Revision 11, August, 2024

GC Valves

A DEMA Company

NSF Approved Solenoid Valves

Certified to
NSF/ANSI/CAN 61-G & 372

GC Valves, LLC.
456 Crompton Street
Charlotte, North Carolina 28273
Ph: (800)-828-0484, Fx: (704)-973-9526

2-Way • Normally Closed & Normally Open • Pilot Operated

True Union Solenoid Valves

Nylon-6 • ½" & ¾" NPT Pipe Size

Applications

Water treatment (ozone, UV, reverse osmosis, sterilizers), drinking water, car wash, food & beverage (bottling, craft beverages, produce mister, cleaning), clean-in-place (CIP), commercial buildings, hospitals, medical facilities, and agricultural.

Features

- Allows for compact piping arrangements
- Easy removal for cleaning and servicing in the field
- Wrench flats on fittings help protect valve from damage during install/removal
- NSF approved options
- UL recognized, CSA, and CE options
- Great for OEMs looking to reduce plumbing complexity and footprint

Construction

Wetted Components	
Body	**Nylon-6 + 30% Glass Fill**
End Fittings	**300 Series Stainless Steel**
Operator Tube	**300 Series Stainless Steel**
Plunger & Tube Head	**400 Series Stainless Steel**
Springs	**300 Series Stainless Steel**
Shading Ring	**Copper (Std.), Silver**
Seals	**EPDM or FKM**

Coil Housing

T20 & T21 Series (See Drawing #1 and #3)

- ½" NPT Conduit Hub with 24" Lead Wires (NEMA 4/4X, IP65)
- DIN - 18mm Form A (NEMA 4/4X, IP65)
- Junction Box (Single or Dual Knockouts)

TP3 Series (See Drawing #2)

- 18" Lead Wires (IP65)
- DIN - 11mm Form B (IP65)

*All Coils Rated for 100% Duty Cycle

*See Engineering Guide for Additional Coil Housings and Dimensions

Ambient Temperature (Nominal)

- 32°F to 125°F (0°C to 52°C)

Maximum Fluid Temperature

- 180°F (82°C)

Approvals

- UL Recognized (T20 & T21 Series)
- cURus (TP3 Series)
- CSA Certified (T20 & T21 Series)

*Add suffix "E" to part number for CSA Certification

- CE Certified
- NSF 61-G: Drinking Water System Components (includes Lead Free requirements)
- NSF 372: Drinking Water System Components (Lead Content Certification)

*Add prefix "N" to part number for NSF Certification

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2-Way • Normally Closed & Normally Open • Pilot Operated

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Nylon-6 • ½" & ¾" NPT Pipe Size

NSF Certified Valve Specifications

Part numbers shown as NSF Certified, 120vAC, with EPDM seals. See Part Number Selection for more options.

Pipe Size (NPT)	Orifice Size (in)	Flow Factor (Cv)	Operating Pressure Differential (PSI)					Part Number*		Power Consumption		Drawing #
			Min.	Max. (Air/ Gas)		Max. (Water)		DIN Coil	Lead Wire Coil			
				AC	DC	AC	DC			AC	DC	
Normally Closed (Closed when de-energized)												
1/2"	3/4	4.3	0	-	-	140	90	NT201YH02CPD2	NT201GH02CPD2	10W	10W	1
	3/4	4.3	4	-	-	150	100	NT211YH02CPD2	NT211GH02CPD2	8W	10W	1
	3/4	4.3	5	-	-	150	80	NTP31YH02CPD2	NTP31GH02CPD2	6.5vA	8W	2
3/4"	3/4	6.7	0	-	-	140	90	NT201YH02CPE2	NT201GH02CPE2	10W	10W	1
	3/4	6.7	4	-	-	150	100	NT211YH02CPE2	NT211GH02CPE2	8W	10W	1
	3/4	6.7	5	-	-	150	80	NTP31YH02CPE2	NTP31GH02CPE2	6.5vA	8W	2
Normally Open (Open when de-energized)												
1/2"	3/4	4.3	0	-	-	200	125	NT202YH02CPD2	NT202GH02CPD2	11W	10W	3
	3/4	4.3	4	-	-	200	125	NT212YH02CPD2	NT212GH02CPD2	11W	10W	3
3/4"	3/4	6.7	0	-	-	200	125	NT202YH02CPE2	NT202GH02CPE2	11W	10W	3
	3/4	6.7	4	-	-	150	140	NT212YH02CPE2	NT212GH02CPE2	11W	10W	3

NSF Certified Part Number Selection

N	T20	1	G	H	02	C	P	D	2	(blank)
Prefix	True Union Series	Operating Mode①	Housing	Coil Class	Voltage③	Seal Material	Body Material	Pipe Connection	Number of Unions	Optional Suffix
N: NSF Certified④	**T20** **T21** **TP3**	**1**: 2WNC **2**: 2WNO	**G**: Lead Wires② **Y**: DIN	**H**: H Class	**02**:110v/50Hz 120v/60Hz **04**:220v/50Hz 240v/60Hz **24**: 24v/50-60Hz **15**: 12vDC **16**: 24vDC	**C**: EPDM	**P**: Nylon	**D**: ½" NPT **E**: ¾" NPT	**0**: No Unions **2**: Both Unions	**(blank)**: No Option **E**: CSA Cert. **K**: Mounting Bracket **P**: Nickel Plating

①Normally open variation not available for TP3 series
②G Housing for T20 &T21 Series has ½" Conduit Hub with 24" Leads, TP3 Series has 18" Leads
③See Engineering Guide for additional voltages, variations, and options
④Must use EPDM seals with NSF Certified selection ("N" prefix)

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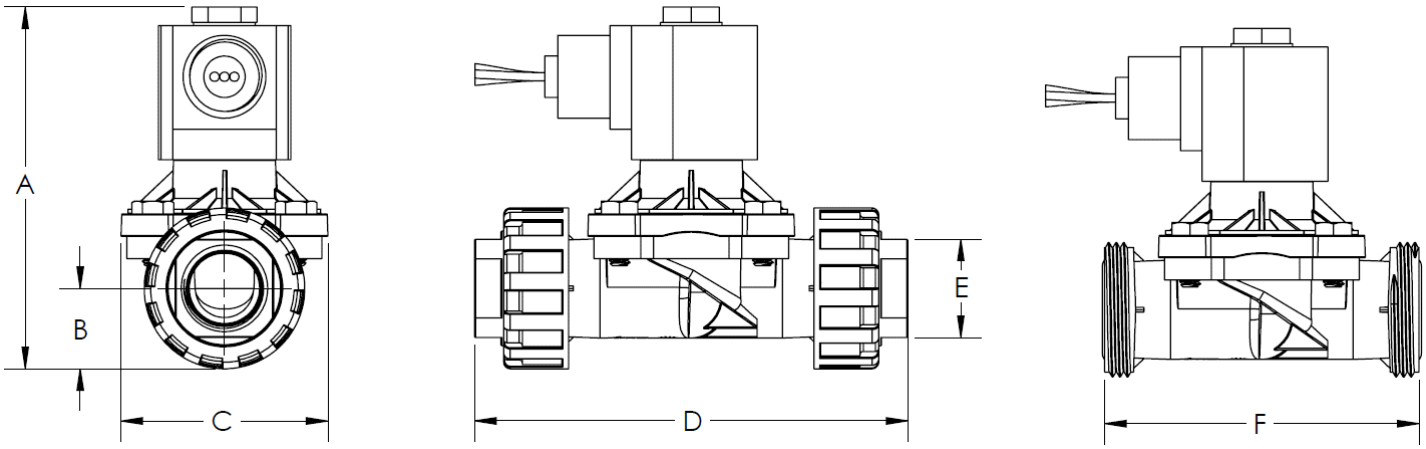
2-Way • Normally Closed & Normally Open • Pilot Operated

True Union Solenoid Valves

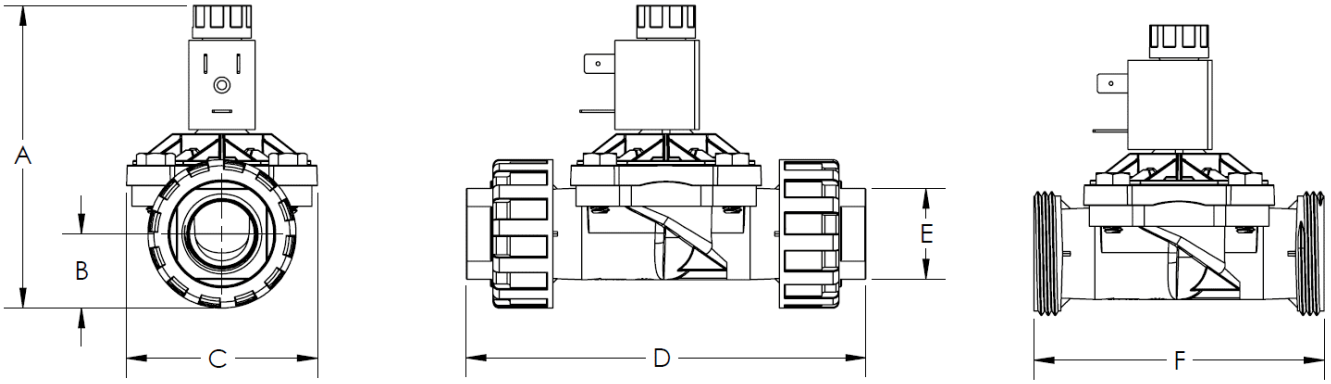
Nylon-6 • ½" & ¾" NPT Pipe Size

Drawing #1



Pipe Size	Series	Units	A		B	C	D	E	F
1/2"	T201	in.	4.2		0.8	2.5	4.9	0.938	3.5
		mm	106		20	64	124	24	89
1/2"	T211	in.	3.9 (AC)	4.2 (DC)	0.8	2.5	4.9	0.938	3.5
		mm	100	106	20	64	124	24	89
3/4"	T201	in.	4.4		1.0	2.5	5.2	1.188	3.8
		mm	111		25	64	133	30	97
3/4"	T211	in.	4.1 (AC)	4.4 (DC)	1.0	2.5	5.2	1.188	3.8
		mm	104	111	25	64	133	30	97

Drawing #2



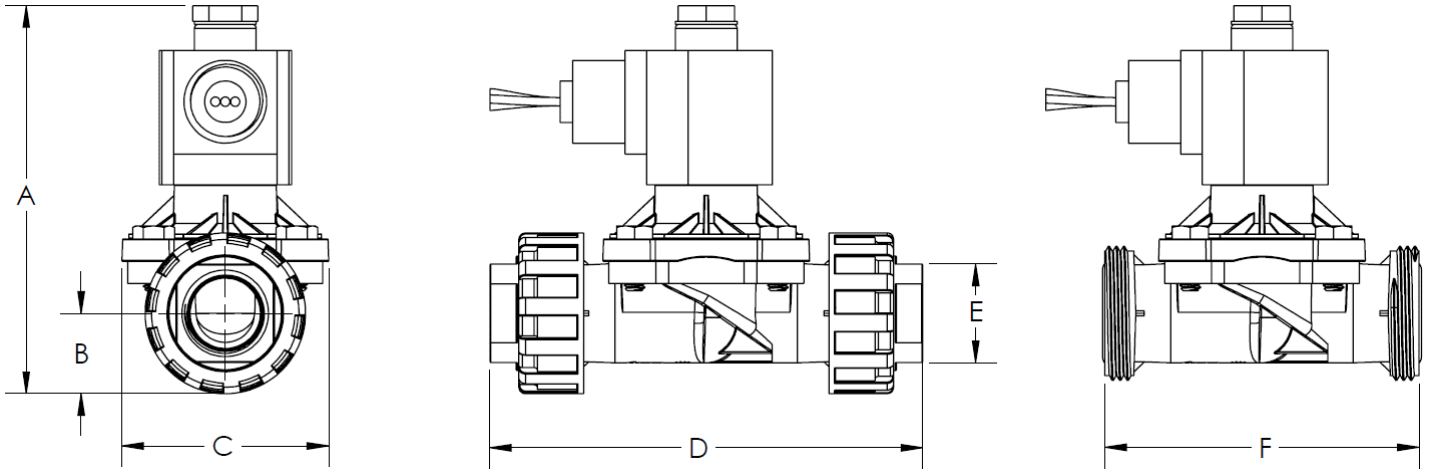
Pipe Size	Series	Units	A	B	C	D	E	F
1/2"	TP3	in.	3.8	0.8	2.5	4.9	0.938	3.5
		mm	96	20	64	124	24	89
3/4"	TP3	in.	4.0	1.0	2.5	5.2	1.188	3.8
		mm	101	25	64	133	30	97

2-Way • Normally Closed & Normally Open • Pilot Operated

True Union Solenoid Valves

Nylon-6 • ½" & ¾" NPT Pipe Size

Drawing #3



Pipe Size	Series	Units	A	B	C	D	E	F
1/2"	T202 & T212	in.	4.7	0.8	2.5	4.9	0.938	3.5
		mm	119	20	64	124	24	89
3/4"	T202 & T212	in.	4.7	1.0	2.5	5.2	1.188	3.8
		mm	119	25	64	133	30	97

Certified to NSF/ANSI/CAN 61-G & 372

Solenoid Valves
For Drinking Water

S20 & S21 Series

Stainless Steel & Noryl Solenoid Valves

GC Valves rugged, time-proven designs have been certified to meet the most demanding standards for drinking water. Common ac and dc voltages are available with the full array of electrical housings. The DIN coil (on S201 at right) is shown with an optional connector.

GC Valves is manufacturing and shipping solenoid valves that meet state and federal requirements for drinking water. These valves are fully certified to NSF/ANSI 61 and NSF/ANSI 372, making it easier for OEMs to have their systems approved and assuring installers and end users that they comply with all current standards.

The NSF valves also meet "Lead Free" legislation that California, Vermont, Maryland and Louisiana have enacted. A major amendment to the U.S. Safe Drinking Water Act, which takes effect January 2014, will make the "Lead Free" standard a national requirement.

Application Data

- 2-way Normally Closed & Normally Open operation
- 3/8" through 2" NPT ports
- Maximum OPD to 150 psi on Normally Closed (200 psi on NO)
- Cv as high as 28
- All common electrical housings and ac and dc voltages
- Coils intended for continuous duty (100% duty cycle)
- 316 Stainless Steel or Nylon bodies
- Santoprene or EPDM diaphragm with EPDM seals

NSF/ANSI Standard 61
Drinking Water System Components - Health Effects
establishes minimum health effects requirements for materials, components, products, or systems that contact drinking water or drinking water treatment chemicals
Annex G
establishes an evaluation procedure for use when product is required to meet a ≤0.25% weighted average lead content requirement

NSF/ANSI Standard 372
establishes an evaluation procedure for use when product is required to meet a ≤0.25% weighted average lead content requirement

To learn more,

Locate your Region Sales Office at
www.gcvalves.com

GC Valves Customer Service:
service@gcvalves.com
East Coast: 800-828-0484

NS301 Series

Certified to NSF/ANSI/CAN 61-G & 372

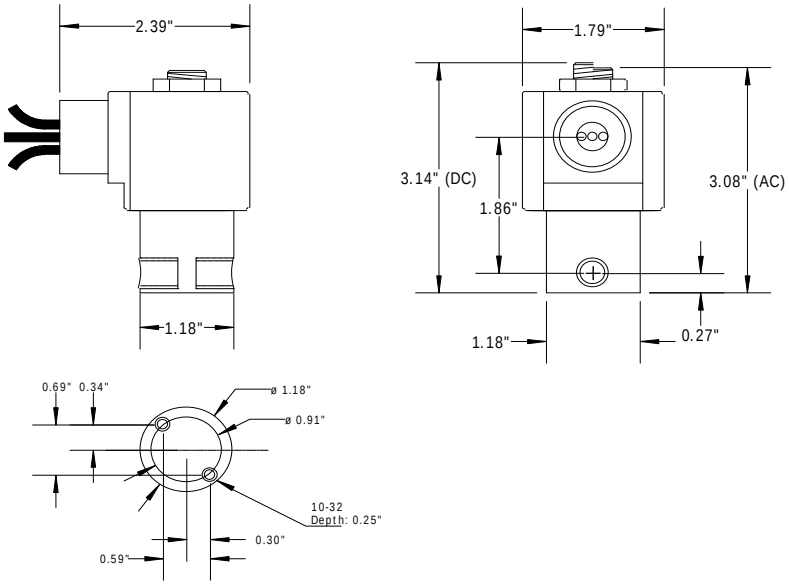
- 1/8" NPT
- Stainless Steel Body
- 2-Way Direct Acting
- Normally Closed

Materials	Seals:	NSF Approved EPDM
	Orifice:	Stainless Steel
Electrical	Standard Housing:	NEAM 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:	Contact GC Valves Customer Service for available options.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Any
Approvals*	Agency:	NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
1.1



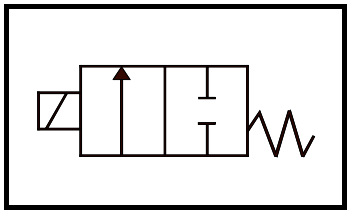
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

1/8-S-NS301-1

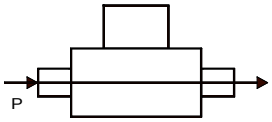
NS301 - 1/8" NPT, Stainless Steel Body, Normally Closed

Valve Selection List

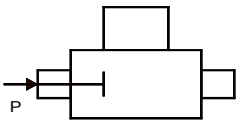
Normally Closed



Energized



De-Energized



Pipe Size	Orifice Size		Operating Pressure Differential (PSI)									Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum												
				Air/Gas		Water		Light Oil		Steam*						
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Stainless Steel Body
	1/32	.03	0	---	---	2400	2400	---	---	---	---	176	EPR	10	10	NS301GF02C2AC1
	3/64	.05	0	---	---	1050	1000	---	---	---	---	176	EPR	10	10	NS301GF02C2AC3
	1/16	.10	0	---	---	700	300	---	---	---	---	176	EPR	10	10	NS301GF02C2AC5
	5/64	.15	0	---	---	500	240	---	---	---	---	176	EPR	10	10	NS301GF02C2AC7
	3/32	.21	0	---	---	400	200	---	---	---	---	176	EPR	10	10	NS301GF02C2AC9
1/8	7/64	.29	0	---	---	350	170	---	---	---	---	176	EPR	10	10	NS301GF02C2AD3
	1/8	.36	0	---	---	200	140	---	---	---	---	176	EPR	10	10	NS301GF02C2AD5
	5/32	.44	0	---	---	150	100	---	---	---	---	176	EPR	10	10	NS301GF02C2AD7
	3/16	.65	0	---	---	100	70	---	---	---	---	176	EPR	10	10	NS301GF02C2AE1

*** Class H Coil Recommended for Steam and Other High Temperature Applications**

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	3	0	1	G	F	0	2	C	2	A	C	1

Series	Operating Mode	Housing*	Coil Class*	Voltage*	Seal Material	Body Material	Pipe Connection	Orifice Size
NS30	1: Normally Closed	G: Conduit	F: Class F H: Class H N: Class N	02: 120/60, 110/50	C: EPR	2: Stainless Steel	A: 1/8" NPT	C1: 1/32" C3: 3/64" C5: 1/16" C7: 5/64" C9: 3/32" D5: 1/8" D7: 5/32" E1: 3/16"

* See the "Engineering Guide" for additional voltages, variations and options

Coil Data

Coil Family	
Type	Size
All	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	18	19

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

Certified to NSF/ANSI/CAN 61-G & 372

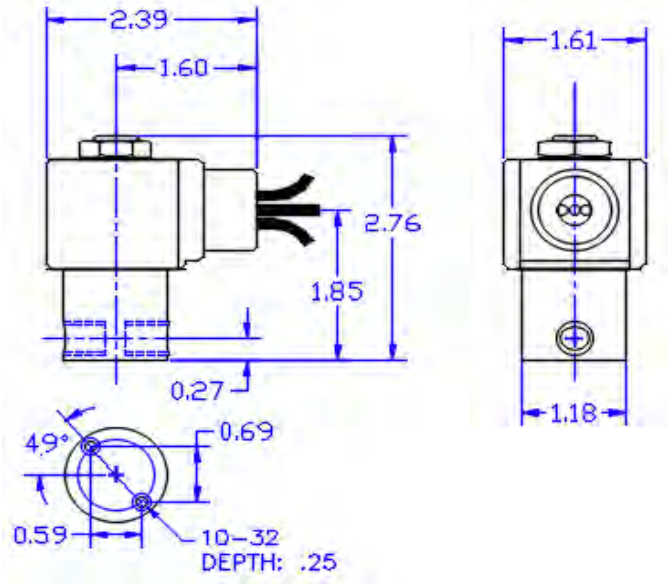
- 1/8" NPT
- 303 Stainless Steel Body
- 2-Way Zero Differential
- Direct Acting
- Normally Closed

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Stainless Steel
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Any
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
1



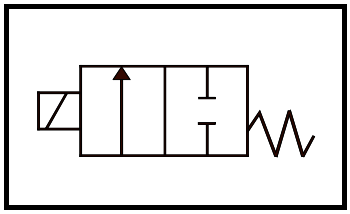
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

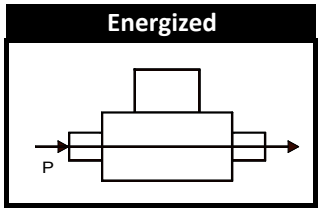
1-8-S-NS311-1

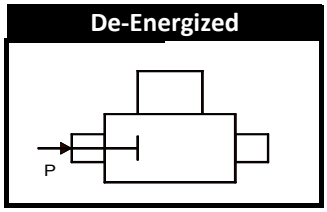
NS311 - 1/8" NPT, Stainless Steel Body, Normally Closed

Valve Selection List

Normally Closed







Pipe Size	Orifice Size		Operating Pressure Differential (PSI)								Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum											
				Air/Gas		Water		Light Oil		Steam*					
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Stainless Steel Body
1/8	1/32	.03	0	2000	2000	2000	2000	---	---	50	50	295	EPR	8	9	NS311GF02C2AC1
	3/64	.05	0	770	420	770	420	---	---	50	50	295	EPR	8	9	NS311GF02C2AC3
	1/16	.10	0	560	185	560	185	---	---	50	50	295	EPR	8	9	NS311GF02C2AC5
	5/64	.15	0	400	150	400	150	---	---	50	50	295	EPR	8	9	NS311GF02C2AC7
	3/32	.21	0	300	130	300	130	---	---	50	50	295	EPR	8	9	NS311GF02C2AC9
	7/64	.29	0	210	90	210	90	---	---	50	50	295	EPR	8	9	NS311GF02C2AD3
	1/8	.36	0	155	60	155	60	---	---	50	50	295	EPR	8	9	NS311GF02C2AD5
	5/32	.44	0	105	35	105	35	---	---	50	35	295	EPR	8	9	NS311GF02C2AD7
	3/16	.65	0	75	20	75	20	---	---	50	20	295	EPR	8	9	NS311GF02C2AE1
	1/4	.85	0	35	15	35	15	---	---	35	15	295	EPR	8	9	NS311GF02C2AE7
	9/32	1.0	0	20	10	20	10	---	---	20	10	295	EPR	8	9	NS311GF02C2AF1

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	**3**	**1**	**1**	**G**	**F**	**0**	**2**	**C**	**2**	**A**	**C**	**9**
Series			Operating Mode	Hsg	Coil	Voltage		Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size	
NS31			1: N.C.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC		C: EPDM	2: 303 SS	A: 1/8"	See Above	

Coil Data

Coil Family	
Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	13	14

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

1-8-S-NS311-2

NS312 Series

Certified to NSF/ANSI/CAN 61-G & 372

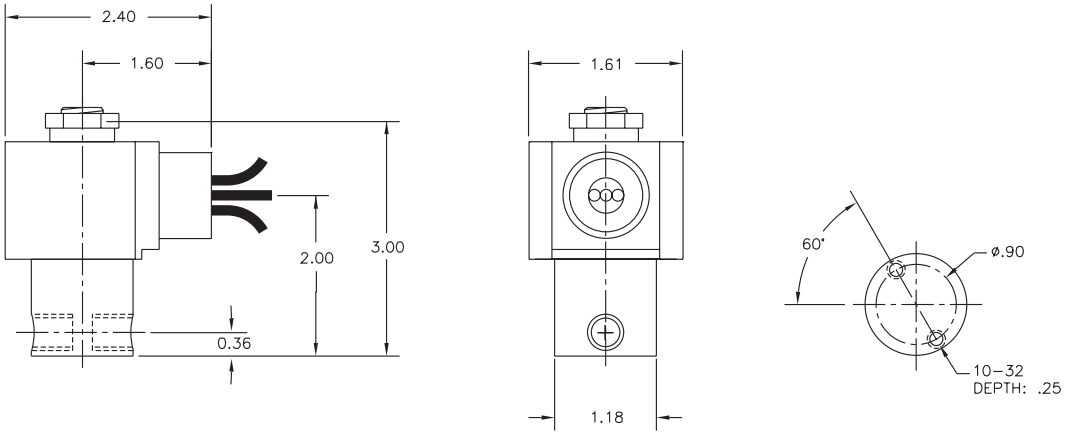
1/8" NPT Stainless Steel 2-Way Direct Acting Normally Open

Materials	Seals:	NSF Approved EPDM
	Orifice:	Stainless Steel
Electrical	Standard Housing:	NEAM 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:	Contact GC Valves Customer Service for available options.
	Standard Voltages:	24, 120, 240 AC 60 Hz; 50 Hz available 6, 12, 24 DC; Contact GC Valves Customer Service for Additional Voltages.
	Voltage Tolerance:	±10% of applicable voltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inch
Operating Temperature	Ambient (Nominal):	32°F to 125°F
Mounting	Position:	Any
Approvals*	Agency:	NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions/Weight

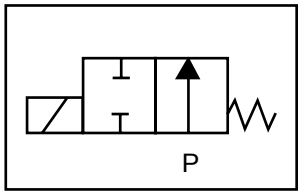
Weight (lbs.)
0.9



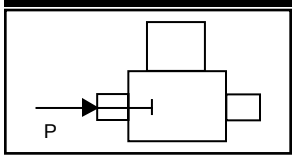
NS312 – 1/8" NPT, Stainless Steel Body, Normally Open

Valve Selection List

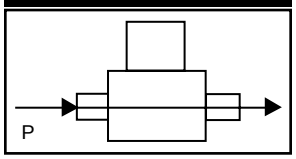
Normally Open



Energized



De-Energized



Pipe Size	Orifice Size	C_V	Operating Pressure Differential (psi)								Max Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ — 110V/50HZ Shown)
			Minimum	Maximum											
				Air/Gas		Water		Light Oil		Steam*					
NPT	in.			AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Stainless Steel Body
1/8	1/32	.03	0	—	—	2000	2000	—	—	—	—	176	EPR	8	9	NS312GF02C2AC1
	3/64	.05	0	—	—	350	350	—	—	—	—	176	EPR	8	9	NS312GF02C2AC3
	1/16	.10	0	—	—	200	200	—	—	—	—	176	EPR	8	9	NS312GF02C2AC5
	5/64	.15	0	—	—	140	140	—	—	—	—	176	EPR	8	9	NS312GF02C2AC7
	3/32	.22	0	—	—	105	105	—	—	—	—	176	EPR	8	9	NS312GF02C2AC9
	7/64	.25	0	—	—	80	80	—	—	—	—	176	EPR	8	9	NS312GF02C2AD3
	1/8	.30	0	—	—	60	60	—	—	—	—	176	EPR	8	9	NS312GF02C2AD5
	3/16	.65	0	—	—	30	30	—	—	—	—	176	EPR	8	9	NS312GF02C2AE1

*** Class H Coil Recommended for Steam and Other High Temperature Applications**

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	3	1	2	G	F	0	2	C	2	A	C	1
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS31				2: Normally Open	G: Conduit	F: Class F H: Class H	02: 120/60 110/50		C: EPR	2: Stainless Steel	A: 1/8" NPT	C1: 1/32" C3: 3/64" C5: 1/16" C7: 5/64" C9: 3/32" D3: 7/64" D5: 1/8" E1: 3/16"	

* See the “Engineering Guide” for additional voltages, variations and options

Coil Data

Coil Family

Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	18	19

GC Valves Customer Service: 800-828-0484 (7:30am to 4pm ET) or 800-582-4232 (7:30am to 4pm PT)

NS30 Series

Certified to NSF/ANSI/CAN 61-G & 372

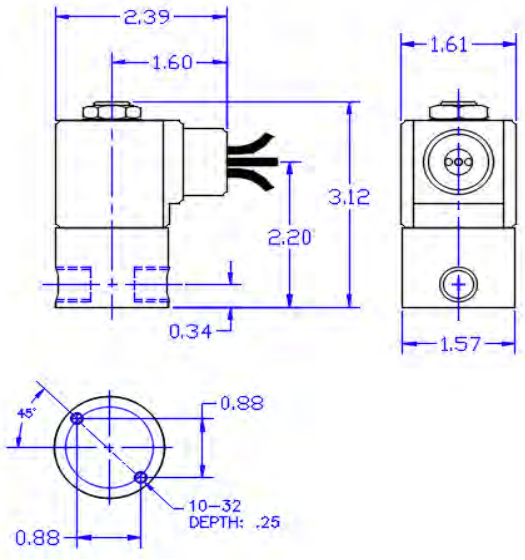
- 1/4" NPT
- 303 Stainless Steel Body
- 2-Way Zero Differential
- Direct Acting
- Normally Closed

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Stainless Steel
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Any
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
1.2



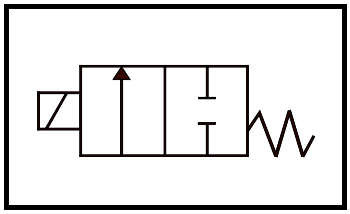
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

1-4-S-NS301-1

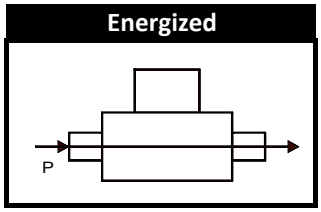
NS301 - 1/4" NPT, Stainless Steel Body, Normally Closed

Valve Selection List

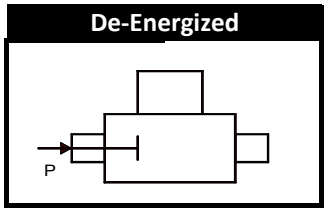
Normally Closed



Energized



De-Energized



Pipe Size	Orifice Size		Operating Pressure Differential (PSI)								Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum											
				Air/Gas		Water		Light Oil		Steam*					
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Stainless Steel Body
1/4	1/32	.03	0	2400	2400	2400	2400	---	---	150	150	295	EPR	10	10	NS301GF02C3BC1
	3/64	.05	0	1050	1000	1050	1000	---	---	150	150	295	EPR	10	10	NS301GF02C3BC3
	1/16	.10	0	700	300	700	300	---	---	150	150	295	EPR	10	10	NS301GF02C3BC5
	5/64	.15	0	500	240	500	240	---	---	150	150	295	EPR	10	10	NS301GF02C3BC7
	3/32	.21	0	400	200	400	200	---	---	150	150	295	EPR	10	10	NS301GF02C3BC9
	7/64	.29	0	350	170	350	170	---	---	150	150	295	EPR	10	10	NS301GF02C3BD3
	1/8	.36	0	200	140	200	140	---	---	150	140	295	EPR	10	10	NS301GF02C3BD5
	5/32	.44	0	150	100	150	100	---	---	150	100	295	EPR	10	10	NS301GF02C3BD7
	3/16	.65	0	100	70	100	70	---	---	100	70	295	EPR	10	10	NS301GF02C3BE1
	1/4	.85	0	50	20	50	20	---	---	50	20	295	EPR	10	10	NS301GF02C3BE7
	9/32	1.0	0	35	15	35	15	---	---	35	15	295	EPR	10	10	NS301GF02C3BF1

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	3	0	1	G	F	0	2	C	3	B	C	9

Series	Operating Mode	Hsg	Coil	Voltage	Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size
NS30	1: N.C.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC	C: EPDM	3: 303 SS	B: 1/4"	See Above

Coil Data

Coil Family	
Type	Size
All	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	18	19

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

1-4-S-NS301-2

NS311 Series

Certified to NSF/ANSI/CAN 61-G & 372

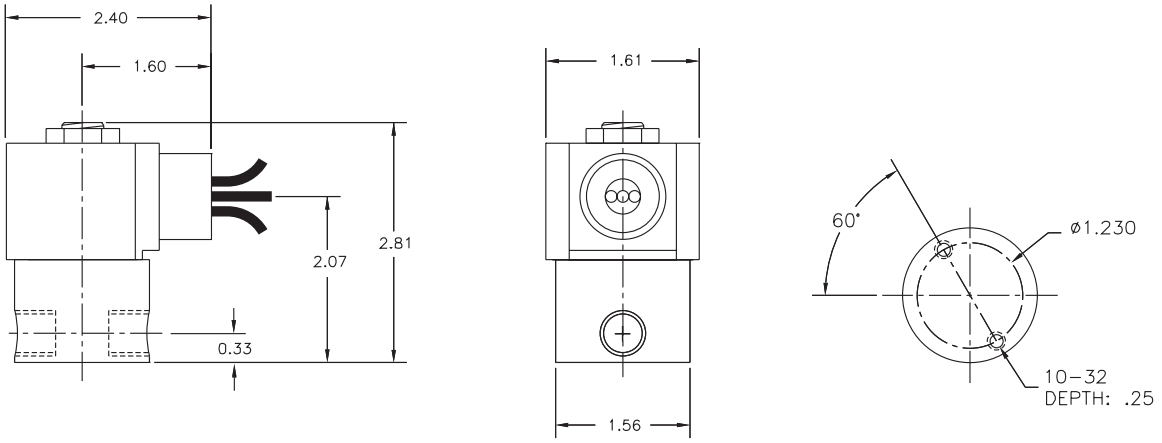
1/4" NPT
Stainless Steel Body
2-Way Direct Acting
Normally Closed

Materials	Seals:	NSF Approved EPDM
	Orifice:	Stainless Steel
Electrical	Standard Housing:	NEAM 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:	Contact GC Valves Customer Service for available options.
	Standard Voltages:	24, 120, 240 AC 60 Hz; 50 Hz available 6, 12, 24 DC; Contact GC Valves Customer Service for Additional Voltages.
	Voltage Tolerance:	±10% of applicable voltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inch
Operating Temperature	Ambient (Nominal):	32°F to 125°F
Mounting	Position:	Any
Approvals*	Agency:	NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions/Weight

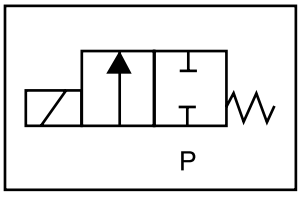
Weight (lbs.)
1.1



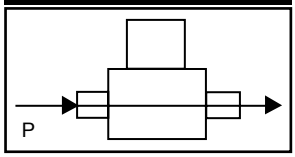
NS311 – 1/4" NPT, Stainless Steel Body, Normally Closed

Valve Selection List

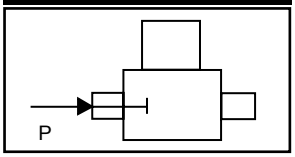
Normally Closed



Energized



De-Energized



Pipe Size	Orifice Size	C_V	Operating Pressure Differential (psi)								Max Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ — 110V/50HZ Shown)
			Minimum	Maximum											
				Air/Gas		Water		Light Oil		Steam*					
NPT	in.			AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Stainless Steel Body
1/4	1/32	.03	0	—	—	2000	2000	—	—	—	—	176	EPR	8	9	NS311GF02C3BC1
	3/64	.05	0	—	—	770	420	—	—	—	—	176	EPR	8	9	NS311GF02C3BC3
	1/16	.10	0	—	—	560	185	—	—	—	—	176	EPR	8	9	NS311GF02C3BC5
	5/64	.15	0	—	—	400	150	—	—	—	—	176	EPR	8	9	NS311GF02C3BC7
	3/32	.21	0	—	—	300	130	—	—	—	—	176	EPR	8	9	NS311GF02C3BC9
	7/64	.14	0	—	—	210	90	—	—	—	—	176	EPR	8	9	NS311GF02C3BD3
	1/8	.32	0	—	—	155	60	—	—	—	—	176	EPR	8	9	NS311GF02C3BD5
	5/32	.43	0	—	—	105	35	—	—	—	—	176	EPR	8	9	NS311GF02C3BD7
	3/16	.49	0	—	—	75	20	—	—	—	—	176	EPR	8	9	NS311GF02C3BE1
	1/4	.85	0	—	—	50	20	—	—	—	—	176	EPR	8	9	NS311GF02C3BE7
	9/32	1.0	0	—	—	35	15	—	—	—	—	176	EPR	8	9	NS311GF02C3BF1

*** Class H Coil Recommended for Steam and Other High Temperature Applications**

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	3	1	1	G	F	0	2	C	3	B	C	1
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS31				1: Normally Closed	G: Conduit	F: Class F H: Class H	02: 120/60 110/50		C: EPR	3: Stainless Steel	B: 1/4" NPT	C1: 1/32" C3: 3/64" C5: 1/16" C7: 5/64" C9: 3/32" D3: 7/64" D5: 1/8" D7: 5/32" E1: 3/16" E7: 1/4" F1: 9/32"	

* See the "Engineering Guide" for additional voltages, variations and options

Coil Data

Coil Family

Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	13	14

NS302 Series

Certified to NSF/ANSI/CAN 61-G & 372

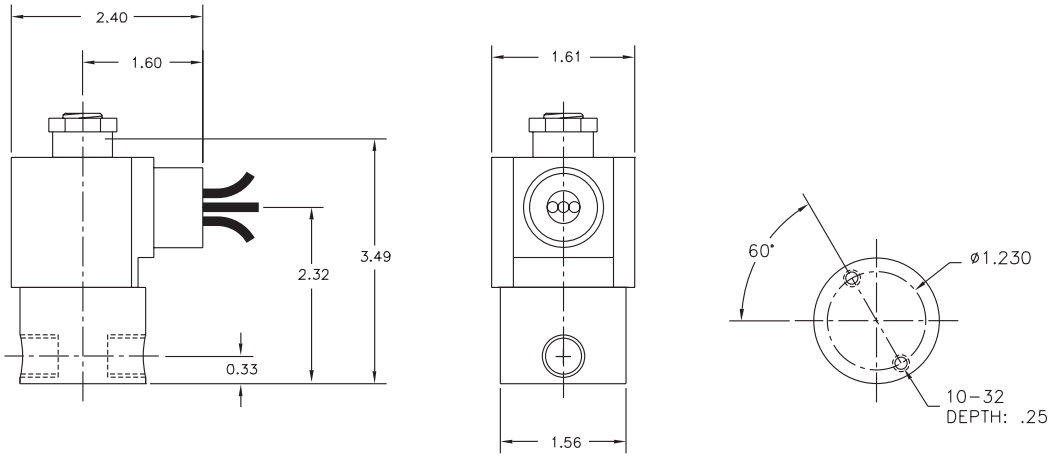
1/4" NPT
Stainless Steel Body
2-Way Direct Acting
Normally Open

Materials	Seals:	NSF Approved EPDM
	Orifice:	Stainless Steel
Electrical	Standard Housing:	NEAM 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:	Contact GC Valves Customer Service for available options.
	Standard Voltages:	24, 120, 240 AC 60 Hz; 50 Hz available 6, 12, 24 DC; Contact GC Valves Customer Service for Additional Voltages.
	Voltage Tolerance:	±10% of applicable voltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inch
Operating Temperature	Ambient (Nominal):	32°F to 125°F
Mounting	Position:	Any
Approvals*	Agency:	NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions/Weight

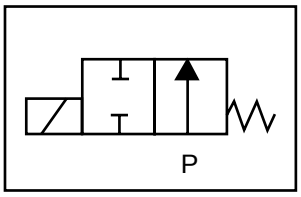
Weight (lbs.)
1.1



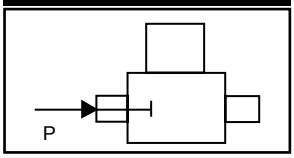
NS302 – 1/4" NPT, Stainless Steel Body, Normally Open

Valve Selection List

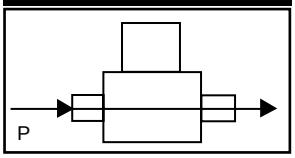
Normally Open



Energized



De-Energized



Pipe Size	Orifice Size	C_V	Operating Pressure Differential (psi)								Max Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ — 110V/50HZ Shown)
			Minimum	Maximum											
				Air/Gas		Water		Light Oil		Steam*					
NPT	in.			AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Stainless Steel Body
1/4	1/32	.03	0	—	—	2400	2400	—	—	—	—	176	EPR	11	10	NS302GF02C3BC1
	3/64	.05	0	—	—	600	600	—	—	—	—	176	EPR	11	10	NS302GF02C3BC3
	1/16	.10	0	—	—	325	325	—	—	—	—	176	EPR	11	10	NS302GF02C3BC5
	5/64	.15	0	—	—	235	235	—	—	—	—	176	EPR	11	10	NS302GF02C3BC7
	3/32	.20	0	—	—	150	150	—	—	—	—	176	EPR	11	10	NS302GF02C3BC9
	7/64	.25	0	—	—	125	125	—	—	—	—	176	EPR	11	10	NS302GF02C3BD3
	1/8	.30	0	—	—	100	100	—	—	—	—	176	EPR	11	10	NS302GF02C3BD5
	5/32	.43	0	—	—	60	60	—	—	—	—	176	EPR	11	10	NS302GF02C3BD7
	3/16	.65	0	—	—	40	40	—	—	—	—	176	EPR	11	10	NS302GF02C3BE1

*** Class H Coil Recommended for Steam and Other High Temperature Applications**

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	3	0	2	G	F	0	2	C	3	B	C	1
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS30				2: Normally Open	G: Conduit	F: Class F H: Class H	02: 120/60 110/50		C: EPR	3: Stainless Steel	B: 1/4" NPT	C1: 1/32" C3: 3/64" C5: 1/16" C7: 5/64" C9: 3/32" D3: 7/64" D5: 1/8" D7: 5/32" E1: 3/16"	

* See the “Engineering Guide” for additional voltages, variations and options.

