ensure proper seating.
- Large diaphragm and long pressure spring provide for a wide range of adjustment and give exceptional sensitivity of control.
- Hex head adjusting screw and lock nut as standard. Optional T-bar available to special order.
- Optional stainless steel internal trim suitable for regulating steam, air, water, oil, gases, chemicals and other fluids.
- Optional construction for cryogenic service.
- Modified version available for constant differential control or dome-loaded valve.

GENERAL APPLICATION

The G-60 is designed for use with steam, water, air, oil, gases, chemicals or other fluids in dryers, steam atomized oil burners, plastic molding, cookers, degreasers and sterilizers. Also available for cryogenic service.

TECHNICAL DATA

| | |
|-------------------------|---|
| Materials: | Iron, bronze, carbon steel, stainless steel |
| Sizes: | ¼" through 1½" (7 to 38 mm) |
| Connections: | Threaded NPTF |
| Inlet pressure ranges | |
| Water/air: | 250 to 700 psig (17.2 to 48.3 barg) |
| Steam: | 250 to 400 psig (17.2 to 27.6 barg) |
| Reduced pressure range: | 1 to 250 psig (0.07 to 17.2 barg) |
| Temperature range: | -320° to 750°F (-195° to 399°C) |

CASH VALVES TYPE G-60 PRESSURE REGULATORS

OPERATION

The Type G-60 design is totally different from the majority of self-acting pressure reducing regulators. Note the cross section below. Five pressure chambers play a part in producing its high capacity and exceptional performance:

Flow from inlet chamber (A) goes through the seat orifice to intermediate chamber (B), then into the outlet line (F) through nozzle chamber (C). Control chamber (D) communicates with outlet line (F) through chamber (E). In operation, assuming the valve closed, a drop in pressure in line (F) caused by demand downstream, drops the pressure in chambers (E) and (D) simultaneously. As this produces some valve opening, pressure in chamber (B) will elevate the velocity of flow through nozzle (C) considerably. This increased velocity through the nozzle (jet action) drops the pressure in control chamber (D). The valve is opened wide to satisfy the demand and the delivery pressure is maintained within narrow limits.

CONSTRUCTION

Body: iron, bronze, carbon steel or 316 stainless steel.

Trim (pusher post button, pusher post orifice, nozzle, bottom cap and piston): bronze or stainless steel.

Guide bushing: stainless steel.

Piston and seat ring: stainless steel - for steam and other fluids requiring metal-to-metal seats.

Bronze piston with NBR seat disc and stainless steel seat ring - for air, cold water, and other fluids where tight shut-off is desired, stainless steel pistons are optional.

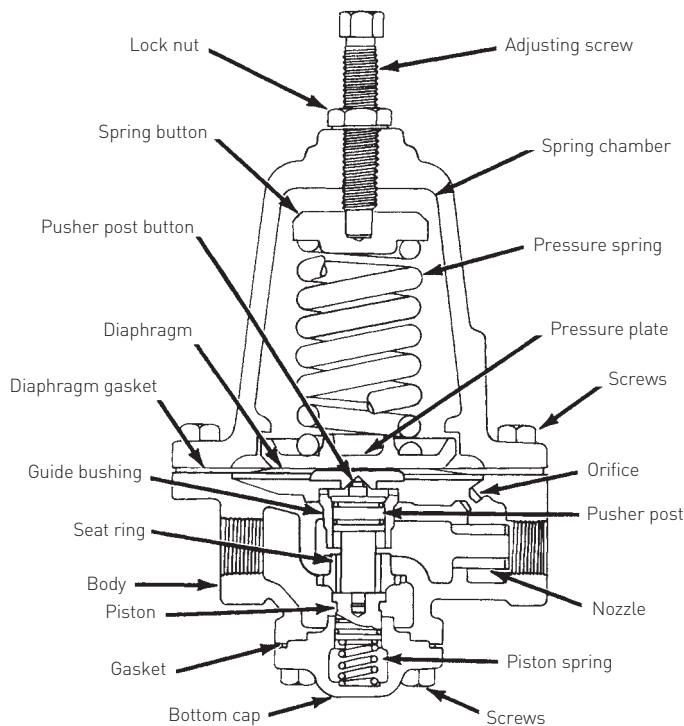
Diaphragm: phosphor bronze, stainless steel, NBR, FKM.

