

# ELECTRIC & HYDRAULIC VALVES

## G500

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## 500 series | Hydraulic control valves



### General Description

500 series valves are direct diaphragm closing automatic hydraulic control valves which work with line pressure. They ensure easy and smooth flow with minimum pressure losses thanks to excellent design of the valve body and diaphragm. No wearable parts such as stem, bearing and seat exist in the main valve body and valve life is much longer than other competitor valves. The only movable part of the valve is the valve diaphragm.

500 series hydraulic control valves are designed so that they can be used in portable water force network, agricultural irrigation, filtration and industrial applications by even unskilled personnel.

### General Features

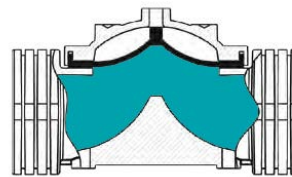
- Easy use and maintenance due to simple design
- Low cost
- Operation in wide pressure range
- Perfect modulation even in lower flow rates
- Anti-surge closing and opening with flexible diaphragm
- Full tightness thanks to reinforced diaphragm and inner spring
- Long life with Glass Reinforced Polyamide material
- Wide control application range by using different pilot valves
- Operation in both horizontal and vertical positions in application areas

## Operating principals

It is an automatic hydraulic control valve designed to make desired modulation in main valve network line as full hydraulically by means of line pressure without requiring different energy sources such as electric, pneumatic or mechanical energy.

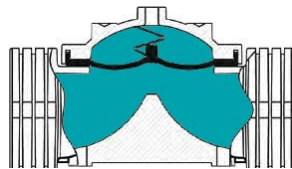
### Valve opening mode

When the pilot valve located on the main valve being in closed position, is brought into relief position, pressurized water within control chamber on main valve diaphragm is released. When line pressure (P1) reaches to a value which will overcome spring force, water carries valve to fully open position by applying a hydraulic force to valve diaphragm from bottom.



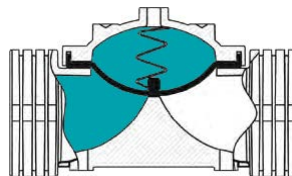
### Modulation mode

Pilot valves which are connected to main valve actuator ensure that main valve works in modulated mode. According to flow rate or pressure conditions, it ensures that main valve works in modulation mode by controlling pressure of fluid within main valve actuator (control chamber).



### Valve closing mode

Pilot valves which are connected to main valve actuator ensure that main valve works in modulated mode. According to flow rate or pressure conditions, it ensures that main valve works in modulation mode by controlling pressure of fluid within main valve actuator (control chamber).



# ELECTRIC & HYDRAULIC VALVES | G500

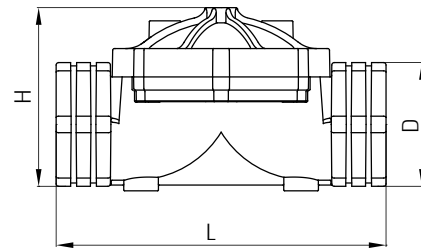
## Available models

### Technical Data

|                       |          |   |
|-----------------------|----------|---|
| Pressure range        | Standard | 0.7 - 10 bar (10 - 160 psi)   |
| Connection            | Threaded | BSPT-NPT  |
| Hydraulic connections | Standard | Reinforced Nylon (Air Brake)<br>Hydraulic Pipe- SAE J 844                 |
| Actuator type         | Standard | Diaphragm Closing Type with Single Control Chamber and Diaphragm Actuator |

