



# 71 Series Water Valves (Brass)

Part No. [NS711YH02C9DG1](#)

GC Valves 71 Series water valves are an excellent choice for potable water applications. These valves are certified to NSF/ANSI 61 and have lead-free brass bodies and NSF approved EPDM diaphragms. Ported for 3/8, 1/2, 3/4, 1, 1-1/4, 1-1/2, or 2 inch NPT. Valves are available with either 120VAC or 24VDC solenoids.

## Features

- 2-Ports (2-way), 2-position
- Normally closed (N.C.) or normally open (N.O.) configuration
- Piloted diaphragm operator
- 18mm (DIN 43650A) style wiring plug
- 3/8, 1/2, 3/4, 1, 1-1/4, 1-1/2, or 2 inch NPT ports
- 120VAC or 24VDC solenoids
- Made in the USA



Also, see our website  
[www.AutomationDirect.com](http://www.AutomationDirect.com)  
for a variety of fitting options



Certified to  
NSF/ANSI 61



Made  
in the  
USA

| 711 Normally Closed Water Valves |                                                              |                                |                                |                                |                                |                                |                                |
|----------------------------------|--------------------------------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Model                            | <a href="#">NS711YH02C9CG1</a>                               | <a href="#">NS711YH02C9DG1</a> | <a href="#">NS711YH02C9EG5</a> | <a href="#">NS711YH02C9FG9</a> | <a href="#">NS711YH02C9GJ2</a> | <a href="#">NS711YH02C9HJ5</a> | <a href="#">NS711YH02C9JJ7</a> |
| Price                            | \$--06j3l:                                                   | \$-06j3n:                      | \$-06j3o:                      | \$-06j3p:                      | \$-06j3q:                      | \$-06j37:                      | \$-06j38:                      |
| Drawing Link                     | <a href="#">PDF</a>                                          | <a href="#">PDF</a>            | <a href="#">PDF</a>            | <a href="#">PDF</a>            | <a href="#">PDF</a>            | <a href="#">PDF</a>            | <a href="#">PDF</a>            |
| Weight (lbs)                     | 1.77                                                         | 1.73                           | 2.17                           | 3.24                           | 6.88                           | 6.33                           | 9.78                           |
| Valve Type                       | 2-Ports (2-way), 2-position                                  |                                |                                |                                |                                |                                |                                |
| Acting                           | Piloted diaphragm, normally closed                           |                                |                                |                                |                                |                                |                                |
| Inlet/Outlet Port Size           | 3/8" FNPT                                                    | 1/2" FNPT                      | 3/4" FNPT                      | 1" FNPT                        | 1-1/4" FNPT                    | 1-1/2" FNPT                    | 2" FNPT                        |
| Orifice Size                     | 1/2"                                                         | 1/2"                           | 3/4"                           | 1"                             | 1-1/4"                         | 1-1/2"                         | 2"                             |
| Cv                               | 4.3                                                          | 4.3                            | 6.7                            | 13                             | 22                             | 30                             | 48                             |
| Media                            | Water                                                        |                                |                                |                                |                                |                                |                                |
| Max Operating Pressure           | 150 psi                                                      |                                |                                |                                | 200 psi                        |                                |                                |
| Min Operating Pressure           | 8 psi                                                        |                                |                                |                                |                                |                                |                                |
| Voltage (± 10%)                  | 110/120 VAC, 50/60 Hz                                        |                                |                                |                                |                                |                                |                                |
| Power Consumption                | 8 Watts                                                      |                                |                                |                                |                                |                                |                                |
| Holding Amps (VA)                | 0.110 (14)                                                   |                                |                                |                                |                                |                                |                                |
| Inrush Amps (VA)                 | 0.330 (40)                                                   |                                |                                |                                |                                |                                |                                |
| Max Cycles per Minute**          | 15                                                           |                                |                                |                                |                                |                                |                                |
| Insulation                       | Class H 356°F (180°C)                                        |                                |                                |                                |                                |                                |                                |
| Min Response                     | 25 to 100 ms                                                 |                                |                                |                                |                                |                                |                                |
| Temperature                      | 32°F to 125°F (0°C to 51.7°C); Max. Fluid Temp. 176°F (80°C) |                                |                                |                                |                                |                                |                                |
| Lubrication                      | Not required                                                 |                                |                                |                                |                                |                                |                                |
| Protection                       | NEMA 4/4X Encapsulated                                       |                                |                                |                                |                                |                                |                                |
| Connection                       | 18mm (DIN 43650A) terminal                                   |                                |                                |                                |                                |                                |                                |
| Construction                     | Lead-free brass body, EPDM rubber seal(s)                    |                                |                                |                                |                                |                                |                                |
| Life Cycle                       | 1 Million                                                    |                                |                                |                                |                                |                                |                                |
| Agency Approvals*                | NSF/ANSI - 61-G/NSF-372, CE, CSA, UL Recognized              |                                |                                |                                |                                |                                |                                |

