

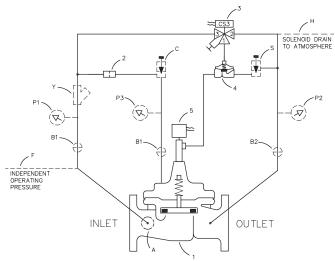
Model 138-01/638-01

(Full Internal Port)
Sizes 3" - 12"

(Reduced Internal Port) Sizes 4" - 16"

Electronic Actuated Positioning Control Valve





Schematic Diagram

| Item | Description |
|------|-------------|
| | |

- 1 Hytrol (Main Valve)
- 2 X58A Restriction Fitting
- 3 CS3 Solenoid Control
- 4 100-01 Auxiliary Hytrol (Reverse Flow)
- 5 CPC Electronic Actuator Positioning Control

Optional Features

Item Description

- A X46A Flow Clean Strainer
- B CK2 (Isolation Valve)
- C CNA Needle Valve (Closing)
- F Independent Operating Pressure
- H Solenoid Drain to Atmosphere
- P X141 Pressure Gauge
- S CNB Needle Valve (Opening)
- Y X43 "Y" Strainer

Product Features and Benefits

- Precise Valve Position Control
- · Completely Self-contained
- High Energy Efficiency with Low Operation Friction
- · Direct Control of Valve Opening and Closing
- · Combines with Pressure, Flow or Level Control
- Ideal for SCADA Control
- Easy adjustment and maintenance
- Fully Supported Frictionless Diaphragm for troublefree service and low maintenance

Product Enhancements

Get more from your valve by adding any of the following optional features.

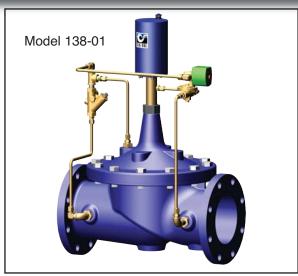
- · KO Anti-Cavitation Trim
- Epoxy Coating
- X141 Pressure Gauge
- · Stainless Steel Tubing and Fittings
- X43H-Style Strainer
- · Stem Upgrade to Delrin® or Dura-Kleen®

How It Works

The Cla-Val Model 138-01/638-01 Electronic Actuated Positioning Control Valve regulates flow or pressure or other system parameter by changing valve position from full open to shut-off. Exact valve position for large-scale waterworks or industrial applications is achieved with CPC pilot control that consists of electronic actuator and hydraulic pilot sub-assembly. The CPC controls valve position by limiting valve opening using hydraulically-assisted technology. The pilot sub-assembly has two calibrated orifices that are positioned proportional to valve position to vary main valve control chamber operating pressure. The CPC actuator creates slight changes in orifice position and in turn operating pressure hydraulically changes valve position. The pilot sub-assembly requires very little torque and is virtually frictionless for long service life. The actuator features high repeatable-accuracy brush-less motor technology and low energy consumption. Precision, no-contact hall-effect internal position sensor assures accuracy and durability. The CPC has factory pre-configured parameters of full valve stroke, preset rotation speed, and default setting on loss of set point. Actuator parameters can be changed using free downloadable software and special USB cable. Valve fully-closed position is assured by signaling solenoid to lock control pressure in main valve operating chamber when valve is very close to seat (adjustable). Operating on 24 VDC and with customer supplied battery backup, the 138-01/638-01 valve can eliminate downtime due to power failures.

