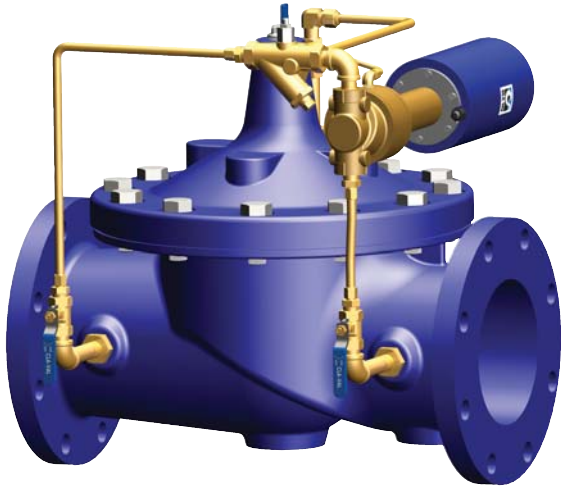




**350-02**  
(Full Internal Port)  
— MODEL —  
**3650-02**  
(Reduced Internal Port)

# Electronic Actuated Pressure Sustaining Control Valve



- Simplified Remote Valve Set-Point Control
- Ideal for use with VC-22D Electronic Valve Controller
- 12 to 24 VDC Input Power
- Isolated Input
- Reverse Polarity Protection
- Reliable Hydraulic Operation
- IP-68 (Submersible)

The Cla-Val Model 350-02/3650-02 Electronic Actuated Pressure Sustaining Control Valve combines precise control of field proven Cla-Val hydraulic pilots and simple, remote valve control. The Model 350-02/3650-02 is a hydraulically operated, pilot controlled, modulating valve designed to maintain constant upstream pressure within close limits. This valve can be used for pressure sustaining, back pressure or unloading functions in a by-pass system. The valve uses a CRL-34 pilot control, consisting of a hydraulic pilot and integral controller, that accepts a remote set-point command input and makes set-point adjustments to the pilot.

## Schematic Diagram

| Item | Description                                   |
|------|---|
| 1    | Hytrol (Main Valve)                           |
| 2    | X42N-2 Strainer & Needle Valve                |
| 3    | CRL-34 Electronic Pressure Sustaining Control |

## Optional Features

| Item | Description                       |
|------|-----------------------------------|
| B    | CK2 (Isolation Valve)             |
| D    | Check Valves with Isolation Valve |
| F    | Remote Pilot Sensing              |
| H    | Drain to Atmosphere               |
| P    | X141 Pressure Gauge               |
| S    | CV Flow Control (Opening)         |
| V    | X101 Valve Position Indicator     |