### Available Models

| MODEL                    | G500                       |        |
|--------------------------|----------------------------|--------|
| Connection               | Threaded                   |        |
| Material                 | Glass reinforced polyamide |        |
| Body                     | Globe                      |        |
| Maximum working pressure | 10 bar                     | 160psi |
|                          | inch                       | mm     |
| Available sizes          | 1-1/2"                     | 40     |
|                          | 2"                         | 50     |
|                          | 2-1/2"                     | 65     |
|                          | 3"                         | 80     |



model G500

### Dimensions

| DN     |    | D      |     | L      |     | H      |     |
|--------|----|--------|-----|--------|-----|--------|-----|
| inch   | mm | inch   | mm  | inch   | mm  | inch   | mm  |
| 1-1/2" | 40 | 2-1/2" | 62  | 7-7/8" | 200 | 4-3/8" | 110 |
| 2"     | 50 | 3"     | 75  | 7-7/8" | 200 | 4-3/8" | 110 |
| 2-1/2" | 65 | 3-3/4" | 95  | 9-7/8" | 250 | 5-3/8" | 138 |
| 3"     | 80 | 4-1/4" | 109 | 9-7/8" | 250 | 5-3/8" | 145 |

### Order Information

Please submit following information to our sales department when ordering :

Maximum flow rate.....m<sup>3</sup>/h  
 Maximum network/line pressure.....bar  
 Main line size.....mm  
 Valve connection type.....  
 Maximum upstream pressure.....bar  
 Minimum upstream pressure.....bar  
 Desired downstream pressure.....bar  
 Electric voltage value to be used.....volt

# ELECTRIC & HYDRAULIC VALVES | G500

## Hydraulic performance

### Hydraulic Performance Chart

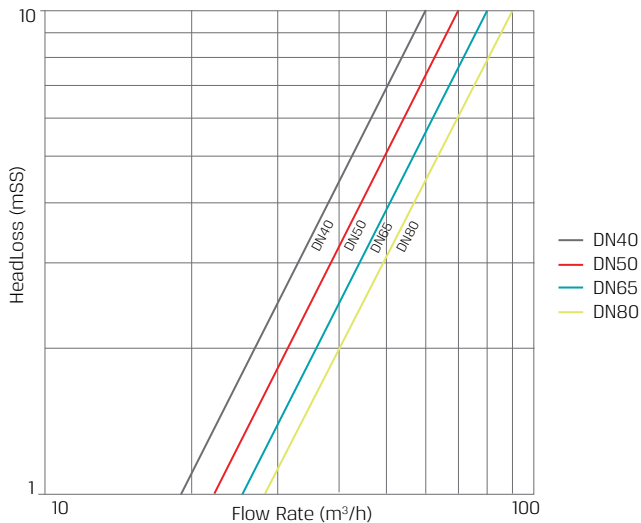
| VALVE SIZE | mm           | 40     | 50 | 65     | 80  |
|------------|--------------|--------|----|--------|-----|
|            | inch         | 1-1/2" | 2" | 2-1/2" | 3"  |
| Kv         | m³/h @ 1 bar | 60     | 70 | 80     | 90  |
| Cv         | gpm @ 1 psi  | 70     | 85 | 95     | 105 |

- Kv : Valve Flow Coefficient (fluid passing under 1 bar pressure difference in m³/h @ 1 bar)
- Cv : Valve Flow Coefficient (fluid passing under 1 bar pressure difference in gpm @ 1 bar)
- Q : Flow Rate (m³/h)
- ΔP : Head Loss (bar)
- G : Specific weight of water (1.0 for water)