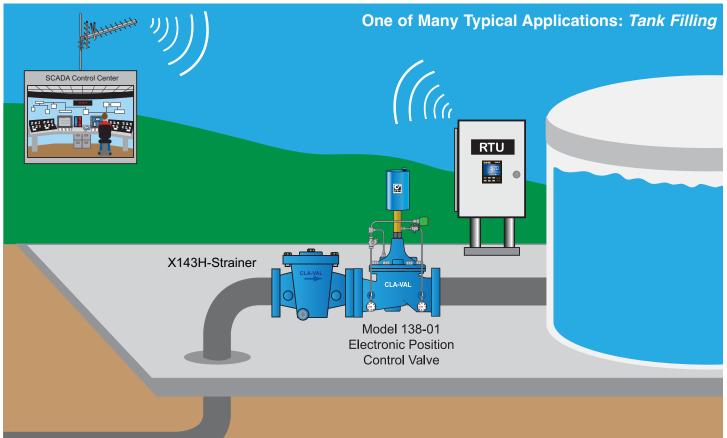


Positioning Level Control



Cla-Val Model 138-01 Electronic Position Control Valves provide superior controllability

- Can be used for any application requiring position control
- One valve can be used to control several parameters
- Easy integration with SCADA communications systems
- Operating parameters can be adjusted using free downloadable software from www.cla-val.com
- Provides greater and more precise control than actuated ball or butterfly valves
- Use our ComparFlow software to see the superior performance the Model 138-01 Electronic Position Control Valve can provide
- · Consult factory for larger sizes



138-01/638-01 Purchase Specifications

The Electronic Positioning Control Valve shall have a CPC Positioning Control with an integral hydraulic pilot and electronic controller contained in an IP-68 rated submersible enclosure to provide interface between remote telemetry and valve position set-point control. It will compare a remote analog command signal with an internal position sensor signal and adjust the hydraulic pilot control mechanism to a new valve set-point position. Remote analog signal input shall be isolated and reverse polarity protected by a resettable fuse. 4 - 20 mA actuator position feedback output shall be supplied standard. The valve assembly and all components shall be rated for continuous duty. If power fails, the pilot control valve shall continue main valve control to last position set-point command. If remote position signal is lost actuator shall be programmable to go to either the 4 mA, Last, or 20 mA command positions. No mechanical adjustments shall be necessary to the actuator. The low and high position range adjustment shall be accomplished only with valve manufacturer's components and instructions.

The Electronic Actuated Positioning Control Valve shall be Cla-Val Model 138-01/638-01 as manufactured by Cla-Val, Newport Beach, CA.

Pressure Ratings (Recommended Maximum Pressure - psi)

| Valve Body & Cover | | Pressure Class | | | | | |
|--------------------|--------------|----------------|-------|-------|---------|----------|--|
| valve body & Cover | | Flanged | | | Grooved | Threaded | |
| Grade | Material | ANSI | 150 | 300 | 300 | End‡ | |
| Grade | Iviateriai | Standards* | Class | Class | Class | 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.

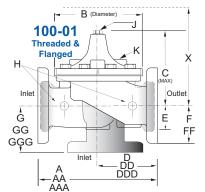
Valves for higher pressure are available; consult factory for details

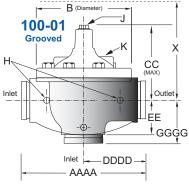
Materials

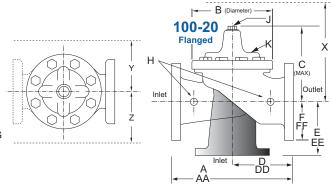
| Component | Standard Material Combinations | | | | | |
|----------------------------------|---------------------------------|------------------------|----------|--|--|--|
| Body & Cover | Ductile Iron | Cast Steel | Bronze | | | |
| 100-01 Available Sizes | 3" - 12" | 3" - 12" | 3" - 12" | | | |
| 100-20 Available Sizes | 4" - 16" | 4" - 16" | 4" - 16" | | | |
| Disc Retainer & Diaphragm Washer | Cast Iron | Cast Iron Cast Steel E | | | | |
| Trim: Disc Guide, | Ві | ronze is Standa | rd | | | |
| Seat & Cover Bearing | Stain | less Steel is Op | tional | | | |
| 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.