Diaphragm gasket (used only with metal diaphragms): aramid fiber (PTFE to special order).

Bottom cap gasket: aramid fiber (PTFE to special order).

Adjusting screw cap (when furnished): brass (stainless steel to special order).

TYPE G-60 INTERIOR STEAM REGULATOR



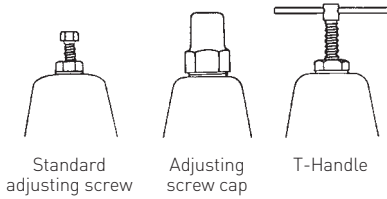
CASH VALVES TYPE G-60 PRESSURE REGULATORS

FEATURES

Adjusting screw

A hex head adjusting screw and hex lock nut are standard. An optional T-bar is available to special order.

OPTIONS



Optional cryogenic service

Approved construction is offered for handling cold fluids, e.g. pressure building regulators on liquid to gas oxygen and nitrogen converters. Special stainless steel pressure springs for higher ranges than those shown in the spring range table are available for this service. See datasheet VCTDS-00514 for more information.

Internal design features

1. Except for the steam valves, the valve piston is fully balanced against inlet and outlet pressures. This provides close control despite wide inlet pressure variations.
2. A flat seat ring rather than a beveled seat is employed for better shut-off, higher capacity and easier maintenance.
3. The internal parts are well guided to assure proper seating.
4. The Type G-60 has a large diaphragm and long pressure spring which, in combination, provide for a wide range of adjustment and give exceptional sensitivity of control.

Optional differential pressure control

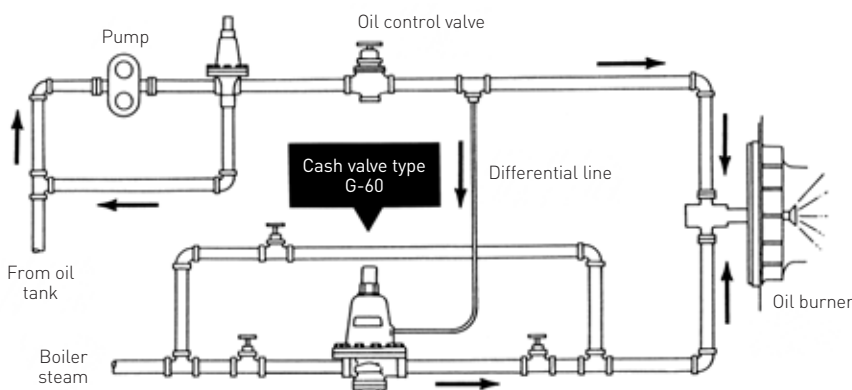
The Type G-60 can serve as a constant-differential valve through a slight modification of the standard valve design. This is accomplished by incorporating a 1/4" (7 mm) side tap in the spring housing. In a typical steam/oil atomizing installation (below), loading pressure is introduced above the G-60 diaphragm and steam is delivered through the valve at a regulated pressure higher than the loading pressure, with the pressure difference being determined by the diaphragm spring setting. The outlet steam pressure is maintained automatically to provide a constant, fixed pressure differential between the steam pressure and oil pressure. Variations in the loading pressure are reflected in a pound-for-pound change in the discharge pressure.

Valves equipped with the optional differential pressure control are fitted with a pressure-tight closing cap over the pressure adjusting screw, a gasket above the diaphragm and a gasket seal to the closing cap.