\* To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

\*\* Cannot be used in PWM (pulse width modulation) applications



# 71 Series Water Valves (Brass)

| 711 Normally Closed Water Valves |                                                              |                                |                                |                                |                                |                                |                                |
|----------------------------------|--------------------------------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Model                            | <a href="#">NS711YH16C9CG1</a>                               | <a href="#">NS711YH16C9DG1</a> | <a href="#">NS711YH16C9EG5</a> | <a href="#">NS711YH16C9FG9</a> | <a href="#">NS711YH16C9GJ2</a> | <a href="#">NS711YH16C9HJ5</a> | <a href="#">NS711YH16C9JJ7</a> |
| Price                            | \$--06j3j:                                                   | \$-06j3k:                      | \$-06j3s:                      | \$-06j3d:                      | \$-06j3t:                      | \$-06j3u:                      | \$-06j3v:                      |
| Drawing Link                     | <a href="#">PDF</a>                                          | <a href="#">PDF</a>            | <a href="#">PDF</a>            | <a href="#">PDF</a>            | <a href="#">PDF</a>            | <a href="#">PDF</a>            | <a href="#">PDF</a>            |
| Weight (lbs)                     | 1.77                                                         | 1.72                           | 2.15                           | 3.24                           | 6.86                           | 6.29                           | 9.71                           |
| Valve Type                       | 2-Ports (2-way), 2-position                                  |                                |                                |                                |                                |                                |                                |
| Acting                           | Pilotd diaphragm, normally closed                            |                                |                                |                                |                                |                                |                                |
| Inlet/Outlet Port Size           | 3/8" FNPT                                                    | 1/2" FNPT                      | 3/4" FNPT                      | 1" FNPT                        | 1-1/4" FNPT                    | 1-1/2" FNPT                    | 2" FNPT                        |
| Orifice Size                     | 1/2"                                                         | 1/2"                           | 3/4"                           | 1"                             | 1-1/4"                         | 1-1/2"                         | 2"                             |
| Cv                               | 4.3                                                          | 4.3                            | 6.7                            | 13                             | 22                             | 30                             | 48                             |
| Media                            | Water                                                        |                                |                                |                                |                                |                                |                                |
| Max Operating Pressure           | 150 psi                                                      |                                |                                |                                |                                |                                |                                |
| Min Operating Pressure           | 8 psi                                                        |                                |                                |                                |                                |                                |                                |
| Voltage ( $\pm 10\%$ )           | 24VDC                                                        |                                |                                |                                |                                |                                |                                |
| Power Consumption                | 9 Watts                                                      |                                |                                |                                |                                |                                |                                |
| Holding Amps (VA)                | 0.375                                                        |                                |                                |                                |                                |                                |                                |
| Inrush Amps (VA)                 | 0.375                                                        |                                |                                |                                |                                |                                |                                |
| Max Cycles per Minute**          | 15                                                           |                                |                                |                                |                                |                                |                                |
| Insulation                       | Class H 356°F (180°C)                                        |                                |                                |                                |                                |                                |                                |
| Min Response                     | 38 to 150 ms                                                 |                                |                                |                                |                                |                                |                                |
| Temperature                      | 32°F to 125°F (0°C to 51.7°C); Max. Fluid Temp. 176°F (80°C) |                                |                                |                                |                                |                                |                                |
| Lubrication                      | Not required                                                 |                                |                                |                                |                                |                                |                                |
| Protection                       | NEMA 4/4X Encapsulated                                       |                                |                                |                                |                                |                                |                                |
| Connection                       | 18mm (DIN 43650A) terminal                                   |                                |                                |                                |                                |                                |                                |
| Construction                     | Lead-free brass body, EPDM rubber seal(s)                    |                                |                                |                                |                                |                                |                                |
| Life Cycle                       | 1 Million                                                    |                                |                                |                                |                                |                                |                                |
| Agency Approvals*                | NSF/ANSI - 61-G/NSF-372, CE, CSA, UL Recognized              |                                |                                |                                |                                |                                |                                |

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\*\* Cannot be used in PWM (pulse width modulation) applications