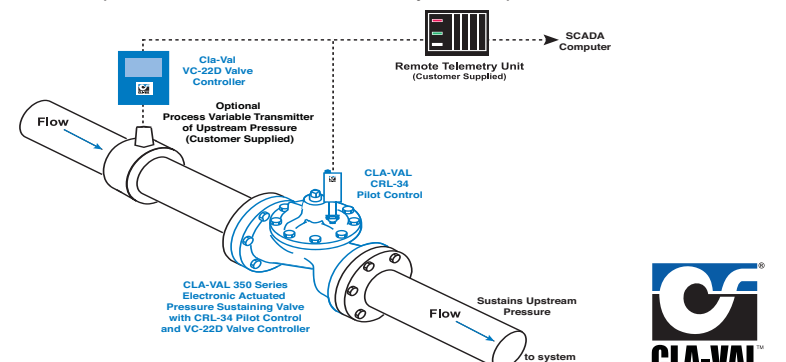
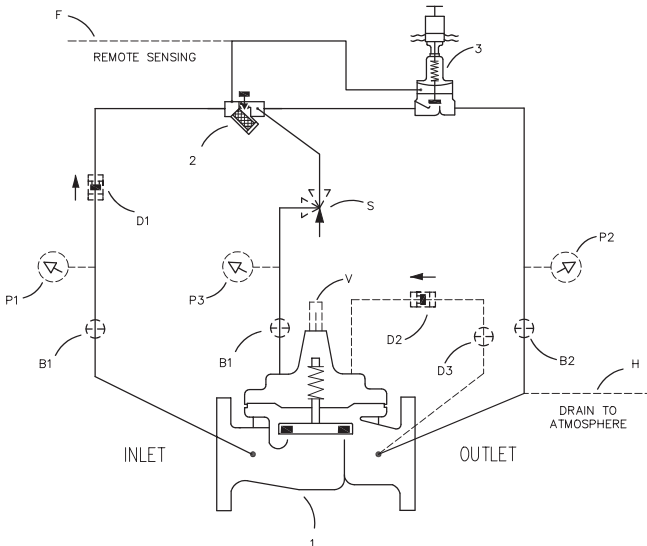
The recommended control method is simple remote set point change from an RTU (Remote Telemetry Unit) to the CRL-34 where the 4-20 mA command signal is ranged to specific pressure range. Very accurate control can be achieved when span does not exceed 100 psi. Since the CRL-34 is pre-ranged to the full spring range, some on-site calibration may be necessary when this control method is used. Free downloadable software is available from the Cla-Val website for this purpose. The CRL-34 can also accommodate control systems where the RTU compares pressure transmitter signal to the remote set point command signal. The RTU adjusts the CRL-34 with 4-20 mA command signal containing an adequate dead-band to prevent actuator dithering after the two signals agree.

Internal continuous electronic monitoring of actuator position results in virtually instantaneous position change with no backlash or dithering when control signal is changed. In the event of a power or control input failure, the CRL-34 pilot remains in hydraulic control virtually assuring system stability under changing conditions. If check feature ("D") is added, and pressure reversal occurs, the valve closes to prevent return flow.

## Typical Applications

The valve is designed to be used with supervisory control systems (SCADA), having remote analog set-point output and process variable upstream pressure input. It is also an effective solution for lowering costs associated with "confined space" requirements by eliminating need for entry into valve structure for set-point adjustment.

Additional pilot controls, hydraulic and/or electronic, can be easily added to perform multiple control functions to fit exact system requirements.



## Model 350-02 (Uses Basic Valve Model 100-01)

### Pressure Ratings (Recommended Maximum Pressure - psi)

| Valve Body & Cover |              | Pressure Class  |           |           |           |              |
|--------------------|--------------|-----------------|-----------|-----------|-----------|--------------|
|                    |              | Flanged         |           | Grooved   | Threaded  |              |
| Grade              | Material     | ANSI Standards* | 150 Class | 300 Class | 300 Class | End‡ Details |
| ASTM A536          | Ductile Iron | B16.42          | 250       | 400       | 400       | 400          |
| ASTM A216-WCB      | Cast Steel   | B16.5           | 285       | 400       | 400       | 400          |
| ASTM B62           | Bronze       | B16.24          | 225       | 400       | 400       | 400          |