TYPE G-60
Differential valve



STEAM/OIL ATOMIZING CONTROL



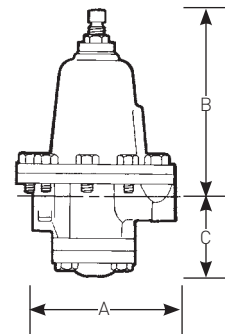
CASH VALVES TYPE G-60 PRESSURE REGULATORS

SPECIFICATIONS

TYPE G-60 WITH THREADED CONNECTIONS

| Description | Dimensions | | | | | Shipping weight (lbs.) | |
|-------------|------------|----------|---------|-----------|---------|------------------------|--------|
| | Pipe size | A | B | | C | Iron | Bronze |
| Type | | With cap | W/O cap | | | | |
| G-60 | 1/4" | 4" | 6 5/8" | 6 1/4" | 2 3/16" | 8 | 9 |
| | 3/8" | 4" | 6 5/8" | 6 1/4" | 2 3/16" | 8 | 9 |
| | 1/2" | 4 3/4" | 7 5/8" | 7 1/8" | 2 5/16" | 15 | 16 |
| | 3/4" | 5 5/8" | 10" | 9 1/2" | 2 5/8" | 22 | 24 |
| | 1" | 6 1/2" | 10 3/4" | 9 7/8" | 2 7/8" | 32 | 35 |
| | 1 1/4" | 8" | 12 3/8" | 11 13/16" | 3 1/2" | 58 | 62 1/2 |
| | 1 1/2" | 8" | 12 3/8" | 11 13/16" | 3 1/2" | 58 | 62 1/2 |

TYPE G-60
Threaded connections



PRESSURE AND TEMPERATURE RATINGS

| Body | Trim | Seat ring | Diaphragm | Media | Max. initial pressure (psi) | Max. temp. ranges (°F) |
|---------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------------------|------------------------|
| Iron | Bronze | Stainless steel | NBR | Water/air steam | 400 | -20 to 180 |
| | | Stainless steel | Phosphor bronze | | 250 | -50 to 410 |
| | Stainless steel | Stainless steel | Stainless steel | Steam | 250 | -50 to 410 |
| Bronze | Bronze | Stainless steel | NBR | Water/air steam | 400 | -20 to 180 |
| | | Stainless steel | Phosphor bronze | | 300 | -50 to 410 |
| | Stainless steel | Stainless steel | Stainless steel | Steam | 300 | -50 to 500 |
| Carbon steel or stainless steel | Stainless steel | Stainless steel | Stainless steel | Water/air steam | 700 | -20 to 180 |
| | | | | | 400 | -50 to 700 |

Bronze and stainless steel valves are also available for service to -320°F with cryogenic modification

TYPE G-60 SPRING RANGES

| Size | Range of adjustment (in psi) | | | | | |
|--------|------------------------------|-------|-------|--------|--------|--------|
| 1/4" | 1-15 | 5-40 | 20-90 | 30-125 | 75-250 | |
| 3/8" | 1-15 | 5-40 | 20-90 | 30-125 | 75-250 | |
| 1/2" | 0-7 | 5-15 | 10-50 | 30-75 | 50-120 | 75-150 |
| 3/4" | 5-15 | 10-50 | 30-75 | 50-120 | 75-150 | |
| 1" | 2-10 | 5-25 | 10-50 | 30-100 | 50-130 | 75-150 |
| 1 1/4" | 5-15 | 10-50 | 30-75 | 50-120 | 75-150 | |
| 1 1/2" | 5-15 | 10-50 | 30-75 | 50-120 | 75-150 | |

Spring options in stainless steel and for ranges to 600 psig are available on special order

CASH VALVES TYPE G-60 PRESSURE REGULATORS

SPECIFICATIONS (CONTINUED)

The amount of air or fluid any regulator will pass is governed by two factors:

1. Pressure differential, or the difference between the inlet and outlet pressure.
2. A characteristic known as fall-off or droop, by which the outlet pressure drops slightly as flow starts through the valve and drops off even more as increased demand requires increased flow.