Model 100-01 Dimensions (Full Internal Port) (In Inches)

| A Threaded 12.50 − − − − − − − − AAA − − − − − − − − − − − − AAA 000 25.38 29.75 34.00 AAAA 34.00 AAAA Growled End 12.50 15.60 20.00 25.38 − − − − B Dia. 9.12 11.50 15.75 20.00 23.62 28.00 28.00 C Max. 8.19 10.62 13.38 16.00 17.12 20.88 20.00 23.62 28.00 28.00 C Max. 6.00 17.52 9.31 12.12 14.62 − | Woder 100-01 Dilli | CHOIOHO (Full | internal Port) (iii inch | 163) | | | |
|--|-------------------------|---------------|--------------------------|-------|-------|-------|-------|
| AA 150 ANSI 12.00 15.00 20.00 25.38 29.75 34.00 AA A300 ANSI 13.25 15.62 21.00 26.38 31.12 35.50 AAAA Grooved End 12.50 15.00 20.00 25.38 — — — B Dia. 9.12 11.50 15.75 20.00 23.62 28.00 C Max. 8.19 10.62 13.38 16.00 17.12 20.88 C Max. 6.91 10.62 13.38 16.00 17.12 20.88 C Max. 6.00 7.25 9.31 12.12 14.62 — — — D Threaded 6.25 — — — — — — — D D 1300 ANSI 6.00 7.50 10.00 12.69 14.88 17.00 DDD 300 ANSI 6.38 7.88 10.50 13.25 15.56 17.75 DDD Grooved End 6.00 7.50 — — — — — — — — — — — — — — | Valve Size (Inches) | 3 | 4 | 6 | 8 | 10 | 12 |
| AAA 300 ANSI 13.25 15.62 21.00 26.38 31.12 35.50 AAAA Grooved End 12.50 15.00 20.00 25.38 — — B Dia. 9.12 11.50 15.75 20.00 23.62 28.00 C Max. 8.19 10.62 13.38 16.00 17.12 20.88 CC Max. Grooved End 7.25 9.31 12.12 14.62 — — — D Threaded 6.25 — | A Threaded | 12.50 | _ | _ | _ | _ | _ |
| AAAA Grooved End 12.50 15.00 20.00 25.38 — — B Dia. 9.12 11.50 15.75 20.00 23.62 28.00 C Max. 8.19 10.62 13.38 16.00 17.12 20.88 CC Max. Grooved End 7.25 9.31 12.12 14.62 — — — D Threaded 6.25 — | AA 150 ANSI | 12.00 | 15.00 | 20.00 | 25.38 | 29.75 | 34.00 |
| B Dia. 9.12 11.50 15.75 20.00 23.62 28.00 C Max. 8.19 10.62 13.38 16.00 17.12 20.88 CC Max. Grooved End 7.25 9.31 12.12 14.62 — — — D Threaded 6.25 — </td <td>AAA 300 ANSI</td> <td>13.25</td> <td>15.62</td> <td>21.00</td> <td>26.38</td> <td>31.12</td> <td>35.50</td> | AAA 300 ANSI | 13.25 | 15.62 | 21.00 | 26.38 | 31.12 | 35.50 |
| C Max. 8.19 10.62 13.38 16.00 17.12 20.88 CC Max. Grooved End 7.25 9.31 12.12 14.62 — — D Threaded 6.25 — — — — — — DD 150 ANSI 6.00 7.50 10.00 12.69 14.88 17.00 DDD DD Grooved End 6.00 7.50 — — — — — E 2.06 3.19 4.31 5.31 9.25 10.75 EE Grooved End 3.12 4.25 6.00 7.56 — — — F 150 ANSI 3.75 4.50 5.50 6.75 8.00 9.50 F F 300 ANSI 4.13 5.00 6.25 7.50 8.75 10.25 G Threaded 4.50 — — — — — — G 150 ANSI 4.13 5.00 6.25 7.50 8.75 10.25 G Threaded 4.50 — — — — — — — | AAAA Grooved End | 12.50 | 15.00 | 20.00 | 25.38 | _ | _ |
| CC Max. Grooved End 7.25 9.31 12.12 14.62 — | B Dia. | 9.12 | 11.50 | 15.75 | 20.00 | 23.62 | 28.00 |