# 71 Series Water Valves (Brass)

| 712 Normally Open Water Valves |                                                              |                                |                                |                                |                                |                                |                                |
|--------------------------------|--------------------------------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Model                          | <a href="#">NS712YH02C9CG1</a>                               | <a href="#">NS712YH02C9DG1</a> | <a href="#">NS712YH02C9EG5</a> | <a href="#">NS712YH02C9FG9</a> | <a href="#">NS712YH02C9GJ2</a> | <a href="#">NS712YH02C9HJ5</a> | <a href="#">NS712YH02C9JJ7</a> |
| Price                          | \$-06j39:                                                    | \$-06j3a:                      | \$-06j3b:                      | \$-06j3g:                      | \$-06j3h:                      | \$-06j3i:                      | \$-06j3c:                      |
| Drawing Link                   | <a href="#">PDF</a>                                          | <a href="#">PDF</a>            | <a href="#">PDF</a>            | <a href="#">PDF</a>            | <a href="#">PDF</a>            | <a href="#">PDF</a>            | <a href="#">PDF</a>            |
| Weight (lbs)                   | 1.77                                                         | 1.73                           | 2.15                           | 3.25                           | 6.83                           | 6.35                           | 9.76                           |
| Valve Type                     | 2-Ports (2-way), 2-position                                  |                                |                                |                                |                                |                                |                                |
| Acting                         | Pilotd diaphragm, normally open                              |                                |                                |                                |                                |                                |                                |
| Inlet/Output Port Size         | 3/8" FNPT                                                    | 1/2" FNPT                      | 3/4" FNPT                      | 1" FNPT                        | 1-1/4" FNPT                    | 1-1/2" FNPT                    | 2" FNPT                        |
| Orifice Size                   | 1/2"                                                         | 1/2"                           | 3/4"                           | 1"                             | 1-1/4"                         | 1-1/2"                         | 2"                             |
| Cv                             | 4.3                                                          | 4.3                            | 6.7                            | 13                             | 22                             | 30                             | 48                             |
| Media                          | Water                                                        |                                |                                |                                |                                |                                |                                |
| Max Operating Pressure         | 200 psi                                                      |                                |                                |                                |                                |                                |                                |
| Min Operating Pressure         | 7 psi                                                        |                                |                                |                                |                                |                                |                                |
| Voltage (± 10%)                | 110/120 VAC, 50/60 Hz                                        |                                |                                |                                |                                |                                |                                |
| Power Consumption              | 8 Watts                                                      |                                |                                |                                |                                |                                |                                |
| Holding Amps (VA)              | 0.110 (14)                                                   |                                |                                |                                |                                |                                |                                |
| Inrush Amps (VA)               | 0.330 (40)                                                   |                                |                                |                                |                                |                                |                                |
| Max Cycles per Minute**        | 15                                                           |                                |                                |                                |                                |                                |                                |
| Insulation                     | Class H 356°F (180°C)                                        |                                |                                |                                |                                |                                |                                |
| Min Response                   | 25 to 100 ms                                                 |                                |                                |                                |                                |                                |                                |
| Temperature                    | 32°F to 125°F (0°C to 51.7°C); Max. Fluid Temp. 176°F (80°C) |                                |                                |                                |                                |                                |                                |
| Lubrication                    | Not required                                                 |                                |                                |                                |                                |                                |                                |
| Protection                     | NEMA 4/4X Encapsulated                                       |                                |                                |                                |                                |                                |                                |
| Connection                     | 18mm (DIN 43650A) terminal                                   |                                |                                |                                |                                |                                |                                |
| Construction                   | Lead-free brass body, EPDM rubber seal(s)                    |                                |                                |                                |                                |                                |                                |
| Life Cycle                     | 1 Million                                                    |                                |                                |                                |                                |                                |                                |
| Agency Approvals*              | NSF/ANSI - 61-G/NSF-372, CE, CSA, UL Recognized              |                                |                                |                                |                                |                                |                                |