The rates of flow stated on the following charts are based on maximum fall-off or droop of 20% from set pressure.

TYPE G-60 AIR CAPACITY INFORMATION

| Inlet pressure (psig) | Outlet pressure (psig) | Air capacity in SCFM by size | | | | | | |
|--------------------------|---------------------------|------------------------------|------|------|------|-----|--------|--------|
| | | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" |
| 25 | 15 | 11 | 19 | 30 | 55 | 88 | 127 | 160 |
| | 10 | 13 | 23 | 36 | 65 | 104 | 150 | 189 |
| 50 | 40 | 12 | 21 | 33 | 60 | 96 | 138 | 174 |
| | 25 | 20 | 35 | 55 | 100 | 160 | 230 | 290 |
| | 10 | 21 | 37 | 58 | 105 | 168 | 242 | 305 |
| 75 | 65 | 15 | 26 | 41 | 75 | 120 | 173 | 218 |
| | 50 | 26 | 46 | 72 | 130 | 208 | 299 | 377 |
| | 25 | 29 | 51 | 80 | 145 | 232 | 334 | 421 |
| | 10 | 29 | 51 | 80 | 145 | 232 | 334 | 421 |
| 100 | 90 | 17 | 30 | 47 | 85 | 136 | 196 | 247 |
| | 75 | 27 | 47 | 74 | 135 | 216 | 311 | 392 |
| | 50 | 34 | 60 | 94 | 170 | 272 | 391 | 493 |
| | 25 | 36 | 63 | 99 | 180 | 288 | 414 | 522 |
| 125 | 100 | 28 | 49 | 77 | 140 | 224 | 322 | 406 |
| | 75 | 36 | 63 | 99 | 180 | 288 | 414 | 522 |
| | 50 | 42 | 74 | 116 | 210 | 336 | 483 | 609 |
| | 25 | 50 | 88 | 138 | 250 | 400 | 575 | 725 |
| 150 | 140 | 21 | 37 | 58 | 105 | 168 | 242 | 305 |
| | 100 | 38 | 66 | 105 | 190 | 304 | 437 | 551 |
| | 75 | 44 | 77 | 121 | 220 | 352 | 506 | 638 |
| | 50 | 52 | 91 | 143 | 260 | 416 | 598 | 754 |
| | 25 | 54 | 95 | 149 | 270 | 432 | 621 | 783 |
| 200 | 150 | 45 | 79 | 124 | 225 | 360 | 450 | 653 |
| | 100 | 52 | 91 | 143 | 260 | 416 | 598 | 754 |
| | 75 | 54 | 95 | 149 | 270 | 432 | 621 | 783 |
| | 50 | 56 | 98 | 154 | 280 | 448 | 644 | 812 |
| | 25 | 56 | 98 | 154 | 280 | 448 | 644 | 812 |
| 250 | 150 | 55 | 96 | 151 | 275 | 440 | 633 | 798 |
| | 100 | 57 | 100 | 157 | 285 | 456 | 656 | 827 |
| | 75 | 65 | 114 | 179 | 325 | 520 | 748 | 943 |
| | 50 | 68 | 119 | 187 | 340 | 544 | 782 | 986 |
| | 25 | 69 | 121 | 190 | 345 | 552 | 794 | 1001 |
| 300/400 | 150 | 59 | 103 | 162 | 295 | 472 | 679 | 856 |
| | 100 | 68 | 119 | 187 | 340 | 544 | 782 | 986 |
| | 75 | 70 | 123 | 193 | 350 | 560 | 805 | 1015 |
| | 50 | 71 | 124 | 195 | 355 | 568 | 817 | 1030 |