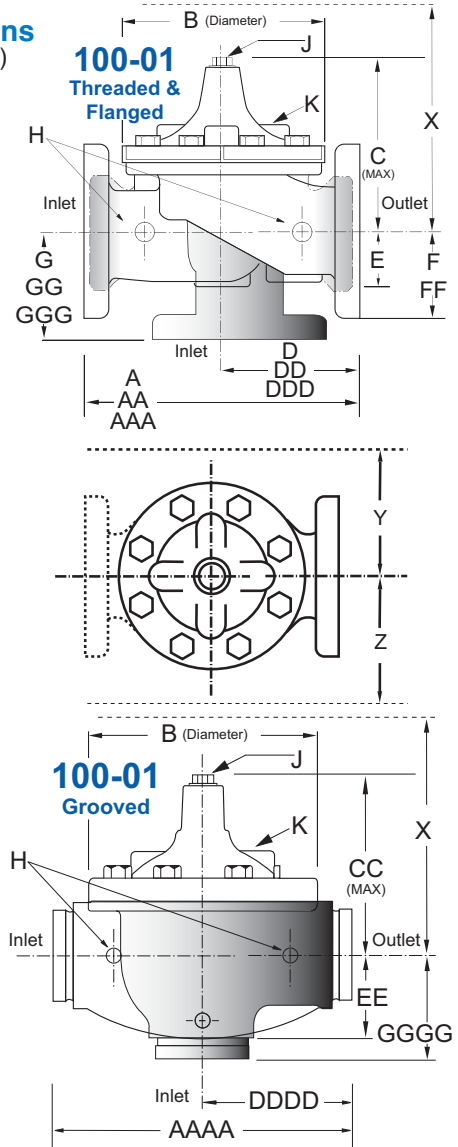
Note: \* ANSI standards are for flange dimensions only.  
 Flanged valves are available faced but not drilled.  
 ‡ End Details machined to ANSI B2.1 specifications.  
**Valves for higher pressure are available; consult factory for details**

### Materials

| Component                              | Standard Material Combinations                    |            |          |
|--|---|------------|----------|
| Body & Cover                           | Ductile Iron                                      | Cast Steel | Bronze   |
| Available Sizes                        | 1" - 36"  | 1" - 16"   | 1" - 16" |
| Disc Retainer & Diaphragm Washer       | Cast Iron   | Cast Steel | Bronze   |
| Trim: Disc Guide, Seat & Cover Bearing | Bronze is Standard<br>Stainless Steel is Optional |            |          |
| Disc                                   | Buna-N® Rubber                                    |            |          |
| Diaphragm                              | Nylon Reinforced Buna-N® Rubber                   |            |          |
| Stem, Nut & Spring                     | Stainless Steel                                   |            |          |

For material options not listed, consult factory.  
 Cla-Val manufactures valves in more than 50 different alloys.