| D Threaded 6.25 − − − − − − − D − | C Max. | | 10.62 | 13.38 | 16.00 | 17.12 | 20.88 |
| DD 150 ANSI 6.00 7.50 10.00 12.69 14.88 17.00 DDD 300 ANSI 6.38 7.88 10.50 13.25 15.56 17.75 DDDD Grooved End 6.00 7.50 — <th< td=""><td>CC Max. Grooved End</td><td>7.25</td><td>9.31</td><td>12.12</td><td>14.62</td><td>_</td><td>_</td></th<> | CC Max. Grooved End | 7.25 | 9.31 | 12.12 | 14.62 | _ | _ |
| DDD 300 ANSI 6.38 7.88 10.50 13.25 15.56 17.75 DDDD Grooved End 6.00 7.50 — — — — — E 2.06 3.19 4.31 5.31 9.25 10.75 EE Grooved End 3.12 4.25 6.00 7.56 — — F 150 ANSI 3.75 4.50 5.50 6.75 8.00 9.50 FF 300 ANSI 4.13 5.00 6.25 7.50 8.75 10.25 G Threaded 4.50 — — — — — — G GG 300 ANSI 4.00 5.00 6.00 8.00 8.62 13.75 GGG G Grooved End 4.25 5.00 — — — — — — H NPT Body Tapping .50 .75 .75 1 1 1 1 1 J NPT Cover Center Plug .50 .75 .75 .75 1 1 </td <td>D Threaded</td> <td>6.25</td> <td>_</td> <td>_</td> <td>_</td> <td>_</td> <td>_</td> | D Threaded | 6.25 | _ | _ | _ | _ | _ |
| DDDD Grooved End 6.00 7.50 — | DD 150 ANSI | 6.00 | 7.50 | 10.00 | 12.69 | 14.88 | 17.00 |
| E 2.06 3.19 4.31 5.31 9.25 10.75 EE Grooved End 3.12 4.25 6.00 7.56 — — F 150 ANSI 3.75 4.50 5.50 6.75 8.00 9.50 FF 300 ANSI 4.13 5.00 6.25 7.50 8.75 10.25 G Threaded 4.50 — | DDD 300 ANSI | 6.38 | 7.88 | 10.50 | 13.25 | 15.56 | 17.75 |
| EE Grooved End 3.12 4.25 6.00 7.56 — — F 150 ANSI 3.75 4.50 5.50 6.75 8.00 9.50 FF 300 ANSI 4.13 5.00 6.25 7.50 8.75 10.25 G Threaded 4.50 — — — — — — — GG 150 ANSI 4.00 5.00 6.00 8.00 8.62 13.75 GGG 300 ANSI 4.38 5.31 6.50 8.50 9.31 14.50 GGGG Grooved End 4.25 5.00 — — — — — H NPT Body Tapping .50 .75 .75 1 1 1 1 J NPT Cover Center Plug .50 .75 .75 1 1 1 1.25 K NPT Cover Tapping .50 .75 .75 1 1 1 1 Stem Travel 0.8 1.1 1.7 2.3 2.8 3.4< | DDDD Grooved End | 6.00 | 7.50 | _ | _ | _ | _ |
| F 150 ANSI 3.75 4.50 5.50 6.75 8.00 9.50 FF 300 ANSI 4.13 5.00 6.25 7.50 8.75 10.25 G Threaded 4.50 — — — — — — — GG 150 ANSI 4.00 5.00 6.00 8.00 8.62 13.75 GG 300 ANSI 4.38 5.31 6.50 8.50 9.31 14.50 GGG Grooved End 4.25 5.00 — — — — — H NPT Body Tapping .50 .75 .75 1 1 1 1 J NPT Cover Center Plug .50 .75 .75 1 1 1.25 K NPT Cover Tapping .50 .75 .75 1 1 1 1 Stem Travel 0.8 1.1 1.7 2.3 2.8 3.4 Approx. Ship Wt. Lbs. 70 140 285 500 780 1165 X Pilot System 15 17 29 31 33 36 </td <td></td> <td>2.06</td> <td>3.19</td> <td>4.31</td> <td>5.31</td> <td>9.25</td> <td>10.75</td> | | 2.06 | 3.19 | 4.31 | 5.31 | 9.25 | 10.75 |
| FF 300 ANSI 4.13 5.00 6.25 7.50 8.75 10.25 G Threaded 4.50 — | EE Grooved End | 3.12 | 4.25 | 6.00 | 7.56 | _ | _ |