Capacities are based on a 20% fall-off

CASH VALVES TYPE G-60 PRESSURE REGULATORS

SPECIFICATIONS (CONTINUED)

TYPE G-60 STEAM CAPACITY INFORMATION

| Inlet pressure (psig) | Outlet pressure (psig) | Steam (lbs.) per hour by size | | | | | | |
|--------------------------|---------------------------|-------------------------------|-----|-----|------|------|------|------|
| | | ¼" | ⅜" | ½" | ¾" | 1" | 1¼" | 1½" |
| 25 | 15 | 36 | 48 | 72 | 120 | 192 | 264 | 324 |
| | 10 | 50 | 66 | 100 | 150 | 240 | 330 | 405 |
| 50 | 40 | 49 | 65 | 98 | 145 | 238 | 327 | 401 |
| | 25 | 72 | 96 | 144 | 240 | 384 | 528 | 648 |
| | 10 | 75 | 100 | 150 | 250 | 400 | 550 | 675 |
| 75 | 65 | 53 | 71 | 105 | 157 | 252 | 345 | 425 |
| | 50 | 90 | 120 | 180 | 300 | 480 | 660 | 810 |
| | 25 | 105 | 140 | 210 | 350 | 560 | 770 | 945 |
| | 10 | 105 | 140 | 210 | 350 | 560 | 770 | 945 |
| 100 | 90 | 70 | 78 | 117 | 195 | 313 | 430 | 528 |
| | 75 | 113 | 150 | 225 | 375 | 600 | 825 | 1013 |
| | 50 | 134 | 178 | 267 | 445 | 712 | 979 | 1202 |
| | 25 | 135 | 180 | 270 | 450 | 720 | 990 | 1215 |
| 125 | 100 | 105 | 140 | 210 | 350 | 560 | 770 | 945 |
| | 75 | 158 | 210 | 315 | 525 | 840 | 1155 | 1418 |
| | 50 | 165 | 220 | 330 | 550 | 880 | 1210 | 1485 |
| | 25 | 168 | 224 | 336 | 560 | 896 | 1232 | 1512 |
| 150 | 140 | 57 | 76 | 125 | 210 | 340 | 420 | 580 |
| | 100 | 165 | 220 | 330 | 550 | 880 | 1210 | 1485 |
| | 75 | 188 | 250 | 375 | 625 | 1000 | 1375 | 1688 |
| | 50 | 195 | 260 | 390 | 650 | 1040 | 1430 | 1755 |
| | 25 | 197 | 262 | 393 | 655 | 1048 | 1441 | 1769 |
| 200 | 150 | 198 | 264 | 396 | 660 | 1056 | 1452 | 1782 |
| | 100 | 263 | 350 | 525 | 875 | 1400 | 1925 | 2363 |
| | 75 | 278 | 370 | 555 | 925 | 1480 | 2035 | 2498 |
| | 50 | 275 | 372 | 558 | 930 | 1488 | 2046 | 2511 |
| | 25 | 275 | 372 | 558 | 930 | 1488 | 2046 | 2511 |
| 250 | 150 | 266 | 354 | 531 | 885 | 1416 | 1947 | 2390 |
| | 100 | 324 | 432 | 648 | 1080 | 1728 | 2376 | 2916 |
| | 75 | 338 | 450 | 675 | 1125 | 1800 | 2475 | 3038 |
| | 50 | 345 | 460 | 690 | 1150 | 1840 | 2530 | 3105 |
| | 25 | 345 | 460 | 690 | 1150 | 1840 | 2530 | 3105 |
| 300/400 | 150 | 330 | 440 | 660 | 1100 | 1760 | 2420 | 2970 |
| | 100 | 387 | 516 | 774 | 1290 | 2064 | 2838 | 3483 |
| | 75 | 390 | 520 | 780 | 1300 | 2000 | 2860 | 3510 |
| | 50 | 390 | 520 | 780 | 1300 | 2000 | 2860 | 3510 |