### Dimensions (In inches)



### Model 350-02 Dimensions (In Inches)

| Valve Size (Inches)            | 1    | 1 1/4 | 1 1/2 | 2     | 2 1/2 | 3     | 4     | 6     | 8     | 10    | 12    | 14    | 16    | 18    | 20    | 24    | 30    | 36    |
|--------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>A</b> Threaded              | 7.25 | 7.25  | 7.25  | 9.38  | 11.00 | 12.50 | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| <b>AA</b> 150 ANSI             | —    | —     | 8.50  | 9.38  | 11.00 | 12.00 | 15.00 | 20.00 | 25.38 | 29.75 | 34.00 | 39.00 | 41.38 | 46.00 | 52.00 | 61.50 | 63.00 | 76.00 |
| <b>AAA</b> 300 ANSI            | —    | —     | 9.00  | 10.00 | 11.62 | 13.25 | 15.62 | 21.00 | 26.38 | 31.12 | 35.50 | 40.50 | 43.50 | 47.64 | 53.62 | 63.24 | 64.50 | 76.00 |
| <b>AAAA</b> Grooved End        | —    | —     | 8.50  | 9.00  | 11.00 | 12.50 | 15.00 | 20.00 | 25.38 | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| <b>B</b> Dia.                  | 5.62 | 5.62  | 5.62  | 6.62  | 8.00  | 9.12  | 11.50 | 15.75 | 20.00 | 23.62 | 28.00 | 32.75 | 35.50 | 41.50 | 45.00 | 53.16 | 56.00 | 66.00 |
| <b>C</b> Max.                  | 5.50 | 5.50  | 5.50  | 6.50  | 7.56  | 8.19  | 10.62 | 13.38 | 16.00 | 17.12 | 20.88 | 24.19 | 25.00 | 39.06 | 41.90 | 43.93 | 54.60 | 61.50 |
| <b>CC</b> Max. Grooved End     | —    | —     | 4.75  | 5.75  | 6.88  | 7.25  | 9.31  | 12.12 | 14.62 | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| <b>D</b> Threaded              | 3.25 | 3.25  | 3.25  | 4.75  | 5.50  | 6.25  | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| <b>DD</b> 150 ANSI             | —    | —     | 4.00  | 4.75  | 5.50  | 6.00  | 7.50  | 10.00 | 12.69 | 14.88 | 17.00 | 19.50 | 20.81 | —     | —     | 30.75 | —     | —     |
| <b>DDD</b> 300 ANSI            | —    | —     | 4.25  | 5.00  | 5.88  | 6.38  | 7.88  | 10.50 | 13.25 | 15.56 | 17.75 | 20.25 | 21.62 | —     | —     | 31.62 | —     | —     |
| <b>DDDD</b> Grooved End        | —    | —     | —     | 4.75  | —     | 6.00  | 7.50  | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| <b>E</b>                       | 1.12 | 1.12  | 1.12  | 1.50  | 1.69  | 2.06  | 3.19  | 4.31  | 5.31  | 9.25  | 10.75 | 12.62 | 15.50 | 12.95 | 15.00 | 17.75 | 21.31 | 24.56 |
| <b>EE</b> Grooved End          | —    | —     | 2.00  | 2.50  | 2.88  | 3.12  | 4.25  | 6.00  | 7.56  | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| <b>F</b> 150 ANSI              | —    | —     | 2.50  | 3.00  | 3.50  | 3.75  | 4.50  | 5.50  | 6.75  | 8.00  | 9.50  | 10.50 | 11.75 | 15.00 | 16.50 | 19.25 | 22.50 | 25.60 |
| <b>FF</b> 300 ANSI             | —    | —     | 3.06  | 3.25  | 3.75  | 4.13  | 5.00  | 6.25  | 7.50  | 8.75  | 10.25 | 11.50 | 12.75 | 15.00 | 16.50 | 19.25 | 24.00 | 25.60 |
| <b>G</b> Threaded              | 1.88 | 1.88  | 1.88  | 3.25  | 4.00  | 4.50  | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| <b>GG</b> 150 ANSI             | —    | —     | 4.00  | 3.25  | 4.00  | 4.00  | 5.00  | 6.00  | 8.00  | 8.62  | 13.75 | 14.88 | 15.69 | —     | —     | 22.06 | —     | —     |
| <b>GGG</b> 300 ANSI            | —    | —     | 4.25  | 3.50  | 4.31  | 4.38  | 5.31  | 6.50  | 8.50  | 9.31  | 14.50 | 15.62 | 16.50 | —     | —     | 22.90 | —     | —     |
| <b>GGGG</b> Grooved End        | —    | —     | —     | 3.25  | —     | 4.25  | 5.00  | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| <b>H</b> NPT Body Tapping      | .375 | .375  | .375  | .375  | .50   | .50   | .75   | .75   | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 2     | 2     |
| <b>J</b> NPT Cover Center Plug | .25  | .25   | .25   | .50   | .50   | .50   | .75   | .75   | 1     | 1     | 1.25  | 1.5   | 2     | 1.5   | 1.5   | 1.5   | 2     | 2     |
| <b>K</b> NPT Cover Tapping     | .375 | .375  | .375  | .375  | .50   | .50   | .75   | .75   | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 2     | 2     |
| Stem Travel                    | 0.4  | 0.4   | 0.4   | 0.6   | 0.7   | 0.8   | 1.1   | 1.7   | 2.3   | 2.8   | 3.4   | 4.0   | 4.5   | 5.1   | 5.63  | 6.75  | 7.5   | 8.5   |
| Approx. Ship Wt. Lbs.          | 15   | 15    | 15    | 35    | 50    | 70    | 140   | 285   | 500   | 780   | 1165  | 1600  | 2265  | 2982  | 3900  | 6200  | 7703  | 11720 |
| <b>X</b> Pilot System          | 11   | 11    | 11    | 13    | 14    | 15    | 17    | 29    | 31    | 33    | 36    | 40    | 40    | 43    | 47    | 68    | 79    | 85    |
| <b>Y</b> Pilot System          | 9    | 9     | 9     | 9     | 10    | 11    | 12    | 20    | 22    | 24    | 26    | 29    | 30    | 32    | 34    | 39    | 40    | 45    |
| <b>Z</b> Pilot System          | 9    | 9     | 9     | 9     | 10    | 11    | 12    | 20    | 22    | 24    | 26    | 29    | 30    | 32    | 34    | 39    | 42    | 47    |