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# 71 Series Water Valves (Brass)

| 712 Normally Open Water Valves |                                                              |                     |                     |                     |                     |                     |                     |
|--------------------------------|--------------------------------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Model                          | NS712YH16C9CG1                                               | NS712YH16C9DG1      | NS712YH16C9EG5      | NS712YH16C9FG9      | NS712YH16C9GJ2      | NS712YH16C9HJ5      | NS712YH16C9JJ7      |
| Price                          | \$-06j3x:                                                    | \$-06j3y:           | \$-06j3z:           | \$-06j3j:           | \$-06j3e:           | \$-06j3f:           | \$-06j3l:           |
| Drawing Link                   | <a href="#">PDF</a>                                          | <a href="#">PDF</a> | <a href="#">PDF</a> | <a href="#">PDF</a> | <a href="#">PDF</a> | <a href="#">PDF</a> | <a href="#">PDF</a> |
| Weight (lbs)                   | 1.76                                                         | 1.73                | 2.15                | 3.25                | 6.84                | 6.32                | 9.74                |
| Valve Type                     | 2-Ports (2-way), 2-position                                  |                     |                     |                     |                     |                     |                     |
| Acting                         | Piloted diaphragm, normally open                             |                     |                     |                     |                     |                     |                     |
| Inlet/Outlet Port Size         | 3/8" FNPT                                                    | 1/2" FNPT           | 3/4" FNPT           | 1" FNPT             | 1-1/4" FNPT         | 1-1/2" FNPT         | 2" FNPT             |
| Orifice Size                   | 1/2"                                                         | 1/2"                | 3/4"                | 1"                  | 1-1/4"              | 1-1/2"              | 2"                  |
| Cv                             | 4.3                                                          | 4.3                 | 6.7                 | 13                  | 22                  | 30                  | 48                  |
| Media                          | Water                                                        |                     |                     |                     |                     |                     |                     |
| Max Operating Pressure         | 150 psi                                                      |                     |                     |                     |                     |                     |                     |
| Min Operating Pressure         | 7 psi                                                        |                     |                     |                     |                     |                     |                     |
| Voltage ( $\pm 10\%$ )         | 24VDC                                                        |                     |                     |                     |                     |                     |                     |
| Power Consumption              | 9 Watts                                                      |                     |                     |                     |                     |                     |                     |
| Holding Amps (VA)              | 0.375                                                        |                     |                     |                     |                     |                     |                     |
| Inrush Amps (VA)               | 0.375                                                        |                     |                     |                     |                     |                     |                     |
| Max Cycles per Minute**        | 15                                                           |                     |                     |                     |                     |                     |                     |
| Insulation                     | Class H 356°F (180°C)                                        |                     |                     |                     |                     |                     |                     |
| Min Response                   | 38 to 150 ms                                                 |                     |                     |                     |                     |                     |                     |
| Temperature                    | 32°F to 125°F (0°C to 51.7°C); Max. Fluid Temp. 176°F (80°C) |                     |                     |                     |                     |                     |                     |
| Lubrication                    | Not required                                                 |                     |                     |                     |                     |                     |                     |
| Protection                     | NEMA 4/4X Encapsulated                                       |                     |                     |                     |                     |                     |                     |
| Connection                     | 18mm (DIN 43650A) terminal                                   |                     |                     |                     |                     |                     |                     |
| Construction                   | Lead-free brass body, EPDM rubber seal(s)                    |                     |                     |                     |                     |                     |                     |
| Life Cycle                     | 1 Million                                                    |                     |                     |                     |                     |                     |                     |
| Agency Approvals*              | NSF/ANSI - 61-G/NSF-372, CE, CSA, UL Recognized              |                     |                     |                     |                     |                     |                     |

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\*\* Cannot be used in PWM (pulse width modulation) applications