Coil Data

Coil Family

Type	Size
All	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	22	25

NS312 Series

Certified to NSF/ANSI/CAN 61-G & 372

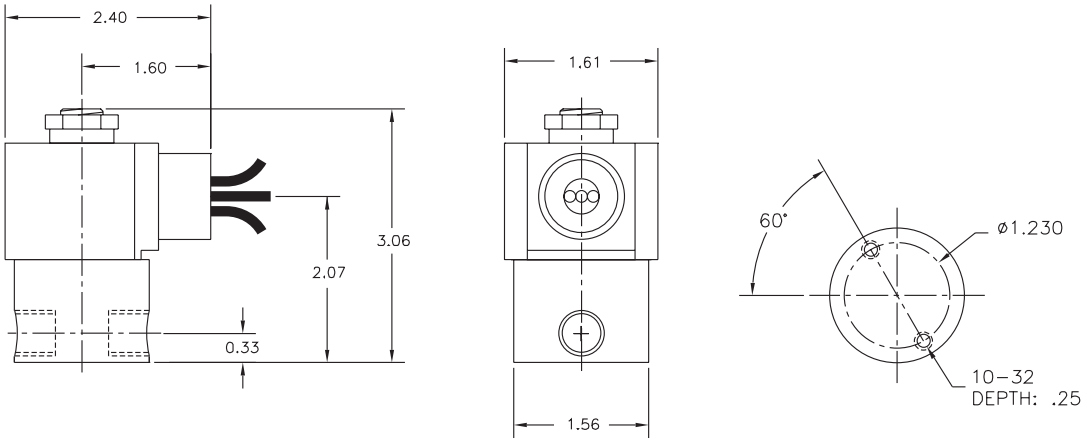
1/4" NPT Stainless Steel 2-Way Direct Acting Normally Open

Materials	Seals:	NSF Approved EPDM
	Orifice:	Stainless Steel
Electrical	Standard Housing:	NEAM 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:	Contact GC Valves Customer Service for available options.
	Standard Voltages:	24, 120, 240 AC 60 Hz; 50 Hz available 6, 12, 24 DC; Contact GC Valves Customer Service for Additional Voltages.
	Voltage Tolerance:	±10% of applicable voltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inch
Operating Temperature	Ambient (Nominal):	32°F to 125°F
Mounting	Position:	Any
Approvals*	Agency:	NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions/Weight

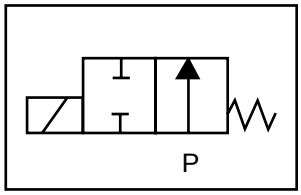
Weight (lbs.)
0.9



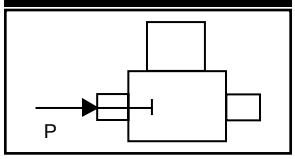
NS312 – 1/4" NPT, Stainless Steel Body, Normally Open

Valve Selection List

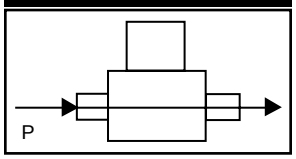
Normally Open



Energized



De-Energized



Pipe Size	Orifice Size	C_V	Operating Pressure Differential (psi)								Max Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ — 110V/50HZ Shown)
			Minimum	Maximum											
				Air/Gas		Water		Light Oil		Steam*					
NPT	in.			AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Stainless Steel Body
1/4	1/32	.03	0	—	—	2000	2000	—	—	—	—	176	EPR	8	9	NS312GF02C2BC1
	3/64	.05	0	—	—	350	350	—	—	—	—	176	EPR	8	9	NS312GF02C3BC3
	1/16	.10	0	—	—	200	200	—	—	—	—	176	EPR	8	9	NS312GF02C3BC5
	5/64	.15	0	—	—	140	140	—	—	—	—	176	EPR	8	9	NS312GF02C3BC7
	3/32	.22	0	—	—	105	105	—	—	—	—	176	EPR	8	9	NS312GF02C3BC9
	7/64	.25	0	—	—	80	80	—	—	—	—	176	EPR	8	9	NS312GF02C3BD3
	1/8	.30	0	—	—	60	60	—	—	—	—	176	EPR	8	9	NS312GF02C3BD5
	3/16	.65	0	—	—	30	30	—	—	—	—	176	EPR	8	9	NS312GF02C3BE1

*** Class H Coil Recommended for Steam and Other High Temperature Applications**

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	3	1	2	G	F	0	2	C	3	B	C	1
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS31				2: Normally Open	G: Conduit	F: Class F H: Class H	02: 120/60 110/50		C: EPR	3: Stainless Steel	B: 1/4" NPT	C1: 1/32" C3: 3/64" C5: 1/16" C7: 5/64" C9: 3/32" D3: 7/64" D5: 1/8" E1: 3/16"	

* See the “Engineering Guide” for additional voltages, variations and options

Coil Data

Coil Family

Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	18	19

NS201 Series

Certified to NSF/ANSI/CAN 61-G & 372

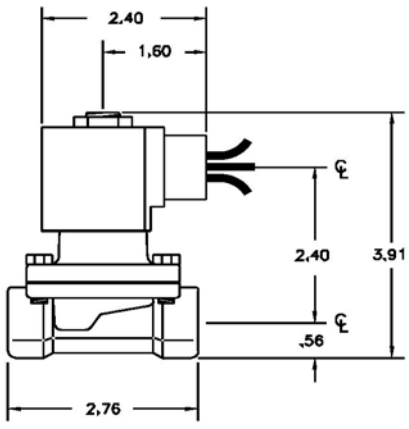
- 3/8" NPT
- 316 SS Body
- 2-Way Zero Differential Piloted Diaphragm
- Normally Closed

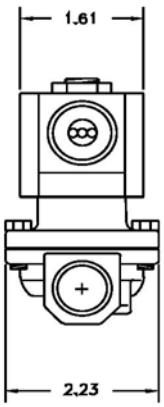
Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot	Stainless Steel
		Main	Stainless Steel
Electrical	Housing:		NEMA 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Svc. for available options.
	Voltage:		24,120,240, VAC, 60 and/or 50 Hz. Available. 6, 12, 24 VDC Contact GC Valves Customer Svc. for available options.
	Voltage Tolerance:		± 10% of applicable voltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inches
Operating Temperature	Ambient (Nominal):		32° F to 125° F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions / Weight

Weight (lbs.)
1.9

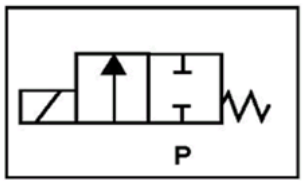


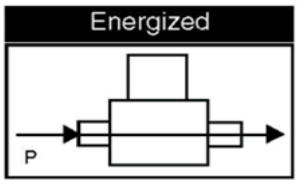


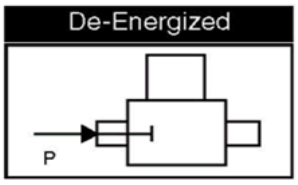
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

Valve Selection List

Normally Closed







Pipe Size	Orifice Size		Operating Pressure Differential (psi)										Power Consumption (Watts)		Model Code (120V/60HZ — 110V/50HZ Shown)
			Minimum	Maximum							Max Fluid Temp.	Seal Material			
				Air/Gas		Water		Light Oil		Steam*					
NPT	IN	C_V		AC	DC	AC	DC	AC	DC	AC	°F		AC	DC	Stainless Steel Body Type 316
3/8"	5/8	4.3	0	—	—	100	90	—	—	—	295	Santo EPR	10	10	NS201GF02F7CG4

*** Class H Coil Recommended for Steam and Other High Temperature Applications**

Part Numbering

1 2 3 4	5	6	7	8 9	10	11	12	13 14
N S 2 0	1	G	F	0 2	F	7	C	G 4
Series	Operating Mode	Housing*	Coil Class*	Voltage*	Seal Material	Body Material	Pipe Connection	Orifice Size
NS20	1: Normally Closed	G: 1/2" Conduit	F: Class F N: Class N	02: 110/120 50/60 Hz 10 Watt	F: Santoprene/ EPDM	7: S. Steel	C: 3/8"	G4: 5/8"

Coil Data

Coil Family

Type	Size
All	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	18	23

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS201 Series

Certified to NSF/ANSI/CAN 61-G & 372

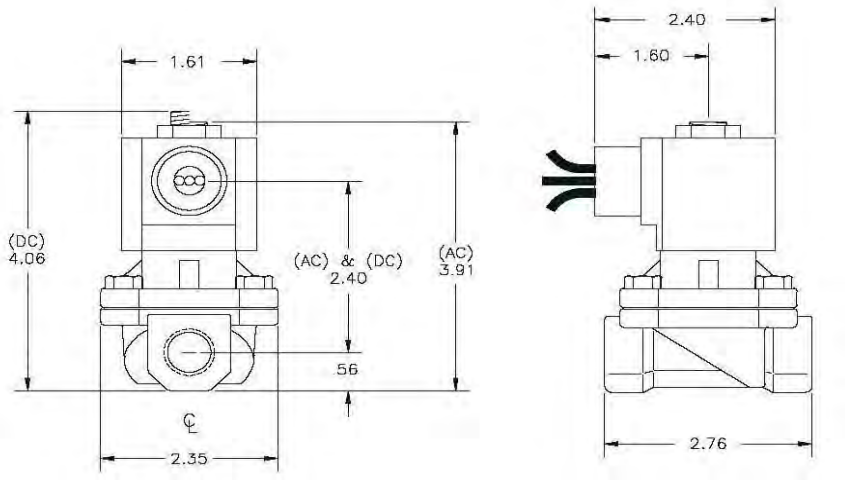
- 3/8" NPT
- Nylon Body
- 2-Way Zero Differential Piloted Diaphragm
- Normally Closed

Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot	Stainless Steel
		Main	Noryl
Electrical	Housing:		NEMA 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Svc. for available options.
	Voltage:		24,120,240, VAC, 60 and/or 50 Hz. Available. 6, 12, 24 VDC Contact GC Valves Customer Svc. for available options.
	Voltage Tolerance:		± 10% of applicable voltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inches
Operating Temperature	Ambient (Nominal):		32° F to 125° F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions / Weight

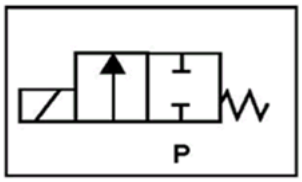
Weight (lbs.)
1



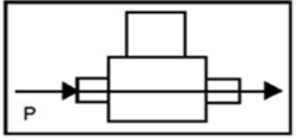
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

Valve Selection List

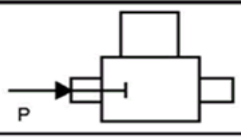
Normally Closed



Energized



De-Energized



Pipe Size NPT	Orifice Size IN	C_V	Operating Pressure Differential (psi) Minimum	Maximum Air/Gas AC	Air/Gas DC	Water AC	Water DC	Light Oil AC	Light Oil DC	Steam* AC	Max Fluid Temp. °F	Seal Material	Power Consumption (Watts) AC	Power Consumption (Watts) DC	Model Code (120V/60HZ — 110V/50HZ Shown) Noryl Body
3/8"	5/8	4.3	0	—	—	100	90	—	—	—	295	Santo EPR	10	10	NS201GF02FPCG4

* Class H Coil Recommended for Steam and Other High Temperature Applications

Part Numbering

1 2 3 4	5	6	7	8 9	10	11	12	13 14
N S 2 0	1	G	F	0 2	F	P	C	G 4
Series	Operating Mode	Housing*	Coil Class*	Voltage*	Seal Material	Body Material	Pipe Connection	Orifice Size
NS20	1: Normally Closed	G: 1/2" Conduit	F: Class F N: Class N	02: 110/120 50/60 Hz 10 Watt	F: Santoprene/ EPDM	P: Noryl	C: 3/8"	G4: 5/8"

Coil Data

Coil Family

Type	Size
All	S4

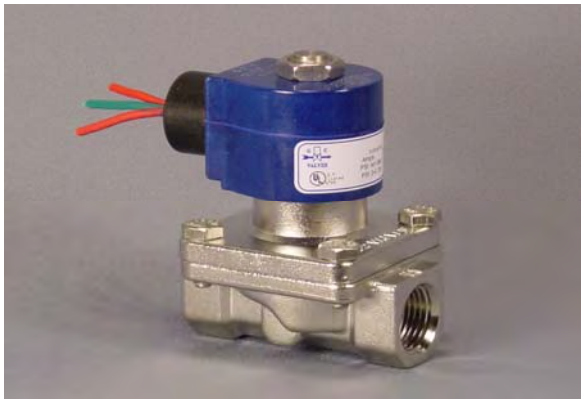
Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	18	23

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS211 Series

Certified to NSF/ANSI/CAN 61-G & 372

- 3/8" NPT
- 316 SS Body
- 2-Way
  Piloted Diaphragm
- Normally Closed

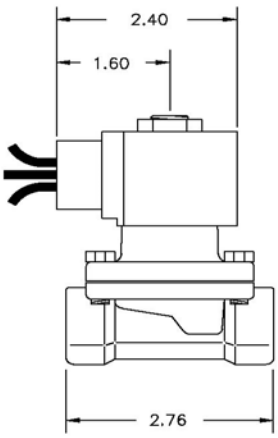


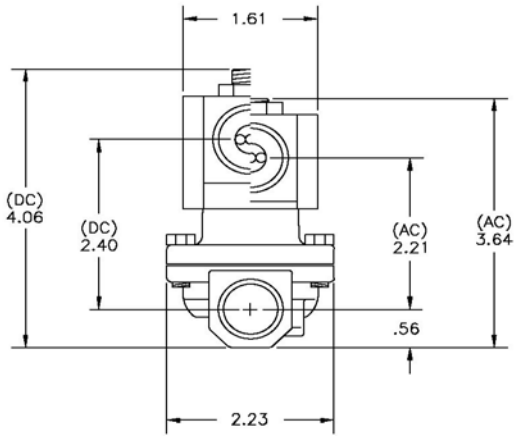
Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot	Stainless Steel
		Main	Stainless Steel
Electrical	Housing:		NEMA 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Svc. for available options.
	Voltage:		24,120,240, VAC, 60 and/or 50 Hz. Available. 6, 12, 24 VDC Contact GC Valves Customer Svc. for available options.
	Voltage Tolerance:		± 10% of applicable voltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inches
Operating Temperature	Ambient (Nominal):		32° F to 125° F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions / Weight

Weight (lbs.)
1.8

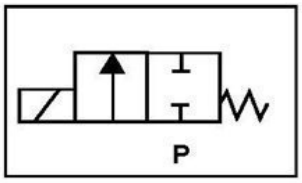


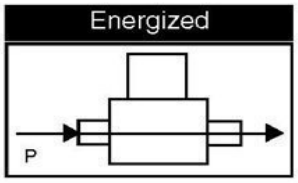


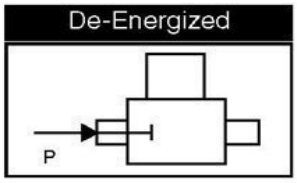
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

Valve Selection List

Normally Closed







Pipe Size NPT	Orifice Size IN	C_V	Operating Pressure Differential (psi) Minimum	Maximum Air/Gas AC	Air/Gas DC	Water AC	Water DC	Light Oil AC	Light Oil DC	Steam* AC	Max Fluid Temp. °F	Seal Material	Power Consumption (Watts) AC	Power Consumption (Watts) DC	Model Code (120V/60HZ — 110V/50HZ Shown) Stainless Steel Body Type 316
3/8"	5/8"	4.3	4	—	—	150	100	—	—	—	295	Santo EPR	8	10	NS211GF02F7CG4

* Class H Coil Recommended for Steam and Other High Temperature Applications

Part Numbering

1 2 3 4	5	6	7	8 9	10	11	12	13 14
N S 2 1	1	G	F	0 2	F	7	C	G 4
Series	Operating Mode	Housing*	Coil Class*	Voltage*	Seal Material	Body Material	Pipe Connection	Orifice Size
NS21	1: Normally Closed	G: 1/2" Conduit	F: Class F N: Class N	02: 110/120 50/60 Hz 10 Watt	F: Santoprene/ EPDM	7: S. Steel	C: 3/8"	G4: 5/8"

Coil Data

Coil Family

Type	Size
AC	S3
DC	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	18	23

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS211 Series

Certified to NSF/ANSI/CAN 61-G & 372

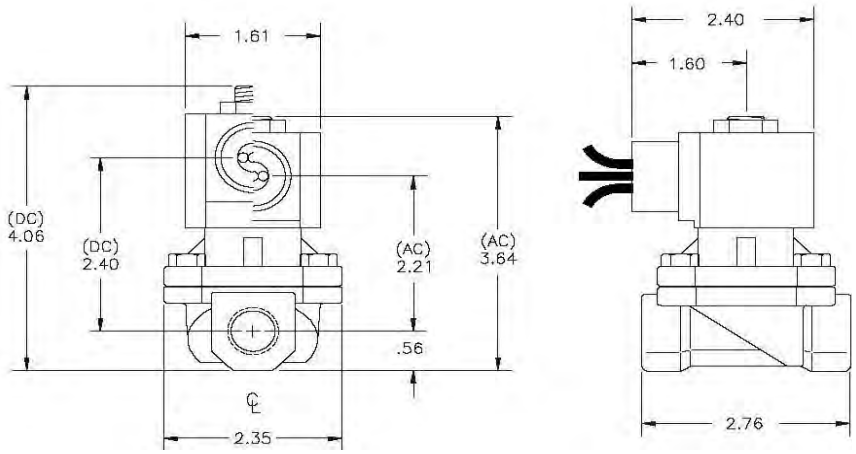
- 3/8" NPT
- Nylon Body
- 2-Way
  Piloted Diaphragm
- Normally Closed

Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot	Stainless Steel
		Main	Noryl
Electrical	Housing:		NEMA 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Svc. for available options.
	Voltage:		24,120,240, VAC, 60 and/or 50 Hz. Available. 6, 12, 24 VDC Contact GC Valves Customer Svc. for available options.
	Voltage Tolerance:		± 10% of applicable voltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inches
Operating Temperature	Ambient (Nominal):		32° F to 125° F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions / Weight

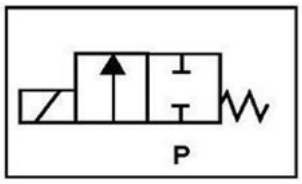
Weight (lbs.)
0.9

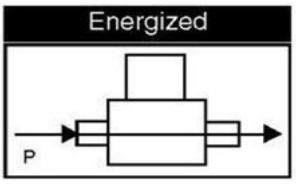


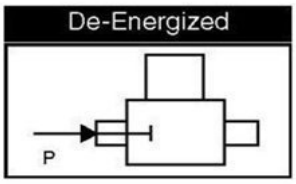
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

Valve Selection List

Normally Closed







Pipe Size	Orifice Size	C_V	Operating Pressure Differential (psi) Minimum	Maximum Air/Gas AC	Air/Gas DC	Water AC	Water DC	Light Oil AC	Light Oil DC	Steam* AC	Max Fluid Temp.	Seal Material	Power Consumption (Watts) AC	Power Consumption (Watts) DC	Model Code (120V/60HZ — 110V/50HZ Shown)
NPT	IN										°F				Noryl Body
3/8"	5/8"	4.3	4	—	—	150	100	—	—	—	295	Santo EPR	8	10	NS211GF02FPCG4

* Class H Coil Recommended for Steam and Other High Temperature Applications

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	2	1	1	G	F	0	2	F	P	C	G	4
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS21				1: Normally Closed	G: 1/2" Conduit	F: Class F N: Class N	02: 110/120 50/60 Hz 10 Watt		F: Santoprene/ EPDM	P: Noryl	C: 3/8"	G4: 5/8"	

Coil Data

Coil Family

Type	Size
AC	S3
DC	S4

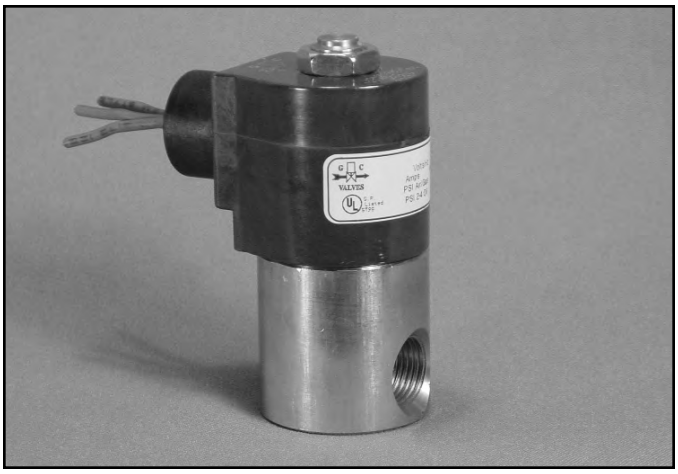
Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	18	23

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS301 Series

Certified to NSF/ANSI/CAN 61-G & 372

3/8" NPT
Stainless Steel Body
2-Way Direct Acting
Normally Closed

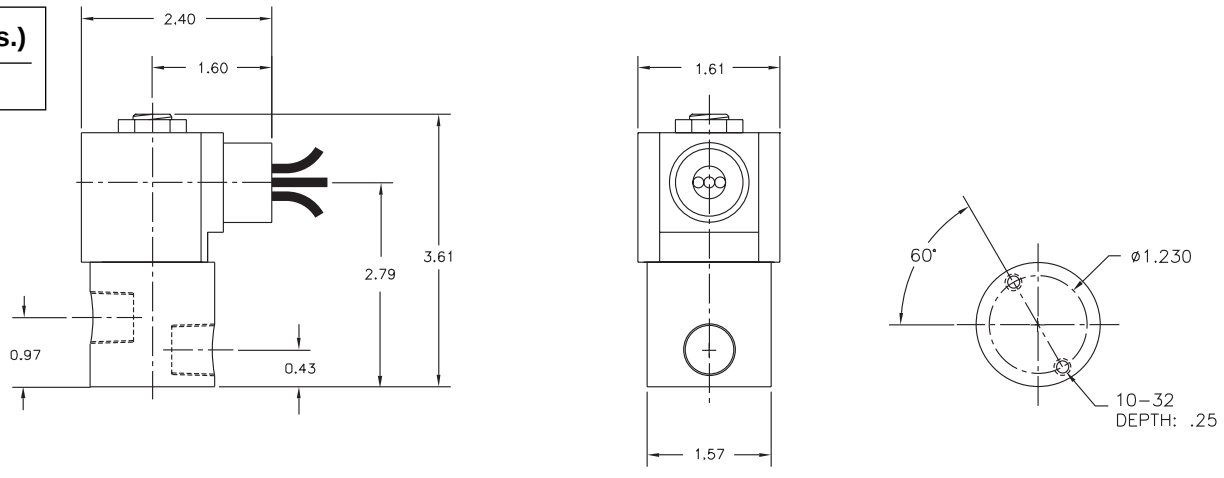


Materials	Seals:	NSF Approved EPDM
	Orifice:	Stainless Steel
Electrical	Standard Housing:	NEAM 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:	Contact GC Valves Customer Service for available options.
	Standard Voltages:	24, 120, 240 AC 60 Hz; 50 Hz available 6, 12, 24 DC; Contact GC Valves Customer Service for Additional Voltages.
	Voltage Tolerance:	±10% of applicable voltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inch
Operating Temperature	Ambient (Nominal):	32°F to 125°F
Mounting	Position:	Any
Approvals*	Agency:	NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions/Weight

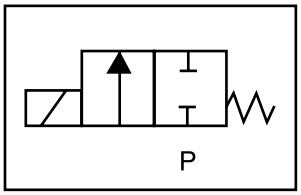
Weight (lbs.)
1.3



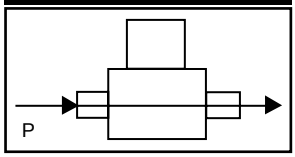
NS301 – 3/8" NPT, Stainless Steel Body, Normally Closed

Valve Selection List

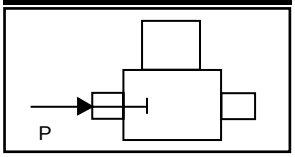
Normally Closed



Energized



De-Energized



Pipe Size	Orifice Size	C_V	Operating Pressure Differential (psi)								Max Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ — 110V/50HZ Shown)
			Minimum	Maximum											
				Air/Gas		Water		Light Oil		Steam*					
NPT	in.			AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Stainless Steel Body
3/8	1/8	.36	0	—	—	200	140	—	—	—	—	176	EPR	10	10	NS301GF02C3CD5
	3/16	.65	0	—	—	100	70	—	—	—	—	176	EPR	10	10	NS301GF02C3CE1
	1/4	.85	0	—	—	50	20	—	—	—	—	176	EPR	10	10	NS301GF02C3CE7
	9/32	1.0	0	—	—	35	15	—	—	—	—	176	EPR	10	10	NS301GF02C3CF1
	3/8	1.3	0	—	—	20	5	—	—	—	—	176	EPR	10	10	NS301GF02C3CF5

*** Class H Coil Recommended for Steam and Other High Temperature Applications**

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	3	0	1	G	F	0	2	C	3	C	D	5
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orientation	
NS30				1: Normally Closed	G: Conduit	F: Class F H: Class H	02: 120/60 110/50		C: EPR	3: Stainless Steel	C: 3/8" NPT	D5: 1/8" E1: 3/16" E7: 1/4" F1: 9/32" F5: 3/8"	

* See the “Engineering Guide” for additional voltages, variations and options

Coil Data

Coil Family

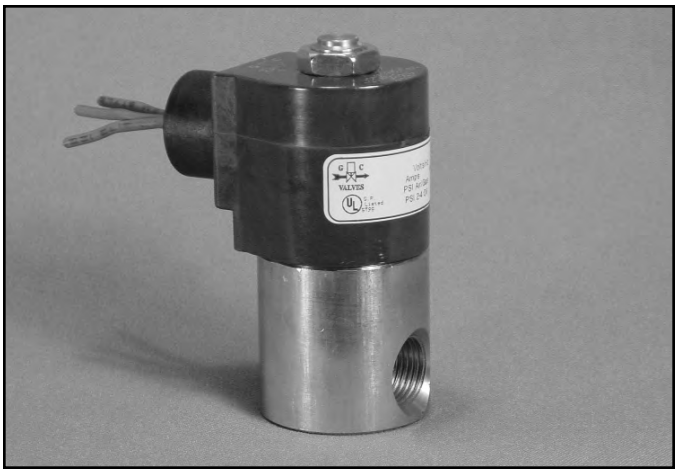
Type	Size
All	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	18	19

NS301 Series

Certified to NSF/ANSI/CAN 61-G & 372

3/8" NPT
Stainless Steel Body
2-Way Direct Acting
Normally Closed

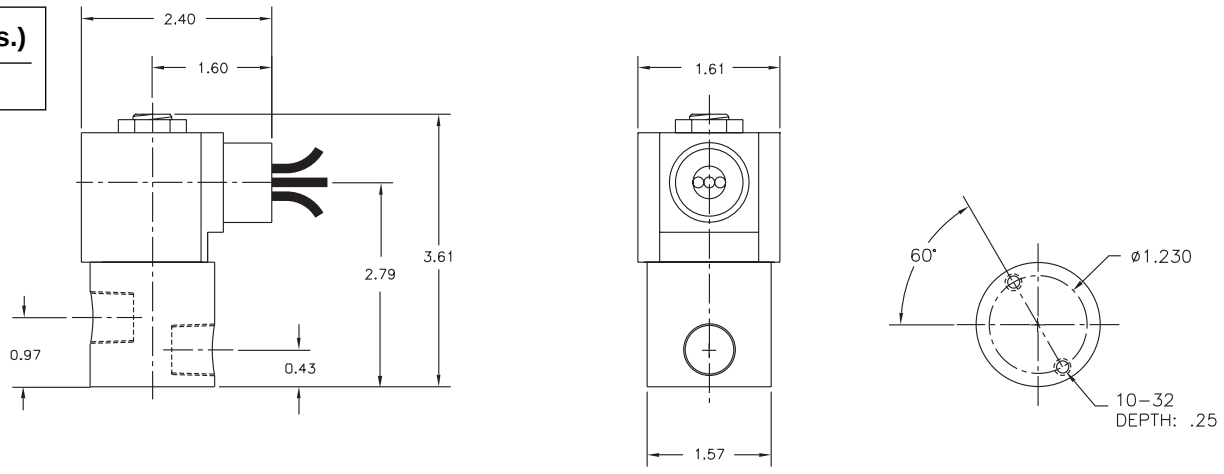


Materials	Seals:	NSF Approved EPDM
	Orifice:	Stainless Steel
Electrical	Standard Housing:	NEAM 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:	Contact GC Valves Customer Service for available options.
	Standard Voltages:	24, 120, 240 AC 60 Hz; 50 Hz available 6, 12, 24 DC; Contact GC Valves Customer Service for Additional Voltages.
	Voltage Tolerance:	±10% of applicable voltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inch
Operating Temperature	Ambient (Nominal):	32°F to 125°F
Mounting	Position:	Any
Approvals*	Agency:	NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions/Weight

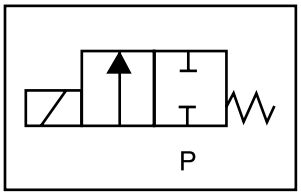
Weight (lbs.)
1.3



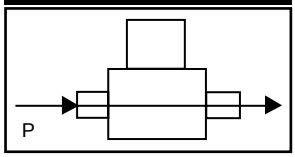
NS301 – 3/8" NPT, Stainless Steel Body, Normally Closed

Valve Selection List

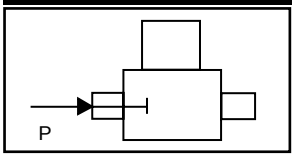
Normally Closed



Energized



De-Energized



Pipe Size	Orifice Size	C_V	Operating Pressure Differential (psi)								Max Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ — 110V/50HZ Shown)
			Minimum	Maximum											
				Air/Gas		Water		Light Oil		Steam*					
NPT	in.			AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Stainless Steel Body
3/8	1/8	.36	0	—	—	200	140	—	—	—	—	176	EPR	10	10	NS301GF02C3CD5
	3/16	.65	0	—	—	100	70	—	—	—	—	176	EPR	10	10	NS301GF02C3CE1
	1/4	.85	0	—	—	50	20	—	—	—	—	176	EPR	10	10	NS301GF02C3CE7
	9/32	1.0	0	—	—	35	15	—	—	—	—	176	EPR	10	10	NS301GF02C3CF1
	3/8	1.3	0	—	—	20	5	—	—	—	—	176	EPR	10	10	NS301GF02C3CF5

*** Class H Coil Recommended for Steam and Other High Temperature Applications**

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	3	0	1	G	F	0	2	C	3	C	D	5
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS30				1: Normally Closed	G: Conduit	F: Class F H: Class H	02: 120/60 110/50		C: EPR	3: Stainless Steel	C: 3/8" NPT	D5: 1/8" E1: 3/16" E7: 1/4" F1: 9/32" F5: 3/8"	

* See the “Engineering Guide” for additional voltages, variations and options

Coil Data

Coil Family

Type	Size
All	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	18	19

NS71 Series

Certified to NSF/ANSI/CAN 61-G & 372

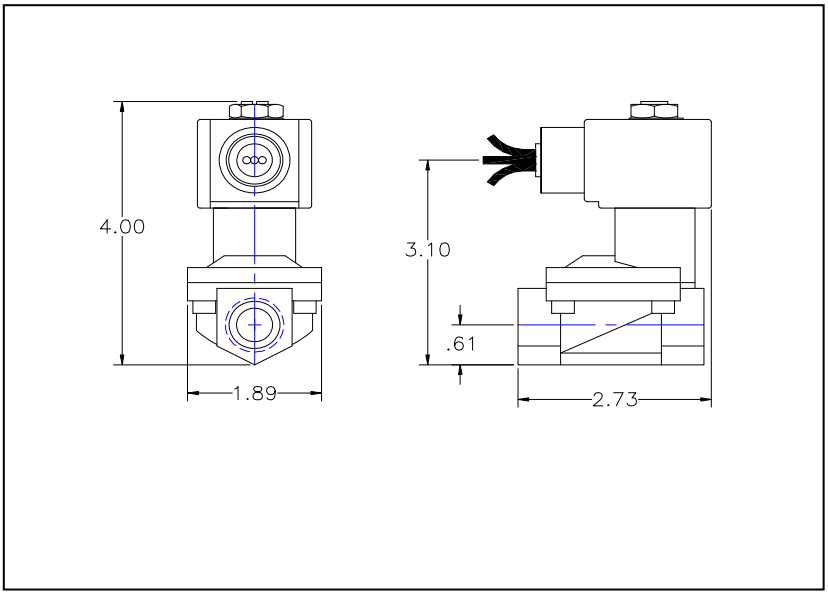
- 3/8" NPT
- Lead Free Brass Body
- 2-Way Piloted Diaphragm
- Normally Closed

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Lead Free Brass
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
2.5



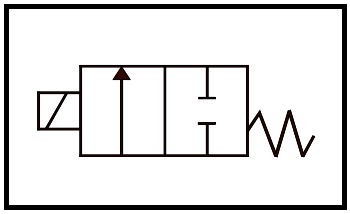
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

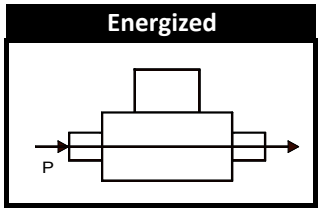
3-8-B-NS711-1

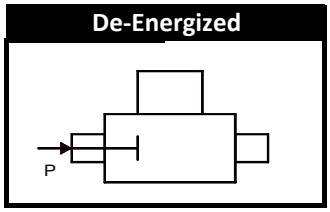
NS711 - 3/8" NPT, Lead Free Brass Body, Normally Closed

Valve Selection List

Normally Closed







Pipe Size	Orifice Size		Operating Pressure Differential (PSI)								Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum											
				Air/Gas		Water		Light Oil		Steam*					
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Lead Free Brass Body
3/8	3/8	4.3	8	200	150	150	150	---	---	50	50	295	EPR	8	9	NS711GF02C9CG1

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	7	1	1	G	F	0	2	C	9	C	G	1

Series	Operating Mode	Hsg	Coil	Voltage	Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size
NS71	1: N.C.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC	C: EPDM	9: Brass Lead Free	C: 3/8"	G1: 1/2"

Coil Data

Coil Family	
Type	Size
All	S3

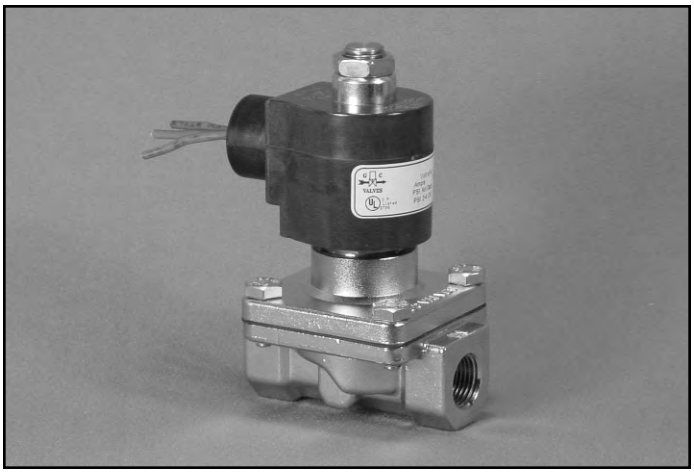
Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	13	14

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS202 Series

Certified to NSF/ANSI/CAN 61-G & 372

- 3/8" NPT
- Stainless Steel Body Type 316
- 2-Way Zero Differential Piloted Diaphragm
- Normally Open

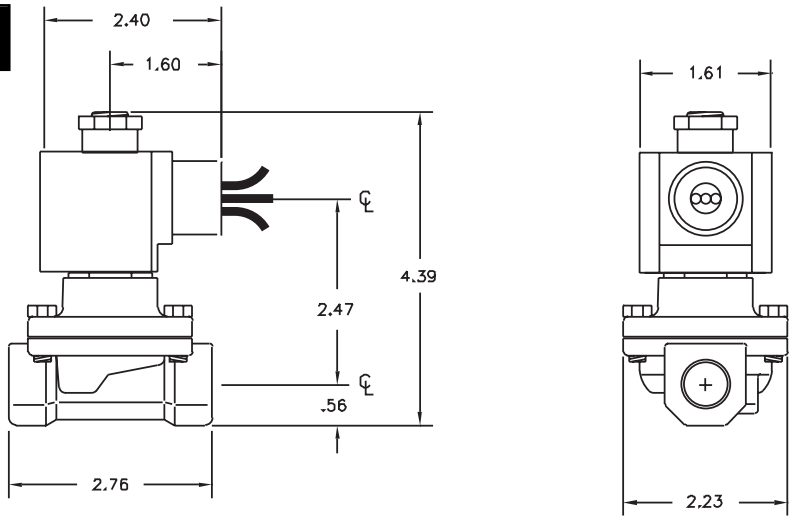


Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot Main	Stainless Steel Stainless Steel Ø 5/8”
Electrical	Standard Housing:		NEAM 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Service for available options.
	Standard Voltages:		24, 120, 240 AC 60 Hz; 50 Hz available 6, 12, 24 DC; Contact GC Valves Customer Service for Additional Voltages.
	Voltage Tolerance:		±10% of applicable voltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inch
Operating Temperature	Ambient (Nominal):		32°F to 125°F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions/Weight

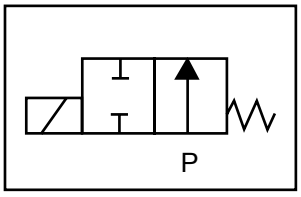
Weight (LB)
2.0



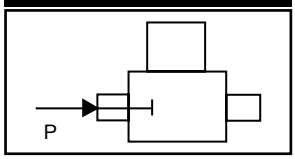
NS202 – 3/8" NPT, Stainless Steel Body-Type 316, Normally Open

Valve Selection List

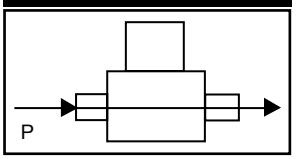
Normally Open



Energized



De-Energized



Pipe Size NPT	Orifice Size IN	C_v	Operating Pressure Differential (psi) Minimum	Maximum Air/Gas AC	Maximum Air/Gas DC	Maximum Water AC	Maximum Water DC	Maximum Light Oil AC	Maximum Light Oil DC	Maximum Steam* AC	Max Fluid Temp. °F	Seal Material	Power Consumption (Watts) AC	Power Consumption (Watts) DC	Model Code (120V/60HZ — 110V/50HZ Shown) Stainless Steel Body Type 316
3/8	5/8	3.3	0	—	—	200	125	—	—	—	176	EPR SANTO	11	10	NS202GF02F7CG4

*** Class H Coil Recommended for Steam and Other High Temperature Applications**

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	2	0	2	G	F	0	2	F	7	C	G	4
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS20				2: Normally Open	G: Conduit	F: Class F H: Class H	02: 120/60 110/50		F: SANTO/ EPDM	7: 316 SS	C: 3/8" NPT	G4: 5/8"	

* See the "Engineering Guide" for additional voltages, variations and options.