Note: The top two flange holes on valve size 36 are threaded to 1 1/2"-6 UNC.

## Pressure Ratings (Recommended Maximum Pressure - psi)

| Valve Body & Cover |              | Pressure Class  |           |           |
|--------------------|--------------|-----------------|-----------|-----------|
|                    |              | Flanged         |           |           |
| Grade              | Material     | ANSI Standards* | 150 Class | 300 Class |
| ASTM A536          | Ductile Iron | B16.42          | 250       | 400       |
| ASTM A216-WCB      | Cast Steel   | B16.5           | 285       | 400       |
| ASTM B62           | Bronze       | B16.24          | 225       | 400       |

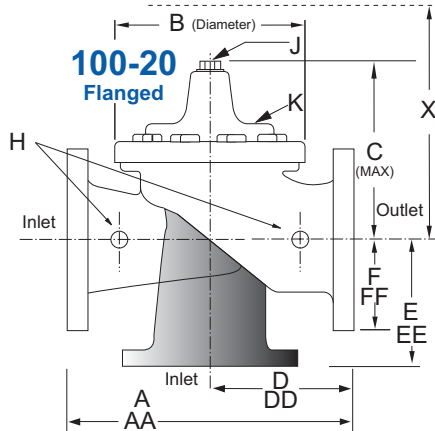
Note: \* ANSI standards are for flange dimensions only. Flanged valves are available faced but not drilled.  
**Valves for higher pressure are available; consult factory for details**

## Materials

| Component                              | Standard Material Combinations                    |            |          |
|--|---|------------|----------|
| Body & Cover                           | Ductile Iron                                      | Cast Steel | Bronze   |
| Available Sizes                        | 3" - 48"  | 3" - 16"   | 3" - 16" |
| Disc Retainer & Diaphragm Washer       | Cast Iron   | Cast Steel | Bronze   |
| Trim: Disc Guide, Seat & Cover Bearing | Bronze is Standard<br>Stainless Steel is Optional |            |          |
| Disc                                   | Buna-N® Rubber                                    |            |          |
| Diaphragm                              | Nylon Reinforced Buna-N® Rubber                   |            |          |
| Stem, Nut & Spring                     | Stainless Steel                                   |            |          |

For material options not listed, consult factory.  
 Cla-Val manufactures valves in more than 50 different alloys.