$$Kv, (Cv) = Q \sqrt{\frac{G}{\Delta P}}$$

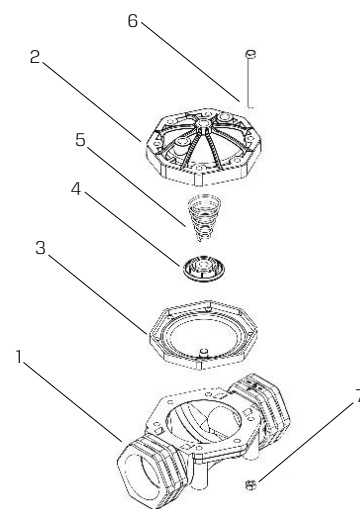
Cv=1,155 Kv

### Head Loss Chart



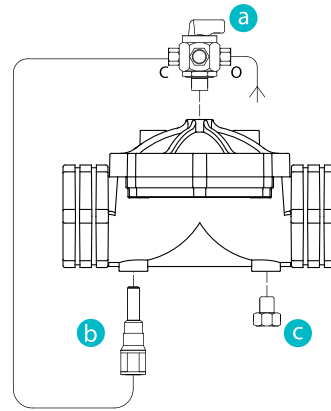
### Main Parts

| NO. | PART NAME          | MATERIAL                   |
|-----|--------------------|----------------------------|
| 1   | Body               | Glass reinforced polyamide |
| 2   | Bonnet             | Glass reinforced polyamide |
| 3   | Diaphragm          | Natural Rubber             |
| 4   | Spring thrust ring | Glass reinforced polyamide |
| 5   | Spring             | SST302                     |
| 6   | Bolt               | SST304                     |
| 7   | Nut                | Brass                      |



# ELECTRIC & HYDRAULIC VALVES | G500

## G500-S | Hydraulic with Manual selector 1-1/2" - 3"



- a 3W selector valve
- b In-line finger filter
- c Plug

### Description

G500-S model valve is the hydraulic control valve operated by line pressure and designed to ensure opening/closing process by means of a 3 Way selector valve. Minimum opening pressure of valve is 0.7 bar. Thanks to its flexible diaphragm, it makes easy and fast control process in high pressure applications and is closed completely tight without causing surge. It may be used in different applications by adding different pilot valves on its main body.

### Applications

- Use G500-S for local operation of hydraulic valve by a manual command.
- Use G500-S for water distribution and field.

### Standards

- G500-S : manual control valve with 3 Way selector valve, polyethylene plastic tubing and nylon fittings.

### How to Order

| G500 | - | TYPE                    | - | PORT           |
|------|---|-------------------------|---|----------------|
|      |   | Hydraulic S             |   | 1-1/2" BSPT 70 |
|      |   | with Manual Selector SM |   | 1-1/2" NPT 71  |
|      |   |                         |   | 2" BSPT 80     |
|      |   |                         |   | 2" NPT 81      |
|      |   |                         |   | 2-1/2" BSPT 85 |
|      |   |                         |   | 2-1/2" NPT 86  |
|      |   |                         |   | 3" BSPT 90     |
|      |   |                         |   | 3" NPT 91      |

Example : G500-SM-80

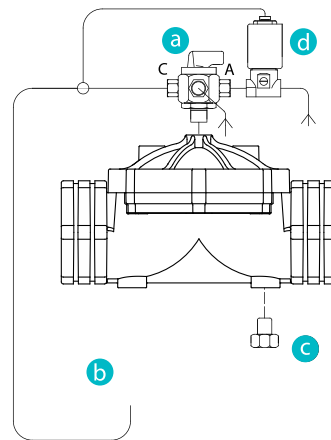
G500 Hydraulic with manual selector, 2" BSPT



\* To order valves manufactured according to your specific requirements, please contact our technical sales department.

# ELECTRIC & HYDRAULIC VALVES | G500

## G500-EL | Electric Solenoid Control Valve 1-1/2" - 3"



- a 3W selector valve
- b In-line finger filter
- c Plug
- d Solenoid Pilot Valve

### Description

G500-EL model valve is the hydraulic control valve operated by line pressure and designed to ensure opening/closing process by means of built-in 3 Way solenoid pilot valve controlled remotely with electric signal. Electric signal for solenoid pilot valve is ensured by means of a control device, time relay, main switch and PLC control units etc. Opening/Closing process may be realized easily thanks to manual control on solenoid pilot valve, depending on requirements, 24V AC 50Hz/60Hz or 12V DC, 9V Latch and 12V DC Latch normally open (NO) or normally closed (NC), solenoids coils may be used on main valve.

### Applications

- Use G500-EL to remove operation of hydraulic valve by an electric command.
- Use G500-EL for water distribution.

### Standards

- G500-EL : 3 Way NO Solenoid, polyethylene plastic tubing system and nylon fittings.
- G500-ELM : 3 Way NO Solenoid, polyethylene plastic tubing system, nylon fittings and 3 Way selector.