Coil Data

Coil Family

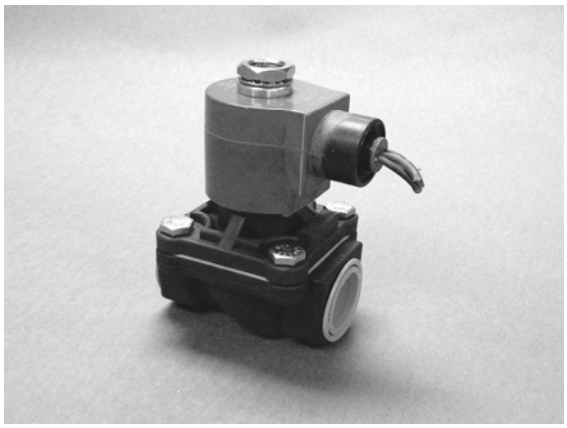
Type	Size
All	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	22	25

NS202 Series

Certified to NSF/ANSI/CAN 61-G & 372

- 3/8" NPT
- Nylon Body
- 2-Way Zero Differential Piloted Diaphragm
- Normally Open

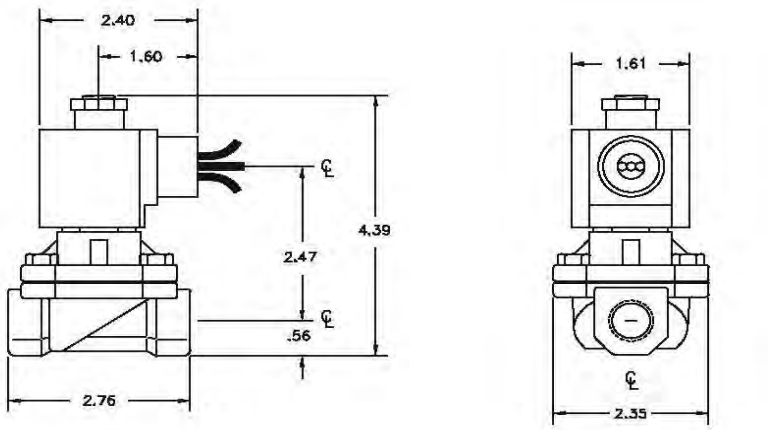


Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot	Stainless Steel
		Main	Nylon 5/8" Diameter
Electrical	Standard Housing:		NEAM 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Service for available options.
	Standard Voltages:		24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:		± 10% of applicable volltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inches
Operating Temperature	Ambient (Nominal):		32° F to 125° F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions / Weight

Weight (oz.)
15.7



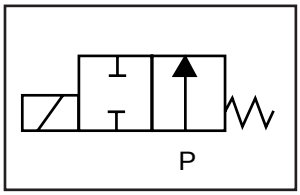
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

3/8-P-NS202-1

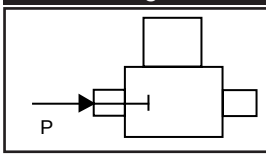
NS202 – 3/8" NPT, Nylon Body, Normally Open

Valve Selection List

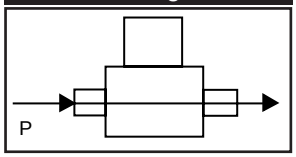
Normally Open



Energized



De-Energized



Pipe Size	Orifice Size		Operating Pressure Differential (psi)					Max Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ — 110V/50HZ Shown)
			Minimum	Maximum								
				Air/Gas		Water						
NPT	IN	C_V		AC	DC	AC	DC	°F		AC	DC	Nylon Body
3/8	5/8	3.3	0	-	-	200	125	176	EPR SANTO	11	10	NS202GF02FPCG4

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	2	0	2	G	F	0	2	F	P	C	G	4
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS20				2: Normally Open	G: Conduit	F: Class F	02: 120/60 110/50		F: SANTO/ EPDM	P: Nylon	C: 3/8" NPT	G4: 5/8"	

* See the "Engineering Guide" for additional voltages, variations and options.

Coil Data

Coil Family

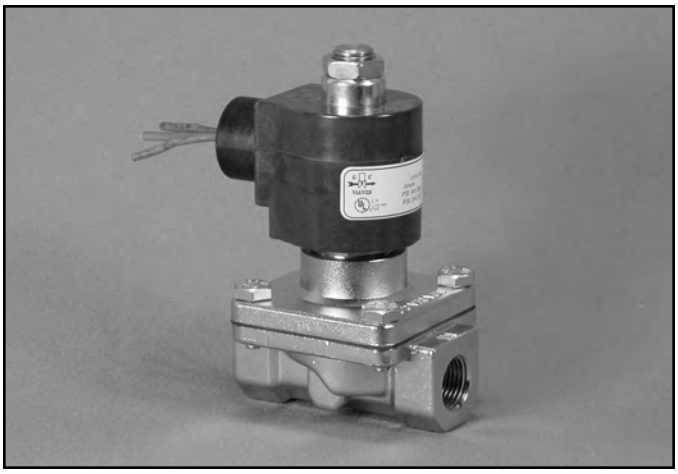
Type	Size
All	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	22	25

NS212 Series

Certified to NSF/ANSI/CAN 61-G & 372

- 3/8" NPT
- Stainless Steel Body Type 316
- 2-Way Piloted Diaphragm
- Normally Open

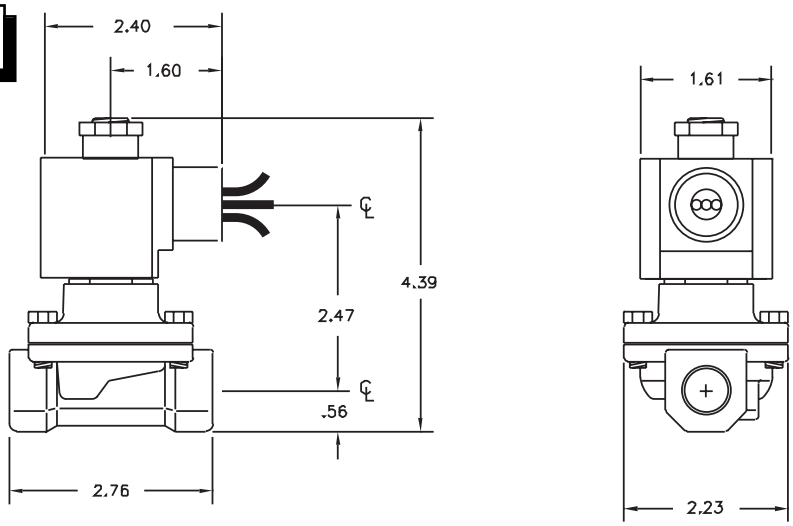


Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot Main	Stainless Steel Stainless Steel Ø 5/8”
Electrical	Standard Housing:		NEAM 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Service for available options.
	Standard Voltages:		24, 120, 240 AC 60 Hz; 50 Hz available 6, 12, 24 DC; Contact GC Valves Customer Service for Additional Voltages.
	Voltage Tolerance:		±10% of applicable voltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inch
Operating Temperature	Ambient (Nominal):		32°F to 125°F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions/Weight

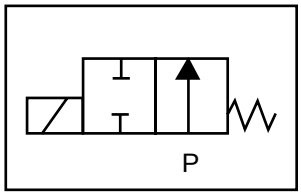
Weight (lbs.)
2.5



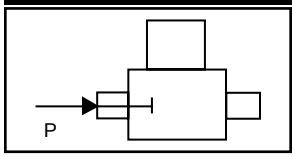
NS212 – 3/8" NPT, Stainless Steel Body, Type 316, Normally Open

Valve Selection List

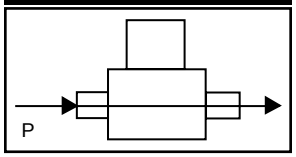
Normally Open



Energized



De-Energized



Pipe Size NPT	Orifice Size IN	C_V	Operating Pressure Differential (psi) Minimum	Maximum Air/Gas AC	Maximum Air/Gas DC	Maximum Water AC	Maximum Water DC	Maximum Light Oil AC	Maximum Light Oil DC	Maximum Steam* AC	Maximum Steam* DC	Max Fluid Temp. °F	Seal Material	Power Consumption (Watts) AC	Power Consumption (Watts) DC	Model Code (120V/60HZ — 110V/50HZ Shown) Stainless Steel Body Type 316
3/8	5/8	3.3	3	—	—	200	125	—	—	—	—	176	EPR SANTO	11	10	NS212GF02F7CG4

*** Class H Coil Recommended for Steam and Other High Temperature Applications**

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	2	1	2	G	F	0	2	F	7	C	G	4
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS21				2: Normally Open	G: Conduit	F: Class F H: Class H	02: 120/60 110/50		F: SANTO/ EPDM	7: 316 SS	C: 3/8" NPT	G4: 5/8"	

* See the "Engineering Guide" for additional voltages, variations and options.

Coil Data

Coil Family

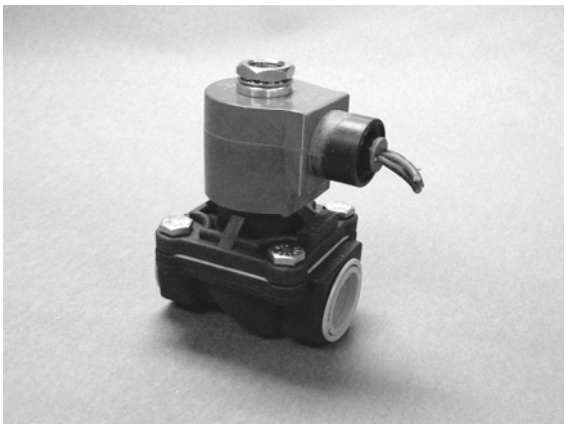
Type	Size
ALL	S4

		60	50
Frequency (Hz)			
Nominal Power (VA)	Inrush	46	46
	Holding	22	25

NS212 Series

Certified to NSF/ANSI/CAN 61-G & 372

- 3/8" NPT
- Nylon Body
- 2-Way
  Piloted Diaphragm
- Normally Open

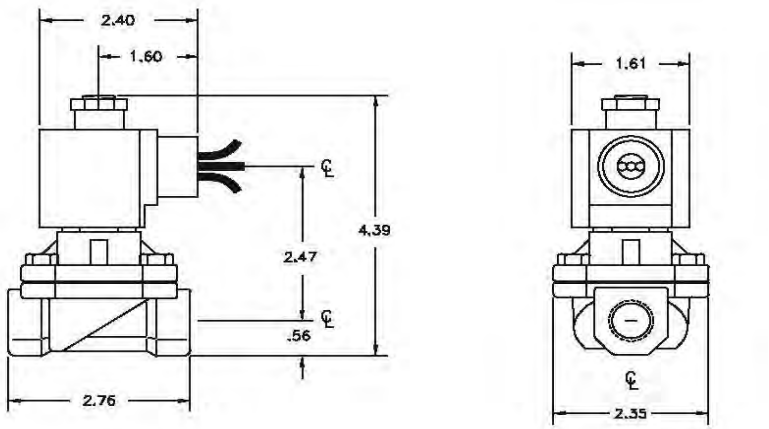


Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot	Stainless Steel
		Main	Nylon 5/8" Diameter
Electrical	Standard Housing:		NEAM 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Service for available options.
	Standard Voltages:		24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:		± 10% of applicable volltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inches
Operating Temperature	Ambient (Nominal):		32° F to 125° F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions / Weight

Weight (oz.)
15.7



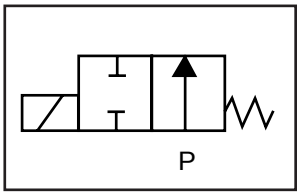
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

3/8-P-NS212-1

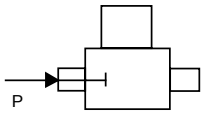
NS212 – 3/8" NPT, Nylon Body, Normally Open

Valve Selection List

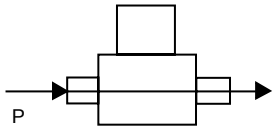
Normally Open



Energized



De-Energized



Pipe Size	Orifice Size		Operating Pressure Differential (psi)					Max Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ — 110V/50HZ Shown)
				Maximum								
				Air/Gas		Water						
NPT	IN	C_V	Minimum	AC	DC	AC	DC	°F		AC	DC	Nylon Body
3/8	5/8	3.3	3	-	-	200	125	176	EPR SANTO	11	10	NS212GF02FPCG4

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	2	1	2	G	F	0	2	F	P	C	G	4
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS21				2: Normally Open	G: Conduit	F: Class F	02: 120/60 110/50		F: SANTO/ EPDM	P: Nylon	C: 3/8" NPT	G4: 5/8"	

* See the "Engineering Guide" for additional voltages, variations and options.

Coil Data

Coil Family

Type	Size
ALL	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	22	25

NS71 Series

Certified to NSF/ANSI/CAN 61-G & 372

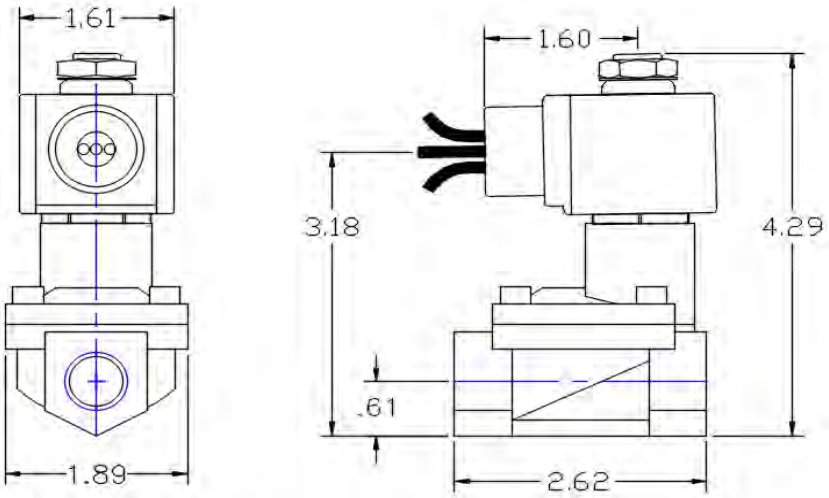
- 3/8" NPT
- Lead Free Brass Body
- 2-Way Piloted Diaphragm
- Normally Open

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Lead Free Brass
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
2.5



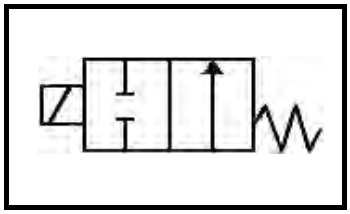
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

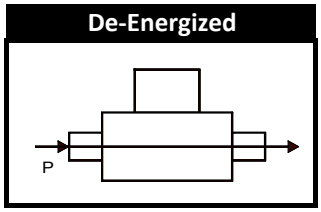
3-8-B-NS712-1

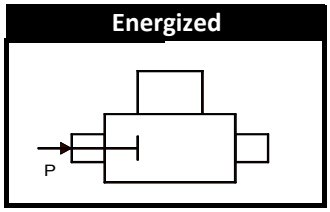
NS712 - 3/8" NPT, Lead Free Brass Body, Normally Open

Valve Selection List

Normally Open







Pipe Size	Orifice Size		Operating Pressure Differential (PSI)									Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum												
				Air/Gas		Water		Light Oil		Steam*						
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Lead Free Brass Body
3/8	3/8	4.3	7	200	150	200	150	---	---	50	50	295	EPR	8	9	NS712GF02C9CG1

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	7	1	2	G	F	0	2	C	9	C	G	1

Series	Operating Mode	Hsg	Coil	Voltage	Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size
NS71	2: N.O.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC	C: EPDM	9: Brass Lead Free	C: 3/8"	G1: 1/2"

Coil Data

Coil Family	
Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	18	19

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

3-8-B-NS712-2

NS201 Series

Certified to NSF/ANSI/CAN 61-G & 372

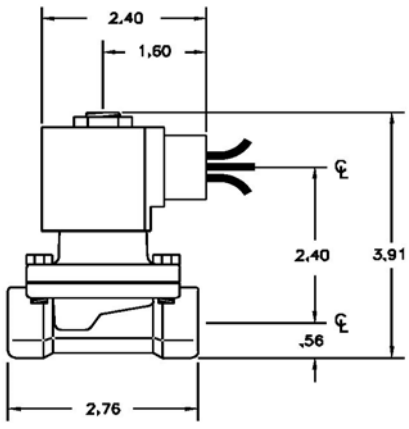
- 1/2" NPT
- 316 SS Body
- 2-Way Zero Differential Piloted Diaphragm
- Normally Closed

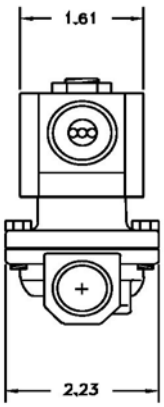
Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot	Stainless Steel
		Main	Stainless Steel
Electrical	Housing:		NEMA 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Svc. for available options.
	Voltage:		24,120,240, VAC, 60 and/or 50 Hz. Available. 6, 12, 24 VDC Contact GC Valves Customer Svc. for available options.
	Voltage Tolerance:		± 10% of applicable voltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inches
Operating Temperature	Ambient (Nominal):		32° F to 125° F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions / Weight

Weight (lbs.)
1.9

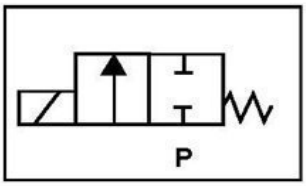


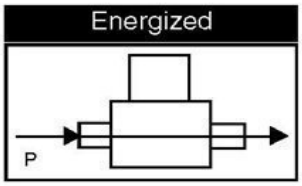


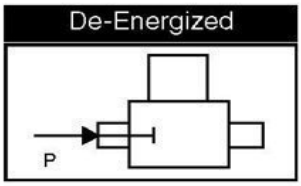
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

Valve Selection List

Normally Closed







Pipe Size	Orifice Size		Operating Pressure Differential (psi)									Max Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ — 110V/50HZ Shown)
			Minimum	Maximum												
				Air/Gas		Water		Light Oil		Steam*						
NPT	IN	C_V		AC	DC	AC	DC	AC	DC	AC		°F		AC	DC	Stainless Steel Body Type 316
1/2	5/8	4.3	0	—	—	100	90	—	—	—		295		10	10	NS201GF02F7DG4

* Class H Coil Recommended for Steam and Other High Temperature Applications

Part Numbering

1 2 3 4	5	6	7	8 9	10	11	12	13 14
N S 2 0	1	G	F	0 2	F	7	D	G 4
Series	Operating Mode	Housing*	Coil Class*	Voltage*	Seal Material	Body Material	Pipe Connection	Orifice Size
NS20	1: Normally Closed	G: 1/2" Conduit	F: Class F N: Class N	02: 110/120 50/60 Hz 10 Watt	F: Santoprene/ EPDM	7: S. Steel	D: 1/2"	G4: 5/8"

Coil Data

Coil Family

Type	Size
All	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	18	23

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS201 Series

Certified to NSF/ANSI/CAN 61-G & 372

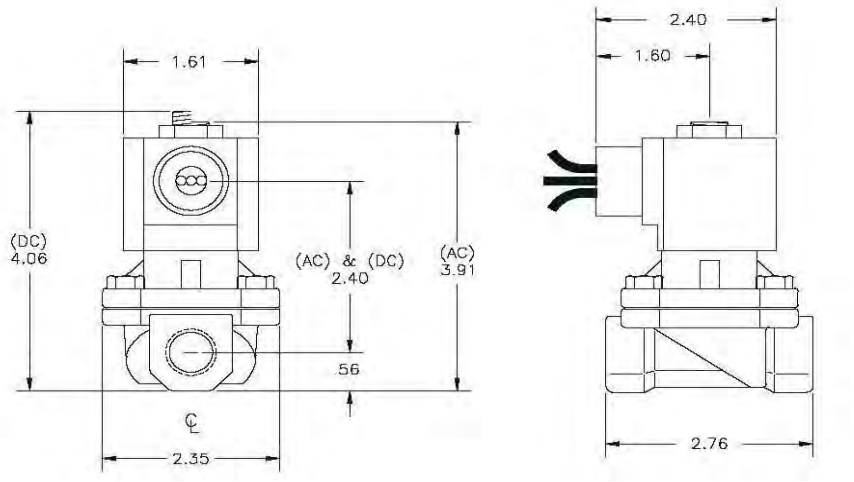
- 1/2" NPT
- Nylon Body
- 2-Way Zero Differential Piloted Diaphragm
- Normally Closed

Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot	Stainless Steel
		Main	Noryl
Electrical	Housing:		NEMA 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Svc. for available options.
	Voltage:		24,120,240, VAC, 60 and/or 50 Hz. Available. 6, 12, 24 VDC Contact GC Valves Customer Svc. for available options.
	Voltage Tolerance:		± 10% of applicable voltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inches
Operating Temperature	Ambient (Nominal):		32° F to 125° F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions / Weight

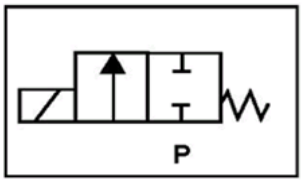
Weight (lbs.)
1

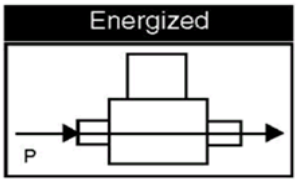


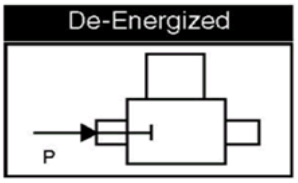
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

Valve Selection List

Normally Closed







Pipe Size	Orifice Size	C_V	Operating Pressure Differential (psi) Minimum	Maximum Air/Gas AC	Air/Gas DC	Water AC	Water DC	Light Oil AC	Light Oil DC	Steam* AC	Max Fluid Temp.	Seal Material	Power Consumption (Watts) AC	Power Consumption (Watts) DC	Model Code (120V/60HZ — 110V/50HZ Shown) Noryl Body
NPT	IN			AC	DC	AC	DC	AC	DC	AC	°F		AC	DC	
1/2"	5/8	4.3	0	—	—	100	90	—	—	—	295	Santo EPR	10	10	NS201GF02FPDG4

*** Class H Coil Recommended for Steam and Other High Temperature Applications**

Part Numbering

1 2 3 4	5	6	7	8 9	10	11	12	13 14
N S 2 0	1	G	F	0 2	F	P	D	G 4
Series	Operating Mode	Housing*	Coil Class*	Voltage*	Seal Material	Body Material	Pipe Connection	Orifice Size
NS20	1: Normally Closed	G: 1/2" Conduit	F: Class F N: Class N	02: 110/120 50/60 Hz 10 Watt	F: Santoprene/ EPDM	P: Noryl	D: 1/2"	G4: 5/8"

Coil Data

Coil Family

Type	Size
All	S4

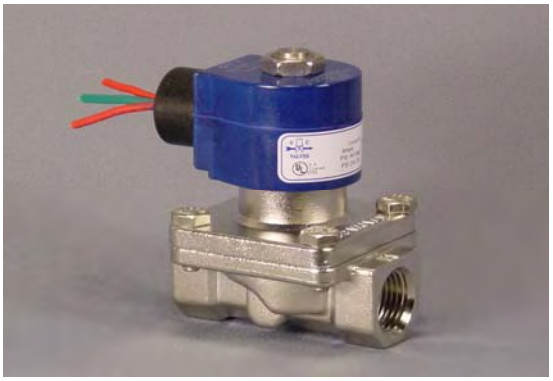
		60	50
Frequency (Hz)			
Nominal Power (VA)	Inrush	46	46
	Holding	18	23

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS211 Series

Certified to NSF/ANSI/CAN 61-G & 372

- 1/2" NPT
- 316 SS Body
- 2-Way
  Piloted Diaphragm
- Normally Closed

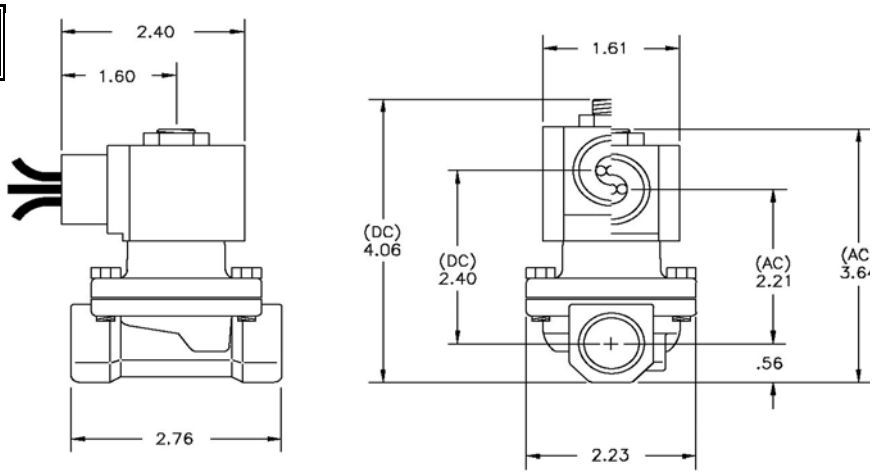


Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot	Stainless Steel
		Main	Stainless Steel
Electrical	Housing:		NEMA 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Svc. for available options.
	Voltage:		24,120,240, VAC, 60 and/or 50 Hz. Available. 6, 12, 24 VDC Contact GC Valves Customer Svc. for available options.
	Voltage Tolerance:		± 10% of applicable voltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inches
Operating Temperature	Ambient (Nominal):		32° F to 125° F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions / Weight

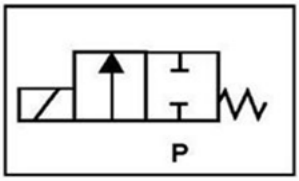
Weight (lbs.)
1.8



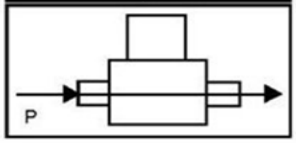
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

Valve Selection List

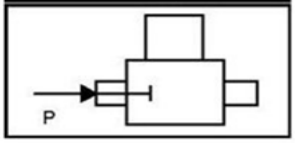
Normally Closed



Energized



De-Energized



Pipe Size	Orifice Size		Operating Pressure Differential (psi)									Max Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ — 110V/50HZ Shown)
			Minimum	Maximum												
				Air/Gas		Water		Light Oil		Steam*						
NPT	IN	C_V		AC	DC	AC	DC	AC	DC	AC		°F		AC	DC	Stainless Steel Body Type 316
1/2	5/8	4.3	4	—	—	150	100	—	—	—		295	Santo EPR	8	10	NS211GF02F7DG4

* Class H Coil Recommended for Steam and Other High Temperature Applications

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	2	1	1	G	F	0	2	F	7	D	G	4
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS21				1: Normally Closed	G: 1/2" Conduit	F: Class F N: Class N	02: 110/120 50/60 Hz 10 Watt		F: Santoprene/ EPDM	7: S. Steel	D: 1/2"	G4: 5/8"	

Coil Data

Coil Family

Type	Size
AC	S3
DC	S4

		60	50
Frequency (Hz)			
Nominal Power (VA)	Inrush	46	46
	Holding	18	23

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS211 Series

Certified to NSF/ANSI/CAN 61-G & 372

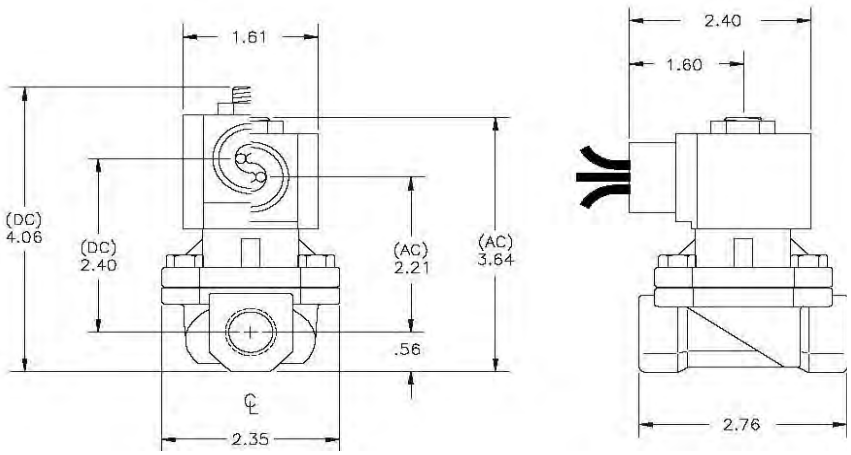
- 1/2" NPT
- Nylon Body
- 2-Way
  Piloted Diaphragm
- Normally Closed

Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot	Stainless Steel
		Main	Noryl
Electrical	Housing:		NEMA 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Svc. for available options.
	Voltage:		24,120,240, VAC, 60 and/or 50 Hz. Available. 6, 12, 24 VDC Contact GC Valves Customer Svc. for available options.
	Voltage Tolerance:		± 10% of applicable voltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inches
Operating Temperature	Ambient (Nominal):		32° F to 125° F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions / Weight

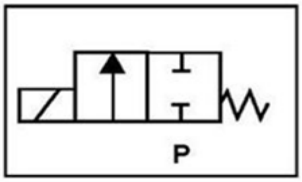
Weight (lbs.)
0.9



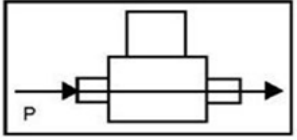
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

Valve Selection List

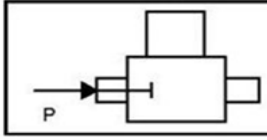
Normally Closed



Energized



De-Energized



Pipe Size	Orifice Size		Operating Pressure Differential (psi)									Max Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ — 110V/50HZ Shown)
			Minimum	Maximum												
				Air/Gas		Water		Light Oil		Steam*						
NPT	IN	C_V		AC	DC	AC	DC	AC	DC	AC		°F		AC	DC	Noryl Body
1/2	5/8	4.3	4	—	—	150	100	—	—	—		295	Santo EPR	8	10	NS211GF02FPDG4

* Class H Coil Recommended for Steam and Other High Temperature Applications

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	2	1	1	G	F	0	2	F	P	D	G	4
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS21				1: Normally Closed	G: 1/2" Conduit	F: Class F N: Class N	02: 110/120 50/60 Hz 10 Watt		F: Santoprene/ EPDM	P: Noryl	D: 1/2"	G4: 5/8"	

Coil Data

Coil Family

Type	Size
AC	S3
DC	S4

		60	50
Frequency (Hz)			
Nominal Power (VA)	Inrush	46	46
	Holding	18	23

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS71 Series

Certified to NSF/ANSI/CAN 61-G & 372

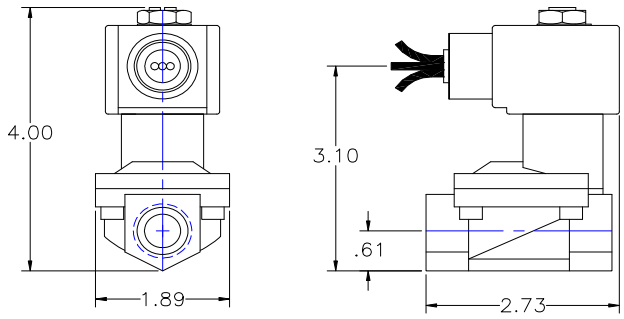
- 1/2" NPT
- Lead Free Brass Body
- 2-Way Piloted Diaphragm
- Normally Closed

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Lead Free Brass
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
2.5



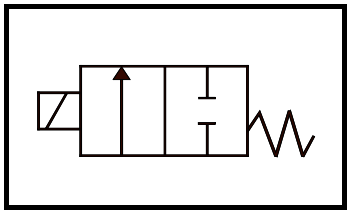
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

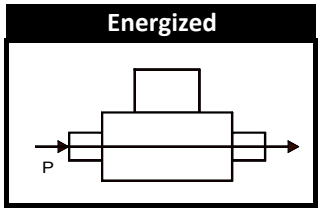
1-2-B-NS711-1

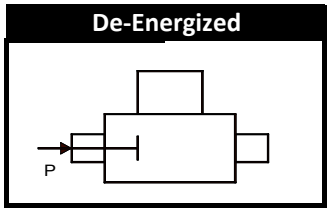
NS711 - 1/2" NPT, Lead Free Brass Body, Normally Closed

Valve Selection List

Normally Closed







Pipe Size	Orifice Size		Operating Pressure Differential (PSI)								Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum											
				Air/Gas		Water		Light Oil		Steam*					
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Lead Free Brass Body
1/2	1/2	4.3	8	200	150	150	150	---	---	50	50	295	EPR	8	9	NS711GF02C9DG1

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	7	1	1	G	F	0	2	C	9	D	G	1

Series	Operating Mode	Hsg	Coil	Voltage	Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size
NS71	1: N.C.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC	C: EPDM	9: Brass Lead Free	D: 1/2"	G1: 1/2"

Coil Data

Coil Family	
Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	13	14

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS202 Series

Certified to NSF/ANSI/CAN 61-G & 372

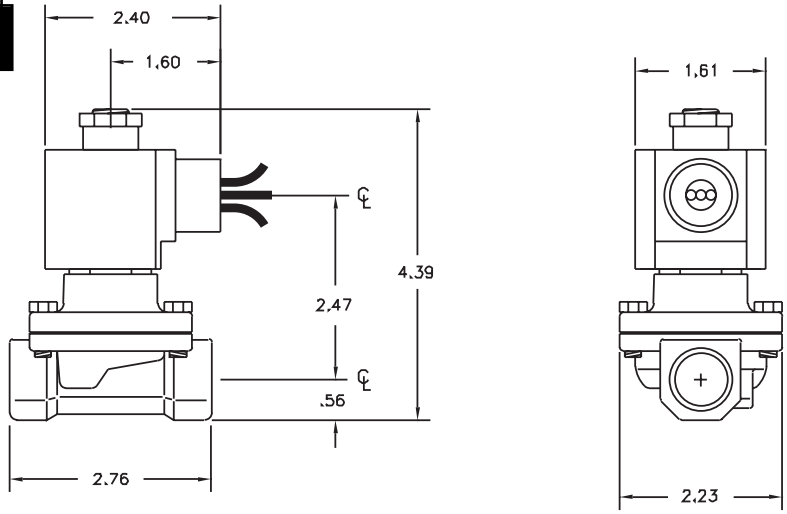
- 1/2" NPT
- Stainless Steel Body Type 316
- 2-Way Zero Differential Piloted Diaphragm
- Normally Open

Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot Main	Stainless Steel Stainless Steel Ø 5/8”
Electrical	Standard Housing:		NEAM 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Service for available options.
	Standard Voltages:		24, 120, 240 AC 60 Hz; 50 Hz available 6, 12, 24 DC; Contact GC Valves Customer Service for Additional Voltages.
	Voltage Tolerance:		±10% of applicable voltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inch
Operating Temperature	Ambient (Nominal):		32°F to 125°F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions/Weight

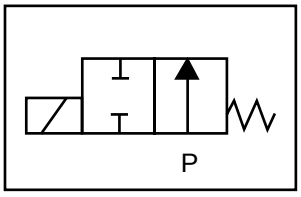
Weight (LB)
2.0



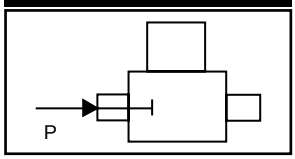
NS202 – 1/2" NPT, Stainless Steel Body-Type 316, Normally Open

Valve Selection List

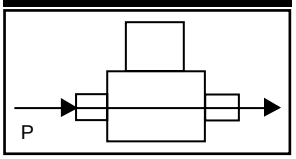
Normally Open



Energized



De-Energized



Pipe Size	Orifice Size	C_v	Operating Pressure Differential (psi)								Max Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ — 110V/50HZ Shown)
			Minimum	Maximum											
				Air/Gas		Water		Light Oil		Steam*					
NPT	IN			AC	DC	AC	DC	AC	DC	AC	°F		AC	DC	Stainless Steel Body Type 316
1/2	5/8	4.3	0	—	—	200	125	—	—	—	176	EPR SANTO	11	10	NS202GF02F7DG4

*** Class H Coil Recommended for Steam and Other High Temperature Applications**

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	2	0	2	G	F	0	2	F	7	D	G	4
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS20				2: Normally Open	G: Conduit	F: Class F H: Class H	02: 120/60 110/50		F: Santoprene/ EPDM	7: 316 SS	D: 1/2" NPT	G4: 5/8"	

* See the "Engineering Guide" for additional voltages, variations and options.