## Dimensions (In inches)



## Model 3650-02 Dimensions (In Inches)

| Valve Size (Inches)            | 3     | 4     | 6     | 8     | 10    | 12    | 14    | 16    | 18    | 20    | 24    | 30    | 36    | 42    | 48    |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>A</b> 150 ANSI              | 10.25 | 13.88 | 17.75 | 21.38 | 26.00 | 30.00 | 34.25 | 35.00 | 42.12 | 48.00 | 48.00 | 63.25 | 65.00 | 76.00 | 94.50 |
| <b>AA</b> 300 ANSI             | 11.00 | 14.50 | 18.62 | 22.38 | 27.38 | 31.50 | 35.75 | 36.62 | 43.63 | 49.62 | 49.75 | 63.75 | 67.00 | 76.00 | 94.50 |
| <b>B</b> Dia.                  | 6.62  | 9.12  | 11.50 | 15.75 | 20.00 | 23.62 | 27.47 | 28.00 | 35.44 | 35.44 | 35.44 | 53.19 | 56.00 | 66.00 | 66.00 |
| <b>C</b> Max.                  | 7.00  | 8.62  | 11.62 | 15.00 | 17.88 | 21.00 | 20.88 | 25.75 | 25.00 | 31.00 | 31.00 | 43.94 | 54.60 | 61.50 | 61.50 |
| <b>D</b> 150 ANSI              | —     | 6.94  | 8.88  | 10.69 | CF*   | CF*   | CF*   | CF*   | CF*   | CF*   | CF*   | —     | —     | —     | —     |
| <b>DD</b> 300 ANSI             | —     | 7.25  | 9.38  | 11.19 | CF*   | CF*   | CF*   | CF*   | CF*   | CF*   | CF*   | —     | —     | —     | —     |
| <b>E</b> 150 ANSI              | —     | 5.50  | 6.75  | 7.25  | CF*   | CF*   | CF*   | CF*   | CF*   | CF*   | CF*   | —     | —     | —     | —     |
| <b>EE</b> 300 ANSI             | —     | 5.81  | 7.25  | 7.75  | CF*   | CF*   | CF*   | CF*   | CF*   | CF*   | CF*   | —     | —     | —     | —     |
| <b>F</b> 150 ANSI              | 3.75  | 4.50  | 5.50  | 6.75  | 8.00  | 9.50  | 11.00 | 11.75 | 15.88 | 14.56 | 17.00 | 19.88 | 25.50 | 28.00 | 31.50 |
| <b>FF</b> 300 ANSI             | 4.12  | 5.00  | 6.25  | 7.50  | 8.75  | 10.25 | 11.50 | 12.75 | 15.88 | 16.06 | 19.00 | 22.00 | 27.50 | 28.00 | 31.50 |
| <b>H</b> NPT Body Tapping      | .375  | .50   | .75   | .75   | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 2     | 2     | 2     |
| <b>J</b> NPT Cover Center Plug | .50   | .50   | .75   | .75   | 1     | 1     | 1.25  | 1.25  | 2     | 2     | 2     | 2     | 2     | 2     | 2     |
| <b>K</b> NPT Cover Tapping     | .375  | .50   | .75   | .75   | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 2     | 2     | 2     |
| Stem Travel                    | 0.6   | 0.8   | 1.1   | 1.7   | 2.3   | 2.8   | 3.4   | 3.4   | 3.4   | 4.5   | 4.5   | 6.5   | 7.5   | 8.5   | 8.5   |
| Approx. Ship Wt. Lbs.          | 45    | 85    | 195   | 330   | 625   | 900   | 1250  | 1380  | 1500  | 2551  | 2733  | 6500  | 8545  | 12450 | 13100 |
| <b>X</b> Pilot System          | 13    | 15    | 27    | 30    | 33    | 36    | 36    | 41    | 40    | 46    | 55    | 68    | 79    | 85    | 86    |
| <b>Y</b> Pilot System          | 10    | 11    | 18    | 20    | 22    | 24    | 26    | 26    | 30    | 30    | 30    | 39    | 40    | 45    | 47    |
| <b>Z</b> Pilot System          | 10    | 11    | 18    | 20    | 22    | 24    | 26    | 26    | 30    | 30    | 30    | 39    | 42    | 47    | 49    |

\*Consult Factory

Note: The top two flange holes on valve sizes 36 thru 48 are threaded to 1 1/2"-6 UNC.

## 350-02/3650-02 Purchase Specifications (CRL-34 supplement)

The Electronic Actuated Pressure sustaining Valve shall maintain a constant upstream pressure and shall be capable of remotely changing this pressure as directed by the hydraulic pressure sustaining pilot and integral electronic actuator. The actuator shall provide the interface between remote telemetry and valve set point control. It shall compare a remote analog signal with an internal position signal in the actuator and adjust the hydraulic pilot spring mechanism to the new setting. The remote analog signal input shall be isolated and reverse polarity protected. A 4-20 mA actuator feedback signal shall be supplied as standard. A second command control input shall be available from dry contact switch closure for clockwise and counter clockwise rotation. The actuator shall be IP-68 rated for submersible service.