### How to Order

| G500 | - | TYPE                 | -   | PORT        |    | VOLTAGE                 |    | WIRES                  |
|------|---|----------------------|-----|-------------|----|-------------------------|----|------------------------|
|      |   | Electric             | EL  | 1-1/2" BSPT | 70 | No solenoid (hydraulic) | 0  | two null               |
|      |   | with Manual Selector | ELM | 1-1/2" NPT  | 71 | 24V AC                  | 1  | three <sup>(1)</sup> a |
|      |   |                      |     | 2" BSPT     | 80 | 24V AC w/out Diode      | 1R |                        |
|      |   |                      |     | 2" NPT      | 81 | 12V AC                  | 3  |                        |
|      |   |                      |     | 2-1/2" BSPT | 85 | 12V DC                  | 4  |                        |
|      |   |                      |     | 2-1/2" NPT  | 86 | 24V DC                  | 5  |                        |
|      |   |                      |     | 3" BSPT     | 90 | 24 Latch (23Ω)          | 6  |                        |
|      |   |                      |     | 3" NPT      | 91 | 6 Latch (4Ω)            | B  |                        |
|      |   |                      |     |             |    | 12 Latch (9Ω)           | C  |                        |
|      |   |                      |     |             |    | 16Latch (12Ω)           | D  |                        |

Example : G500-ELM-801

G500 Electric with manual selector, 2" BSPT, 24V AC, two wires

G500 - ELM - 80 - 1

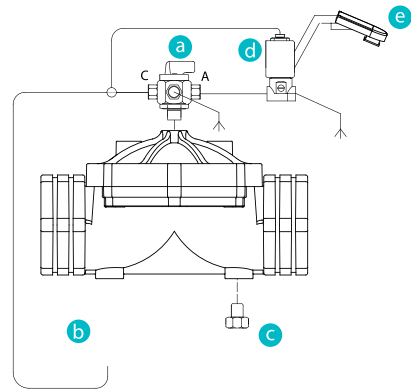
(1) For Latch only

\* To order valves manufactured according to your specific requirements, please contact our technical sales department.



# ELECTRIC & HYDRAULIC VALVES | G500

## G500-C | DC Battery Controller 1-1/2" - 3"



- a 3W selector valve
- b In-line finger filter
- c Plug
- d Solenoid Pilot Valve
- e Controller

### Description

G500-C model valve is the hydraulic control valve operated by line pressure and designed to ensure opening/closing process by means of built-in solenoid pilot valve controlled remotely with electric signal at required time or required duration. Electric signal for solenoid pilot valve is ensured by means of a control device, time relay, main switch and PLC control units etc. Opening/Closing process may be realized easily thanks to manual control on solenoid pilot valve, depending on requirements. The controller irrigates in cycles, during a window of time according to your needs.

### Applications

- Use G500-C for programmed irrigation.
- Use G500-C for water distribution.

### Standards

- G500-C : 9V DC Latch solenoid, Control Unit (1 Outlet), polyethylene plastic tubing system, nylon fittings and 3 Way selector.

### How to Order

| G500-C | - | TYPE      | -    | PORT           |
|--------|---|-----------|------|----------------|
|        |   | One valve | null | 1-1/2" BSPT 70 |
|        |   | Window    | W    | 1-1/2" NPT 71  |
|        |   | Window +  | W+   | 2" BSPT 80     |
|        |   |           |      | 2" NPT 81      |
|        |   |           |      | 2-1/2" BSPT 85 |
|        |   |           |      | 2-1/2" NPT 86  |
|        |   |           |      | 3" BSPT 90     |
|        |   |           |      | 3" NPT 91      |

Example : G500-C-W-90

G500 DC Battery controller, Window, 3" BSPT

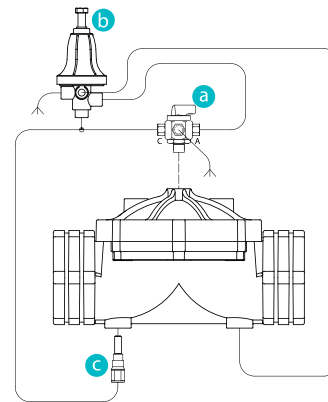


\* To order valves manufactured according to your specific requirements, please contact our technical sales department.