Capacities are based on a 20% fall-off

CASH VALVES TYPE G-60 PRESSURE REGULATORS

SPECIFICATIONS (CONTINUED)

TYPE G-60 WATER CAPACITY INFORMATION

| Inlet pressure (psig) | Outlet pressure (psig) | Gallons per minute by size | | | | | | |
|--------------------------|---------------------------|----------------------------|------|------|------|------|--------|--------|
| | | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" |
| 25 | 15 | 2.2 | 3.9 | 6.0 | 11.0 | 17.6 | 24.2 | 29.7 |
| | 10 | 2.4 | 4.2 | 6.6 | 12.0 | 19.2 | 26.4 | 32.4 |
| 50 | 40 | 2.4 | 4.2 | 6.6 | 12.0 | 19.2 | 26.4 | 32.4 |
| | 25 | 3.4 | 6.0 | 9.4 | 17.0 | 27.2 | 37.4 | 45.9 |
| | 10 | 4.0 | 7.0 | 11.0 | 20.0 | 32.0 | 44.0 | 54.0 |
| 75 | 65 | 2.4 | 4.2 | 6.6 | 12.0 | 19.2 | 26.4 | 32.4 |
| | 50 | 3.2 | 5.6 | 8.8 | 16.0 | 25.6 | 35.2 | 43.2 |
| | 25 | 5.0 | 8.8 | 13.8 | 25.0 | 40.0 | 55.0 | 67.5 |
| | 10 | 5.2 | 9.1 | 14.3 | 26.0 | 41.6 | 57.2 | 70.2 |
| 100 | 90 | 2.6 | 4.6 | 7.2 | 13.0 | 20.8 | 28.6 | 35.1 |
| | 75 | 3.6 | 6.3 | 9.9 | 18.0 | 28.8 | 39.6 | 48.6 |
| | 50 | 4.6 | 8.0 | 12.7 | 23.0 | 36.8 | 50.6 | 62.1 |
| | 25 | 5.8 | 10.2 | 16.0 | 29.0 | 46.4 | 63.8 | 78.3 |
| 125 | 100 | 3.8 | 6.7 | 10.5 | 19.0 | 30.4 | 41.8 | 51.3 |
| | 75 | 4.8 | 8.4 | 13.2 | 24.0 | 38.4 | 52.8 | 64.8 |
| | 50 | 5.4 | 9.5 | 14.9 | 27.0 | 43.2 | 59.4 | 72.9 |
| | 25 | 6.4 | 11.2 | 17.6 | 32.0 | 51.2 | 70.4 | 86.4 |
| 150 | 140 | 3.0 | 5.3 | 8.3 | 15.0 | 24.0 | 33.0 | 40.5 |
| | 100 | 5.2 | 9.1 | 14.3 | 26.0 | 41.6 | 57.2 | 70.2 |
| | 75 | 6.2 | 10.9 | 17.1 | 31.0 | 49.6 | 68.2 | 83.7 |
| | 50 | 6.8 | 11.9 | 18.7 | 34.0 | 54.4 | 74.8 | 91.8 |
| | 25 | 7.0 | 12.3 | 19.3 | 35.0 | 56.0 | 77.0 | 94.5 |
| 200 | 150 | 5.4 | 9.5 | 14.9 | 27.0 | 43.2 | 59.4 | 72.9 |
| | 100 | 7.0 | 12.3 | 19.3 | 35.0 | 56.0 | 77.0 | 94.5 |
| | 75 | 7.2 | 12.6 | 19.8 | 36.0 | 57.6 | 79.2 | 97.2 |
| | 50 | 7.8 | 13.7 | 21.5 | 39.0 | 62.4 | 85.8 | 105.3 |
| | 25 | 8.0 | 14.0 | 22.0 | 40.0 | 64.0 | 88.0 | 108.0 |
| 250 | 150 | 7.0 | 12.3 | 19.3 | 35.0 | 56.0 | 77.0 | 94.5 |
| | 100 | 7.8 | 13.7 | 21.5 | 39.0 | 62.4 | 85.8 | 105.3 |
| | 75 | 8.0 | 14.0 | 22.0 | 40.0 | 64.0 | 88.0 | 108.0 |
| | 50 | 8.4 | 14.7 | 23.1 | 42.0 | 67.2 | 92.4 | 113.4 |
| | 25 | 8.6 | 15.1 | 23.7 | 43.0 | 68.8 | 94.6 | 116.1 |
| 300/400 | 150 | 7.8 | 13.7 | 21.5 | 39.0 | 62.4 | 85.8 | 105.3 |
| | 100 | 8.4 | 14.7 | 23.1 | 42.0 | 67.2 | 92.4 | 113.4 |
| | 75 | 8.8 | 15.4 | 24.2 | 44.0 | 70.4 | 96.8 | 118.8 |
| | 50 | 9.0 | 15.8 | 24.8 | 45.0 | 72.0 | 99.0 | 121.5 |