Coil Data

Coil Family

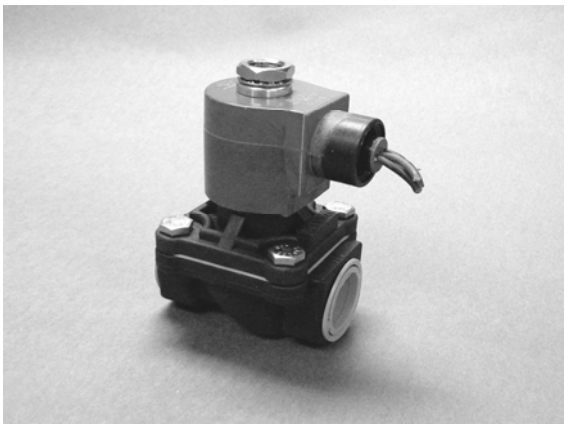
Type	Size
All	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	22	25

NS202 Series

Certified to NSF/ANSI/CAN 61-G & 372

- 1/2" NPT
- Nylon Body
- 2-Way Zero Differential Piloted Diaphragm
- Normally Open

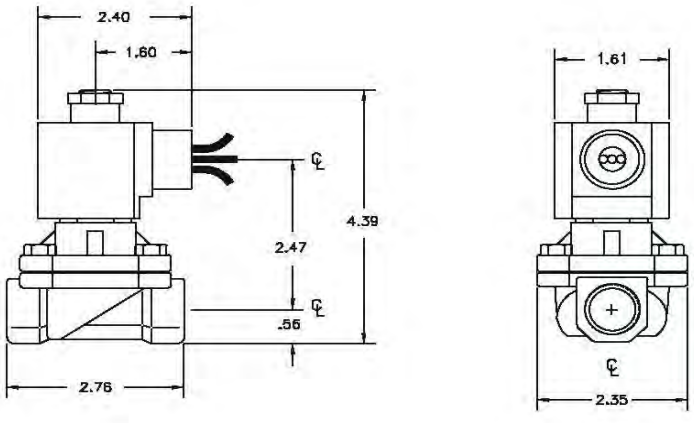


Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot	Stainless Steel
		Main	Nylon 5/8" Diameter
Electrical	Standard Housing:		NEAM 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Service for available options.
	Standard Voltages:		24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:		± 10% of applicable volltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inches
Operating Temperature	Ambient (Nominal):		32° F to 125° F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions / Weight

Weight (oz.)
15.7



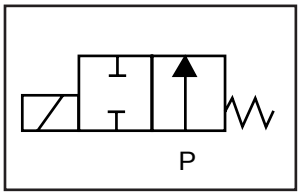
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

1/2-P-NS202-1

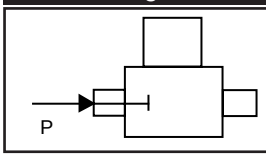
NS202 – 1/2" NPT, Nylon Body, Normally Open

Valve Selection List

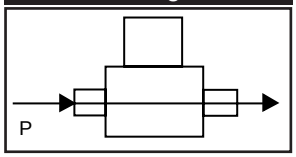
Normally Open



Energized



De-Energized



Pipe Size	Orifice Size	C_V	Operating Pressure Differential (psi)					Max Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ — 110V/50HZ Shown)
			Minimum	Maximum								
				Air/Gas		Water						
				AC	DC	AC	DC			AC	DC	Nylon Body
NPT	IN							°F				
1/2	5/8	4.3	0	-	-	200	125	176	EPR SANTO	11	10	NS202GF02FPDG4

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	2	0	2	G	F	0	2	F	P	D	G	4
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS20				2: Normally Open	G: Conduit	F: Class F	02: 120/60 110/50		F: Santoprene/ EPDM	P: Nylon	D: 1/2" NPT	G4: 5/8"	

* See the "Engineering Guide" for additional voltages, variations and options.

Coil Data

Coil Family

Type	Size
All	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	22	25

NS212 Series

Certified to NSF/ANSI/CAN 61-G & 372

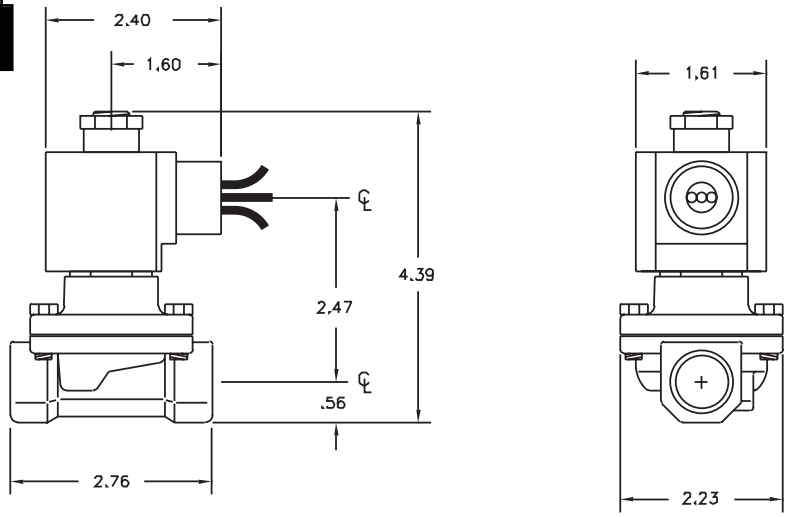
- 1/2" NPT
- Stainless Steel Body Type 316
- 2-Way Piloted Diaphragm
- Normally Open

Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot Main	Stainless Steel Stainless Steel Ø 5/8”
Electrical	Standard Housing:		NEAM 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Service for available options.
	Standard Voltages:		24, 120, 240 AC 60 Hz; 50 Hz available 6, 12, 24 DC; Contact GC Valves Customer Service for Additional Voltages.
	Voltage Tolerance:		±10% of applicable voltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inch
Operating Temperature	Ambient (Nominal):		32°F to 125°F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions/Weight

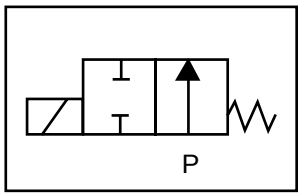
Weight (lbs.)
2.5



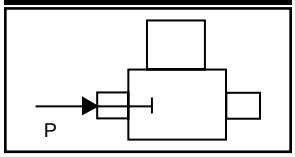
NS212 – 1/2" NPT, Stainless Steel Body, Type 316, Normally Open

Valve Selection List

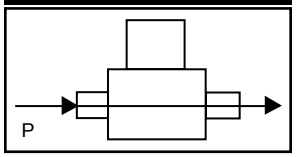
Normally Open



Energized



De-Energized



Pipe Size NPT	Orifice Size IN	C_V	Operating Pressure Differential (psi) Minimum	Maximum Air/Gas AC	Maximum Air/Gas DC	Maximum Water AC	Maximum Water DC	Maximum Light Oil AC	Maximum Light Oil DC	Maximum Steam* AC	Maximum Steam* DC	Max Fluid Temp. °F	Seal Material	Power Consumption (Watts) AC	Power Consumption (Watts) DC	Model Code (120V/60HZ — 110V/50HZ Shown) Stainless Steel Body Type 316
1/2	5/8	4.3	3	—	—	200	125	—	—	—	—	176	EPR SANTO	11	10	NS212GF02F7DG4

*** Class H Coil Recommended for Steam and Other High Temperature Applications**

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	2	1	2	G	F	0	2	F	7	D	G	4
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS21				2: Normally Open	G: Conduit	F: Class F H: Class H	02: 120/60 110/50		F: Santoprene/ EPDM	7: 316 SS	D: 1/2" NPT	G4: 5/8"	

* See the "Engineering Guide" for additional voltages, variations and options.

Coil Data

Coil Family

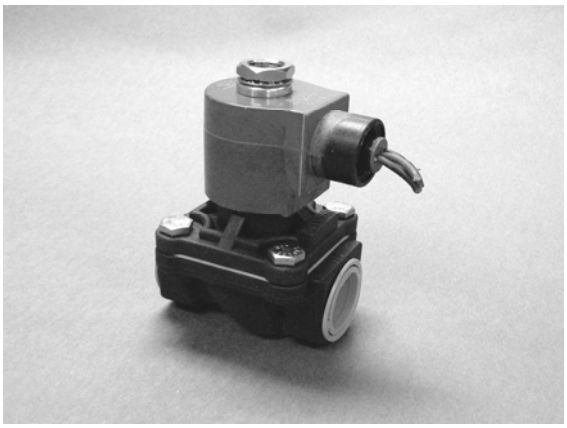
Type	Size
ALL	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	22	25

NS212 Series

Certified to NSF/ANSI/CAN 61-G & 372

- 1/2" NPT
- Nylon Body
- 2-Way
  Piloted Diaphragm
- Normally Open

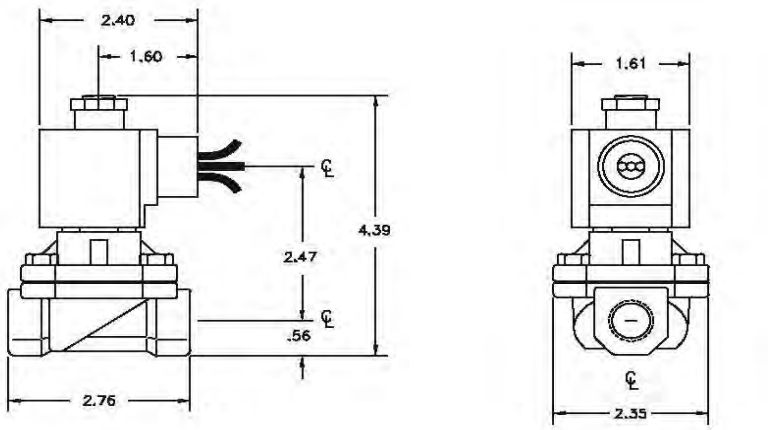


Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot	Stainless Steel
		Main	Nylon 5/8" Diameter
Electrical	Standard Housing:		NEAM 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Service for available options.
	Standard Voltages:		24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:		± 10% of applicable volltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inches
Operating Temperature	Ambient (Nominal):		32° F to 125° F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions / Weight

Weight (oz.)
15.7



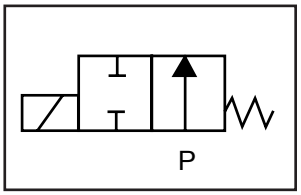
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

1/2-P-NS212-1

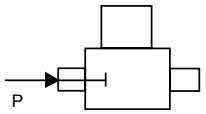
NS212 – 1/2" NPT, Nylon Body, Normally Open

Valve Selection List

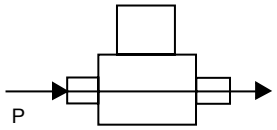
Normally Open



Energized



De-Energized



Pipe Size	Orifice Size		Operating Pressure Differential (psi)					Max Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ — 110V/50HZ Shown)
			Minimum	Maximum								
				Air/Gas		Water						
NPT	IN	C_V		AC	DC	AC	DC	°F		AC	DC	Nylon Body
1/2	5/8	3.3	3	-	-	200	125	176	EPR SANTO	11	10	NS212GF02FPDG4

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	2	1	2	G	F	0	2	F	P	D	G	4
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS21				2: Normally Open	G: Conduit	F: Class F	02: 120/60 110/50		F: Santoprene/ EPDM	P: Nylon	D: 1/2" NPT	G4: 5/8"	

* See the "Engineering Guide" for additional voltages, variations and options.

Coil Data

Coil Family

Type	Size
ALL	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	22	25

NS71 Series

Certified to NSF/ANSI/CAN 61-G & 372

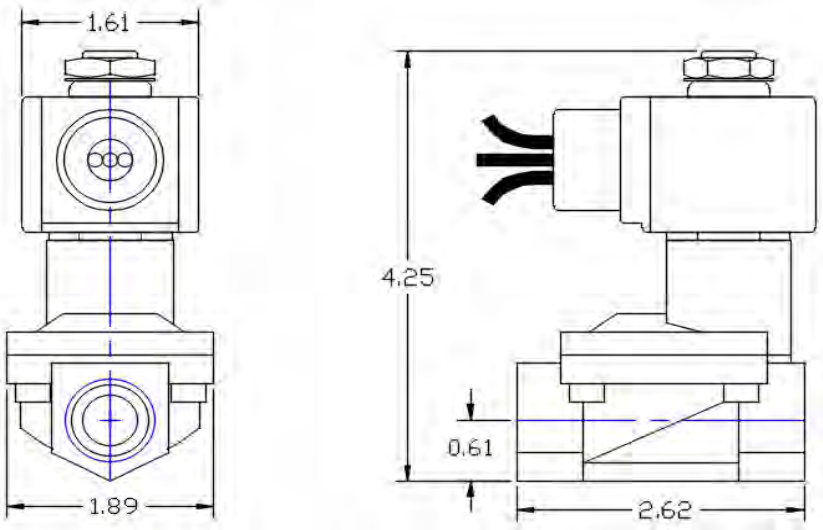
- 1/2" NPT
- Lead Free Brass Body
- 2-Way Piloted Diaphragm
- Normally Open

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Lead Free Brass
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
2.5



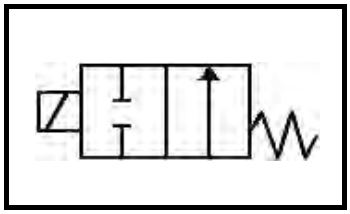
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

1-2-B-NS712-1

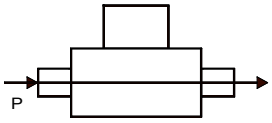
NS712 - 1/2" NPT, Lead Free Brass Body, Normally Open

Valve Selection List

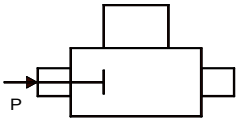
Normally Open



De-Energized



Energized



Pipe Size	Orifice Size		Operating Pressure Differential (PSI)									Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum												
				Air/Gas		Water		Light Oil		Steam*						
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Lead Free Brass Body
1/2	1/2	4.3	7	200	150	200	150	---	---	50	50	295	EPR	8	9	NS712GF02C9DG1

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	**7**	**1**	**2**	**G**	**F**	**0**	**2**	**C**	**9**	**D**	**G**	**1**

Series	Operating Mode	Hsg	Coil	Voltage	Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size
NS71	2: N.O.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC	C: EPDM	9: Brass Lead Free	D: 1/2"	G1: 1/2"

Coil Data

Coil Family	
Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	18	19

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

1-2-B-NS712-2

NS201 Series

Certified to NSF/ANSI/CAN 61-G & 372

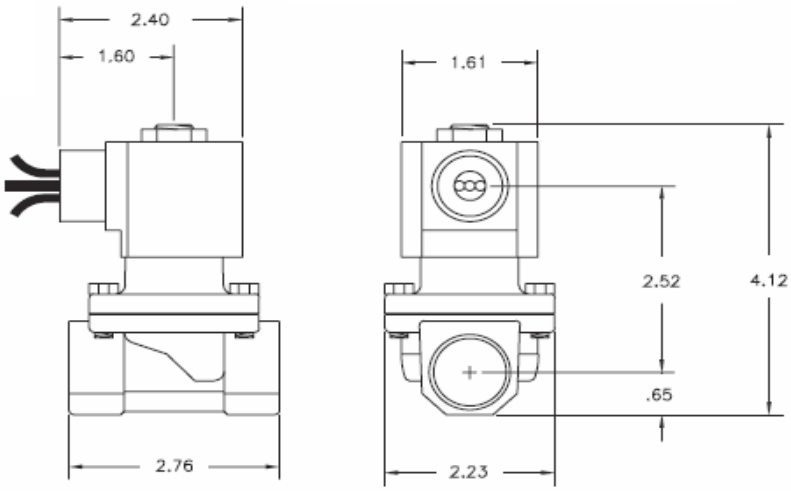
- 3/4" NPT
- 316 SS Body
- 2-Way Zero Differential Piloted Diaphragm
- Normally Closed

Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot	Stainless Steel
		Main	Stainless Steel
Electrical	Housing:		NEMA 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Svc. for available options.
	Voltage:		24,120,240, VAC, 60 and/or 50 Hz. Available. 6, 12, 24 VDC Contact GC Valves Customer Svc. for available options.
	Voltage Tolerance:		± 10% of applicable voltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inches
Operating Temperature	Ambient (Nominal):		32° F to 125° F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions / Weight

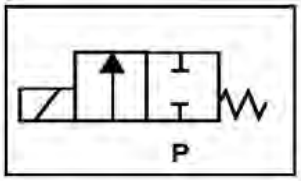
Weight (lbs.)
2



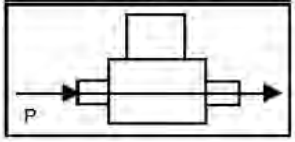
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

Valve Selection List

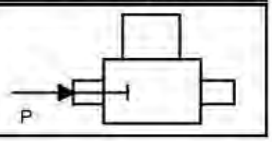
Normally Closed



Energized



De-Energized



Pipe Size NPT	Orifice Size IN	C_V	Operating Pressure Differential (psi) Minimum	Maximum Air/Gas AC	Air/Gas DC	Water AC	Water DC	Light Oil AC	Light Oil DC	Steam* AC	Max Fluid Temp. °F	Seal Material	Power Consumption (Watts) AC	Power Consumption (Watts) DC	Model Code (120V/60HZ — 110V/50HZ Shown) Stainless Steel Body Type 316
3/4	3/4	6.7	0	—	—	100	90	—	—	—	295	Santo EPR	10	10	NS201GF02F7EG5

* Class H Coil Recommended for Steam and Other High Temperature Applications

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	2	0	1	G	F	0	2	F	7	E	G	5
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS20				1: Normally Closed	G: 1/2" Conduit	F: Class F N: Class N	02: 110/120 50/60 Hz 10 Watt		F: Santoprene/ EPDM	7: S. Steel	E: 3/4" NPT	G5: 3/4"	

Coil Data

Coil Family

Type	Size
All	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	18	23

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS201 Series

Certified to NSF/ANSI/CAN 61-G & 372

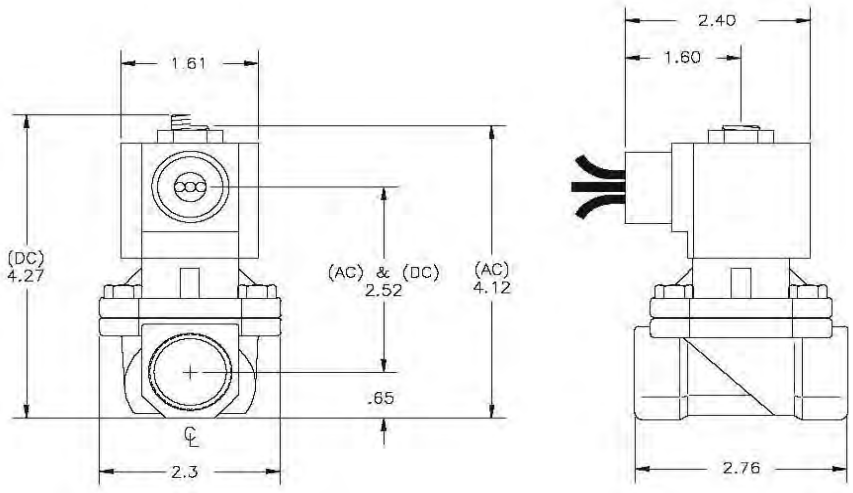
- 3/4" NPT
- Nylon Body
- 2-Way Zero Differential Piloted Diaphragm
- Normally Closed

Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot	Stainless Steel
		Main	Noryl
Electrical	Housing:		NEMA 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Svc. for available options.
	Voltage:		24,120,240, VAC, 60 and/or 50 Hz. Available. 6, 12, 24 VDC Contact GC Valves Customer Svc. for available options.
	Voltage Tolerance:		± 10% of applicable voltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inches
Operating Temperature	Ambient (Nominal):		32° F to 125° F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions / Weight

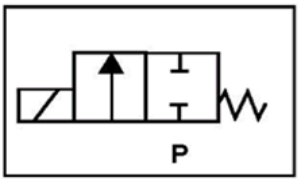
Weight (lbs.)
1.1

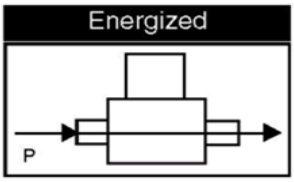


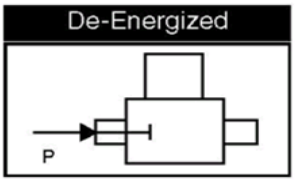
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

Valve Selection List

Normally Closed







Pipe Size NPT	Orifice Size IN	C_V	Operating Pressure Differential (psi) Minimum	Maximum Air/Gas AC	Air/Gas DC	Water AC	Water DC	Light Oil AC	Light Oil DC	Steam* AC	Max Fluid Temp. °F	Seal Material	Power Consumption (Watts) AC	Power Consumption (Watts) DC	Model Code (120V/60HZ — 110V/50HZ Shown) Noryl Body
3/4	3/4	6.7	0	—	—	100	90	—	—	—	295	Santo EPR	10	10	NS201GF02FPEG5

*** Class H Coil Recommended for Steam and Other High Temperature Applications**

Part Numbering

1 2 3 4	5	6	7	8 9	10	11	12	13 14
N S 2 0	1	G	F	0 2	F	P	E	G 5
Series	Operating Mode	Housing*	Coil Class*	Voltage*	Seal Material	Body Material	Pipe Connection	Orifice Size
NS20	1: Normally Closed	G: 1/2" Conduit	F: Class F N: Class N	02: 110/120 50/60 Hz 10 Watt	F: Santoprene/ EPDM	P: Noryl	E: 3/4" NPT	G5: 3/4"

Coil Data

Coil Family

Type	Size
All	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	18	23

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS211 Series

Certified to NSF/ANSI/CAN 61-G & 372

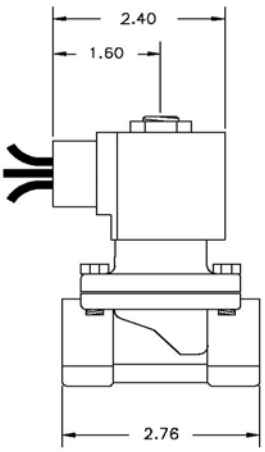
- 3/4" NPT
- 316 SS Body
- 2-Way
  Piloted Diaphragm
- Normally Closed

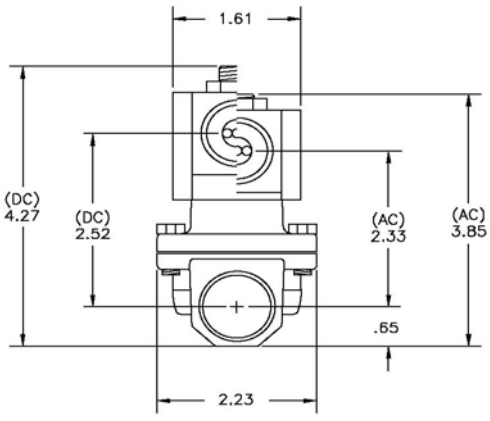
Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot	Stainless Steel
		Main	Stainless Steel
Electrical	Housing:		NEMA 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Svc. for available options.
	Voltage:		24,120,240, VAC, 60 and/or 50 Hz. Available. 6, 12, 24 VDC Contact GC Valves Customer Svc. for available options.
	Voltage Tolerance:		± 10% of applicable voltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inches
Operating Temperature	Ambient (Nominal):		32° F to 125° F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions / Weight

Weight (lbs.)
1.9

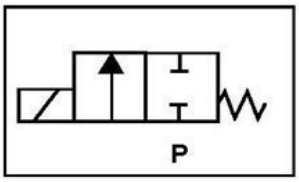


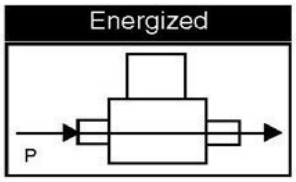


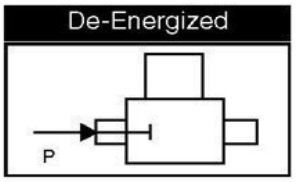
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

Valve Selection List

Normally Closed







Pipe Size	Orifice Size		Operating Pressure Differential (psi)										Power Consumption (Watts)		Model Code (120V/60HZ — 110V/50HZ Shown)
			Minimum	Maximum							Max Fluid Temp.	Seal Material			
				Air/Gas		Water		Light Oil		Steam*					
NPT	IN	C_V		AC	DC	AC	DC	AC	DC	AC	°F		AC	DC	Stainless Steel Body Type 316
3/4"	3/4"	6.7	4	—	—	150	100	—	—	—	295	Santo EPR	8	10	NS211GF02F7EG5

*** Class H Coil Recommended for Steam and Other High Temperature Applications**

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	2	1	1	G	F	0	2	F	7	E	G	5
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS21				1: Normally Closed	G: 1/2" Conduit	F: Class F N: Class N	02: 110/120 50/60 Hz 10 Watt		F: Santoprene/ EPDM	7: S. Steel	E: 3/4"	G5: 3/4"	

Coil Data

Coil Family

Type	Size
AC	S3
DC	S4

		60	50
Frequency (Hz)			
Nominal Power (VA)	Inrush	46	46
	Holding	18	23

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS211 Series

Certified to NSF/ANSI/CAN 61-G & 372

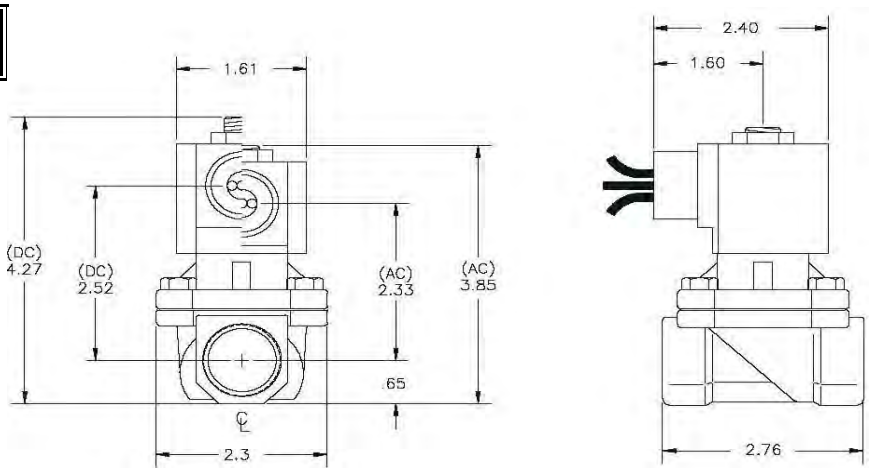
- 3/4" NPT
- Nylon Body
- 2-Way
  Piloted Diaphragm
- Normally Closed

Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot	Stainless Steel
		Main	Noryl
Electrical	Housing:		NEMA 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Svc. for available options.
	Voltage:		24,120,240, VAC, 60 and/or 50 Hz. Available. 6, 12, 24 VDC Contact GC Valves Customer Svc. for available options.
	Voltage Tolerance:		± 10% of applicable voltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inches
Operating Temperature	Ambient (Nominal):		32° F to 125° F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions / Weight

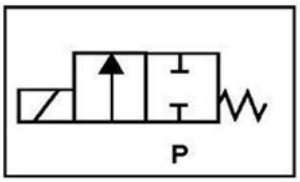
Weight (lbs.)
1



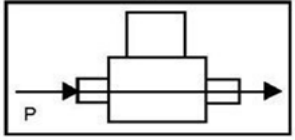
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

Valve Selection List

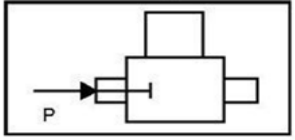
Normally Closed



Energized



De-Energized



Pipe Size	Orifice Size		Operating Pressure Differential (psi)								Max Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ — 110V/50HZ Shown)
				Maximum											
				Air/Gas		Water		Light Oil		Steam*					
NPT	IN	C_V	Minimum	AC	DC	AC	DC	AC	DC	AC	°F		AC	DC	Noryl Body
3/4"	3/4"	6.7	4	—	—	150	100	—	—	—	295	Santo EPR	8	10	NS211GF02FPEG5

* Class H Coil Recommended for Steam and Other High Temperature Applications

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	2	1	1	G	F	0	2	F	P	E	G	5
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS21				1: Normally Closed	G: 1/2" Conduit	F: Class F N: Class N	02: 110/120 50/60 Hz 10 Watt		F: Santoprene/ EPDM	P: Noryl	E: 3/4"	G5: 3/4"	

Coil Data

Coil Family

Type	Size
AC	S3
DC	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	18	23

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS71 Series

Certified to NSF/ANSI/CAN 61-G & 372

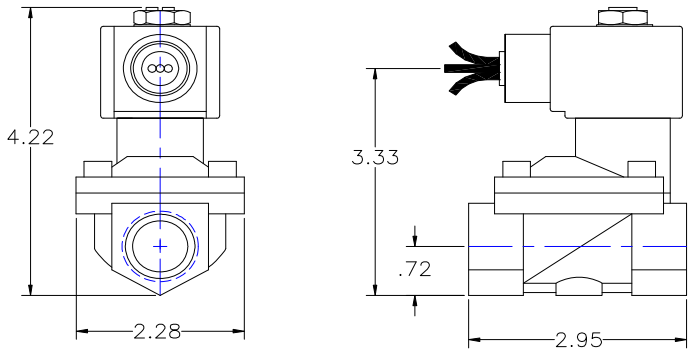
- 3/4" NPT
- Lead Free Brass Body
- 2-Way Piloted Diaphragm
- Normally Closed

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Lead Free Brass
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
3.5



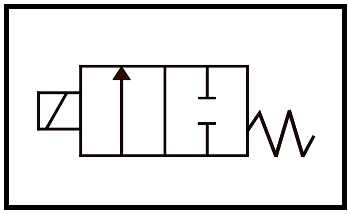
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

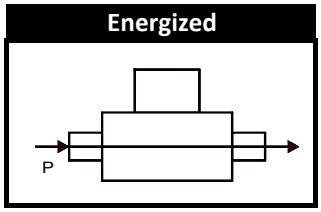
3-4-B-NS711-1

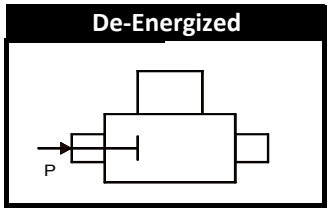
NS711 - 3/4" NPT, Lead Free Brass Body, Normally Closed

Valve Selection List

Normally Closed







Pipe Size	Orifice Size		Operating Pressure Differential (PSI)								Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum											
				Air/Gas		Water		Light Oil		Steam*					
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Lead Free Brass Body
3/4	3/4	6.7	8	200	150	150	150	---	---	50	50	295	EPR	8	9	NS711GF02C9EG5

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	7	1	1	G	F	0	2	C	9	E	G	5

Series	Operating Mode	Hsg	Coil	Voltage	Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size
NS71	1: N.C.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC	C: EPDM	9: Brass Lead Free	E: 3/4"	G5: 3/4"

Coil Data

Coil Family	
Type	Size
All	S3

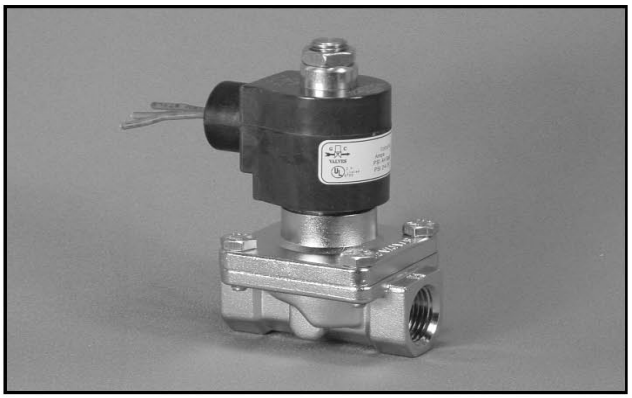
Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	13	14

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS202 Series

Certified to NSF/ANSI/CAN 61-G & 372

- 3/4" NPT
- 316 SS Body
- 2-Way Zero Differential Piloted Diaphragm
- Normally Open

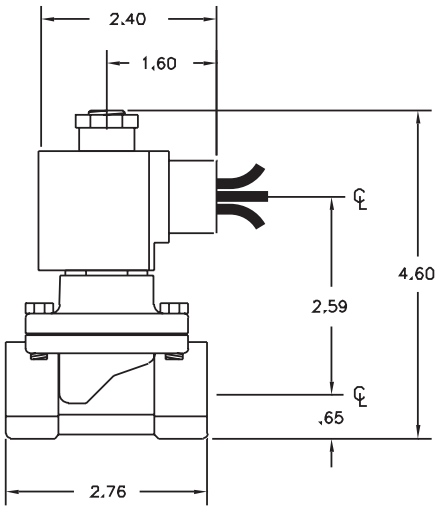


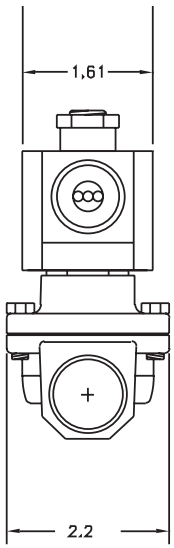
Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot	Stainless Steel
		Main	Stainless Steel
Electrical	Housing:		NEAM 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Svc. for available options.
	Voltage:		120 VAC 50/60 Hz Contact GC Valves Customer Svc. for available options.
	Voltage Tolerance:		± 10% of applicable voltage
	Coil Classes:		F, H, N
Operating Temperature	Ambient (Nominal):		32° F to 125° F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions / Weight

Weight (lbs.)
2.2

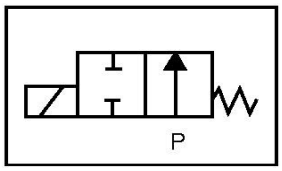




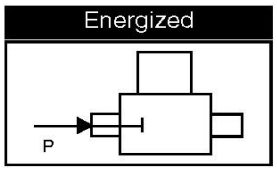
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

Valve Selection List

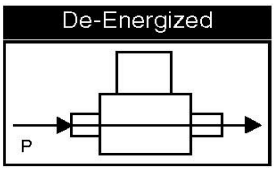
Normally Open



Energized



De-Energized



Pipe Size NPT	Orifice Size IN	C_V	Operating Pressure Differential (psi) Minimum	Maximum Air/Gas AC	Air/Gas DC	Water AC	Water DC	Light Oil AC	Light Oil DC	Steam* AC	Max Fluid Temp. °F	Seal Material	Power Consumption (Watts) AC	Power Consumption (Watts) DC	Model Code (120V/60HZ — 110V/50HZ Shown) Stainless Steel Body Type 316
3/4	3/4	6.7	0	—	—	200	125	—	—	—	295	EPR Santo	11	10	NS202GF02F7EG5

*** Class H Coil Recommended for Steam and Other High Temperature Applications**

Part Numbering

1 2 3 4	5	6	7	8 9	10	11	12	13 14
N S 2 0	2	G	F	0 2	F	7	E	G 5
Series	Operating Mode	Housing*	Coil Class*	Voltage*	Seal Material	Body Material	Pipe Connection	Orifice Size
NS20	2: Normally Open	G: 1/2" Conduit	F: Class F H: Class H	02: 120/60 110/50	F: Santo/ EPDM	7: 316 SS	E: 3/4" NPT	G5: 3/4"

* See the "Engineering Guide" for additional voltages, variations and options.