If power fails, the pilot shall continue to control the main valve to last set point. If remote set point signal is lost, the actuator shall be programmable to stay at last position or go to 4 mA or to 20 mA value of set point range. Default is last position. The actuator shall be ranged at the factory to the specific spring range in the pilot control. If other than the default settings are required, these changes shall be accomplished by using only the manufacturer's software and USB cable.

The Electronic Actuated Pressure Sustaining Valve shall be Cla-Val Model 350-02/3650-02 as manufactured by Cla-Val, Newport Beach, CA.

| 350-02<br>Valve<br>Selection      | 100-01 Pattern: Globe (G), Angle (A), End Connections: Threaded (T), Grooved (GR), Flanged (F) Indicate Available Sizes |      |      |              |             |              |             |          |           |           |      |      |       |       |       |       |       |       |       |
|-----------------------------------|---|------|------|--------------|-------------|--------------|-------------|----------|-----------|-----------|------|------|-------|-------|-------|-------|-------|-------|-------|
|                                   | Inches  | 1    | 1¼   | 1½           | 2           | 2½           | 3           | 4        | 6         | 8         | 10   | 12   | 14    | 16    | 18    | 20    | 24    | 30    | 36    |
|                                   | mm  | 25   | 32   | 40           | 50          | 65           | 80          | 100      | 150       | 200       | 250  | 300  | 350   | 400   | 450   | 500   | 600   | 750   | 900   |
| Basic Valve<br>100-01             | Pattern   | G, A | G, A | G, A         | G, A        | G, A         | G, A        | G, A     | G, A      | G, A      | G, A | G, A | G, A  | G, A  | G     | G     | G, A  | G     | G     |
|                                   | End Detail  | T    | T    | T, F,<br>Gr* | T, F,<br>Gr | T, F,<br>Gr* | T, F,<br>Gr | F,<br>Gr | F,<br>Gr* | F,<br>Gr* | F    | F    | F     | F     | F     | F     | F     | F     | F     |
| Suggested<br>Flow<br>(gpm)        | Maximum   | 55   | 93   | 125          | 210         | 300          | 460         | 800      | 1800      | 3100      | 4900 | 7000 | 8400  | 11000 | 14000 | 17000 | 25000 | 42000 | 50000 |
|                                   | Maximum Intermittent  | 68   | 120  | 160          | 260         | 370          | 580         | 990      | 2250      | 3900      | 6150 | 8720 | 10540 | 13700 | 17500 | 21700 | 31300 | 48000 | 62500 |
|                                   | Minimum   | 1    | 1    | 1            | 1           | 2            | 2           | 4        | 10        | 15        | 35   | 50   | 70    | 95    | 120   | 150   | 275   | 450   | 650   |
| Suggested<br>Flow<br>(Liters/Sec) | Maximum   | 3.5  | 6    | 8            | 13          | 19           | 29          | 50       | 113       | 195       | 309  | 442  | 530   | 694   | 883   | 1073  | 1577  | 2650  | 3150  |
|                                   | Maximum Intermittent  | 4.3  | 7.6  | 10           | 16          | 23           | 37          | 62       | 142       | 246       | 387  | 549  | 664   | 863   | 1104  | 1369  | 1972  | 3028  | 3940  |
|                                   | Minimum   | .03  | .03  | .03          | .06         | .09          | 0.13        | 0.25     | 0.63      | 0.95      | 2.2  | 3.2  | 4.4   | 6.0   | 7.6   | 9.5   | 17.4  | 28.4  | 41.0  |

100-01 Series is the full internal port Hytrol.