# ELECTRIC & HYDRAULIC VALVES | G500

## G500-PR | Pressure reducing 1-1/2" - 3"



- a 3W selector valve
- b Plastic Pilot
- c In-line finger filter

### Description

G500-PR model pressure reducing control valve is the hydraulic control valve which reduces high upstream pressure value to desired lower pressure value by means of built-in pressure reducing pilot valve. Pressure reducing control valve controls downstream pressure value continuously and maintains it constant without being affected from flow rate and upstream pressure values. When no flow exists in the system, it closes itself automatically. When valve upstream pressure value is lower than set point, it is opened fully by itself. Valve may be used in vertical or horizontal positions in the system.

### Applications

- Use G500-PR for irrigation, water distribution and filtration systems.
- Smart designed G500-PR provides high corrosion resistance.

### Standards

- G500-PR : 3 Way plastic pressure reducing pilot, polyethylene plastic tubing system and nylon fittings.
- G500-PRM : 3 Way plastic pressure reducing pilot, polyethylene plastic tubing system, nylon fittings and 3 Way selector.
- Standard pressure adjustment from factory : 2.5 bar.

### How to Order

| G500 | - | TYPE                    | -   | PORT           |
|------|---|-------------------------|-----|----------------|
|      |   | without Manual Selector | PR  | 1-1/2" BSPT 70 |
|      |   | with Manual Selector    | PRM | 1-1/2" NPT 71  |
|      |   |                         |     | 2" BSPT 80     |
|      |   |                         |     | 2" NPT 81      |
|      |   |                         |     | 2-1/2" BSPT 85 |
|      |   |                         |     | 2-1/2" NPT 86  |
|      |   |                         |     | 3" BSPT 90     |
|      |   |                         |     | 3" NPT 91      |

Example : G500-PR-80

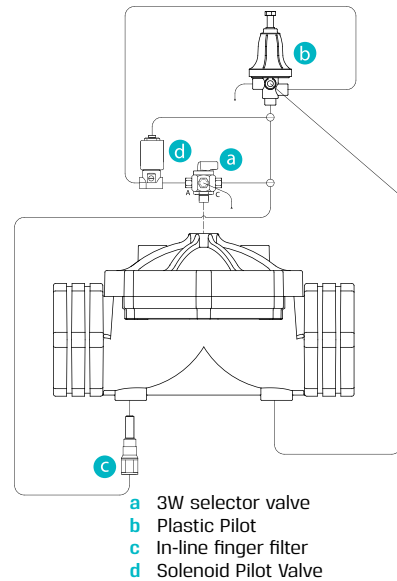
G500 pressure reducing without manual selector, 2" BSPT

G500 - PR - 80

\* To order valves manufactured according to your specific requirements, please contact our technical sales department.

# ELECTRIC & HYDRAULIC VALVES | G500

## G500-PREL | Solenoid controlled pressure reducing 1-1/2" - 3"



### Description

G500-PREL model pressure reducing valve is the hydraulic control valve which reduces high upstream pressure value into desired lower pressure value. Control of main valve is achieved by means of built-in solenoid pilot valves. Electric signal for solenoid pilot valves is ensured by means of a control device, time relay, main switch and PLC control units etc. Automated control may be easily ensured by this way in application systems.

### Applications

- Use G500-PREL for water distribution, where downstream pressure should be reduced, the valve is commanded to open.

### Standards

- G500-PREL : 3 Way plastic pressure reducing pilot, solenoid 24V AC NO, polyethylene plastic tubing system and nylon fittings
- G500-PRELM : 3 Way plastic pressure reducing pilot, solenoid 24V AC NO, polyethylene plastic tubing system and nylon fittings and 3 Way selector.
- Standard pressure adjustment from factory : 2.5 bar.