| G Threaded 4.50 — < | F 150 ANSI | 3.75 | 4.50 | 5.50 | 6.75 | 8.00 | 9.50 |
| GG 150 ANSI 4.00 5.00 6.00 8.00 8.62 13.75 GGG 300 ANSI 4.38 5.31 6.50 8.50 9.31 14.50 GGGG Grooved End 4.25 5.00 — — — — — H NPT Body Tapping .50 .75 .75 1 1 1 1 J NPT Cover Center Plug .50 .75 .75 1 1 1.25 K NPT Cover Tapping .50 .75 .75 1 1 1 1 Stem Travel 0.8 1.1 1.7 2.3 2.8 3.4 Approx. Ship Wt. Lbs. 70 140 285 500 780 1165 X Pilot System 15 17 29 31 33 36 Y Pilot System 11 12 20 22 24 26 | FF 300 ANSI | 4.13 | 5.00 | 6.25 | 7.50 | 8.75 | 10.25 |
| GGG 300 ANSI 4.38 5.31 6.50 8.50 9.31 14.50 GGGG Grooved End 4.25 5.00 - - - - - - H NPT Body Tapping .50 .75 .75 1 1 1 1 J NPT Cover Center Plug .50 .75 .75 1 1 1 1.25 K NPT Cover Tapping .50 .75 .75 1 1 1 1 Stem Travel 0.8 1.1 1.7 2.3 2.8 3.4 Approx. Ship Wt. Lbs. 70 140 285 500 780 1165 X Pilot System 15 17 29 31 33 36 Y Pilot System 11 12 20 22 24 26 | G Threaded | 4.50 | _ | _ | _ | _ | _ |
| GGGG Grooved End 4.25 5.00 - | GG 150 ANSI | 4.00 | 5.00 | 6.00 | 8.00 | 8.62 | 13.75 |
| H NPT Body Tapping .50 .75 .75 1 1 1 J NPT Cover Center Plug .50 .75 .75 1 1 1.25 K NPT Cover Tapping .50 .75 .75 1 1 1 1 Stem Travel 0.8 1.1 1.7 2.3 2.8 3.4 Approx. Ship Wt. Lbs. 70 140 285 500 780 1165 X Pilot System 15 17 29 31 33 36 Y Pilot System 11 12 20 22 24 26 | GGG 300 ANSI | 4.38 | 5.31 | 6.50 | 8.50 | 9.31 | 14.50 |
| J NPT Cover Center Plug .50 .75 .75 1 1 1.25 K NPT Cover Tapping .50 .75 .75 1 1 1 Stem Travel 0.8 1.1 1.7 2.3 2.8 3.4 Approx. Ship Wt. Lbs. 70 140 285 500 780 1165 X Pilot System 15 17 29 31 33 36 Y Pilot System 11 12 20 22 24 26 | GGGG Grooved End | 4.25 | 5.00 | _ | _ | _ | _ |
| K NPT Cover Tapping .50 .75 .75 1 1 1 Stem Travel 0.8 1.1 1.7 2.3 2.8 3.4 Approx. Ship Wt. Lbs. 70 140 285 500 780 1165 X Pilot System 15 17 29 31 33 36 Y Pilot System 11 12 20 22 24 26 | H NPT Body Tapping | .50 | | | 1 | 1 | 1 |
| Stem Travel 0.8 1.1 1.7 2.3 2.8 3.4 Approx. Ship Wt. Lbs. 70 140 285 500 780 1165 X Pilot System 15 17 29 31 33 36 Y Pilot System 11 12 20 22 24 26 | J NPT Cover Center Plug | .50 | .75 | .75 | 1 | 1 | 1.25 |
| Approx. Ship Wt. Lbs. 70 140 285 500 780 1165 X Pilot System 15 17 29 31 33 36 Y Pilot System 11 12 20 22 24 26 | K NPT Cover Tapping | .50 | .75 | | 1 | 1 | 1 |
| X Pilot System 15 17 29 31 33 36 Y Pilot System 11 12 20 22 24 26 | Stem Travel | 0.8 | 1.1 | 1.7 | 2.3 | 2.8 | 3.4 |
| Y Pilot System 11 12 20 22 24 26 | Approx. Ship Wt. Lbs. | | | | | | |
| | X Pilot System | 15 | 17 | 29 | 31 | 33 | 36 |
| Z Pilot System 11 12 20 22 24 26 | Y Pilot System | | | | | | |
| | Z Pilot System | 11 | 12 | 20 | 22 | 24 | 26 |