Coil Data

Coil Family

Type	Size
ALL	S4

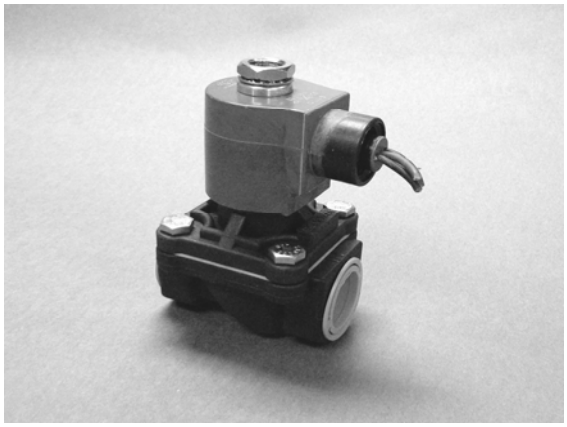
Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	22	25

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS202 Series

Certified to NSF/ANSI/CAN 61-G & 372

- 3/4" NPT
- Nylon Body
- 2-Way Zero Differential Piloted Diaphragm
- Normally Open

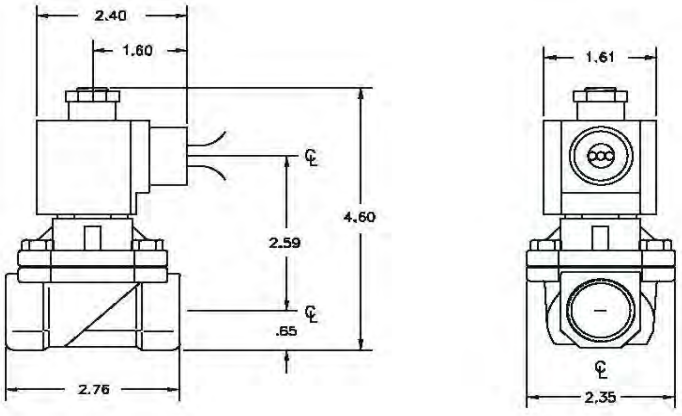


Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot	Stainless Steel
		Main	Nylon 3/4" Diameter
Electrical	Standard Housing:		NEAM 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Service for available options.
	Standard Voltages:		24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:		± 10% of applicable volltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inches
Operating Temperature	Ambient (Nominal):		32° F to 125° F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions / Weight

Weight (oz.)
16



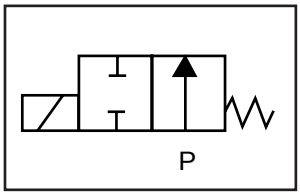
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

3/4-P-NS202-1

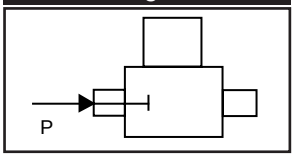
NS202 – 3/4" NPT, Nylon Body, Normally Open

Valve Selection List

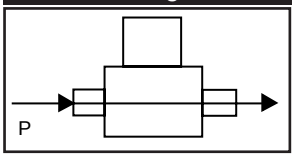
Normally Open



Energized



De-Energized



Pipe Size	Orifice Size	C_V	Operating Pressure Differential (psi)					Max Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ — 110V/50HZ Shown)
			Minimum	Maximum								
				Air/Gas		Water						
NPT	IN			AC	DC	AC	DC	°F		AC	DC	Nylon Body
3/4	3/4	6.7	0	-	-	200	125	176	EPR SANTO	11	10	NS202GF02FPEG5

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	2	0	2	G	F	0	2	F	P	E	G	5
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS20				2: Normally Open	G: Conduit	F: Class F	02: 120/60 110/50		F: SANTO/ EPDM	P: Nylon	E: 3/4" NPT	G5: 3/4"	

* See the "Engineering Guide" for additional voltages, variations and options.

Coil Data

Coil Family

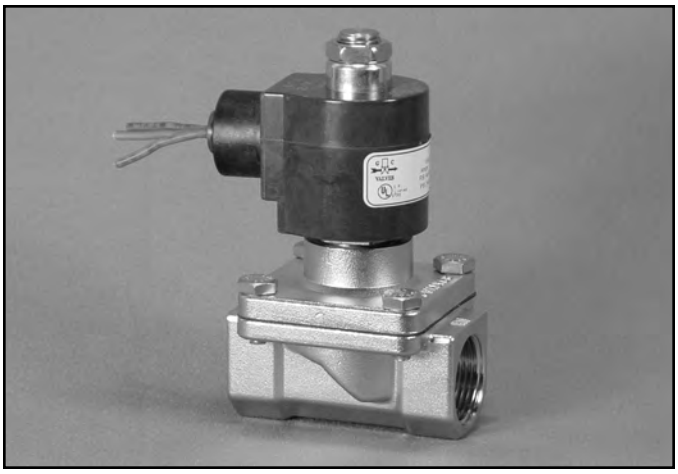
Type	Size
All	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	22	25

NS212 Series

Certified to NSF/ANSI/CAN 61-G & 372

- 3/4" NPT
- Stainless Steel Body Type 316
- 2-Way Piloted Diaphragm
- Normally Open

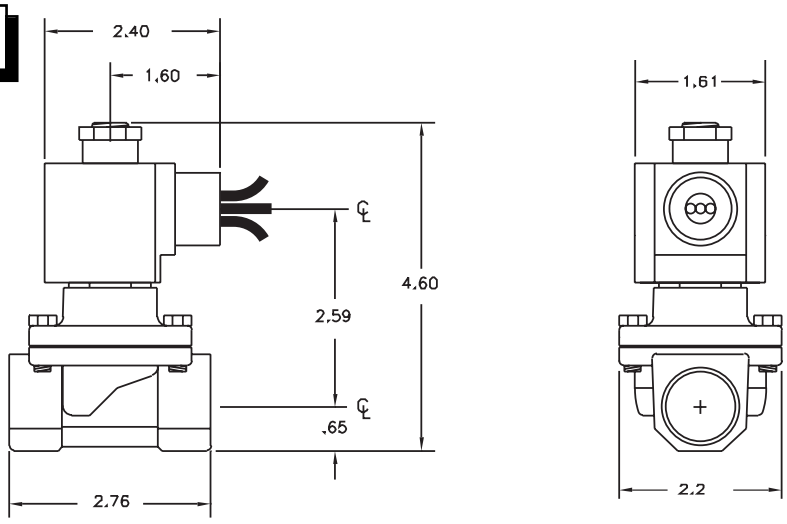


Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot Main	Stainless Steel Stainless Steel Ø 3/4”
Electrical	Standard Housing:		NEAM 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Service for available options.
	Standard Voltages:		24, 120, 240 AC 60 Hz; 50 Hz available 6, 12, 24 DC; Contact GC Valves Customer Service for Additional Voltages.
	Voltage Tolerance:		±10% of applicable voltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inch
Operating Temperature	Ambient (Nominal):		32°F to 125°F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions/Weight

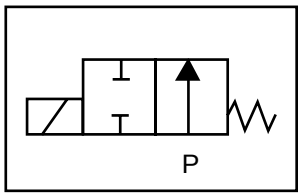
Weight (lbs.)
3.3



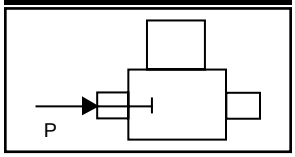
NS212 – 3/4" NPT, Stainless Steel Body, Type 316, Normally Open

Valve Selection List

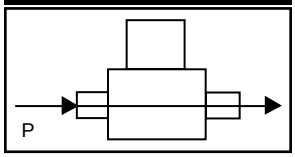
Normally Open



Energized



De-Energized



Pipe Size	Orifice Size		Operating Pressure Differential (psi)										Max Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ — 110V/50HZ Shown)
			Minimum	Maximum													
				Air/Gas		Water		Light Oil		Steam*							
				AC	DC	AC	DC	AC	DC	AC	DC				AC	DC	Stainless Steel Body Type 316
NPT	IN	C_V										°F					
3/4	3/4	6.7	3	—	—	200	125	—	—	—	—	176	EPR SANTO		11	10	NS212GF02F7EG5

*** Class H Coil Recommended for Steam and Other High Temperature Applications**

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	2	1	2	G	F	0	2	F	7	E	G	5
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS21				2: Normally Open	G: Conduit	F: Class F H: Class H	02: 120/60 110/50		F: Santo/ EPDM	7: 316 SS	E: 3/4" NPT	G5: 3/4"	

* See the "Engineering Guide" for additional voltages, variations and options.

Coil Data

Coil Family

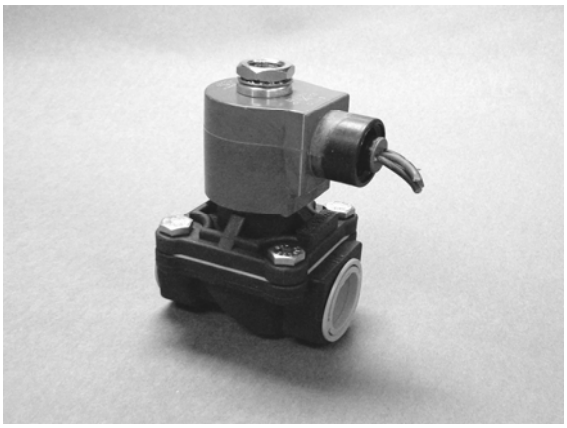
Type	Size
ALL	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	22	25

NS212 Series

Certified to NSF/ANSI/CAN 61-G & 372

- 3/4" NPT
- Nylon Body
- 2-Way Piloted Diaphragm
- Normally Open

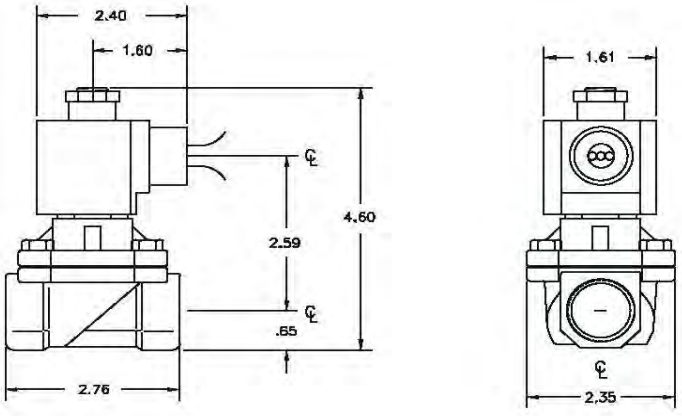


Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot	Stainless Steel
		Main	Nylon 3/4" Diameter
Electrical	Standard Housing:		NEAM 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Service for available options.
	Standard Voltages:		24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:		± 10% of applicable volltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inches
Operating Temperature	Ambient (Nominal):		32° F to 125° F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions / Weight

Weight (oz.)
16



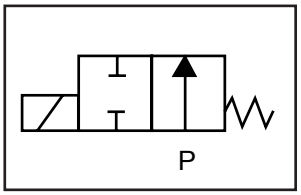
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

3/4-P-NS212-1

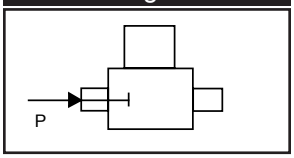
NS212 – 3/4" NPT, Nylon Body, Normally Open

Valve Selection List

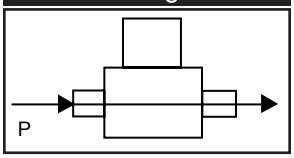
Normally Open



Energized



De-Energized



Pipe Size	Orifice Size		Operating Pressure Differential (psi)					Max Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ — 110V/50HZ Shown)
				Maximum								
				Air/Gas		Water						
NPT	IN	C_V	Minimum	AC	DC	AC	DC	°F		AC	DC	Nylon Body
3/4	3/4	6.7	3	-	-	150	140	176	EPR SANTO	9	9	NS212GF02FPEG9

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	2	1	2	G	F	0	2	F	P	E	G	9
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS21				2: Normally Open	G: Conduit	F: Class F	02: 120/60 110/50		F: SANTO/ EPDM	P: Nylon	E: 3/4" NPT	G5:3/4"	

* See the "Engineering Guide" for additional voltages, variations and options.

Coil Data

Coil Family

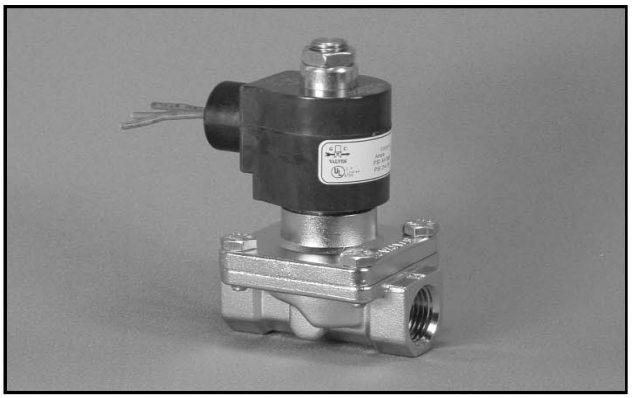
Type	Size
ALL	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	22	25

NS202 Series

Certified to NSF/ANSI/CAN 61-G & 372

- 3/4" NPT
- 316 SS Body
- 2-Way Zero Differential Piloted Diaphragm
- Normally Open

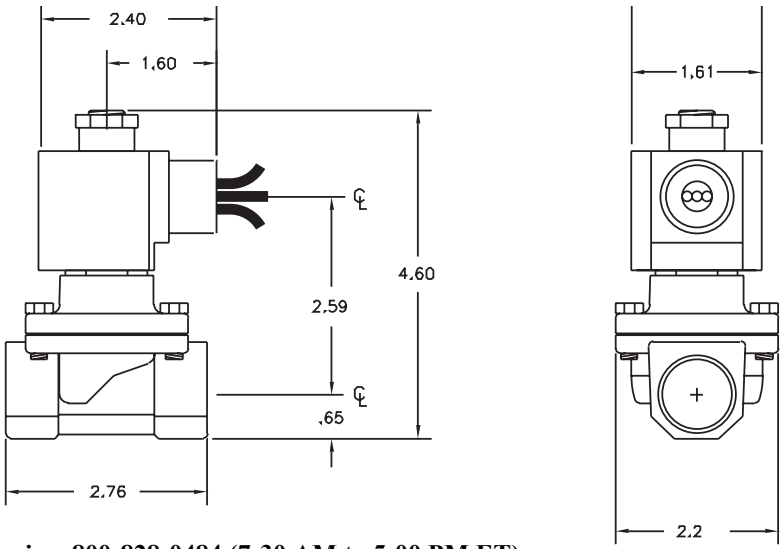


Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot	Stainless Steel
		Main	Stainless Steel
Electrical	Housing:		NEAM 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Svc. for available options.
	Voltage:		120 VAC 50/60 Hz Contact GC Valves Customer Svc. for available options.
	Voltage Tolerance:		± 10% of applicable voltage
	Coil Classes:		F, H, N
Operating Temperature	Ambient (Nominal):		32° F to 125° F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions / Weight

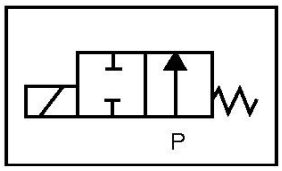
Weight (lbs.)
2.2



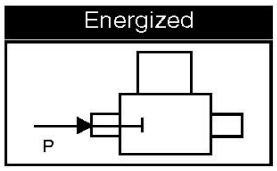
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

Valve Selection List

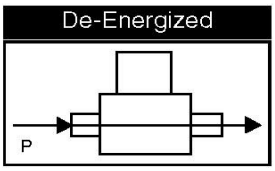
Normally Open



Energized



De-Energized



Pipe Size NPT	Orifice Size IN	C_V	Operating Pressure Differential (psi) Minimum	Maximum Air/Gas AC	Maximum Air/Gas DC	Maximum Water AC	Maximum Water DC	Maximum Light Oil AC	Maximum Light Oil DC	Maximum Steam* AC	Max Fluid Temp. °F	Seal Material	Power Consumption (Watts) AC	Power Consumption (Watts) DC	Model Code (120V/60HZ — 110V/50HZ Shown) Stainless Steel Body Type 316
3/4	3/4	6.7	0	—	—	200	125	—	—	—	295	EPR Santo	11	10	NS202GF02F7EG5

*** Class H Coil Recommended for Steam and Other High Temperature Applications**

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	2	0	2	G	F	0	2	F	7	E	G	5
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS20				2: Normally Open	G: 1/2" Conduit	F: Class F H: Class H	02: 120/60 110/50		F: Santo/ EPDM	7: 316 SS	E: 3/4" NPT	G5: 3/4"	

* See the "Engineering Guide" for additional voltages, variations and options.

Coil Data

Coil Family

Type	Size
ALL	S4

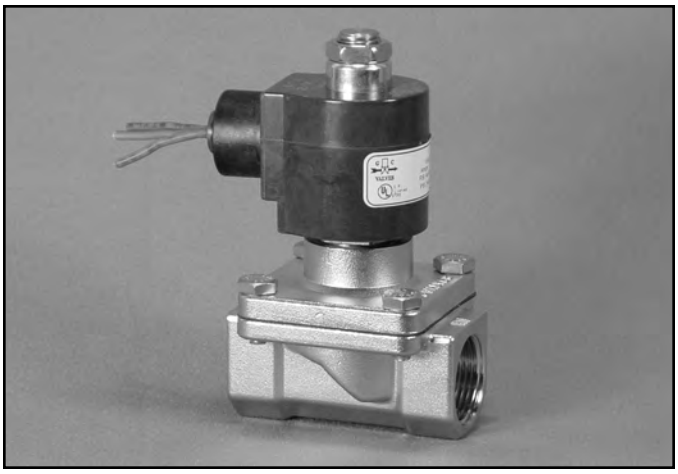
Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	22	25

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS212 Series

Certified to NSF/ANSI/CAN 61-G & 372

- 3/4" NPT
- Stainless Steel Body Type 316
- 2-Way Piloted Diaphragm
- Normally Open

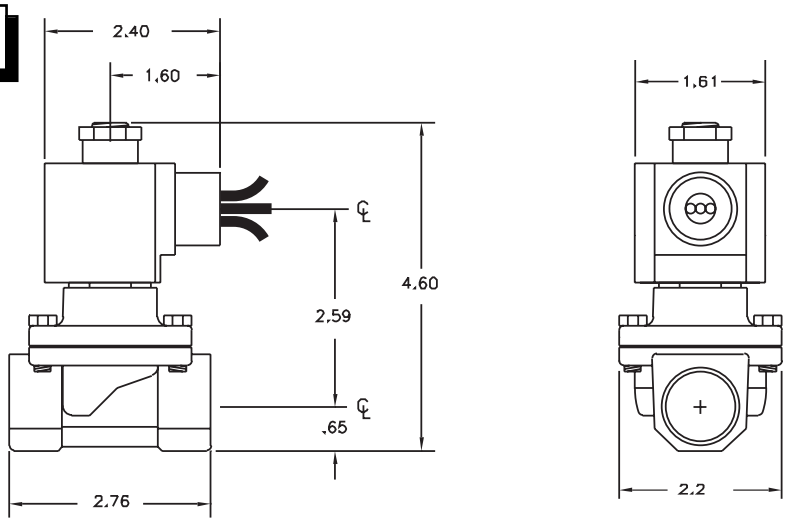


Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot Main	Stainless Steel Stainless Steel Ø 3/4”
Electrical	Standard Housing:		NEAM 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Service for available options.
	Standard Voltages:		24, 120, 240 AC 60 Hz; 50 Hz available 6, 12, 24 DC; Contact GC Valves Customer Service for Additional Voltages.
	Voltage Tolerance:		±10% of applicable voltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inch
Operating Temperature	Ambient (Nominal):		32°F to 125°F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions/Weight

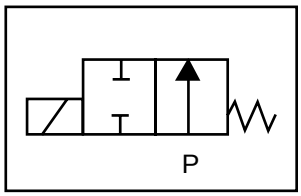
Weight (lbs.)
3.3



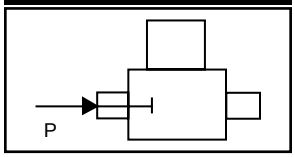
NS212 – 3/4" NPT, Stainless Steel Body, Type 316, Normally Open

Valve Selection List

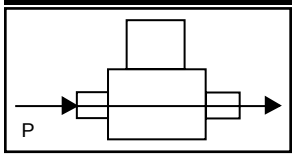
Normally Open



Energized



De-Energized



Pipe Size	Orifice Size		Operating Pressure Differential (psi)										Max Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ — 110V/50HZ Shown)
				Maximum													
				Air/Gas		Water		Light Oil		Steam*							
			Minimum	AC	DC	AC	DC	AC	DC	AC	DC				AC	DC	Stainless Steel Body Type 316
NPT	IN	C_V										°F					
3/4	3/4	6.7	3	—	—	200	125	—	—	—	—	176	EPR SANTO		11	10	NS212GF02F7EG5

*** Class H Coil Recommended for Steam and Other High Temperature Applications**

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	2	1	2	G	F	0	2	F	7	E	G	5
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS21				2: Normally Open	G: Conduit	F: Class F H: Class H	02: 120/60 110/50		F: Santo/ EPDM	7: 316 SS	E: 3/4" NPT	G5: 3/4"	

* See the "Engineering Guide" for additional voltages, variations and options.

Coil Data

Coil Family

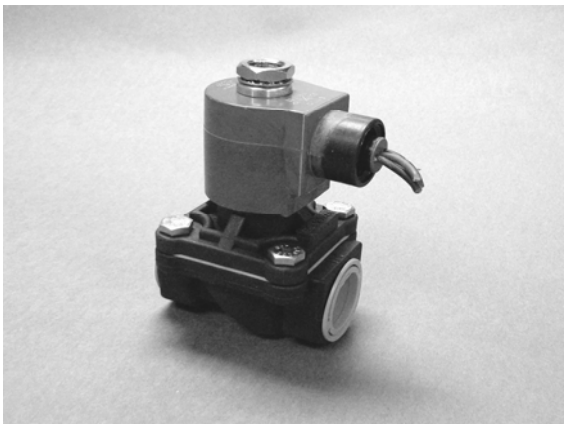
Type	Size
ALL	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	22	25

NS202 Series

Certified to NSF/ANSI/CAN 61-G & 372

- 3/4" NPT
- Nylon Body
- 2-Way Zero Differential Piloted Diaphragm
- Normally Open

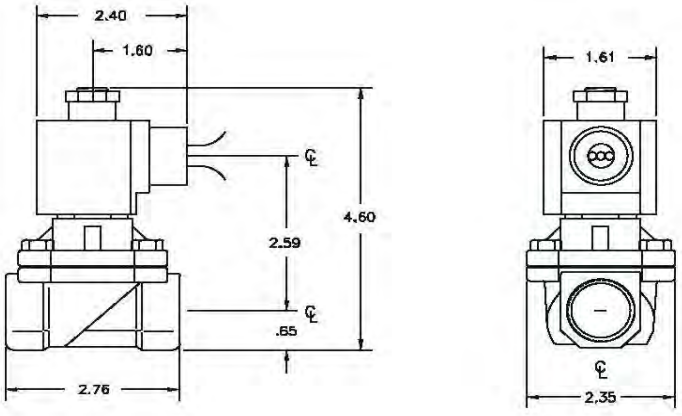


Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot	Stainless Steel
		Main	Nylon 3/4" Diameter
Electrical	Standard Housing:		NEAM 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Service for available options.
	Standard Voltages:		24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:		± 10% of applicable volltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inches
Operating Temperature	Ambient (Nominal):		32° F to 125° F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions / Weight

Weight (oz.)
16



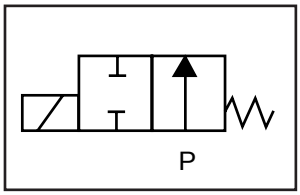
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

3/4-P-NS202-1

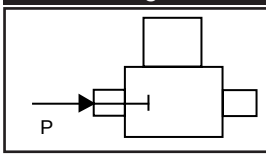
NS202 – 3/4" NPT, Nylon Body, Normally Open

Valve Selection List

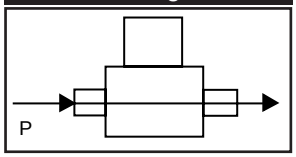
Normally Open



Energized



De-Energized



Pipe Size	Orifice Size	C_V	Operating Pressure Differential (psi)					Max Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ — 110V/50HZ Shown)
			Minimum	Maximum								
				Air/Gas		Water						
NPT	IN			AC	DC	AC	DC	°F		AC	DC	Nylon Body
3/4	3/4	6.7	0	-	-	200	125	176	EPR SANTO	11	10	NS202GF02FPEG5

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	2	0	2	G	F	0	2	F	P	E	G	5
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS20				2: Normally Open	G: Conduit	F: Class F	02: 120/60 110/50		F: SANTO/ EPDM	P: Nylon	E: 3/4" NPT	G5: 3/4"	

* See the "Engineering Guide" for additional voltages, variations and options.

Coil Data

Coil Family

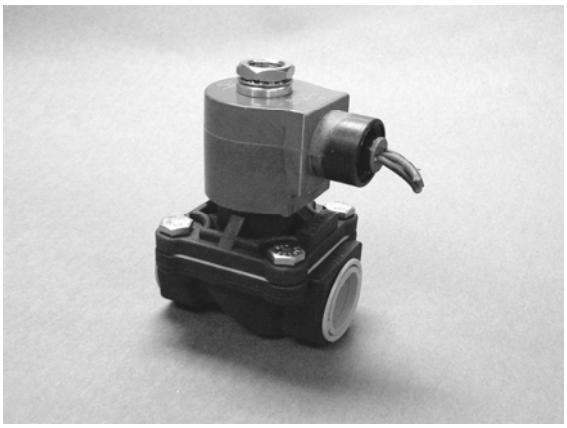
Type	Size
All	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	22	25

NS212 Series

Certified to NSF/ANSI/CAN 61-G & 372

- 3/4" NPT
- Nylon Body
- 2-Way
  Piloted Diaphragm
- Normally Open

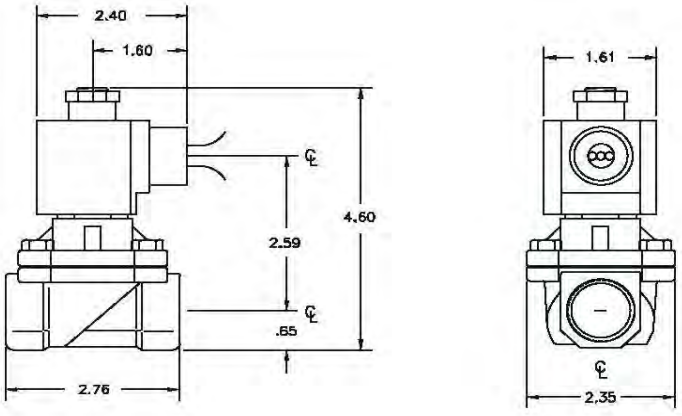


Materials	Seals:		Santoprene/NSF Approved EPDM
	Orifice:	Pilot	Stainless Steel
		Main	Nylon 3/4" Diameter
Electrical	Standard Housing:		NEAM 4/4X Encapsulated - 1/2" Conduit
	Optional Housings:		Contact GC Valves Customer Service for available options.
	Standard Voltages:		24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:		± 10% of applicable volltage
	Coil Classes:		F, H, N
	Standard Lead Length:		24 inches
Operating Temperature	Ambient (Nominal):		32° F to 125° F
Mounting	Position:		Any
Approvals*	Agency:		NSF/ANSI - 61-G / NSF-372 / UR Recognized

* Not available for all variations

Dimensions / Weight

Weight (oz.)
16



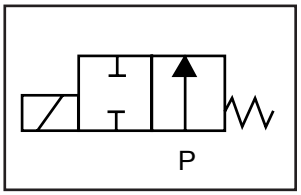
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

3/4-P-NS212-1

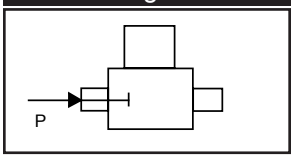
NS212 – 3/4" NPT, Nylon Body, Normally Open

Valve Selection List

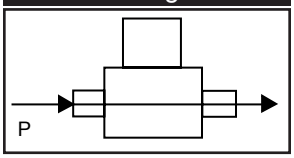
Normally Open



Energized



De-Energized



Pipe Size	Orifice Size		Operating Pressure Differential (psi)					Max Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ — 110V/50HZ Shown)
				Maximum								
				Air/Gas		Water						
NPT	IN	C_V	Minimum	AC	DC	AC	DC	°F		AC	DC	Nylon Body
3/4	3/4	6.7	3	-	-	150	140	176	EPR SANTO	9	9	NS212GF02FPEG9

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13	14
N	S	2	1	2	G	F	0	2	F	P	E	G	9
Series				Operating Mode	Housing*	Coil Class*	Voltage*		Seal Material	Body Material	Pipe Connection	Orifice Size	
NS21				2: Normally Open	G: Conduit	F: Class F	02: 120/60 110/50		F: SANTO/ EPDM	P: Nylon	E: 3/4" NPT	G5:3/4"	

* See the "Engineering Guide" for additional voltages, variations and options.

Coil Data

Coil Family

Type	Size
ALL	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	22	25

NS71 Series

Certified to NSF/ANSI/CAN 61-G & 372

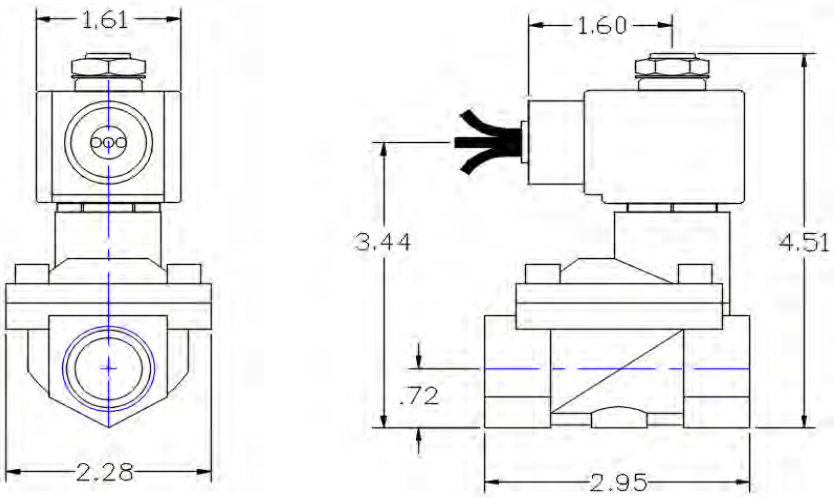
- 3/4" NPT
- Lead Free Brass Body
- 2-Way Piloted Diaphragm
- Normally Open

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Lead Free Brass
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
3.5



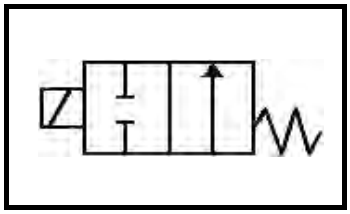
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

3-4-B-NS712-1

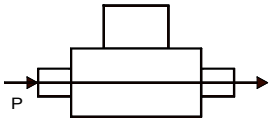
NS712 - 3/4" NPT, Lead Free Brass Body, Normally Open

Valve Selection List

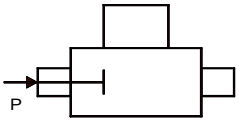
Normally Open



De-Energized



Energized



Pipe Size	Orifice Size		Operating Pressure Differential (PSI)									Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum												
				Air/Gas		Water		Light Oil		Steam*						
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Lead Free Brass Body
3/4	3/4	6.7	7	200	150	200	150	---	---	50	50	295	EPR	8	9	NS712GF02C9EG5

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	**7**	**1**	**2**	**G**	**F**	**0**	**2**	**C**	**9**	**E**	**G**	**5**

Series	Operating Mode	Hsg	Coil	Voltage	Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size
NS71	2: N.O.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC	C: EPDM	9: Brass Lead Free	E: 3/4"	G5: 3/4"

Coil Data

Coil Family	
Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	18	19

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

3-4-B-NS712-2

NS20 Series

Certified to NSF/ANSI/CAN 61-G & 372

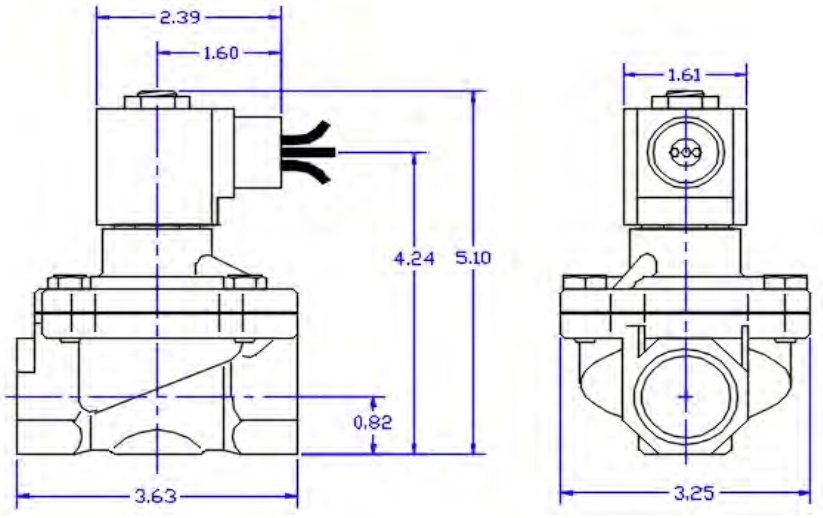
- 1" NPT
- 316 Stainless Steel Body
- 2-Way Zero Differential Piloted Diaphragm
- Normally Closed

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Stainless Steel
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
4.0



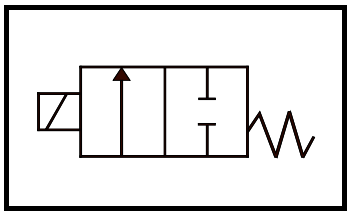
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

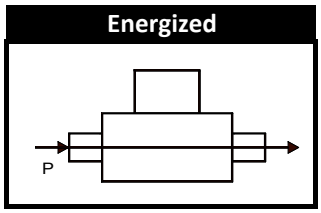
1-S-NS201-1

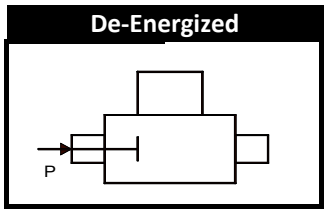
NS201 - 1" NPT, Stainless Steel Body, Normally Closed

Valve Selection List

Normally Closed







Pipe Size	Orifice Size		Operating Pressure Differential (PSI)									Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum												
				Air/Gas		Water		Light Oil		Steam*						
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Stainless Steel Body
1	1	11	0	100	100	100	100	---	---	50	50	295	EPR	10	10	NS201GF02C7FG9

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	**2**	**0**	**1**	**G**	**F**	**0**	**2**	**C**	**7**	**F**	**G**	**9**
Series			Operating Mode	Hsg	Coil	Voltage		Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size	
NS20			1: N.C.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC		C: EPDM	7: 316 SS	F: 1"	G9: 1"	

Coil Data

Coil Family	
Type	Size
All	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	18	19

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS20 Series

Certified to NSF/ANSI/CAN 61-G & 372

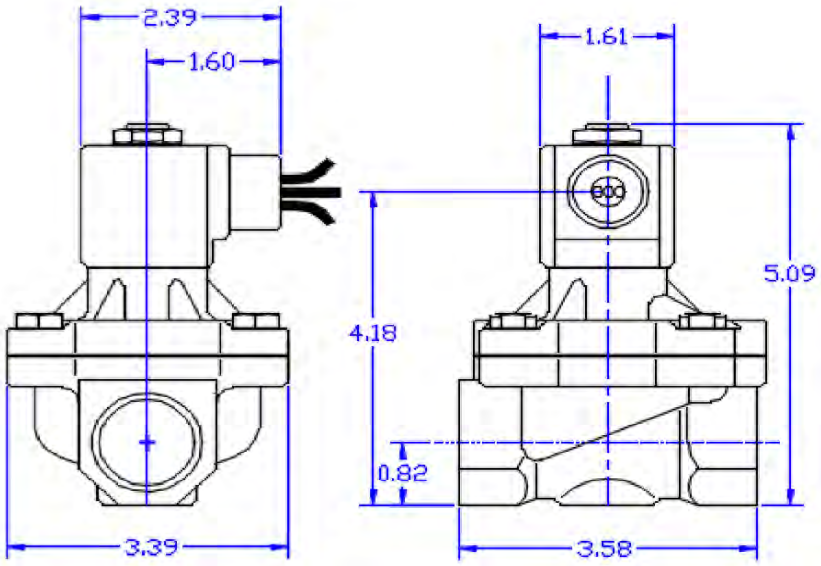
- 1" NPT
- Nylon Body
- 2-Way Zero Differential
- Piloted Diaphragm
- Normally Closed

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Nylon
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
3.8



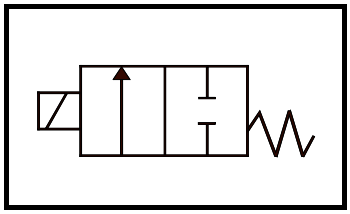
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

1-P-NS201-1

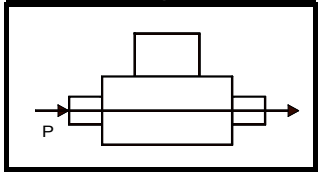
NS201 - 1" NPT, Nylon Body, Normally Closed

Valve Selection List

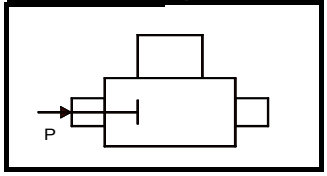
Normally Closed



Energized



De-Energized



Pipe Size	Orifice Size		Operating Pressure Differential (PSI)									Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum												
				Air/Gas		Water		Light Oil		Steam*						
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Nylon Body
1	1	11	0	100	100	100	100	---	---	---	---	295	EPR	10	10	NS201GF02CPFG9

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	**2**	**0**	**1**	**G**	**F**	**0**	**2**	**C**	**P**	**F**	**G**	**9**

Series	Operating Mode	Hsg	Coil	Voltage	Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size
NS20	1: N.C.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC	C: EPDM	P: Nylon	F: 1"	G9: 1"

Coil Data

Coil Family	
Type	Size
All	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	18	19

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS21 Series

Certified to NSF/ANSI/CAN 61-G & 372

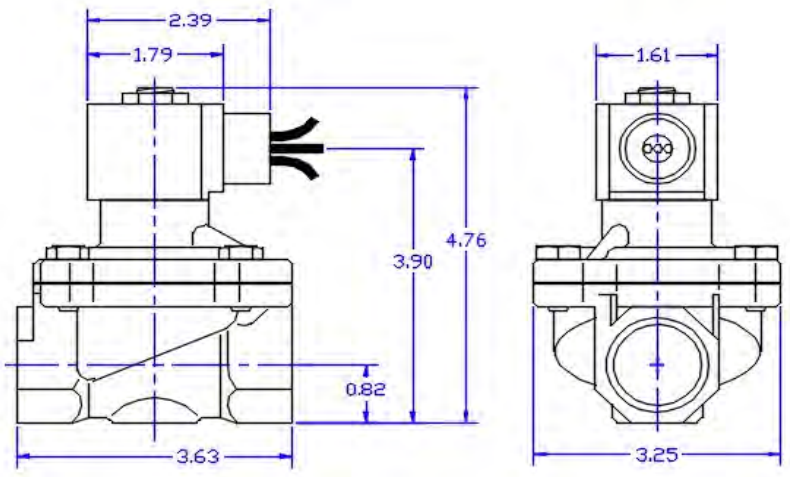
- 1" NPT
- 316 Stainless Steel Body
- 2-Way Piloted Diaphragm
- Normally Closed