For Lower Flows Consult Factory

\*Globe Grooved Only

| 3650-02<br>Valve<br>Selection     | 100-20 Pattern: Globe (G), Angle (A), End Connections: Flanged (F) Indicate Available Sizes |     |      |      |      |      |      |      |      |       |       |       |       |       |       |       |
|-----------------------------------|---|-----|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
|                                   | Inches  | 3   | 4    | 6    | 8    | 10   | 12   | 14   | 16   | 18    | 20    | 24    | 30    | 36    | 42    | 48    |
|                                   | mm  | 80  | 100  | 150  | 200  | 250  | 300  | 350  | 400  | 450   | 500   | 600   | 750   | 900   | 1000  | 1200  |
| Basic Valve<br>100-20             | Pattern   | G   | G, A | G, A | G, A | G    | G    | G    | G    | G     | G     | G     | G     | G     | G     | G     |
|                                   | End Detail  | F   | F    | F    | F    | F    | F    | F    | F    | F     | F     | F     | F     | F     | F     | F     |
| Suggested<br>Flow<br>(gpm)        | Maximum   | 260 | 580  | 1025 | 2300 | 4100 | 6400 | 9230 | 9230 | 16500 | 16500 | 16500 | 28000 | 33500 | 33500 | 33500 |
|                                   | Minimum   | 1   | 2    | 4    | 10   | 15   | 35   | 50   | 50   | 95    | 95    | 95    | 275   | 450   | 450   | 450   |
| Suggested<br>Flow<br>(Liters/Sec) | Maximum   | 16  | 37   | 65   | 145  | 258  | 403  | 581  | 581  | 1040  | 1040  | 1040  | 1764  | 2115  | 2115  | 2115  |
|                                   | Minimum   | .06 | .13  | .25  | .63  | .95  | 2.2  | 3.2  | 3.2  | 6.0   | 6.0   | 6.0   | 17.4  | 28.4  | 41.0  | 41.0  |

100-20 Series is the reduced internal port size version of the 100-01 Series.

For Lower Flows Consult Factory

We recommend providing adequate space around valve for maintenance work

## CRL-34 Subassembly Specifications

### Adjustment Ranges

- 0 to 75 psi
- 20 to 105 psi
- 20 to 200 psi

### End Connection

1/2" NPT

### Temperature Range

Water: to 180°F

### Materials

Pilot Control: Bronze ASTM B62  
Trim: Stainless Steel Type 303  
Rubber: Buna-N® Synthetic Rubber

Available with optional Stainless Steel or Monel materials. Consult factory for details

## When Ordering, Please Specify

- Catalog No. 350-02 or 3650-02
- Valve Size
- Pattern - Globe or Angle
- Pressure Class
- Threaded or Flanged
- Trim Material
- Adjustment Range
- Desired Options
- When Vertically Installed

## 130VC-3 (CRL-34) Actuator Specifications

### Supply Power Input:

12V to 24V DC  
No Load draw: 50 mA  
Max. Load draw: 250 mA

### Remote Command Inputs:

- 4-20mA, analog signal (isolated and reverse-polarity protected)
- Dry contact closure (CW/CCW)

### Position Feedback Signal:

4-20 mA

### Alarm Output:

Dry-contact closure (High/Low)

### Speed of Rotation:

Adjustable On/Off time, max 6 rpm

### Diagnostic:

LED Indicator

### Loss of Power:

Actuator will remain in last commanded position.

### Loss of Signal Position:

Programmable - 4 mA, Last, or 20 mA

### Electrical Connections:

Single, 30 feet of permanently attached cable with color-coded power supply and signal wires

### Mechanical Specifications:

#### Environmental

Protection Class: IP-68 (Temporary submersible)  
Ambient Temperature: 15° to 150° F (-10° to 65° C)

### Materials

Electronic Enclosure: Anodized Aluminum  
Mechanical Housing: Bronze  
Coupling Assembly: Stainless Steel  
Gear Train: Stainless Steel, permanently lubricated