Model 100-20 Dimensions (Reduced Internal Port) (In Inches)

| *Consult | Factory |
|----------|---------|

| Valve Size (Inches) | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|
| A 150 ANSI | 13.88 | 17.75 | 21.38 | 26.00 | 30.00 | 34.25 | 35.00 |
| AA 300 ANSI | 14.50 | 18.62 | 22.38 | 27.38 | 31.50 | 35.75 | 36.62 |
| B Dia. | 9.12 | 11.50 | 15.75 | 20.00 | 23.62 | 27.47 | 28.00 |
| C Max. | 8.62 | 11.62 | 15.00 | 17.88 | 21.00 | 20.88 | 25.75 |
| D 150 ANSI | 6.94 | 8.88 | 10.69 | CF* | CF* | CF* | CF* |
| DD 300 ANSI | 7.25 | 9.38 | 11.19 | CF* | CF* | CF* | CF* |
| E 150 ANSI | 5.50 | 6.75 | 7.25 | CF* | CF* | CF* | CF* |
| EE 300 ANSI | 5.81 | 7.25 | 7.75 | CF* | CF* | CF* | CF* |
| F 150 ANSI | 4.50 | 5.50 | 6.75 | 8.00 | 9.50 | 11.00 | 11.75 |
| FF 300 ANSI | 5.00 | 6.25 | 7.50 | 8.75 | 10.25 | 11.50 | 12.75 |
| H NPT Body Tapping | .50 | .75 | .75 | 1 | 1 | 1 | 1 |
| J NPT Cover Center Plug | .50 | .75 | .75 | 1 | 1 | 1.25 | 1.25 |
| K NPT Cover Tapping | .50 | .75 | .75 | 1 | 1 | 1 | 1 |
| Stem Travel | 0.8 | 1.1 | 1.7 | 2.3 | 2.8 | 3.4 | 3.4 |
| Approx. Ship Wt. Lbs. | 85 | 195 | 330 | 625 | 900 | 1250 | 1380 |
| X Pilot System | 15 | 27 | 30 | 33 | 36 | 36 | 41 |
| Y Pilot System | 11 | 18 | 20 | 22 | 24 | 26 | 26 |
| Z Pilot System | 11 | 18 | 20 | 22 | 24 | 26 | 26 |