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Stainless Steel
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
3.9



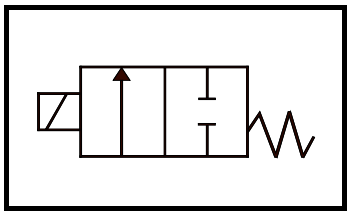
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

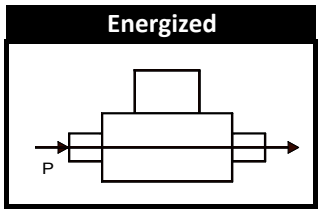
1-S-NS211-1

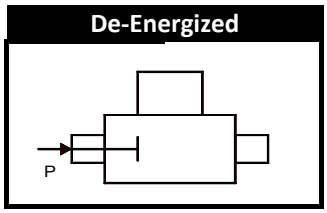
NS211 - 1" NPT, Stainless Steel Body, Normally Closed

Valve Selection List

Normally Closed







Pipe Size	Orifice Size		Operating Pressure Differential (PSI)									Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum												
				Air/Gas		Water		Light Oil		Steam*						
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Stainless Steel Body
1	1	13	5	200	150	150	150	---	---	50	50	295	EPR	8	9	NS211GF02C7FG9

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	2	1	1	G	F	0	2	C	7	F	G	9
Series			Operating Mode	Hsg	Coil	Voltage		Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size	
NS21			1: N.C.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC		C: EPDM	7: 316 SS	F: 1"	G9: 1"	

Coil Data

Coil Family	
Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	13	14

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS21 Series

Certified to NSF/ANSI/CAN 61-G & 372

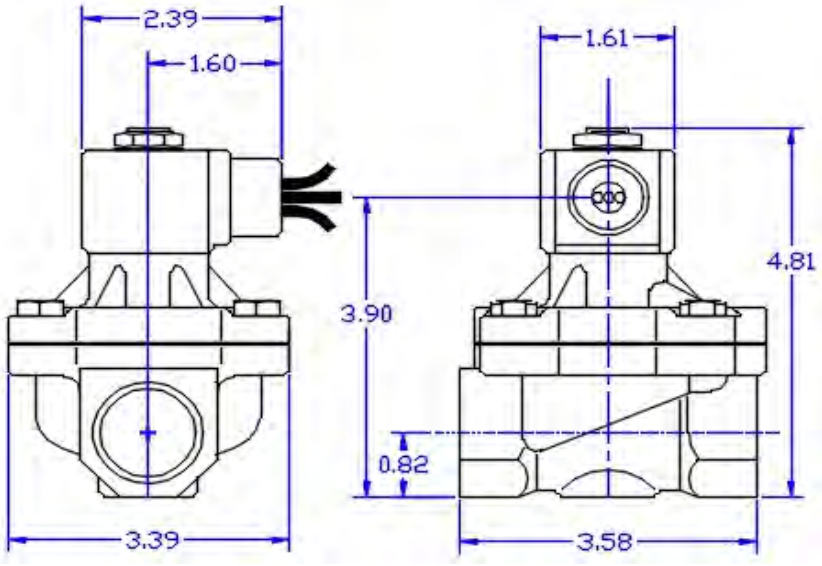
- 1" NPT
- Nylon Body
- 2-Way
- Piloted Diaphragm
- Normally Closed

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Nylon
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
1.7



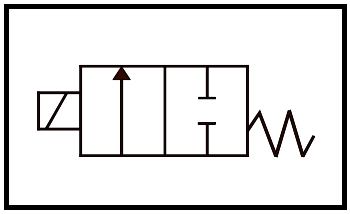
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

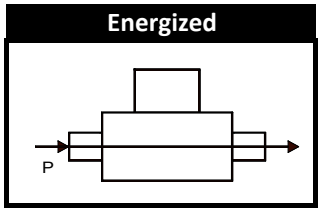
1-P-NS211-1

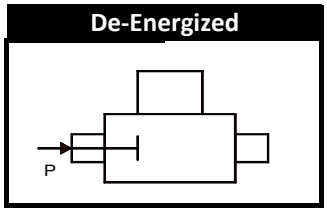
NS211 - 1" NPT, Nylon Body, Normally Closed

Valve Selection List

Normally Closed







Pipe Size	Orifice Size		Operating Pressure Differential (PSI)								Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum											
				Air/Gas		Water		Light Oil		Steam*					
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Nylon Body
1	1	13	5	200	150	150	150	---	---	---	---	295	EPR	8	9	NS211GF02CPFG9

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	2	1	1	G	F	0	2	C	P	F	G	9

Series	Operating Mode	Hsg	Coil	Voltage	Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size
NS21	1: N.C.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC	C: EPDM	P: Nylon	F: 1"	G9: 1"

Coil Data

Coil Family	
Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	13	14

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS21 Series

Certified to NSF/ANSI/CAN 61-G & 372

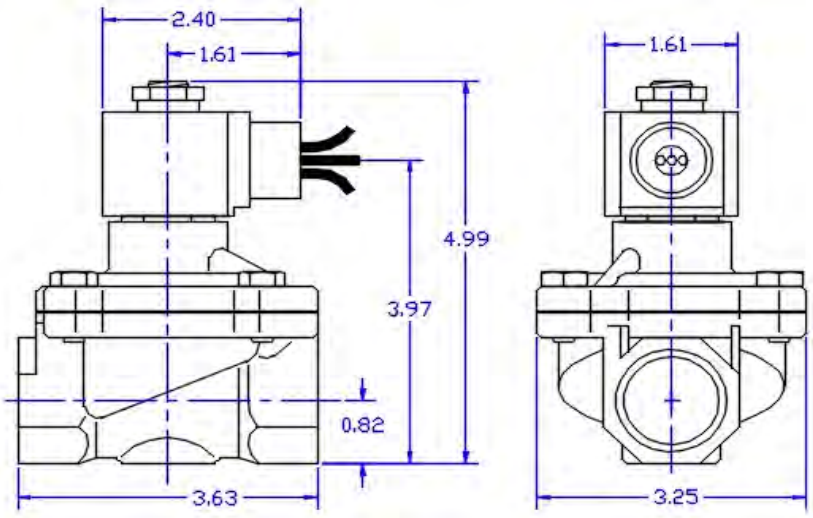
- 1" NPT
- 316 Stainless Steel Body
- 2-Way Piloted Diaphragm
- Normally Open

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Stainless Steel
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
3.9



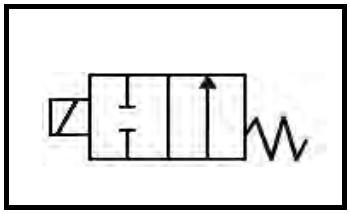
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

1-S-NS212-1

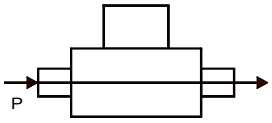
NS212 - 1" NPT, Stainless Steel Body, Normally Open

Valve Selection List

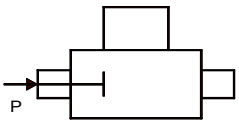
Normally Open



De-Energized



Energized



Pipe Size	Orifice Size		Operating Pressure Differential (PSI)								Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum											
				Air/Gas		Water		Light Oil		Steam*					
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Stainless Steel Body
1	1	13	5	200	150	150	150	---	---	50	50	295	EPR	9	9	NS212GF02C7FG9

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	**2**	**1**	**2**	**G**	**F**	**0**	**2**	**C**	**7**	**F**	**G**	**9**

Series	Operating Mode	Hsg	Coil	Voltage	Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size
NS21	1: N.O.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC	C: EPDM	7: 316 SS	F: 1"	G9: 1"

Coil Data

Coil Family	
Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	18	19

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS21 Series

Certified to NSF/ANSI/CAN 61-G & 372

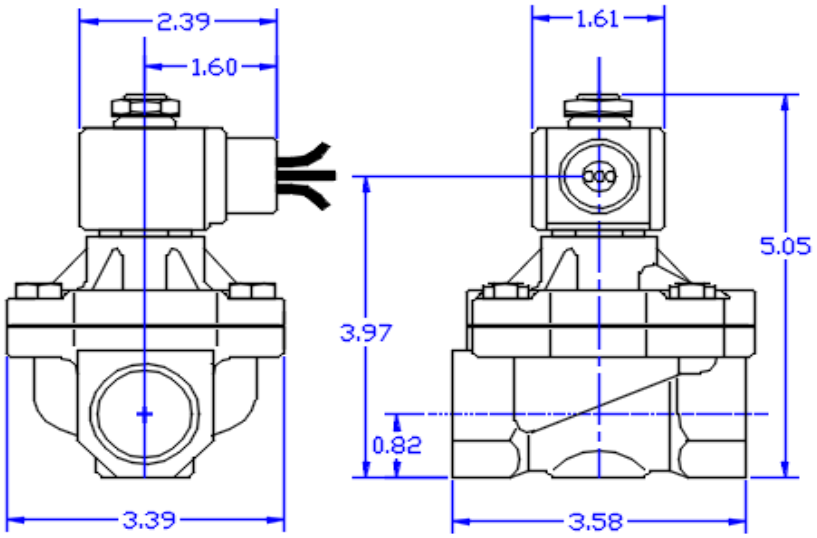
- 1" NPT
- Nylon Body
- 2-Way
- Piloted Diaphragm
- Normally Open

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Nylon
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
1.7



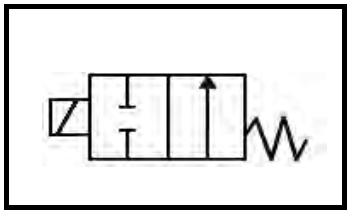
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

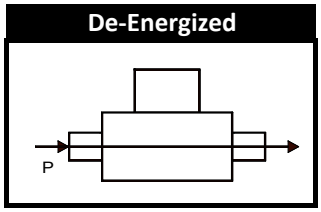
1-P-NS212-1

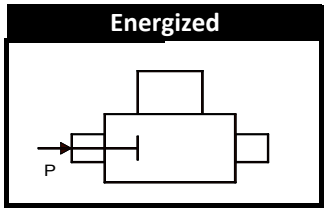
NS212 - 1" NPT, Nylon Body, Normally Open

Valve Selection List

Normally Closed







Pipe Size	Orifice Size		Operating Pressure Differential (PSI)								Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum											
				Air/Gas		Water		Light Oil		Steam*					
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Nylon Body
1	1	13	5	200	150	150	150	---	---	50	50	295	EPR	9	9	NS212GF02CPFG9

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	**2**	**1**	**2**	**G**	**F**	**0**	**2**	**C**	**P**	**F**	**G**	**9**

Series	Operating Mode	Hsg	Coil	Voltage	Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size
NS21	2: N.O.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC	C: EPDM	P: Nylon	F: 1"	G9: 1"

Coil Data

Coil Family	
Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	18	19

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS71 Series

Certified to NSF/ANSI/CAN 61-G & 372

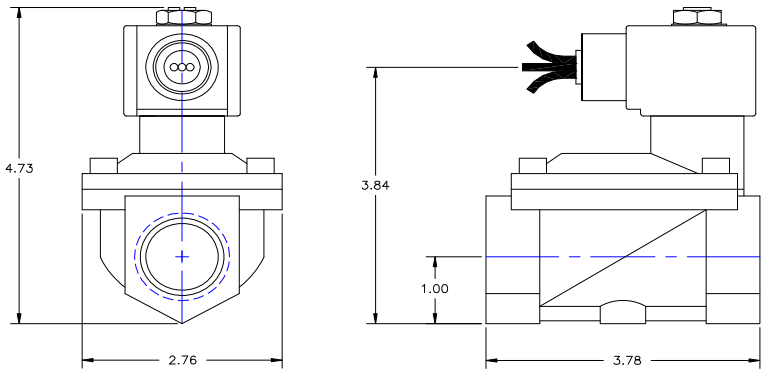
- 1" NPT
- Lead Free Brass Body
- 2-Way Piloted Diaphragm
- Normally Closed

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Lead Free Brass
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
6.6



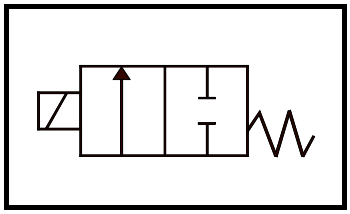
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

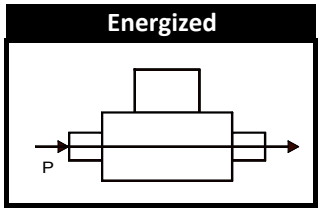
1-B-NS711-1

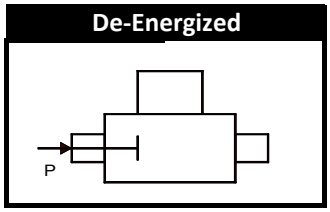
NS711 - 1" NPT, Lead Free Brass Body, Normally Closed

Valve Selection List

Normally Closed







Pipe Size	Orifice Size		Operating Pressure Differential (PSI)								Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum											
				Air/Gas		Water		Light Oil		Steam*					
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Lead Free Brass Body
1	1	13	8	200	150	150	150	---	---	50	50	295	EPR	8	9	NS711GF02C9FG9

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	7	1	1	G	F	0	2	C	9	F	G	9

Series	Operating Mode	Hsg	Coil	Voltage	Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size
NS71	1: N.C.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC	C: EPDM	9: Brass Lead Free	F: 1"	G9: 1"

Coil Data

Coil Family	
Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	13	14

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS71 Series

Certified to NSF/ANSI/CAN 61-G & 372

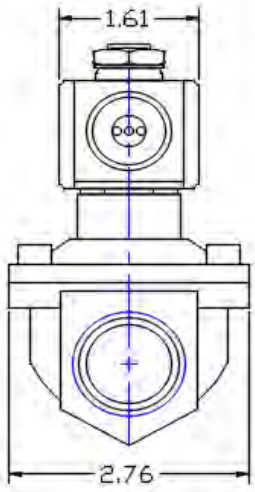
- 1" NPT
- Lead Free Brass Body
- 2-Way Piloted Diaphragm
- Normally Open

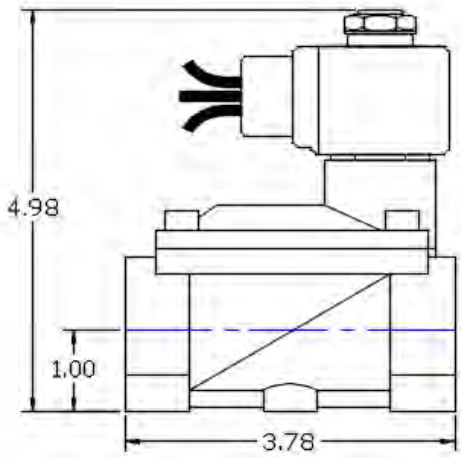
Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Lead Free Brass
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
6.6





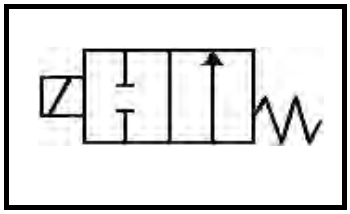
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

1-B-NS712-1

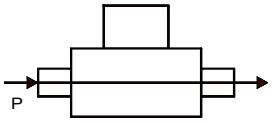
NS712 - 1" NPT, Lead Free Brass Body, Normally Open

Valve Selection List

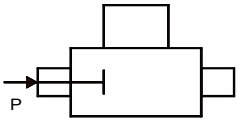
Normally Open



De-Energized



Energized



Pipe Size	Orifice Size		Operating Pressure Differential (PSI)									Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum												
				Air/Gas		Water		Light Oil		Steam*						
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Lead Free Brass Body
1	1	13	7	200	150	200	150	---	---	50	50	295	EPR	8	9	NS712GF02C9FG9

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	**7**	**1**	**2**	**G**	**F**	**0**	**2**	**C**	**9**	**F**	**G**	**9**

Series	Operating Mode	Hsg	Coil	Voltage	Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size
NS71	2: N.O.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC	C: EPDM	9: Brass Lead Free	F: 1"	G9: 1"

Coil Data

Coil Family	
Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	18	19

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS20 Series

Certified to NSF/ANSI/CAN 61-G & 372

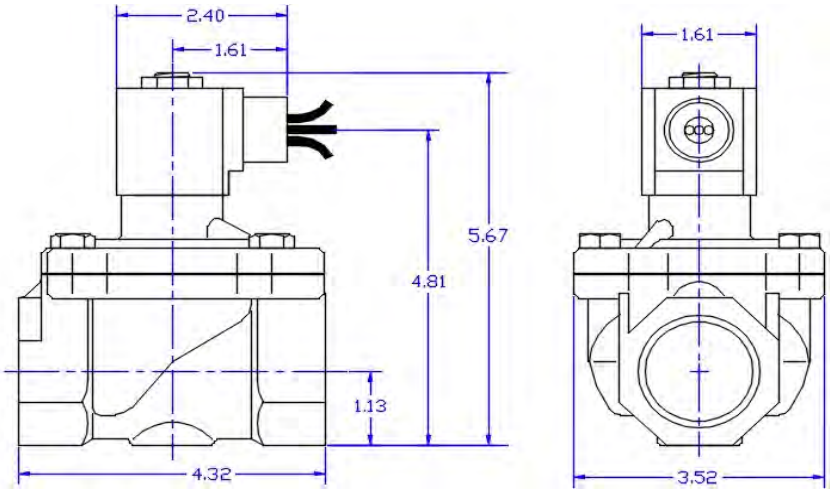
- 1 1/4" NPT
- 316 Stainless Steel Body
- 2-Way Zero Differential Piloted Diaphragm
- Normally Closed

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Stainless Steel
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
6.2



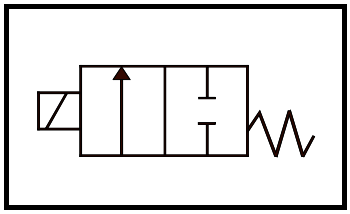
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

1.25-S-NS201-1

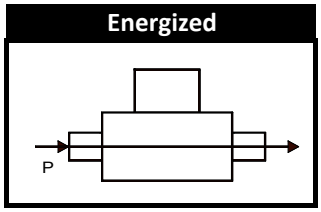
NS201 - 1 1/4" NPT, Stainless Steel Body, Normally Closed

Valve Selection List

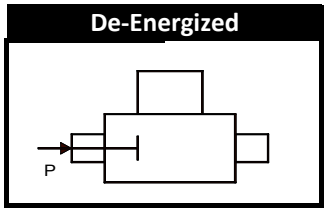
Normally Closed



Energized



De-Energized



Pipe Size	Orifice Size		Operating Pressure Differential (PSI)									Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum												
				Air/Gas		Water		Light Oil		Steam*						
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Stainless Steel Body
1 1/4	1 1/4	18	0	100	100	100	100	---	---	50	50	295	EPR	10	10	NS201GF02C7GJ2

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	**2**	**0**	**1**	**G**	**F**	**0**	**2**	**C**	**7**	**G**	**J**	**2**

Series	Operating Mode	Hsg	Coil	Voltage	Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size
NS20	1: N.C.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC	C: EPDM	7: 316 SS	G: 1 1/4"	J2: 1 1/4"

Coil Data

Coil Family	
Type	Size
All	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	18	19

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS21 Series

Certified to NSF/ANSI/CAN 61-G & 372

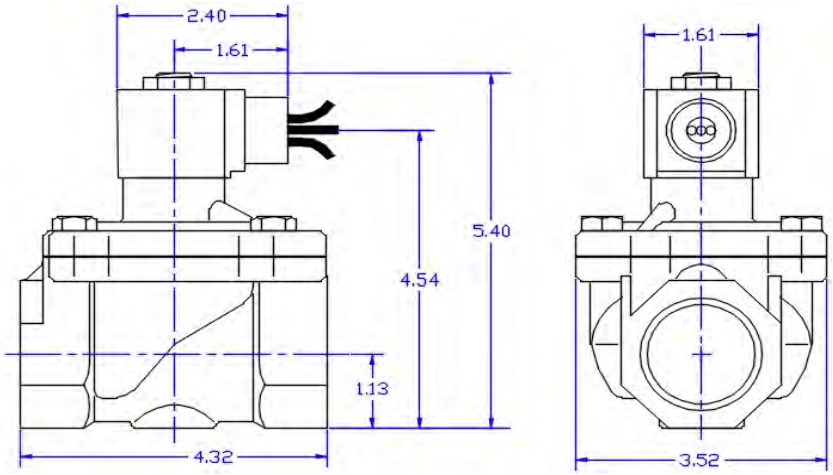
- 1 1/4" NPT
- 316 Stainless Steel Body
- 2-Way Piloted Diaphragm
- Normally Closed

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Stainless Steel
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
6.1



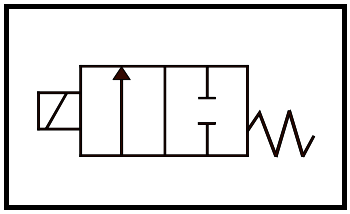
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

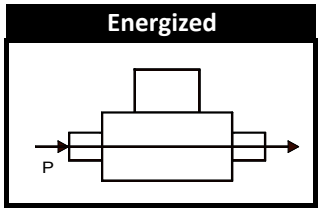
1.25-S-NS211-1

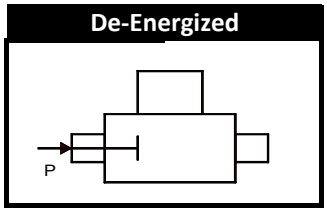
NS211 - 1 1/4" NPT, Stainless Steel Body, Normally Closed

Valve Selection List

Normally Closed







Pipe Size	Orifice Size		Operating Pressure Differential (PSI)								Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum											
				Air/Gas		Water		Light Oil		Steam*					
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Stainless Steel Body
1 1/4	1 1/4	19	5	200	150	150	150	---	---	50	50	295	EPR	8	9	NS211GF02C7GJ2

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	**2**	**1**	**1**	**G**	**F**	**0**	**2**	**C**	**7**	**G**	**J**	**2**

Series	Operating Mode	Hsg	Coil	Voltage	Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size
NS21	1: N.C.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC	C: EPDM	7: 316 SS	G: 1 1/4"	J2: 1 1/4"

Coil Data

Coil Family	
Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	13	14

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS21 Series

Certified to NSF/ANSI/CAN 61-G & 372

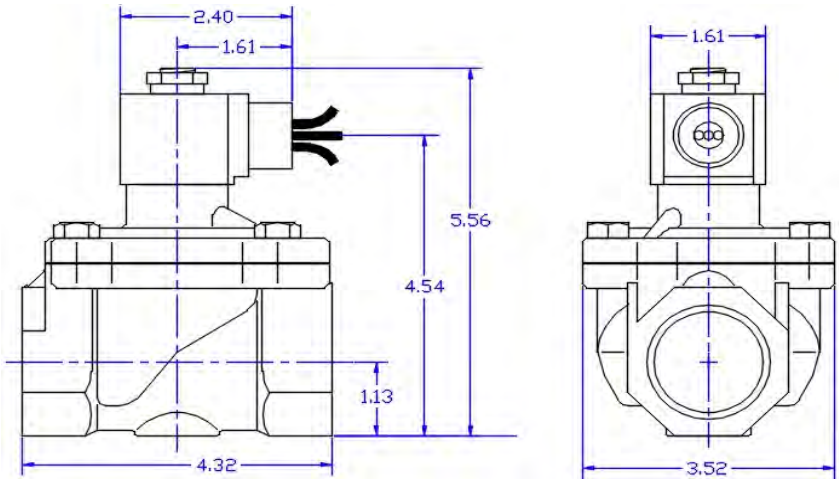
- 1 1/4" NPT
- 316 Stainless Steel Body
- 2-Way Piloted Diaphragm
- Normally Open

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Stainless Steel
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
6.1



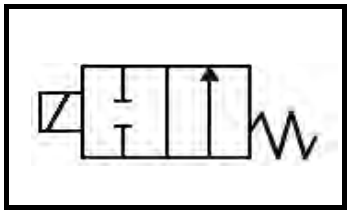
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

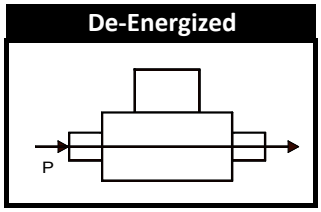
1.25-S-NS212-1

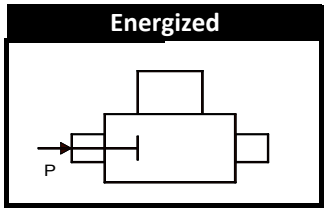
NS212 - 1 1/4" NPT, Stainless Steel Body, Normally Open

Valve Selection List

Normally Open







Pipe Size	Orifice Size		Operating Pressure Differential (PSI)								Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum											
				Air/Gas		Water		Light Oil		Steam*					
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Stainless Steel Body
1 1/4	1 1/4	19	5	200	150	150	150	---	---	50	50	295	EPR	9	9	NS212GF02C7GJ2

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	**2**	**1**	**2**	**G**	**F**	**0**	**2**	**C**	**7**	**G**	**J**	**2**

Series	Operating Mode	Hsg	Coil	Voltage	Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size
NS21	1: N.O.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC	C: EPDM	7: 316 SS	G: 1 1/4"	J2: 1 1/4"

Coil Data

Coil Family	
Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	18	19

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS71 Series

Certified to NSF/ANSI/CAN 61-G & 372

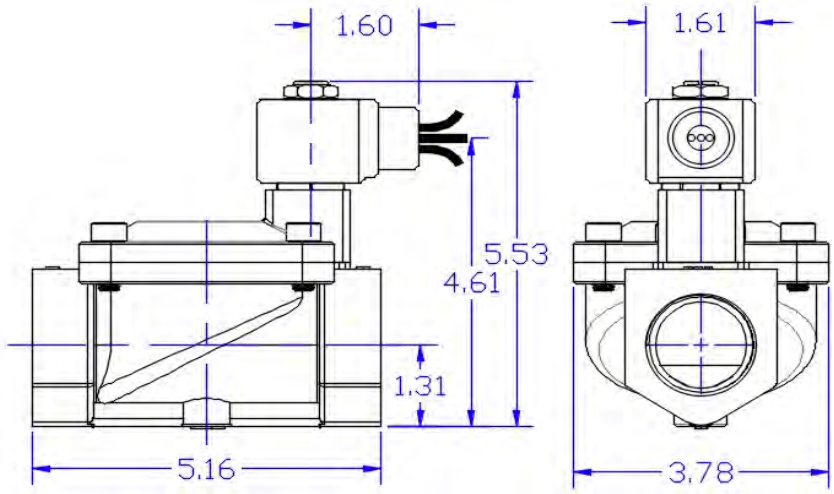
- 1 1/4" NPT
- Lead Free Brass Body
- 2-Way Piloted Diaphragm
- Normally Closed

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Lead Free Brass
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
6.2



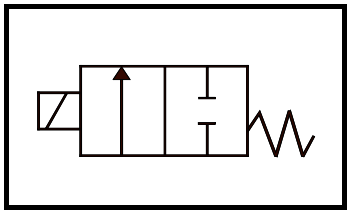
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

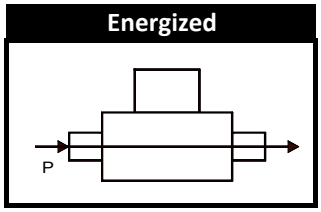
1-1-4-B-NS711-1

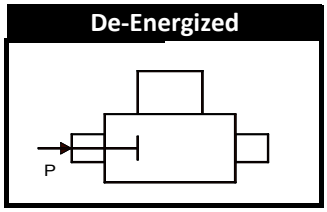
NS711 - 1 1/4" NPT, Lead Free Brass Body, Normally Closed

Valve Selection List

Normally Closed







Pipe Size	Orifice Size		Operating Pressure Differential (PSI)								Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum											
				Air/Gas		Water		Light Oil		Steam*					
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Lead Free Brass Body
1 1/4	1 1/4	22	8	200	150	200	150	---	---	50	50	295	EPR	8	9	NS711GF02C9GJ2

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	**7**	**1**	**1**	**G**	**F**	**0**	**2**	**C**	**9**	**G**	**J**	**2**

Series	Operating Mode	Hsg	Coil	Voltage	Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size
NS71	1: N.C.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC	C: EPDM	9: Lead Free Brass	G: 1 1/4"	J2: 1 1/4"

Coil Data

Coil Family	
Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	13	14

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS71 Series

Certified to NSF/ANSI/CAN 61-G & 372

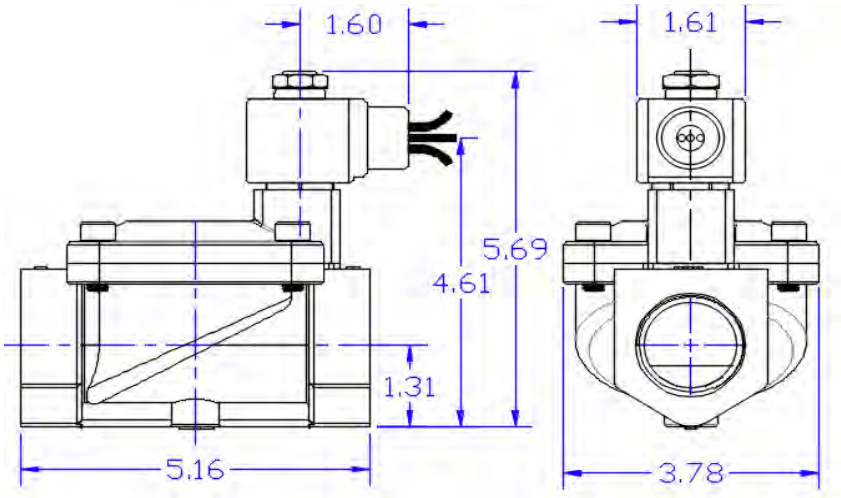
- 1 1/4" NPT
- Lead Free Brass Body
- 2-Way Piloted Diaphragm
- Normally Open

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Lead Free Brass
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
6.2



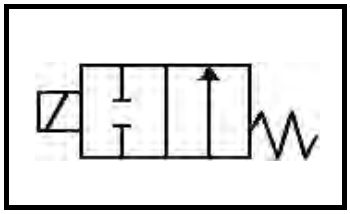
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

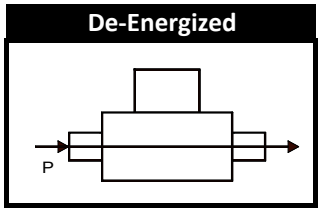
1-1-4-B-NS712-1

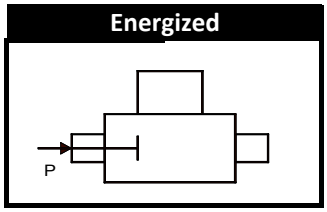
NS712 - 1 1/4" NPT, Lead Free Brass Body, Normally Open

Valve Selection List

Normally Open







Pipe Size	Orifice Size		Operating Pressure Differential (PSI)									Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum												
				Air/Gas		Water		Light Oil		Steam*						
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Lead Free Brass Body
1 1/4	1 1/4	22	7	200	150	200	150	---	---	50	50	295	EPR	8	9	NS712GF02C9GJ2

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	7	1	2	G	F	0	2	C	9	G	J	2

Series	Operating Mode	Hsg	Coil	Voltage	Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size
NS71	2: N.O.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC	C: EPDM	9: Lead Free Brass	G: 1 1/4"	J2: 1 1/4"

Coil Data

Coil Family	
Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	18	19

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS20 Series

Certified to NSF/ANSI/CAN 61-G & 372

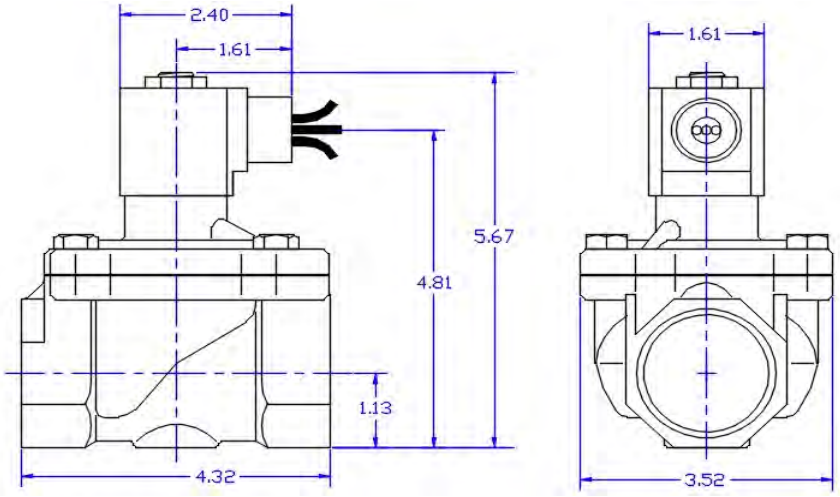
- 1 1/2" NPT
- 316 Stainless Steel Body
- 2-Way Zero Differential Piloted Diaphragm
- Normally Closed

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Stainless Steel
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
6.1



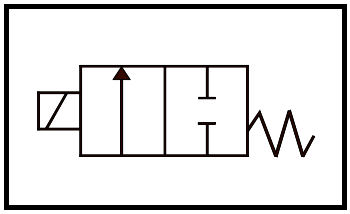
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

1.5-S-NS201-1

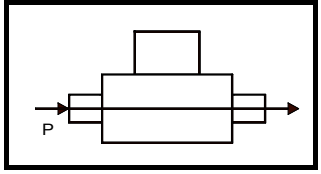
NS201 - 1 1/2" NPT, Stainless Steel Body, Normally Closed

Valve Selection List

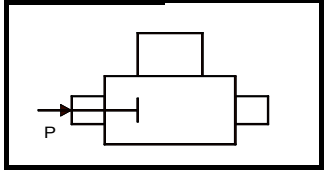
Normally Closed



Energized



De-Energized



Pipe Size	Orifice Size		Operating Pressure Differential (PSI)									Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum												
				Air/Gas		Water		Light Oil		Steam*						
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Stainless Steel Body
1 1/2	1 1/4	25	0	100	100	100	100	---	---	50	50	295	EPR	10	10	NS201GF02C7HJ2

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	**2**	**0**	**1**	**G**	**F**	**0**	**2**	**C**	**7**	**H**	**J**	**2**

Series	Operating Mode	Hsg	Coil	Voltage	Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size
NS20	1: N.C.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC	C: EPDM	7: 316 SS	H: 1 1/2"	J2: 1 1/4"

Coil Data

Coil Family	
Type	Size
All	S4

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	46	46
	Holding	18	19

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS21 Series

Certified to NSF/ANSI/CAN 61-G & 372

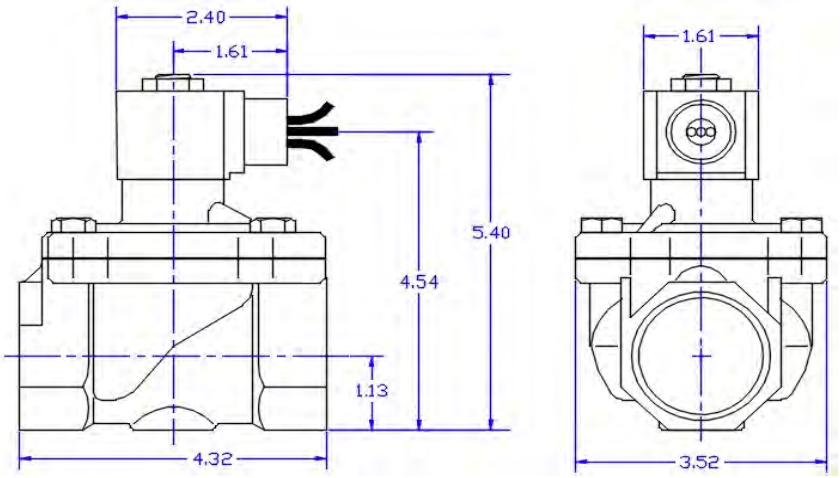
- 1 1/2" NPT
- 316 Stainless Steel Body
- 2-Way Piloted Diaphragm
- Normally Closed

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Stainless Steel
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
6.0



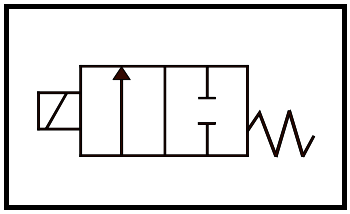
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

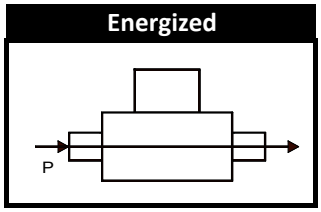
1.5-S-NS211-1

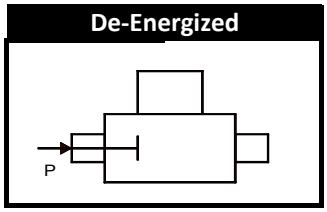
NS211 - 1 1/2" NPT, Stainless Steel Body, Normally Closed

Valve Selection List

Normally Closed







Pipe Size	Orifice Size		Operating Pressure Differential (PSI)								Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum											
				Air/Gas		Water		Light Oil		Steam*					
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Stainless Steel Body
1 1/2	1 1/4	25	5	200	150	150	150	---	---	50	50	295	EPR	8	9	NS211GF02C7HJ2

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	**2**	**1**	**1**	**G**	**F**	**0**	**2**	**C**	**7**	**H**	**J**	**2**

Series	Operating Mode	Hsg	Coil	Voltage	Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size
NS21	1: N.C.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC	C: EPDM	7: 316 SS	H: 1 1/2"	J2: 1 1/4"