### How to Order

| G500 | - | TYPE                            | - | PORT           | VOLTAGE                 | WIRES                    |
|------|---|---------------------------------|---|----------------|-------------------------|--------------------------|
|      |   | without Manual Selector<br>PREL |   | 1-1/2" BSPT 70 | No solenoid (hydraulic) | 0 two null               |
|      |   | with Manual Selector<br>PRELM   |   | 1-1/2" NPT 71  | 24V AC                  | 1 three <sup>(1)</sup> a |
|      |   |                                 |   | 2" BSPT 80     | 24V AC w/out Diode      | 1R                       |
|      |   |                                 |   | 2" NPT 81      | 12V AC                  | 3                        |
|      |   |                                 |   | 2-1/2" BSPT 85 | 12V DC                  | 4                        |
|      |   |                                 |   | 2-1/2" NPT 86  | 24V DC                  | 5                        |
|      |   |                                 |   | 3" BSPT 90     | 24 Latch (23Ω)          | 6                        |
|      |   |                                 |   | 3" NPT 91      | 6 Latch (4Ω)            | B                        |
|      |   |                                 |   |                | 12 Latch (9Ω)           | C                        |
|      |   |                                 |   |                | 16Latch (12Ω)           | D                        |

Example : G500-PRELM-851

G500 Solenoid controlled pressure reducing, with manual selector, 2-1/2" BSPT, 24V AC, two wires

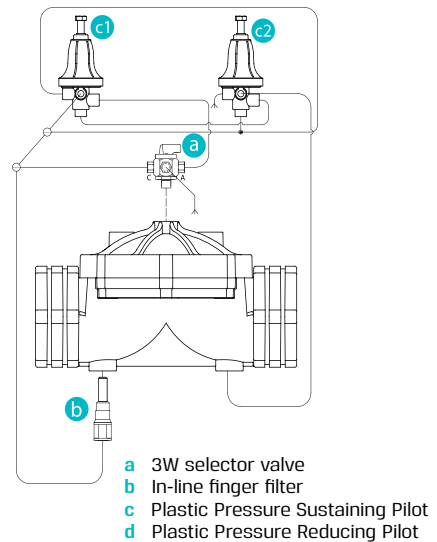
G500 - PRELM - 85 1

(1) For Latch only

\* To order valves manufactured according to your specific requirements, please contact our technical sales department.

# ELECTRIC & HYDRAULIC VALVES | G500

## G500-PRPS | Pressure reducing & sustaining control valve 1-1/2" - 3"



### Description

G500-PRPS model pressure reducing/sustaining hydraulic control valve reduces valve downstream pressure to desired value by sustaining upstream pressure. Two pilot valves exist on the valve. Pilot valve on upstream side is the pressure sustaining pilot valve and sustains upstream pressure. The other pilot valve is pressure reducing pilot valve and keeps downstream pressure constant by reducing it to desired value. Reducing/sustaining control valve pumps fluid downwards; it ensures that the system works within normal values by regulating overflow and high pressure in pumping systems. It controls upstream and downstream pressure continuously and keeps them within constant values.

### Applications

- Use G500-PRPS for protecting booster pumps and preserving set pressure downstream.

### Standards

- G500-PRPS : 3 Way plastic pressure reducing pilot, 3 Way plastic pressure sustaining valve, polyethylene plastic tubing system, nylon fittings and 3 Way selector.

### How to Order

| G500-PRPS | - | PORT        |    |
|-----------|---|-------------|----|
|           |   | 1-1/2" BSPT | 70 |
|           |   | 1-1/2" NPT  | 71 |
|           |   | 2" BSPT     | 80 |
|           |   | 2" NPT      | 81 |
|           |   | 2-1/2" BSPT | 85 |
|           |   | 2-1/2" NPT  | 86 |
|           |   | 3" BSPT     | 90 |
|           |   | 3" NPT      | 91 |

Example : G500-PRPS-80

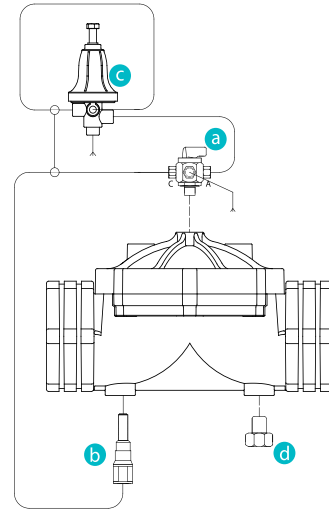
G500 pressure reducing & sustaining 2" BSPT

G500-PRPS - 80

\* To order valves manufactured according to your specific requirements, please contact our technical sales department.