| 138-01 | 100-01 Pattern: Globe (G), Angle (A), End Connections: Threaded (T), Grooved (GR), Flanged (F) Indicate Available | | | | | | |
|-----------------------------------|---|-----------------------|----------|----------------|-------------------|------|---------------------|
| Valve | Inches | 3 | 4 | 6 | 8 | 10 | 12 |
| Selection | mm | 80 | 100 | 150 | 200 | 250 | 300 |
| Basic Valve | Pattern | G, A | G, A | G, A | G, A | G, A | G, A |
| 100-01 | End Detail | T, F, Gr | F, Gr | F, Gr* | F, Gr* | F | F |
| Commented | Maximum | 460 | 800 | 1800 | 3100 | 4900 | 7000 |
| Suggested Flow (gpm) | Maximum Intermittent | 580 | 990 | 2250 | 3900 | 6150 | 8720 |
| (92111) | Minimum | 2 | 4 | 10 | 15 | 35 | 50 |
| 0 | Maximum | 29 | 50 | 113 | 195 | 309 | 442 |
| Suggested Flow (Liters/Sec) | Maximum Intermittent | 37 | 62 | 142 | 246 | 387 | 549 |
| (2.1.01.07000) | Minimum | 0.13 | 0.25 | 0.63 | 0.95 | 2.2 | 3.2 |
| 100-01 Series | s is the full i | internal port Hytrol. | | For Lower Flow | vs Consult Factor | у | *Globe Grooved Only |

| 638-01 | 100-20 Pattern: Globe (G), Angle (A), End Connections: Flanged (F) Indicate Available Sizes | | | | | | | |
|-------------------|---|------|------|------|------|------|------|------|
| Valve | Inches | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
| Selection | mm | 100 | 150 | 200 | 250 | 300 | 350 | 400 |
| Basic Valve | Pattern | G, A | G, A | G, A | G | G | G | G |
| 100-20 | End Detail | F | F | F | F | F | F | F |
| Suggested Flow | Maximum | 580 | 1025 | 2300 | 4100 | 6400 | 9230 | 9230 |
| (gpm) | Minimum | 2 | 4 | 10 | 15 | 35 | 50 | 50 |
| Suggested | Maximum | 37 | 65 | 145 | 258 | 403 | 581 | 581 |
| Flow (Liters/Sec) | Minimum | .13 | .25 | .63 | .95 | 2.2 | 3.2 | 3.2 |
| 100-20 Series | 00-20 Series is the reduced internal port size version of the 100-01 Series. For Lower Flows Consult Factory | | | | | | | |

CPC Mechanical Specifications

Pressure Connection 3/8" NPT

Valve Connections: Positioning Pilot mounting

thread to match valve

cover center port.

Temperature Range

Water: to 180°F

Materials

Pilot Control:

Housing Stainess Steel Type 316 Trim:Stainless Steel Type 316 Rubber:Buna-N® Synthetic Rubber

Available with optional materials. Consult factory for details

When Ordering, Please Specify

- 1. Catalog No. 138-01 or 638-01
- 2. Valve Size
- 3. Pattern Globe or Angle
- 4. Pressure Class
- 5. Threaded or Flanged
- 6. Trim Material
- 7. Desired Options
- 8. When Vertically Installed

CPC Electronic Actuator Specifications

Operation: Continuous duty

Supply Power Input: 24V DC, Stand by 80mA, Service 800 mA Remote Set point Input: 4-20mA, analog signal (isolated and reverse-

polarity protected with resettable fuse)

Alarm Output: Dry-contact closure (High/Low)

Position Feedback Signal: 4-20 mA Output

Speed of Rotation: Adjustable On/Off time, max 6 rpm **Diagnostic:** LED Indicating operating program and

fault mode using green and red light

Loss of Power Position: Actuator will remain in last commanded

position.

Loss of Signal Position: Programmable - 4 mA, Last, or 20 mA

Electrical Connections: Single, permanently attached 10 m cable with

color-coded power and signal wires

Two permanently attached 10 m cables for

limit switch output

Parameter Changing Interface: Plug & Play / NT / 2000 / XP / Vista

Enclosure Specifications:

Environmental Protection: IP-68 (Temporary submersible)
Ambient Temperature: 15° to 150° F (-10° to 80° C)

Materials

Enclosure: Anodized Aluminum
Coupling Assembly: Stainless Steel

Gear Train: Stainless Steel, permanently lubricated