Coil Data

Coil Family	
Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	13	14

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS21 Series

Certified to NSF/ANSI/CAN 61-G & 372

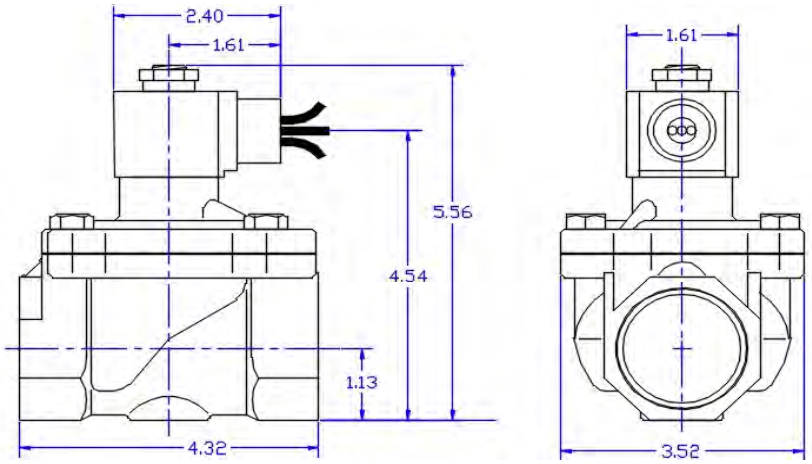
- 1 1/2" NPT
- 316 Stainless Steel Body
- 2-Way Piloted Diaphragm
- Normally Open

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Stainless Steel
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
6.0



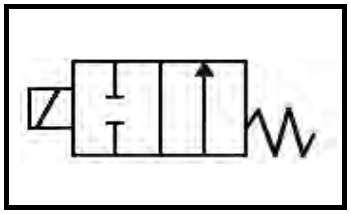
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

1.5-S-NS212-1

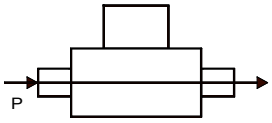
NS212 - 1 1/2" NPT, Stainless Steel Body, Normally Open

Valve Selection List

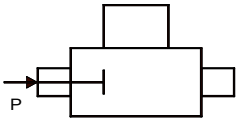
Normally Open



De-Energized



Energized



Pipe Size	Orifice Size		Operating Pressure Differential (PSI)									Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum												
				Air/Gas		Water		Light Oil		Steam*						
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Stainless Steel Body
1 1/2	1 1/4	25	5	200	150	150	150	---	---	50	50	295	EPR	9	9	NS212GF02C7HJ2

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	**2**	**1**	**2**	**G**	**F**	**0**	**2**	**C**	**7**	**H**	**J**	**2**

Series	Operating Mode	Hsg	Coil	Voltage	Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size
NS21	1: N.O.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC	C: EPDM	7: 316 SS	H: 1 1/2"	J2: 1 1/4"

Coil Data

Coil Family	
Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	18	19

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS71 Series

Certified to NSF/ANSI/CAN 61-G & 372

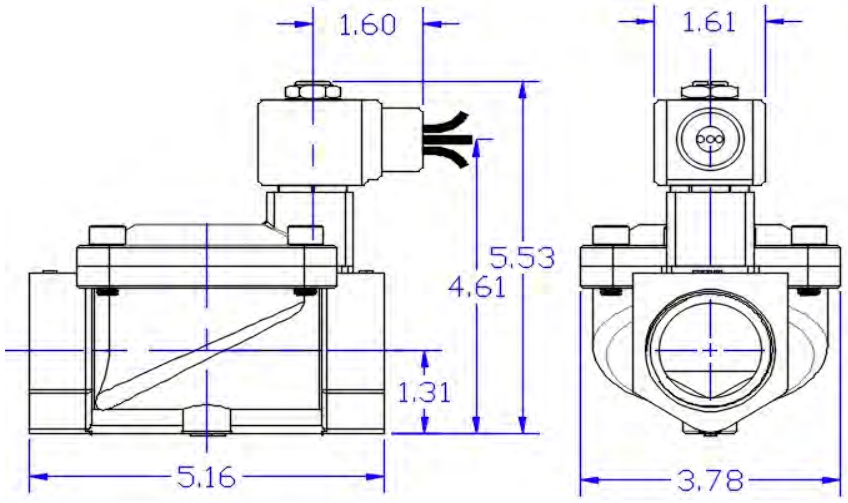
- 1 1/2" NPT
- Lead Free Brass Body
- 2-Way Piloted Diaphragm
- Normally Closed

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Lead Free Brass
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
6



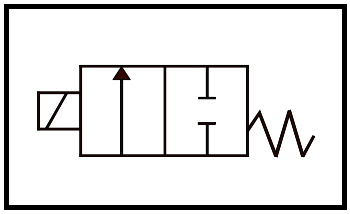
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

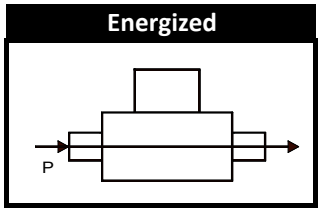
1-1-2-B-NS711-1

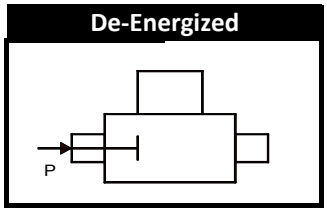
NS711 - 1 1/2" NPT, Lead Free Brass Body, Normally Closed

Valve Selection List

Normally Closed







Pipe Size	Orifice Size		Operating Pressure Differential (PSI)								Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum											
				Air/Gas		Water		Light Oil		Steam*					
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Lead Free Brass Body
1 1/2	1 1/2	30	8	200	150	200	150	---	---	50	50	295	EPR	8	9	NS711GF02C9HJ5

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	**7**	**1**	**1**	**G**	**F**	**0**	**2**	**C**	**9**	**H**	**J**	**5**

Series	Operating Mode	Hsg	Coil	Voltage	Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size
NS71	1: N.C.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC	C: EPDM	9: Lead Free Brass	H: 1 1/2"	J5: 1 1/2"

Coil Data

Coil Family	
Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	13	14

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS71 Series

Certified to NSF/ANSI/CAN 61-G & 372

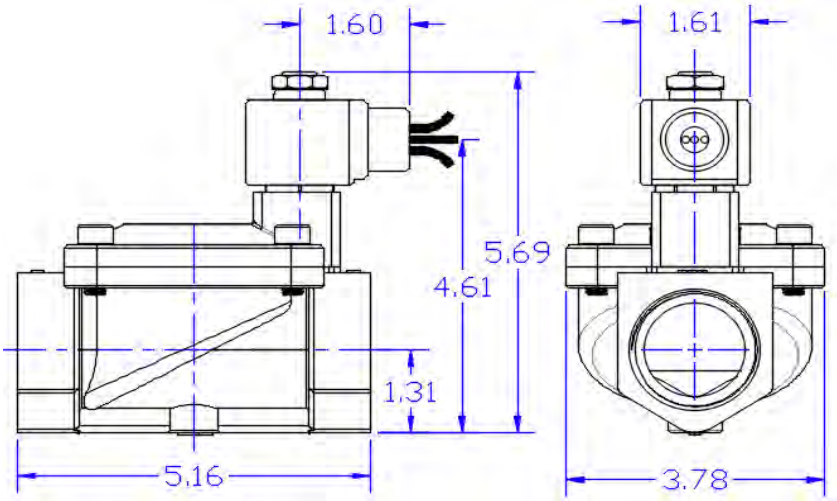
- 1 1/2" NPT
- Lead Free Brass Body
- 2-Way Piloted Diaphragm
- Normally Open

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Lead Free Brass
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
6



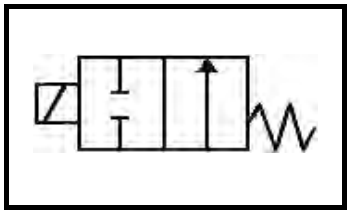
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

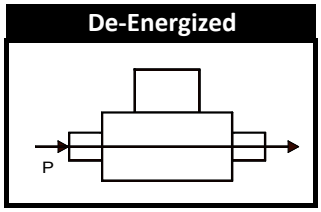
1-1-2-B-NS712-1

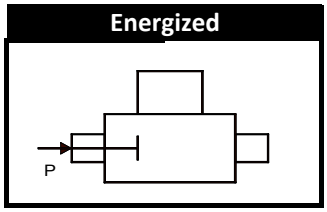
NS712 - 1 1/2" NPT, Lead Free Brass Body, Normally Open

Valve Selection List

Normally Open







Pipe Size	Orifice Size		Operating Pressure Differential (PSI)									Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum												
				Air/Gas		Water		Light Oil		Steam*						
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Lead Free Brass Body
1 1/2	1 1/2	30	7	200	150	200	150	---	---	50	50	295	EPR	8	9	NS712GF02C9HJ5

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	7	1	2	G	F	0	2	C	9	H	J	5

Series	Operating Mode	Hsg	Coil	Voltage	Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size
NS71	2: N.O.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC	C: EPDM	9: Lead Free Brass	H: 1 1/2"	J5: 1 1/2"

Coil Data

Coil Family	
Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	18	19

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS21 Series

Certified to NSF/ANSI/CAN 61-G & 372

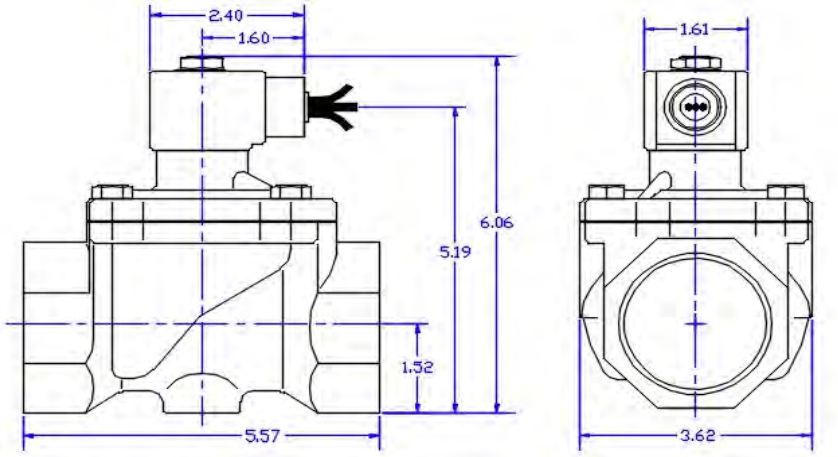
- 2" NPT
- 316 Stainless Steel Body
- 2-Way Piloted Diaphragm
- Normally Closed

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Stainless Steel
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
9.0



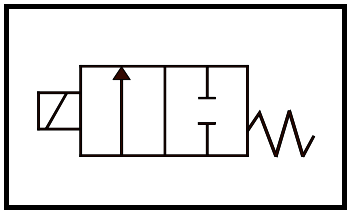
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

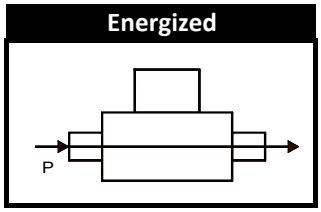
2-S-NS211-1

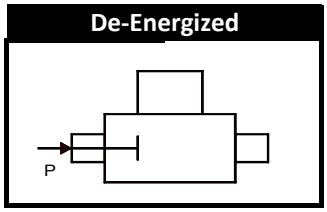
NS211 - 2" NPT, Stainless Steel Body, Normally Closed

Valve Selection List

Normally Closed







Pipe Size	Orifice Size		Operating Pressure Differential (PSI)								Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum											
				Air/Gas		Water		Light Oil		Steam*					
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Stainless Steel Body
2	1 1/4	28	5	200	150	150	150	---	---	50	50	295	EPR	8	9	NS211GF02C7JJ2

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	2	1	1	G	F	0	2	C	7	J	J	2
Series		Operating Mode	Hsg	Coil	Voltage			Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size	
NS21		1: N.C.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC			C: EPDM	7: 316 SS	J: 2"	J2: 1 1/4"	

Coil Data

Coil Family	
Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	13	14

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS21 Series

Certified to NSF/ANSI/CAN 61-G & 372

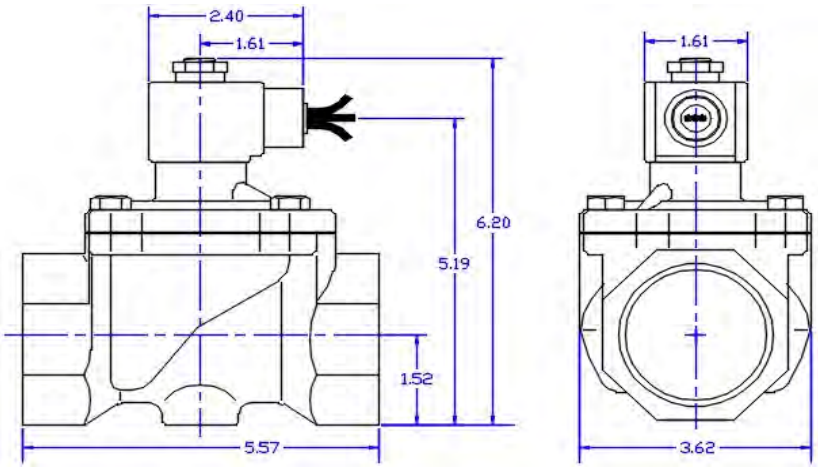
- 2" NPT
- 316 Stainless Steel Body
- 2-Way Piloted Diaphragm
- Normally Open

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Stainless Steel
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
9.0



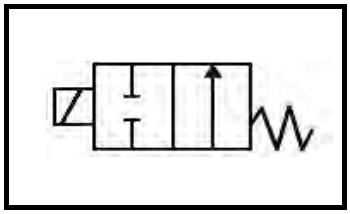
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

2-S-NS212-1

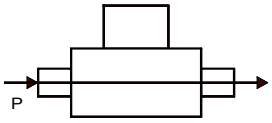
NS212 - 2" NPT, Stainless Steel Body, Normally Open

Valve Selection List

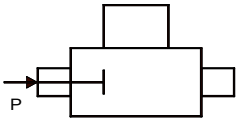
Normally Open



De-Energized



Energized



Pipe Size	Orifice Size		Operating Pressure Differential (PSI)								Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum											
				Air/Gas		Water		Light Oil		Steam*					
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Stainless Steel Body
2	1 1/4	28	5	200	150	150	150	---	---	50	50	295	EPR	9	9	NS212GF02C7JJ2

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	**2**	**1**	**2**	**G**	**F**	**0**	**2**	**C**	**7**	**J**	**J**	**2**

Series	Operating Mode	Hsg	Coil	Voltage	Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size
NS21	1: N.O.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC	C: EPDM	7: 316 SS	J: 2"	J2: 1 1/4"

Coil Data

Coil Family	
Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	18	19

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS71 Series

Certified to NSF/ANSI/CAN 61-G & 372

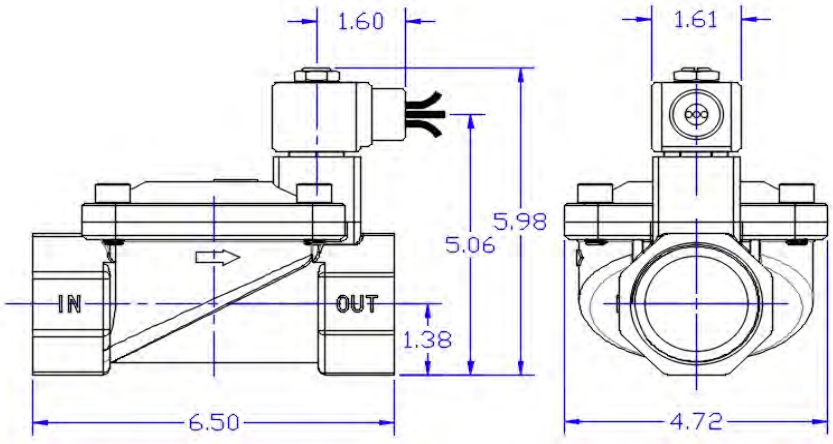
- 2" NPT
- Lead Free Brass Body
- 2-Way Piloted Diaphragm
- Normally Closed

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Lead Free Brass
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
8.8



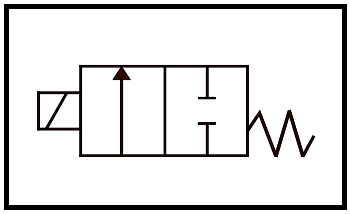
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

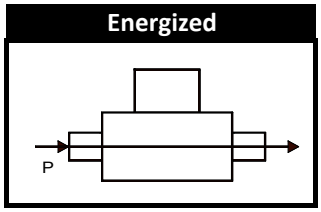
2-B-NS711-1

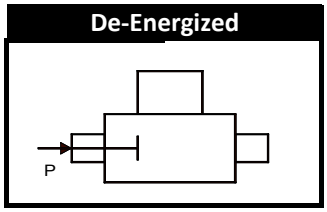
NS711 - 2" NPT, Lead Free Brass Body, Normally Closed

Valve Selection List

Normally Closed







Pipe Size	Orifice Size		Operating Pressure Differential (PSI)								Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum											
				Air/Gas		Water		Light Oil		Steam*					
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Lead Free Brass Body
2	2	48	8	200	150	200	150	---	---	50	50	295	EPR	8	9	NS711GF02C9JJ7

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	**7**	**1**	**1**	**G**	**F**	**0**	**2**	**C**	**9**	**J**	**J**	**7**

Series	Operating Mode	Hsg	Coil	Voltage	Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size
NS71	1: N.C.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC	C: EPDM	9: Lead Free Brass	J: 2"	J7: 2"

Coil Data

Coil Family	
Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	13	14

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS71 Series

Certified to NSF/ANSI/CAN 61-G & 372

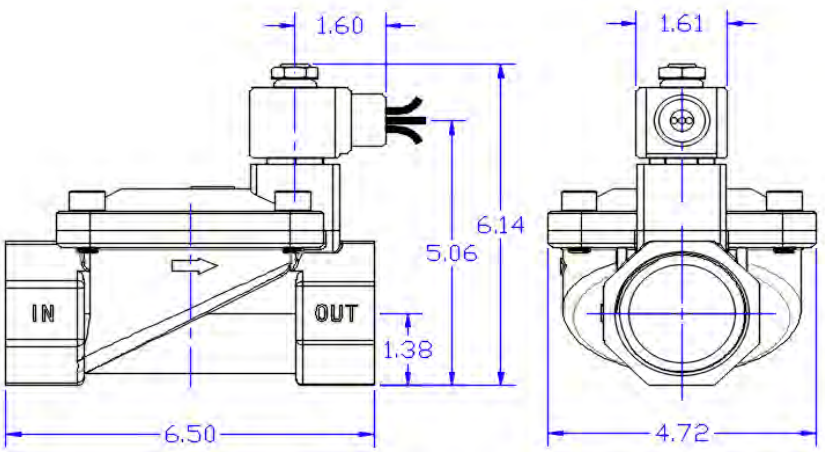
- 2" NPT
- Lead Free Brass Body
- 2-Way Piloted Diaphragm
- Normally Open

Materials	Seals:	NSF Approved Ethylene Propylene
	Orifice:	Lead Free Brass
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4X)
	Optional Housings:	Metal Conduit, Explosion-Proof (NEMA 7), Grommet Open Frame, Junction Box (single or dual knockouts), DIN, Contact GC Valves Customer Svc. For others.
	Standard Voltages:	24, 120, 240, AC, 60 and/or 50 Hz. Available 6, 12, 24 DC Contact GC Valves Customer Svc. For Additional Voltages
	Voltage Tolerance:	± 10% of applicable volltage
	Coil Classes:	F, H, N
	Standard Lead Length:	24 inches
Operating Temperature	Ambient (Nominal):	32° F to 125° F
Mounting	Position:	Upright and Vertical
Approvals*	Agency:	NSF/ANSI - 61/ NSF-372/ UR -CSA Recognized

* Not available for all variations

Dimensions / Weight

Weight (Lbs.)
8.8



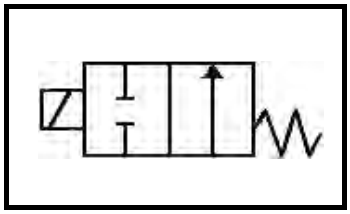
GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

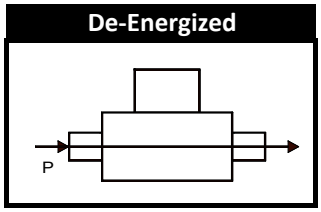
2-B-NS712-1

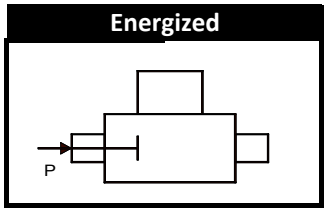
NS712 - 2" NPT, Lead Free Brass Body, Normally Open

Valve Selection List

Normally Open







Pipe Size	Orifice Size		Operating Pressure Differential (PSI)									Max. Fluid Temp.	Seal Material	Power Consumption (Watts)		Model Code (120V/60HZ-110V/50HZ) Shown
			Minimum	Maximum												
				Air/Gas		Water		Light Oil		Steam*						
NPT	In.	Cv		AC	DC	AC	DC	AC	DC	AC	DC	°F		AC	DC	Lead Free Brass Body
2	2	48	7	200	150	200	150	---	---	50	50	295	EPR	8	9	NS712GF02C9JJ7

Part Numbering

1	2	3	4	5	6	7	8	9	10	11	12	13
NS	7	1	2	G	F	0	2	C	9	J	J	7
Series		Operating Mode	Hsg	Coil	Voltage		Seal Mat'l	Body Mat'l	Pipe Size	Orifice Size		
NS71		2: N.O.	G: Conduit Y: DIN A: Conduit U: J-Box P Opn Frame	F: F Class H: H Class	02: 120/60 110/50 04: 240/60 220/50 24: 24/60 24/50 15: 12 VDC 16: 24 VDC		C: EPDM	9: Lead Free Brass	J: 2"	J7: 2"		

Coil Data

Coil Family	
Type	Size
All	S3

Frequency (Hz)		60	50
Nominal Power (VA)	Inrush	36	36
	Holding	18	19

GC Valves Customer Service: 800-828-0484 (7:30 AM to 5:00 PM ET)

NS201(AC) -- Service and Installation --

08/20/2024

DESCRIPTION
The NS201 Series Solenoid Valves are 2-way, normally closed, piloted, zero differential general purpose valves specifically designed for drinking water and other food products. All stainless steel or Nαyl construction with synthetic seating and sealing materials make them suitable for use with a variety of liquids, oils and gases.
Valves may be mounted in any positions. A spring loaded plunger assures positive shutoff. The S4 solenoid coil is rated at 10 watts.

OPERATION
NS201 Valves are normally closed (N.C.) and open when electrically energized.

SPECIFICATIONS
Use NS201 Valves within the specified operating ranges as indicated on the nameplate and in the complete Catalog Number. (min./max. psi, voltage, hz, maximum media temperature at F ambient, Cv factor, etc.).

OPERATING TEMPERATURES

Ambient 32	° - 125° F	Fluid	32° - 295° F

For other applications, consult the factory.

INSTALLATION
Check valve specifications to make sure of proper application.
1. Clear all lines of foreign matter .
2. Valves are multipoised and may be mounted in any position. Flow must be in direction indicated on the valve body. If sediment is a problem, install a fine mesh strainer having adequate capacity ahead of the valve.
3. Do not use the solenoid housing as a handle. Apply thread seal to the male threads only.
4. Provide a clearance for solenoid removal.
5. Wire in accordance with applicable local and national electrical codes.

MAINTENANCE

COIL REPLACEMENT
Turn off the electrical power supply to the solenoid before disconnecting the coil lead wires.
Incorrect coil reassembly can cause coil burnout. At all times, take care not to nick, dent, or damage the plunger tube.

It is not necessary to remove the valve from the pipeline. Follow Steps 1, 2 and 3 under **VALVE DISASSEMBLY**. Disassemble solenoid, taking care to note the exact order of placement and quantity parts.

Incorrect reassembly can cause coil burnout. At all times take are not to nick, dent or damage plunger tube.

PARTS
The charts which follow cover replaceable coil part numbers, Repair and Rebuild kits for most NS201 valves.

When ordering parts/kits, specify Catalog Number, Serial Number, and Part Name. If your valve's Catalog Number is not listed, obtain the complete Serial Number and consult the factory.

REBUILD KIT
The Rebuild Kit contains a plunger/spring/seat disc assembly, plunger tube assembly, O-rings and adapter ring.

REPAIR KIT
The Repair Kit contains a seat disc, diaphragm assembly and O-rings.

REBUILD & REPAIR KIT CHART

Valve	Rebuild Kits	Repair K its
NS201YF16FPCG4	KS201AF15G4-NSF K	201G4-NSF
NS201YF16FPDG4	KS201AF15G4-NSF K	201G4-NSF
NS201YF16FPEG5	KS201AF15G5-NSF K	201G5-NSF
NS201YF16F7CG4	KS201AF15G4-NSF K	201G4-NSF
NS201YF16F7DG4	KS201AF15G4-NSF K	201G4-NSF
NS201YF16F7EG5	KS201AF15G5-NSF K	201G5-NSF

COIL CHART

Valve	Voltage	DIN Coil	Conduit Coil
NS201YF16FPCG4	24V DC	HS4YN16	HS4GN16A24
NS201YF16FPDG4	24V DC	HS4YN16	HS4GN16A24
NS201YF16FPEG5	24V DC	HS4YN16	HS4GN16A24
NS201YF16F7CG4	24V DC	HS4YN16	HS4GN16A24
NS201YF16F7DG4	24V DC	HS4YN16	HS4GN16A24
NS201YF16F7EG5	24V DC	HS4YN16	HS4GN16A24

Cleaning
Cleaning fluid must be compatible with all valve components.
It is recommended that NS201 Series Valves be cleaned on a routine basis by qualified personnel. Valves should be cleaned where flow media or service conditions may determine life of valve. Apply correct voltage. If excessive leakage occurs or if the operation is sluggish, the unit must be cleaned.

SERVICE
Disassembly

WARNING

Disassembly, reassembly or internal adjustment without factory test may result in hazardous condition. If valve does not operate properly after following the INSTALLATION and MAINTENANCE instructions, complete valve must be replaced by a trained and experienced service-person.

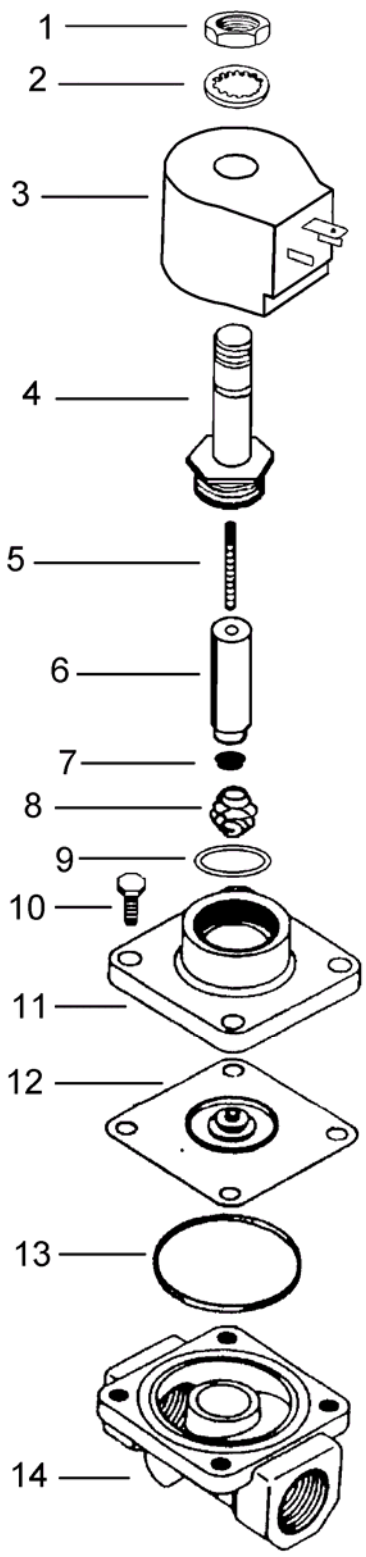
---

1. Unscrew the hex nut (1). Remove with lockwasher (2).
2. Lift off the coil (3) from the plunger tube.
3. Do not damage the solenoid assembly.
4. Use a 1" spanner to remove solenoid base nut and plunger tube (4). Do not nick, dent, or damage plunger tube (4) or valve seating surfaces.
5. Carefully hold plunger tube (4) in position when removing from valve bonnet (11) to prevent loss of internal parts.
6. Remove return spring (5) from plunger assembly (6),
7. Remove four bonnet bolts (10) and separate the valve bonnet (11) from the valve body (14).
8. Carefully remove connecting spring (8) from the diaphragm (12) and plunger (6) assemblies.
9. Check seat disc (7) and diaphragm assembly (12) for damage or wear.
10. Replace O-rings (9 & 13), diaphragm assembly (12), seat disc (7) and other parts as necessary.
11. Re-assemble in reverse order from above taking care to properly re-install the seat disc (7) and connecting spring (8).
12. Tighten Tube Base Nut (4) to 18 to 24 in/lbs. and bonnet bolts (10) to 40 to 45 in/lbs.
13. Re-connect electrical and test for proper operation.

TROUBLE-SHOOTING

If valve fails to open check voltage against rating on nameplate, check voltage at solenoid lead connections, check control circuit and solenoid coil for burnout. If valve fails to close, check condition of synthetic seat insert. Check for damaged spring. Valve must be free of dirt to insure tight shutoff. If dirt is a problem, install a fine mesh strainer to insure proper closing and trouble-free operation

Buzzing or chattering can be caused by low voltage or dirt or chips between top of plunger and tube head. Check voltage--clean plunger and interior of tube and base assembly.



NS201(DC) -- Service and Installation --

08/20/2024

DESCRIPTION
The NS201 Series Solenoid Valves are 2-way, normally closed, piloted, zero differential general purpose valves specifically designed for drinking water and other food products. All stainless steel or Nαyl construction with synthetic seating and sealing materials make them suitable for use with a variety of liquids, oils and gases.
Valves may be mounted in any positions. A spring loaded plunger assures positive shutoff. The S4 solenoid coil is rated at 10 watts.

OPERATION
NS201 Valves are normally closed (N.C.) and open when electrically energized.

SPECIFICATIONS
Use NS201 Valves within the specified operating ranges as indicated on the nameplate and in the complete Catalog Number. (min./max. psi, voltage, hz, maximum media temperature at F ambient, Cv factor, etc.).

OPERATING TEMPERATURES

Ambient 32	° - 125° F	Fluid	32° - 295° F

For other applications, consult the factory.

INSTALLATION
Check valve specifications to make sure of proper application.
1. Clear all lines of foreign matter .
2. Valves are multipoised and may be mounted in any position. Flow must be in direction indicated on the valve body. If sediment is a problem, install a fine mesh strainer having adequate capacity ahead of the valve.
3. Do not use the solenoid housing as a handle. Apply thread seal to the male threads only.
4. Provide a clearance for solenoid removal.
5. Wire in accordance with applicable local and national electrical codes.

MAINTENANCE

COIL REPLACEMENT
Turn off the electrical power supply to the solenoid before disconnecting the coil lead wires.
Incorrect coil reassembly can cause coil burnout. At all times, take care not to nick, dent, or damage the plunger tube.

It is not necessary to remove the valve from the pipeline. Follow Steps 1, 2 and 3 under **VALVE DISASSEMBLY**. Disassemble solenoid, taking care to note the exact order of placement and quantity parts.

Incorrect reassembly can cause coil burnout. At all times take are not to nick, dent or damage plunger tube.

PARTS
The charts which follow cover replaceable coil part numbers, Repair and Rebuild kits for most NS201 valves.

When ordering parts/kits, specify Catalog Number, Serial Number, and Part Name. If your valve's Catalog Number is not listed, obtain the complete Serial Number and consult the factory.

REBUILD KIT
The Rebuild Kit contains a plunger/spring/seat disc assembly, plunger tube assembly, O-rings and adapter ring.

REPAIR KIT
The Repair Kit contains a seat disc, diaphragm assembly and O-rings.

REBUILD & REPAIR KIT CHART

Valve	Rebuild Kits	Repair K its
NS201YF16FPCG4	KS201AF15G4-NSF K	201G4-NSF
NS201YF16FPDG4	KS201AF15G4-NSF K	201G4-NSF
NS201YF16FPEG5	KS201AF15G5-NSF K	201G5-NSF
NS201YF16F7CG4	KS201AF15G4-NSF K	201G4-NSF
NS201YF16F7DG4	KS201AF15G4-NSF K	201G4-NSF
NS201YF16F7EG5	KS201AF15G5-NSF K	201G5-NSF

COIL CHART

Valve	Voltage	DIN Coil	Conduit Coil
NS201YF16FPCG4	24V DC	HS4YN16	HS4GN16A24
NS201YF16FPDG4	24V DC	HS4YN16	HS4GN16A24
NS201YF16FPEG5	24V DC	HS4YN16	HS4GN16A24
NS201YF16F7CG4	24V DC	HS4YN16	HS4GN16A24
NS201YF16F7DG4	24V DC	HS4YN16	HS4GN16A24
NS201YF16F7EG5	24V DC	HS4YN16	HS4GN16A24

Cleaning
Cleaning fluid must be compatible with all valve components.
It is recommended that NS201 Series Valves be cleaned on a routine basis by qualified personnel. Valves should be cleaned where flow media or service conditions may determine life of valve. Apply correct voltage. If excessive leakage occurs or if the operation is sluggish, the unit must be cleaned.

SERVICE
Disassembly

WARNING

Disassembly, reassembly or internal adjustment without factory test may result in hazardous condition. If valve does not operate properly after following the INSTALLATION and MAINTENANCE instructions, complete valve must be replaced by a trained and experienced service-person.

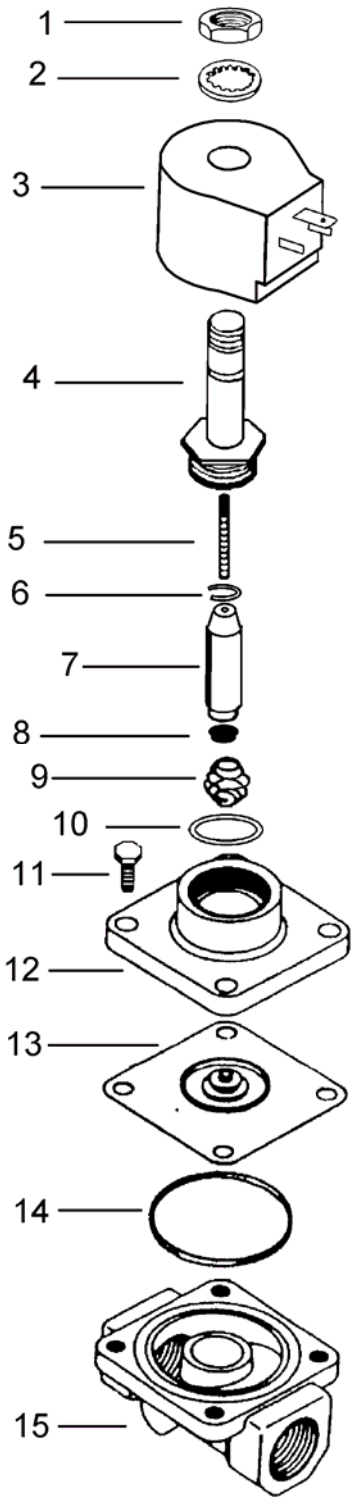
---

1. Unscrew the hex nut (1). Remove with lockwasher (2).
2. Lift off the coil (3) from the plunger tube.
3. Do not damage the solenoid assembly.
4. Use a 1" spanner to remove solenoid base nut and plunger tube (4). Do not nick, dent, or damage plunger tube (4) or valve seating surfaces.
5. Carefully hold plunger tube (4) in position when removing from valve bonnet (12) to prevent loss of internal parts.
6. Remove return spring (5) plunger assembly (7),
7. Remove four bonnet bolts (11) and separate the valve bonnet (12) from the valve body (15).
8. Carefully remove connecting spring (9) from the diaphragm (13) and plunger (7) assemblies.
9. Check seat disc (8) and diaphragm assembly (13) for damage or wear.
10. Replace O-rings (10 & 14), diaphragm assembly (13), seat disc (8) and other parts as necessary.
11. Re-assemble in reverse order from above taking care to properly re-install the seat disc (8) and connecting spring (9).
12. Tighten tube base nut (4) to 18 to 24 in/lbs and bonnet bolts 11) to 40 to 45 in/lbs.
13 . Re-connect electrical and test for proper operation.

TROUBLE-SHOOTING

If valve fails to open check voltage against rating on nameplate, check voltage at solenoid lead connections, check control circuit and solenoid coil for burnout. If valve fails to close, check condition of synthetic seat insert. Check for damaged spring. Valve must be free of dirt to insure tight shutoff. If dirt is a problem, install a fine mesh strainer to insure proper closing and trouble-free operation

Buzzing or chattering can be caused by low voltage or dirt or chips between top of plunger and tube head. Check voltage--clean plunger and interior of tube and base assembly.



NS201 F, G, & H (AC) -- Service and Installation --

08/20/2024

DESCRIPTION
The NS201 Series Solenoid Valves are 2-way, normally closed, piloted, zero differential general purpose valves. All stainless steel or brass construction with synthetic seating and sealing materials make them suitable for use with a variety of liquids, oils and gases.
Valves should be mounted with the coil in a vertical and upright position. A spring loaded plunger assures positive shutoff. The S4 solenoid coil is rated at 10 watts.

OPERATION
NS201 Valves are normally closed (N.C.) and open when electrically energized.

SPECIFICATIONS
Use NS201 Valves within the specified operating ranges as indicated on the nameplate and in the complete Catalog Number. (min./max. psi, voltage, hz, maximum media temperature at F ambient, Cv factor, etc.).

OPERATING TEMPERATURES

Ambient	Elastomer	Fluid
32° - 125° F	EPR	32° - 295° F

For other applications, consult the factory.

INSTALLATION
Check valve specifications to make sure of proper application.
1. Clear all lines of foreign matter.
2. Valves should be mounted with the operator in a vertical/upright position. Flow must be in direction indicated on the valve body. If sediment is a problem, install a fine mesh strainer having adequate capacity ahead of the valve.
3. Do not use the solenoid housing as a handle. Apply thread seal to the male threads only.
4. Provide a clearance for solenoid removal.
5. Wire in accordance with applicable local and national electrical codes.

MAINTENANCE

COIL REPLACEMENT
Turn off the electrical power supply to the solenoid before disconnecting the coil lead wires.
Incorrect coil reassembly can cause coil burnout. At all times, take care not to nick, dent, or damage the plunger tube.

It is not necessary to remove the valve from the pipeline. Follow Steps 1, 2 and 3 under **VALVE DISASSEMBLY**. Disassemble solenoid, taking care to note the exact order of placement and quantity parts.

Incorrect reassembly can cause coil burnout. At all times take care not to nick, dent or damage plunger tube.

PARTS
The charts which follow cover replaceable coil part numbers, Repair and Rebuild kits for most NS201 valves.