# ELECTRIC & HYDRAULIC VALVES | G500

## G500-QR | Quick pressure relief 1-1/2" - 3"



- a 3W selector valve
- b In-line finger filter
- c Plastic Pilot
- d Plug

### Description

G500-QR model quick pressure relief valve is the safety control valve designed to protect the system by releasing pressure surges, which are caused by sudden changes in water speed due to pumps put into/out of service, in water network elevation lines to the atmosphere quickly. When network pressure exceeds set point, the valve opens by itself quickly and protects the system by releasing over pressure. When the line pressure decreases to normal level, it is tightly closed slowly and automatically without causing a surge.

### Applications

- Use G500-QR when wishing to avoid unwanted high pressure.

### Standards

- G500-QR : 3 Way plastic pilot, polyethylene plastic tubing system and nylon fittings.
- G500-QRM : 3 Way plastic pilot, polyethylene plastic tubing system and nylon fittings and 3 Way selector.

### How to Order

| G500 | - | TYPE                    | -   | PORT           | VOLTAGE                 | WIRES                    |
|------|---|-------------------------|-----|----------------|-------------------------|--------------------------|
|      |   | without Manual Selector | QR  | 1-1/2" BSPT 70 | No solenoid (hydraulic) | 0 two null               |
|      |   | with Manual Selector    | QRM | 1-1/2" NPT 71  | 24V AC                  | 1 three <sup>(1)</sup> a |
|      |   |                         |     | 2" BSPT 80     | 24V AC w/out Diode      | 1R                       |
|      |   |                         |     | 2" NPT 81      | 12V AC                  | 3                        |
|      |   |                         |     | 2-1/2" BSPT 85 | 12V DC                  | 4                        |
|      |   |                         |     | 2-1/2" NPT 86  | 24V DC                  | 5                        |
|      |   |                         |     | 3" BSPT 90     | 24 Latch (23Ω)          | 6                        |
|      |   |                         |     | 3" NPT 91      | 6 Latch (4Ω)            | B                        |
|      |   |                         |     |                | 12 Latch (9Ω)           | C                        |
|      |   |                         |     |                | 16Latch (12Ω)           | D                        |

Example : G500-QR-701

G500 quick pressure relief, without manual selector, 1-1/2" BSPT, 24V AC, two wires

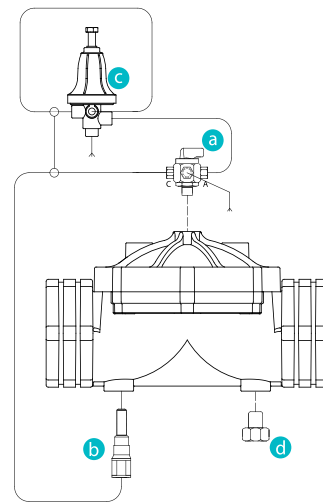
G500 - QR - 70 - 1

(1) For Latch only

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# ELECTRIC & HYDRAULIC VALVES | G500

## G500-PS | Pressure sustaining control valve 1-1/2" - 3"



- a 3W selector valve
- b In-line finger filter
- c Plastic Pilot
- d Plug

### Description

G500-PS model pressure sustaining hydraulic control valve maintains valve upstream pressure value constant. Valve is opened when line pressure reaches the preset pressure level. It ensures that pump motor within pumping systems will start without load. It also prevents positive pressure waves caused by pump during start-up. The valve controls upstream pressure value continuously and keeps it at a constant value without being affected from changes in flow rate. When no flow exists, it closes tightly by itself.