Capacities are based on a 20% fall-off

STANDARD SPRING RANGES – MUST SPECIFY DURING ORDER PROCESS (SEE PAGE 8)

| | | | | | | | |
|---------------------|-------|--------|---------|---------|---------|---------|---------|
| 1/4", 3/8" (*) | 1-15 | 5-40 | 20-90 | 30-125 | 75-250 | | |
| 1/2" (*) | 0-7 | 5-15 | 10-50 | 30-75 | 50-120 | 75-150 | |
| 3/4" (*) | 5-15 | 10-50 | 30-75 | 50-120 | 75-150 | | |
| 1" (*) | 2-10 | 5-25 | 10-50 | 30-100 | 50-130 | 75-150 | 100-250 |
| 1/4", 3/8" (**) | 5-30 | 15-65 | 30-110 | 75-200 | 100-400 | 100-600 | |
| 1/2" (**) | 0-7 | 5-70 | 50-150 | 50-250 | 100-400 | 200-500 | |
| 3/4" (**) | 0-10 | 5-75 | 50-200 | 100-400 | 100-600 | | |
| 1" (**) | 10-50 | 50-200 | 100-400 | 100-600 | | | |
| 1 1/4", 1 1/2" (**) | 5-15 | 10-50 | 30-75 | 50-120 | 75-150 | 100-400 | |