# GCV Valves Replacement Coils

| Water Valve Accessory Coils                                                         |                                   |                |              |                           |                                        |              |                                                                |           |              |
|-------------------------------------------------------------------------------------|-----------------------------------|----------------|--------------|---------------------------|----------------------------------------|--------------|----------------------------------------------------------------|-----------|--------------|
| Coil Photo                                                                          | Part No.                          | Voltage Rating | Power Rating | Insulation                | Connection                             | Cable Length | Fits Valve Series                                              | Price     | Weight (lbs) |
|    | <a href="#"><u>HS4YN02</u></a>    | 120VAC         | 10W          | Class H:<br>180°C (356°F) | 18mm (DIN 43650A)<br>style wiring plug | N/A          | S201, NS201, S301<br>and NS301 valves                          | \$;-1j[n: | 0.6          |
|    | <a href="#"><u>HS4YN04</u></a>    | 240VAC         | 10W          | Class H:<br>180°C (356°F) | 18mm (DIN 43650A)<br>style wiring plug | N/A          | S201, NS201, S301<br>and NS301 valves                          | \$;-1j[o: | 0.6          |
|    | <a href="#"><u>HS4YN24</u></a>    | 24VAC          | 10W          | Class H:<br>180°C (356°F) | 18mm (DIN 43650A)<br>style wiring plug | N/A          | S201, NS201, S301<br>and NS301 valves                          | \$;-1j[p: | 0.6          |
|    | <a href="#"><u>HS4YN16</u></a>    | 24VDC          | 10W          | Class H:<br>180°C (356°F) | 18mm (DIN 43650A)<br>style wiring plug | N/A          | S201, NS201, S211<br>DC, NS211 DC,<br>S301 and NS301<br>valves | \$;-1j[q: | 0.6          |
|    | <a href="#"><u>HS4GN02A24</u></a> | 120VAC         | 10W          | Class H:<br>180°C (356°F) | 1/2in conduit<br>24in 18AWG pigtail    | 24in         | S201, NS201, S301<br>and NS301 valves                          | \$;-1j[s: | 0.6          |
|   | <a href="#"><u>HS4GN04A24</u></a> | 240VAC         | 10W          | Class H:<br>180°C (356°F) | 1/2in conduit<br>24in 18AWG pigtail    | 24in         | S201, NS201, S301<br>and NS301 valves                          | \$;-1j[t: | 0.6          |
|  | <a href="#"><u>HS4GN24A24</u></a> | 24VAC          | 10W          | Class H:<br>180°C (356°F) | 1/2in conduit<br>24in 18AWG pigtail    | 24in         | S201, NS201, S301<br>and NS301 valves                          | \$;-1j[u: | 0.6          |
|  | <a href="#"><u>HS4GN16A24</u></a> | 24VDC          | 10W          | Class H:<br>180°C (356°F) | 1/2in conduit<br>24in 18AWG pigtail    | 24in         | S201, NS201, S211<br>DC, NS211 DC,<br>S301 and NS301<br>valves | \$;-1j[v: | 0.6          |
|  | <a href="#"><u>HS3YN02</u></a>    | 120VAC         | 8W           | Class H:<br>180°C (356°F) | 18mm (DIN 43650A)<br>style wiring plug | N/A          | S211, NS211 and<br>NS71 valves                                 | \$;-1j[x: | 0.5          |
|  | <a href="#"><u>HS3YN04</u></a>    | 240VAC         | 8W           | Class H:<br>180°C (356°F) | 18mm (DIN 43650A)<br>style wiring plug | N/A          | S211, NS211 and<br>NS71 valves                                 | \$;-1j[y: | 0.5          |
|  | <a href="#"><u>HS3YN24</u></a>    | 24VAC          | 8W           | Class H:<br>180°C (356°F) | 18mm (DIN 43650A)<br>style wiring plug | N/A          | S211, NS211 and<br>NS71 valves                                 | \$;-1j[z: | 0.5          |
|  | <a href="#"><u>HS3GN02A24</u></a> | 120VAC         | 8W           | Class H:<br>180°C (356°F) | 1/2in conduit<br>24in 18AWG pigtail    | 24in         | S211, NS211 and<br>NS71 valves                                 | \$;-1j[[: | 0.5          |
|  | <a href="#"><u>HS3GN04A24</u></a> | 240VAC         | 8W           | Class H:<br>180°C (356°F) | 1/2in conduit<br>24in 18AWG pigtail    | 24in         | S211, NS211 and<br>NS71 valves                                 | \$;-1j[[: | 0.5          |
|  | <a href="#"><u>HS3GN24A24</u></a> | 24VAC          | 8W           | Class H:<br>180°C (356°F) | 1/2in conduit<br>24in 18AWG pigtail    | 24in         | S211, NS211 and<br>NS71 valves                                 | \$;-1j[[: | 0.5          |



# GCV Valve Replacement Coils

| GCV Valve Replacement Coils                                                       |                                   |                |              |                        |                                |              |                             |         |              |
|-----------------------------------------------------------------------------------|-----------------------------------|----------------|--------------|------------------------|--------------------------------|--------------|-----------------------------|---------|--------------|
| Coil Photo                                                                        | Part No.                          | Voltage Rating | Power Rating | Insulation             | Connection                     | Cable Length | Fits Valve Series           | Price   | Weight (lbs) |
|  | <a href="#"><u>HS3GN16A24</u></a> | 24VDC          | 9W           | Class H: 180°C (356°F) | 1/2in conduit w/ 18AWG pigtail | 24in         | S211, NS211 and NS71 valves | \$647v: | 0.54         |
|  | <a href="#"><u>HS3YN16</u></a>    | 24VDC          | 9W           | Class H: 180°C (356°F) | 18mm DIN style wiring plug     | N/A          | S211, NS211 and NS71 valves | \$647u: | 0.49         |