### Applications

- Use G500-PS for maintaining a constant upstream pressure or to avoid unwanted high pressure.

### Standards

- G500-PS : 3 Way plastic pressure sustaining pilot, polyethylene plastic tubing system and nylon fittings.
- G500-PSM : 3 Way plastic pressure sustaining pilot, polyethylene plastic tubing system, nylon fittings and 3 Way selector.
- Standard pressure adjustment from factory : 2.5 bar.

### How to Order

| G500 | - | TYPE                    | -   | PORT           | VOLTAGE                 | WIRES                    |
|------|---|-------------------------|-----|----------------|-------------------------|--------------------------|
|      |   | without Manual Selector | PS  | 1-1/2" BSPT 70 | No solenoid (hydraulic) | 0 two null               |
|      |   | with Manual Selector    | PSM | 1-1/2" NPT 71  | 24V AC                  | 1 three <sup>(1)</sup> a |
|      |   |                         |     | 2" BSPT 80     | 24V AC w/out Diode      | 1R                       |
|      |   |                         |     | 2" NPT 81      | 12V AC                  | 3                        |
|      |   |                         |     | 2-1/2" BSPT 85 | 12V DC                  | 4                        |
|      |   |                         |     | 2-1/2" NPT 86  | 24V DC                  | 5                        |
|      |   |                         |     | 3" BSPT 90     | 24 Latch (23Ω)          | 6                        |
|      |   |                         |     | 3" NPT 91      | 6 Latch (4Ω)            | B                        |
|      |   |                         |     |                | 12 Latch (9Ω)           | C                        |
|      |   |                         |     |                | 16Latch (12Ω)           | D                        |

Example : G500-PSM-801

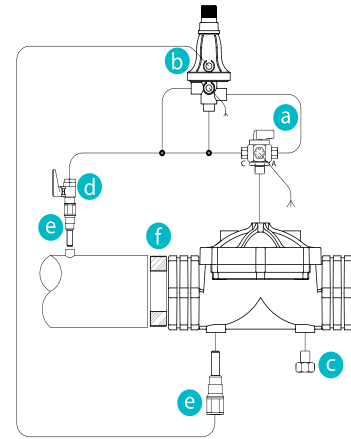
G500 pressure sustaining with manual selector, 2" BSPT, 24V AC, two wires

G500 - PSM - 80 - 1

\* To order valves manufactured according to your specific requirements, please contact our technical sales department.

# ELECTRIC & HYDRAULIC VALVES | G500

## G500-FR | Flow rate control valve 1-1/2" - 3"



- a 3W selector valve
- b Plastic Pilot
- c Plug
- d Ball valve
- e In-line finger filter
- f Orifice Plate

### Description

G500-FR model flow rate control valve is designed to limit desired flow rate. The orifice on main valve upstream creates pressure difference and 3 Way differential pressure set pilot mounted in control chamber of valve senses this pressure difference and ensures that the main valve opens in desired flow rate. The valve thereby limits desired flow rate automatically and keeps it fixed. It eliminates overflow by preventing excessive flow during reverse washing in filtration systems.

### Applications

- Use G500-FR for automatically limiting required flow rate without affecting inlet pressure.

### Standards

- G500-FR : Plastic flow rate pilot, polyethylene plastic tubing system, nylon fittings and Stainless Steel orifice.

### How to Order

| G500-FR | - | PORT        |    |
|---------|---|-------------|----|
|         |   | 1-1/2" BSPT | 70 |
|         |   | 1-1/2" NPT  | 71 |
|         |   | 2" BSPT     | 80 |
|         |   | 2" NPT      | 81 |
|         |   | 2-1/2" BSPT | 85 |
|         |   | 2-1/2" NPT  | 86 |
|         |   | 3" BSPT     | 90 |
|         |   | 3" NPT      | 91 |

Example : G500-FR-70

G500 flow rate control, 1-1/2" BSPT

G500-FR - 70

\* To order valves manufactured according to your specific requirements, please contact our technical sales department.