NOTES

(*) Steel

(**) Stainless steel

CASH VALVES TYPE G-60 PRESSURE REGULATORS

SELECTION GUIDE

| Example: | G60Z | A | W | S | S | Z | Z | B | S | 01 | - | D | 0015 |
|--------------------------------|---|---|---|---|---|---|---|---|---|----|---|---|------|
| Model | | | | | | | | | | | | | |
| G60Z | G60 w/bronze body | | | | | | | | | | | | |
| G60F | G60 w/iron body | | | | | | | | | | | | |
| G60D | G60 w/carbon steel body | | | | | | | | | | | | |
| G60G | G60 w/316 stainless steel body | | | | | | | | | | | | |
| Valve size | | | | | | | | | | | | | |
| A | 1/4" | | | | | | | | | | | | |
| B | 3/8" | | | | | | | | | | | | |
| C | 1/2" | | | | | | | | | | | | |
| D | 3/4" | | | | | | | | | | | | |
| E | 1" | | | | | | | | | | | | |
| F | 1 1/4" | | | | | | | | | | | | |
| G | 1 1/2" | | | | | | | | | | | | |
| Service | | | | | | | | | | | | | |
| W | Water/air service | | | | | | | | | | | | |
| S | Steam service | | | | | | | | | | | | |
| Body/connection style | | | | | | | | | | | | | |
| S | Side inlet/side outlet - straight through w/NPT connections | | | | | | | | | | | | |
| Spring chamber style | | | | | | | | | | | | | |
| S | Standard | | | | | | | | | | | | |
| D | w/pressure screw cap and differential connection | | | | | | | | | | | | |
| Spring chamber material | | | | | | | | | | | | | |
| Z | Bronze | | | | | | | | | | | | |
| D | Carbon steel | | | | | | | | | | | | |
| F | Iron | | | | | | | | | | | | |
| G | Stainless steel | | | | | | | | | | | | |
| Diaphragm material | | | | | | | | | | | | | |
| B | NBR | | | | | | | | | | | | |
| V | FKM (water/air) | | | | | | | | | | | | |
| Z | Bronze (all) | | | | | | | | | | | | |
| L | NBR w/PTFE diaphragm liner (water/air) | | | | | | | | | | | | |
| G | 316 stainless steel (all) | | | | | | | | | | | | |
| Seat material | | | | | | | | | | | | | |
| B | NBR (water/air) | | | | | | | | | | | | |
| R | EPR (water/air) | | | | | | | | | | | | |
| T | PTFE (water/air) | | | | | | | | | | | | |
| E | 303 Stainless steel (steam) | | | | | | | | | | | | |
| V | FKM (water/air) | | | | | | | | | | | | |
| Pressure screw style | | | | | | | | | | | | | |
| S | Standard | | | | | | | | | | | | |
| T | T-handle | | | | | | | | | | | | |
| Variation | | | | | | | | | | | | | |
| 01 | Standard (303 stainless steel trim) (303 SST seat ring, 303 SST pusher post button, 303 SST pusher post, 303 SST guide bushing, 303 SST piston orifice, 303 SST nozzle and 316 SST bottom cap) | | | | | | | | | | | | |
| 02 | 303 Stainless steel trim with PTFE gasketing (303 SST seat ring, 303 SST pusher post button, 303 SST pusher post, 303 SST guide bushing, 303 SST piston orifice, 303 SST nozzle and 316 SST bottom cap) | | | | | | | | | | | | |
| 11 | 316 Stainless steel trim (316 SST seat ring, 316 SST pusher post button, 316 SST pusher post, 316 SST guide bushing, 316 SST piston orifice, 316 SST nozzle and 316 SST bottom cap) | | | | | | | | | | | | |
| 12 | 316 Stainless steel trim with PTFE gasketing (316 SST seat ring, 316 SST pusher post button, 316 SST pusher post, 316 SST guide bushing, 316 SST piston orifice, 316 SST nozzle and 316 SST bottom cap) | | | | | | | | | | | | |
| 21 | Monel trim (1/4" and 3/8" water/air service only) (Monel pusher post button, Monel pusher post, Monel guide bushing, Monel piston orifice, Monel nozzle and Monel bottom cap) | | | | | | | | | | | | |
| 31 | Brass trim (303 SST seat ring, brass pusher post button, brass pusher post, 303 SST guide bushing, brass piston orifice, brass nozzle and bronze bottom cap) | | | | | | | | | | | | |
| 33 | Brass trim with SST bottom cap (303 SST seat ring, brass pusher post button, brass pusher post, 303 SST guide bushing, brass piston orifice, brass nozzle and 316 SST bottom cap) | | | | | | | | | | | | |
| Design revision | | | | | | | | | | | | | |
| (-) | Indicates original design | | | | | | | | | | | | |
| Spring material | | | | | | | | | | | | | |
| D | Carbon steel (water/air, steam service only) | | | | | | | | | | | | |
| E | Stainless steel | | | | | | | | | | | | |
| Set pressure | | | | | | | | | | | | | |
| 0005 | 5 psig | | | | | | | | | | | | |
| 0025 | 25 psig | | | | | | | | | | | | |
| 0300 | 300 psig | | | | | | | | | | | | |

Spring ranges must be specified during the order process (see table, page 7).