When ordering parts/kits, specify Catalog Number, Serial Number, and Part Name. If your valve's Catalog Number is not listed, obtain the complete Serial Number and consult the factory.

REBUILD KIT
The Rebuild Kit contains a plunger/spring/seat disc assembly, plunger tube assembly, O-rings and adapter ring.

REPAIR KIT
The Repair Kit contains a seat disc, diaphragm assembly and O-rings.

REBUILD & REPAIR KIT CHART

Valve	Rebuild Kits	Repair Kits
NS201GF02C7FG9	KS201AF02G9-NSF	K201G9-NSF
NS201GF02C7GJ2	KS201AF02J2-NSF	K201J2-NSF
NS201GF02C7HJ2	KS201AF02J2-NSF	K201J2-NSF

COIL CHART

Valve	Voltage	DIN Coil	Conduit Coil
NS201GF02C7FG9	120V 50/60	HS4YN02	HS4GN02A24
NS201GF02C7GJ2	120V 50/60	HS4YN02	HS4GN02A24
NS201GF02C7HJ2	120V 50/60	HS4YN02	HS4GN02A24
NS201GF03C7FG9	208V 50/60	HS4YN03	HS4GN03A24
NS201GF03C7GJ2	208V 50/60	HS4YN03	HS4GN03A24
NS201GF03C7HJ2	208V 50/60	HS4YN03	HS4GN03A24
NS201GF04C7FG9	240V 50/60	HS4YN04	HS4GN04A24
NS201GF04C7GJ2	240V 50/60	HS4YN04	HS4GN04A24
NS201GF04C7HJ2	240V 50/60	HS4YN04	HS4GN04A24
NS201GF24C7FG9	24V 50/60	HS4YN24	HS4GN24A24
NS201GF24C7GJ2	24V 50/60	HS4YN24	HS4GN24A24
NS201GF24C7HJ2	24V 50/60	HS4YN24	HS4GN24A24

Cleaning

Cleaning fluid must be compatible with all valve components.
It is recommended that NS201 Series Valves be cleaned on a routine basis by qualified personnel. Valves should be cleaned where flow media or service conditions may determine life of valve. Apply correct voltage. If excessive leakage occurs or if the operation is sluggish, the unit must be cleaned.

SERVICE
Disassembly

WARNING

Disassembly, reassembly or internal adjustment without factory test may result in hazardous condition. If valve does not operate properly after following the INSTALLATION and MAINTENANCE instructions, complete valve must be replaced by a trained and experienced service-person.

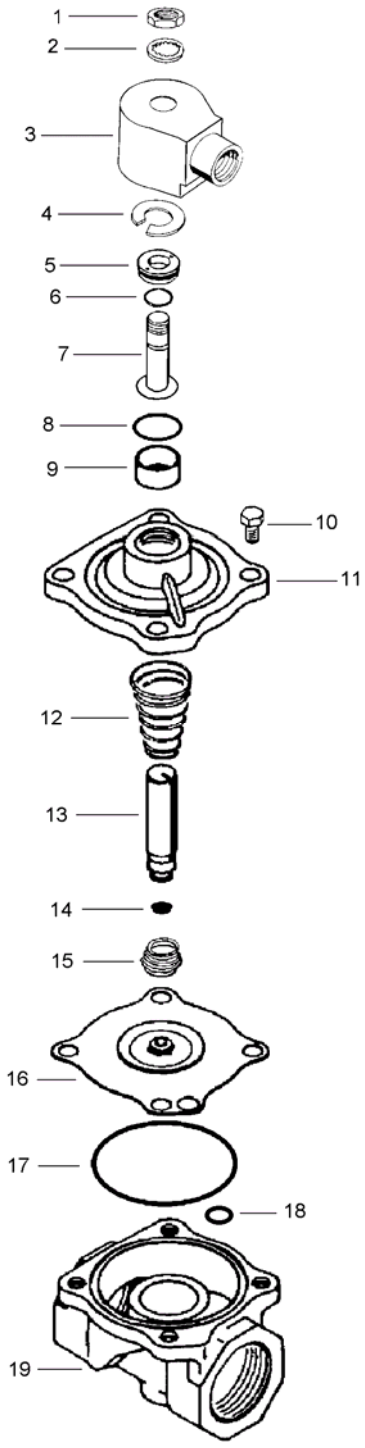
---

1. Unscrew the hex nut (1). Remove with lockwasher (2).
2. Lift off the coil (3) from the plunger tube.
3. Do not damage the solenoid assembly.
4. Use a 1” spanner nut 106198E to remove solenoid base nut (5) and plunger tube (7). Do not nick, dent, or damage plunger tube (7) or valve seating surfaces.
5. Carefully hold plunger tube (7) in position when removing from valve bonnet (11) to prevent loss of internal parts.
6. Remove return spring (12) from plunger assembly (13),
7. Remove four bonnet bolts (10) and separate the valve bonnet (11) from the valve body (19).
8. Carefully remove connecting spring (15) from the diaphragm (16) and plunger (13) assemblies.
9. Check seat disc (14) and diaphragm assembly (16) for damage or wear.
10. Replace O-rings (6, 8, 17 & 18), diaphragm assembly (16), seat disc (14) and other parts as necessary.
11. Re-assemble in reverse order from above taking care to properly re-install the seat disc (14) and connecting spring (15).
12. Tighten Tube Base Nut (5) to 18 to 24 in/lbs. and bonnet bolts (10) to 40 to 45 in/lbs.
13. Re-connect electrical and test for proper operation.

TROUBLE-SHOOTING

If valve fails to open check voltage against rating on nameplate, check voltage at solenoid lead connections, check control circuit and solenoid coil for burnout. If valve fails to close, check condition of synthetic seat insert. Check for damaged spring. Valve must be free of dirt to insure tight shutoff. If dirt is a problem, install a fine mesh strainer to insure proper closing and trouble-free operation

Buzzing or chattering can be caused by low voltage or dirt or chips between top of plunger and tube head. Check voltage--clean plunger and interior of tube and base assembly.



NS201 F, G, & H (DC) -- Service and Installation --

08/20/2024

DESCRIPTION
The NS201 Series Solenoid Valves are 2-way, normally closed, piloted, zero differential general purpose valves. All stainless steel or brass construction with synthetic seating and sealing materials make them suitable for use with a variety of liquids, oils and gases.
Valves should be mounted with the coil in a vertical and upright position. A spring loaded plunger assures positive shutoff. The S4 solenoid coil is rated at 10 watts.

OPERATION
NS201 Valves are normally closed (N.C.) and open when electrically energized.

SPECIFICATIONS
Use NS201 Valves within the specified operating ranges as indicated on the nameplate and in the complete Catalog Number. (min./max. psi, voltage, hz, maximum media temperature at F ambient, Cv factor, etc.).

OPERATING TEMPERATURES

Ambient	Elastomer	Fluid
32° - 125° F	EPR	32° - 295° F

For other applications, consult the factory.

INSTALLATION
Check valve specifications to make sure of proper application.
1. Clear all lines of foreign matter.
2. Valves should be mounted with the operator in a vertical/upright position. Flow must be in direction indicated on the valve body. If sediment is a problem, install a fine mesh strainer having adequate capacity ahead of the valve.
3. Do not use the solenoid housing as a handle. Apply thread seal to the male threads only.
4. Provide a clearance for solenoid removal.
5. Wire in accordance with applicable local and national electrical codes.

MAINTENANCE

COIL REPLACEMENT
Turn off the electrical power supply to the solenoid before disconnecting the coil lead wires.
Incorrect coil reassembly can cause coil burnout. At all times, take care not to nick, dent, or damage the plunger tube.

It is not necessary to remove the valve from the pipeline. Follow Steps 1, 2 and 3 under **VALVE DISASSEMBLY**. Disassemble solenoid, taking care to note the exact order of placement and quantity parts.

Incorrect reassembly can cause coil burnout. At all times take care not to nick, dent or damage plunger tube.

PARTS
The charts which follow cover replaceable coil part numbers, Repair and Rebuild kits for most NS201 valves.

When ordering parts/kits, specify Catalog Number, Serial Number, and Part Name. If your valve's Catalog Number is not listed, obtain the complete Serial Number and consult the factory.

REBUILD KIT
The Rebuild Kit contains a plunger/spring/seat disc assembly, plunger tube assembly, O-rings and adapter ring.

REPAIR KIT
The Repair Kit contains a seat disc, diaphragm assembly and O-rings.

REBUILD & REPAIR KIT CHART

Valve	Rebuild Kits	Repair Kits
NS201GF16C7FG9	KS201AF15G9-NSF	K201G9-NSF
NS201GF16C7GJ2	KS201AF15J2-NSF	K201J2-NSF
NS201GF16C7HJ2	KS201AF15J2-NSF	K201J2-NSF

COIL CHART

Valve	Voltage	DIN Coil	Conduit Coil
NS201GF15C7FG9	12 VDC	HS4YN15	HS4GN15A24
NS201GF15C7GJ2	12 VDC	HS4YN15	HS4GN15A24
NS201GF15C7HJ2	12 VDC	HS4YN15	HS4GN15A24
NS201GF16C7FG9	24 VDC	HS4YN16	HS4GN16A24
NS201GF16C7GJ2	24 VDC	HS4YN16	HS4GN16A24
NS201GF16C7HJ2	24 VDC	HS4YN16	HS4GN16A24
NS201GF18C7FG9	120 VDC	HS4YN18	HS4GN18A24
NS201GF18C7GJ2	120 VDC	HS4YN18	HS4GN18A24
NS201GF18C7HJ2	120 VDC	HS4YN18	HS4GN18A24
NS201GF33C7FG9	48 VDC	HS4YN33	HS4GN33A24
NS201GF33C7GJ2	48 VDC	HS4YN33	HS4GN33A24
NS201GF33C7HJ2	48 VDC	HS4YN33	HS4GN33A24

Cleaning

Cleaning fluid must be compatible with all valve components.
It is recommended that NS201 Series Valves be cleaned on a routine basis by qualified personnel. Valves should be cleaned where flow media or service conditions may determine life of valve. Apply correct voltage. If excessive leakage occurs or if the operation is sluggish, the unit must be cleaned.

SERVICE
Disassembly

WARNING

Disassembly, reassembly or internal adjustment without factory test may result in hazardous condition. If valve does not operate properly after following the INSTALLATION and MAINTENANCE instructions, complete valve must be replaced by a trained and experienced service-person.

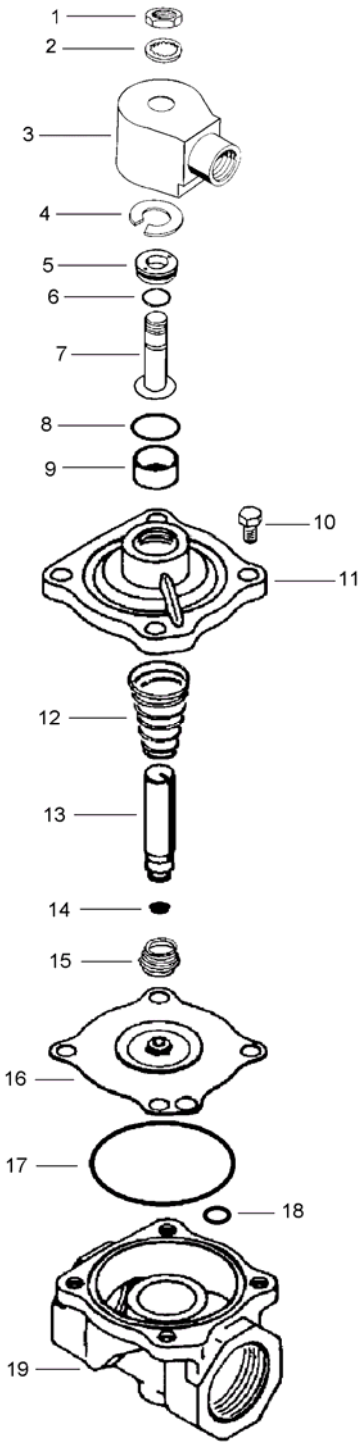
---

1. Unscrew the hex nut (1). Remove with lockwasher (2).
2. Lift off the coil (3) from the plunger tube.
3. Do not damage the solenoid assembly.
4. Use a 1” spanner nut 106198E to remove solenoid base nut (5) and plunger tube (7). Do not nick, dent, or damage plunger tube (7) or valve seating surfaces.
5. Carefully hold plunger tube (7) in position when removing from valve bonnet (11) to prevent loss of internal parts.
6. Remove return spring (12) from plunger assembly (13),
7. Remove four bonnet bolts (10) and separate the valve bonnet (11) from the valve body (19).
8. Carefully remove connecting spring (15) from the diaphragm (16) and plunger (13) assemblies.
9. Check seat disc (14) and diaphragm assembly (16) for damage or wear.
10. Replace O-rings (6, 8, 17 & 18), diaphragm assembly (16), seat disc (14) and other parts as necessary.
11. Re-assemble in reverse order from above taking care to properly re-install the seat disc (14) and connecting spring (15).
12. Tighten Tube Base Nut (5) to 18 to 24 in/lbs. and bonnet bolts (10) to 40 to 45 in/lbs.
13. Re-connect electrical and test for proper operation.

TROUBLE-SHOOTING

If valve fails to open check voltage against rating on nameplate, check voltage at solenoid lead connections, check control circuit and solenoid coil for burnout. If valve fails to close, check condition of synthetic seat insert. Check for damaged spring. Valve must be free of dirt to insure tight shutoff. If dirt is a problem, install a fine mesh strainer to insure proper closing and trouble-free operation

Buzzing or chattering can be caused by low voltage or dirt or chips between top of plunger and tube head. Check voltage--clean plunger and interior of tube and base assembly.



NS211(AC) -- Service and Installation --

08/20/2024

DESCRIPTION
The NS211 Series Solenoid Valves are 2-way, normally closed, piloted, general purpose valves specifically designed for drinking water and other food products. All stainless steel or Noryl construction with synthetic seating and sealing materials make them suitable for use with a variety of liquids, oils and gases.
Valves may be mounted in any positions. A spring loaded plunger assures positive shutoff. The S4 solenoid coil is rated at 10 watts.

OPERATION
NS211 Valves are normally closed (N.C.) and open when electrically energized.

SPECIFICATIONS
Use NS211 Valves within the specified operating ranges as indicated on the nameplate and in the complete Catalog Number. (min./max. psi, voltage, hz, maximum media temperature at F ambient, Cv factor, etc.).

OPERATING TEMPERATURES

Ambient 32	° - 125° F	Fluid	32° - 295° F

For other applications, consult the factory.

INSTALLATION
Check valve specifications to make sure of proper application.
1. Clear all lines of foreign matter .
2. Valves are multipoised and may be mounted in any position. Flow must be in direction indicated on the valve body. If sediment is a problem, install a fine mesh strainer having adequate capacity ahead of the valve.
3. Do not use the solenoid housing as a handle. Apply thread seal to the male threads only.
4. Provide a clearance for solenoid removal.
5. Wire in accordance with applicable local and national electrical codes.

MAINTENANCE

COIL REPLACEMENT
Turn off the electrical power supply to the solenoid before disconnecting the coil lead wires.
Incorrect coil reassembly can cause coil burnout. At all times, take care not to nick, dent, or damage the plunger tube.

It is not necessary to remove the valve from the pipeline. Follow Steps 1, 2 and 3 under **VALVE DISASSEMBLY**. Disassemble solenoid, taking care to note the exact order of placement and quantity parts.

Incorrect reassembly can cause coil burnout. At all times take are not to nick, dent or damage plunger tube.

PARTS
The charts which follow cover replaceable coil part numbers, Repair and Rebuild kits for most NS211 valves.

When ordering parts/kits, specify Catalog Number, Serial Number, and Part Name. If your valve's Catalog Number is not listed, obtain the complete Serial Number and consult the factory.

REBUILD KIT
The Rebuild Kit contains a plunger/spring/seat disc assembly, plunger tube assembly, O-rings and adapter ring.

REPAIR KIT
The Repair Kit contains a seat disc, diaphragm assembly and O-rings.

REBUILD & REPAIR KIT CHART

Valve	Rebuild Kits	Repair K its
NS211YF02FPCG4 K	S211AF02G4-NSF	K211G4-NSF
NS211YF02FPDG4 K	S211AF02G4-NSF	K211G4-NSF
NS211YF02FPEG5 K	S211AF02G5-NSF	K211G5-NSF
NS211YF24FPCG4	KS211AF02G4-NSF K	211G4-NSF
NS211YF24FPDG4	KS211AF02G4-NSF K	211G4-NSF
NS211YF24FPEG5	KS211AF02G5-NSF K	211G5-NSF
NS211YF02F7CG4	KS211AF02G4-NSF K	211G4-NSF
NS211YF02F7DG4	KS211AF02G4-NSF K	211G4-NSF
NS211YF02F7EG5	KS211AF02G5-NSF K	211G5-NSF
NS211YF24F7CG4	KS211AF02G4-NSF K	211G4-NSF
NS211YF24F7DG4	KS211AF02G4-NSF K	211G4-NSF
NS211YF24F7EG5	KS211AF02G5-NSF K	211G5-NSF

COIL CHART

Valve	Voltage	DIN Coil	Conduit Coil
NS211YF02FPCG4	120V 50/60	HS3YN02 HS3	GN02A24
NS211YF02FPDG4	120V 50/60	HS3YN02 HS3	GN02A24
NS211YF02FPEG5	120V 50/60	HS3YN02 HS3	GN02A24
NS211YF24FPCG4	24V 50/60	HS3YN24 HS3	GN24A24
NS211YF24FPDG4	24V 50/60	HS3YN24 HS3	GN24A24
NS211YF24FPEG5	24V 50/60	HS3YN24 HS3	GN24A24
NS211YF02F7CG4	120V 50/60	HS3YN02 HS3	GN02A24
NS211YF02F7DG4	120V 50/60	HS3YN02 HS3	GN02A24
NS211YF02F7EG5	120V 50/60	HS3YN02 HS3	GN02A24
NS211YF24F7CG4	24V 50/60	HS3YN24 HS3	GN24A24
NS211YF24F7DG4	24V 50/60	HS3YN24 HS3	GN24A24
NS211YF24F7EG5	24V 50/60	HS3YN24 HS3	GN24A24

Cleaning
Cleaning fluid must be compatible with all valve components.
It is recommended that NS211 Series Valves be cleaned on a routine basis by qualified personnel. Valves should be cleaned where flow media or service conditions may determine life of valve. Apply correct voltage. If excessive leakage occurs or if the operation is sluggish, the unit must be cleaned.

SERVICE
Disassembly

WARNING

Disassembly, reassembly or internal adjustment without factory test may result in hazardous condition. If valve does not operate properly after following the INSTALLATION and MAINTENANCE instructions, complete valve must be replaced by a trained and experienced service-person.

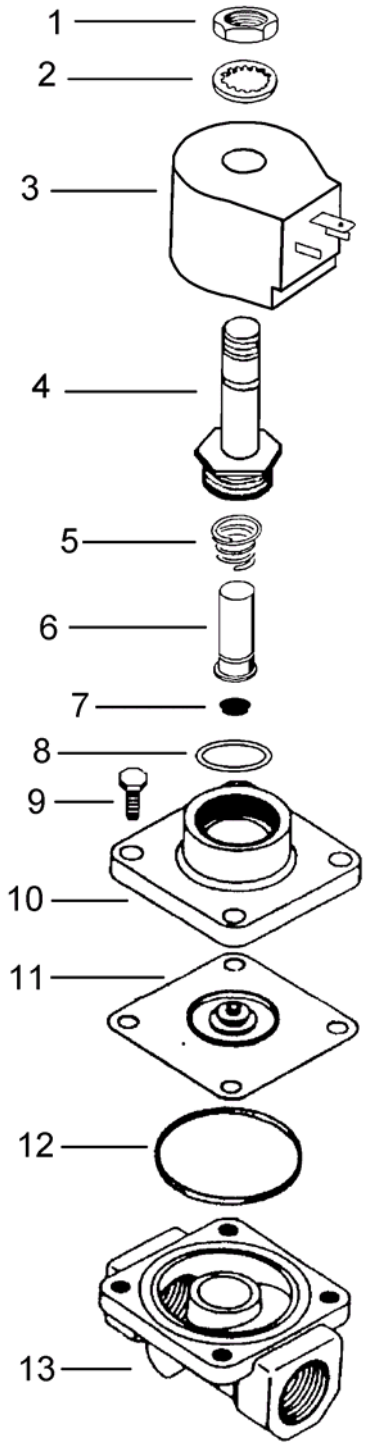
---

1. Unscrew the hex nut (1). Remove with lockwasher (2).
2. Lift off the coil (3) from the plunger tube.
3. Do not damage the solenoid assembly.
4. Use a 1" spanner to remove solenoid base nut and plunger tube (4). Do not nick, dent, or damage plunger tube (4) or valve seating surfaces.
5. Carefully hold plunger tube (4) in position when removing from valve bonnet (10) to prevent loss of internal parts.
6. Remove plunger/spring assembly (5, 6, & 7),
7. Remove four bonnet bolts (10) and separate the valve bonnet (10) from the valve body (13).
8. Check seat disc (7) and diaphragm assembly (11) for damage or wear.
9. Replace O-rings (8 & 12), diaphragm assembly (11), seat disc (7) and other parts as necessary.
10. Re-assemble in reverse order from above taking care to properly re-install the seat disc (7).
11. Tighten tube base nut (4) to 18 to 24 in/lbs and bonnet bolts (9) to 40 to 45 in/lbs.
12. Re-connect electrical and test for proper operation.

TROUBLE-SHOOTING

If valve fails to open check voltage against rating on nameplate, check voltage at solenoid lead connections, check control circuit and solenoid coil for burnout. If valve fails to close, check condition of synthetic seat insert. Check for damaged spring. Valve must be free of dirt to insure tight shutoff. If dirt is a problem, install a fine mesh strainer to insure proper closing and trouble-free operation

Buzzing or chattering can be caused by low voltage or dirt or chips between top of plunger and tube head. Check voltage--clean plunger and interior of tube and base assembly.



NS211(DC) -- Service and Installation --

08/20/2024

DESCRIPTION
The NS211 Series Solenoid Valves are 2-way, normally closed, piloted, general purpose valves specifically designed for drinking water and other food products. All stainless steel or Noryl construction with synthetic seating and sealing materials make them suitable for use with a variety of liquids, oils and gases.
Valves may be mounted in any positions. A spring loaded plunger assures positive shutoff. The S4 solenoid coil is rated at 10 watts.

OPERATION
NS211 Valves are normally closed (N.C.) and open when electrically energized.

SPECIFICATIONS
Use NS211 Valves within the specified operating ranges as indicated on the nameplate and in the complete Catalog Number. (min./max. psi, voltage, hz, maximum media temperature at F ambient, Cv factor, etc.).

OPERATING TEMPERATURES

Ambient 32	° - 125° F	Fluid	32° - 295° F

For other applications, consult the factory.

INSTALLATION
Check valve specifications to make sure of proper application.
1. Clear all lines of foreign matter .
2. Valves are multipoised and may be mounted in any position. Flow must be in direction indicated on the valve body. If sediment is a problem, install a fine mesh strainer having adequate capacity ahead of the valve.
3. Do not use the solenoid housing as a handle. Apply thread seal to the male threads only.
4. Provide a clearance for solenoid removal.
5. Wire in accordance with applicable local and national electrical codes.

MAINTENANCE

COIL REPLACEMENT
Turn off the electrical power supply to the solenoid before disconnecting the coil lead wires.
Incorrect coil reassembly can cause coil burnout. At all times, take care not to nick, dent, or damage the plunger tube.

It is not necessary to remove the valve from the pipeline. Follow Steps 1, 2 and 3 under **VALVE DISASSEMBLY**. Disassemble solenoid, taking care to note the exact order of placement and quantity parts.

Incorrect reassembly can cause coil burnout. At all times take are not to nick, dent or damage plunger tube.

PARTS
The charts which follow cover replaceable coil part numbers, Repair and Rebuild kits for most NS211 valves.

When ordering parts/kits, specify Catalog Number, Serial Number, and Part Name. If your valve's Catalog Number is not listed, obtain the complete Serial Number and consult the factory.

REBUILD KIT
The Rebuild Kit contains a plunger/spring/seat disc assembly, plunger tube assembly, O-rings and adapter ring.

REPAIR KIT
The Repair Kit contains a seat disc, diaphragm assembly and O-rings.

REBUILD & REPAIR KIT CHART

Valve	Rebuild Kits	Repair K its
NS211YF16FPCG4	KS211AF15G4-NSF K	211G415-NSF
NS211YF16FPDG4	KS211AF15G4-NSF K	211G415-NSF
NS211YF16FPEG5	KS211AF15G5-NSF K	211G515-NSF
NS211YF16F7CG4	KS211AF15G4-NSF K	211G415-NSF
NS211YF16F7DG4	KS211AF15G4-NSF K	211G415-NSF
NS211YF16F7EG5	KS211AF15G5-NSF K	211G515-NSF

COIL CHART

Valve	Voltage	DIN Coil	Conduit Coil
NS211YF16FPCG4	24V DC	HS4YN16	HS4GN16A24
NS211YF16FPDG4	24V DC	HS4YN16	HS4GN16A24
NS211YF16FPEG5	24V DC	HS4YN16	HS4GN16A24
NS211YF16F7CG4	24V DC	HS4YN16	HS4GN16A24
NS211YF16F7DG4	24V DC	HS4YN16	HS4GN16A24
NS211YF16F7EG5	24V DC	HS4YN16	HS4GN16A24

Cleaning
Cleaning fluid must be compatible with all valve components.
It is recommended that NS211 Series Valves be cleaned on a routine basis by qualified personnel. Valves should be cleaned where flow media or service conditions may determine life of valve. Apply correct voltage. If excessive leakage occurs or if the operation is sluggish, the unit must be cleaned.

SERVICE
Disassembly

WARNING

Disassembly, reassembly or internal adjustment without factory test may result in hazardous condition. If valve does not operate properly after following the INSTALLATION and MAINTENANCE instructions, complete valve must be replaced by a trained and experienced service-person.

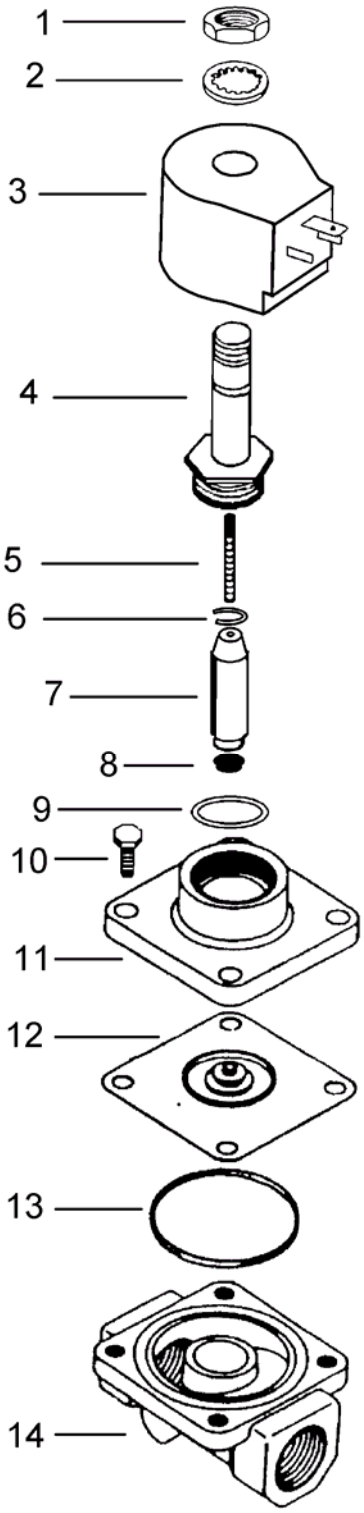
---

1. Unscrew the hex nut (1). Remove with lockwasher (2).
2. Lift off the coil (3) from the plunger tube.
3. Do not damage the solenoid assembly.
4. Use a 1" spanner to remove solenoid base nut and plunger tube (4). Do not nick, dent, or damage plunger tube (4) or valve seating surfaces.
5. Carefully hold plunger tube (4) in position when removing from valve bonnet (11) to prevent loss of internal parts.
6. Remove return spring (5) plunger assembly (7),
7. Remove four bonnet bolts (10) and separate the valve bonnet (11) from the valve body (14).
8. Check seat disc (8) snap ring (6) and diaphragm assembly (12) for damage or wear.
9. Replace O-rings (9 & 13), diaphragm assembly (12), seat disc (8) and other parts as necessary.
10. Re-assemble in reverse order from above taking care to properly re-install the seat disc (8).
11. Tighten tube base nut (4) to 18 to 24 in/lbs and bonnet bolts (10) to 40 to 45 in/lbs.
12. Re-connect electrical and test for proper operation.

TROUBLE-SHOOTING

If valve fails to open check voltage against rating on nameplate, check voltage at solenoid lead connections, check control circuit and solenoid coil for burnout. If valve fails to close, check condition of synthetic seat insert. Check for damaged spring. Valve must be free of dirt to insure tight shutoff. If dirt is a problem, install a fine mesh strainer to insure proper closing and trouble-free operation

Buzzing or chattering can be caused by low voltage or dirt or chips between top of plunger and tube head. Check voltage--clean plunger and interior of tube and base assembly.



NS211 F,G,H, & J -- Service and Installation --

08/20/2024

DESCRIPTION
The NS211 Series Solenoid Valves are 2-way, normally closed, piloted, general purpose valves. Stainless steel or Brass construction with synthetic seating and sealing materials make them suitable for use with a variety of liquids, oils and gases.
Valves should be mounted with the operator in a vertical position

OPERATION
NS211 Valves are normally closed (N.C.) and open when electrically energized.

SPECIFICATIONS
Use NS211 Valves within the specified operating ranges as indicated on the nameplate and in the complete Catalog Number. (min./max. psi, voltage, hz, maximum media temperature at F ambient, Cv factor, etc.).

OPERATING TEMPERATURES

Ambient	Elastomer	Fluid
32° - 125° F	EPR	32° - 295° F

For other applications, consult the factory.

INSTALLATION
Check valve specifications to make sure of proper application.
1. Clear all lines of foreign matter.
2. Valves should be mounted with the operator in a vertical/upright position. Flow must be in direction indicated on the valve body. If sediment is a problem, install a fine mesh strainer having adequate capacity ahead of the valve.
3. Do not use the solenoid housing as a handle. Apply thread seal to the male threads only.
4. Provide a clearance for solenoid coil removal.
5. Wire in accordance with applicable local and national electrical codes.

MAINTENANCE

COIL REPLACEMENT
Turn off the electrical power supply to the solenoid before disconnecting the coil lead wires.
Incorrect coil reassembly can cause coil burnout.

It is not necessary to remove the valve from the pipeline. Follow Steps 1, 2 and 3 under **DISASSEMBLY**. Disassemble solenoid, taking care to note the exact order of placement and quantity parts.

Incorrect reassembly can cause coil burnout. At all times take care not to nick, dent or damage plunger tube.

PARTS
The charts which follow cover replaceable coil part numbers, Repair and Rebuild kits for most NS211 valves.

When ordering parts/kits, specify Catalog Number, Serial Number, and Part Name. If your valve's Catalog Number is not listed, consult the factory.

REBUILD KIT
The Rebuild Kit contains a plunger/seat disc assembly, spring, diaphragm assembly, plunger tube assembly and O-rings.

REPAIR KIT
The Repair Kit contains a seat disc, O-rings and diaphragm assembly.

REBUILD & REPAIR KIT CHART

Valve	Rebuild Kits	Repair Kits
NS211GF02C7FG9	KS211AF02G9-NSF	K211G9-NSF
NS211GF02C7GJ2	KS211AF02J2-NSF	K211J2-NSF
NS211GF02C7HJ2	KS211AF02J2-NSF	K211J2-NSF
NS211GF02C7JJ2	KS211AF02J2-NSF	K211J2-NSF
NS211GF16C7FG9	KS211AF15G9-NSF	K211G9-NSF
NS211GF16C7GJ2	KS211AF15J2-NSF	K211J2-NSF
NS211GF16C7HJ2	KS211AF15J2-NSF	K211J2-NSF
NS211GF16C7JJ2	KS211AF15J2-NSF	K211J2-NSF

COIL CHART

Valve	Voltage	DIN Coil	Conduit Coil
NS211GF02C7FG9	120V 50/60	HS3YN02	HS3GN02A24
NS211GF02C7GJ2	120V 50/60	HS3YN02	HS3GN02A24
NS211GF02C7HJ2	120V 50/60	HS3YN02	HS3GN02A24
NS211GF02C7JJ2	120V 50/60	HS3YN02	HS3GN02A24
NS211GF16C7FG9	24 VDC	HS3YN16	HS3GN16A24
NS211GF16C7GJ2	24 VDC	HS3YN16	HS3GN16A24
NS211GF16C7HJ2	24 VDC	HS3YN16	HS3GN16A24
NS211GF16C7JJ2	24 VDC	HS3YN16	HS3GN16A24

Cleaning
Cleaning fluid must be compatible with all valve components.
It is recommended that NS211 Series Valves be cleaned on a routine basis by qualified personnel. Valves should be cleaned where flow media or service conditions may determine life of valve. Apply correct voltage. If excessive leakage occurs or if the operation is sluggish, the unit must be cleaned.

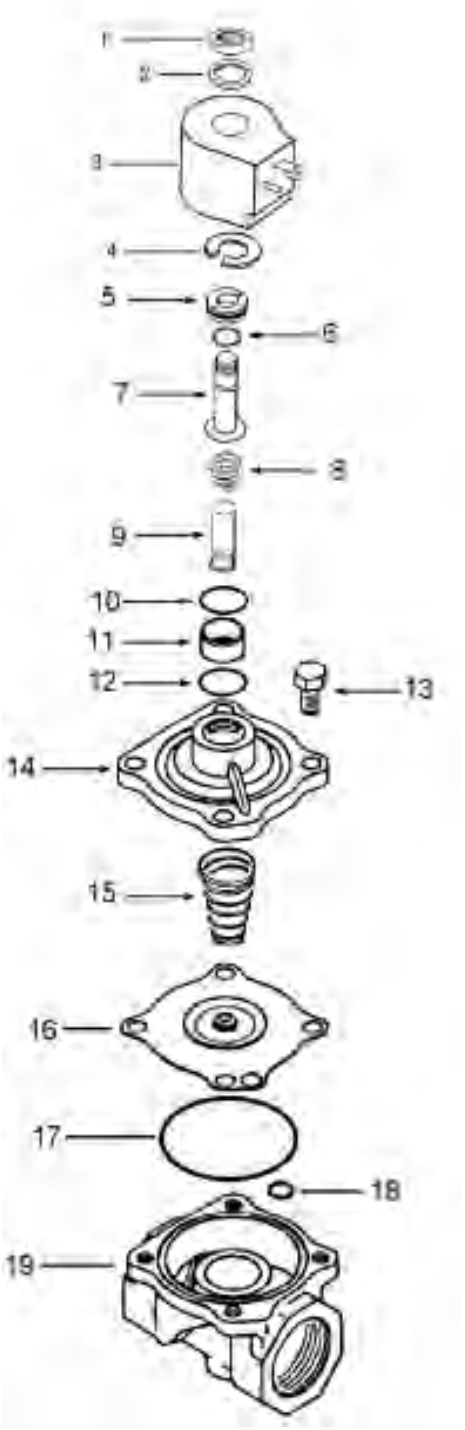
SERVICE
Disassembly

WARNING

Disassembly, reassembly or internal adjustment without factory test may result in hazardous condition. If valve does not operate properly after following the INSTALLATION and MAINTENANCE instructions, complete valve must be replaced by a trained and experienced service-person.

---

1. Disconnect electrical connections and remove the retaining nut (1). Remove with lockwasher (2).
2. Lift off the coil housing (3) and split washer (4) from the plunger tube (7)
3. Do not damage the solenoid assembly.
4. Use a GC Valves Spanner Nut (106198E) to remove gland nut (5) and plunger tube (7). Do not nick, dent, or damage plunger tube (7) or valve seating surfaces.
5. Carefully hold plunger tube (7) in position when removing from valve bonnet (12) to prevent loss of internal parts.
6. Remove return spring (8) plunger assembly (9),
7. Remove four bonnet bolts (13) and separate the valve bonnet (14) from the valve body (19).
8. Carefully remove seat insert (11) from the bonnet (14) by pressing the seat insert out from the underside of the bonnet (14). This must be done to replace the seat insert O-rings (10 & 12)
9. Check plunger seat disc (9) and diaphragm assembly (16) for damage or wear.
10. Replace O-rings (10, 12, 17, & 18), diaphragm assembly (16), plunger seat disc (9) and other parts as necessary.
11. Re-assemble in reverse order from above taking care to properly re-install all items as removed.
12. Tighten Gland Nut (5) 18 to 24 in/lbs, and bonnet bolts (13) to 40 to 45 in/lbs.
13. Re-connect electrical and test for proper operation.



TROUBLE-SHOOTING

If valve fails to open check voltage against rating on nameplate, check voltage at solenoid lead connections, check control circuit and solenoid coil for burnout. If valve fails to close, check condition of synthetic seat insert. Check for damaged spring. Valve must be free of dirt to insure tight shutoff. If dirt is a problem, install a fine mesh strainer to insure proper closing and trouble-free operation

Buzzing or chattering can be caused by low voltage or dirt or chips between top of plunger and tube head. Check voltage--clean plunger and interior of tube and base assembly.

NS212 F,G,H, & J -- Service and Installation --

08/20/2024

DESCRIPTION
The NS212 Series Solenoid Valves are 2-way, normally open, piloted, general purpose valves specifically designed for drinking water and other food products. All stainless steel construction with synthetic seating and sealing materials make them suitable for use with a variety of food grade liquids, and gases.

Valves should be mounted with the operator in a vertical position

OPERATION
NS212 Valves are normally open (N.O.) and closes when electrically energized.

SPECIFICATIONS
Use NS212 Valves within the specified operating ranges as indicated on the nameplate and in the complete Catalog Number. (min./max. psi, voltage, hz, maximum media temperature at F ambient, Cv factor, etc.).

OPERATING TEMPERATURES

Ambient	Elastomer	Fluid
32° - 125° F	EPR	32° - 295° F

For other applications, consult the factory.

INSTALLATION
Check valve specifications to make sure of proper application.
1. Clear all lines of foreign matter.
2. Valves should be mounted with the operator in a vertical/upright position. Flow must be in direction indicated on the valve body. If sediment is a problem, install a fine mesh strainer having adequate capacity ahead of the valve.
3. Do not use the solenoid housing as a handle. Apply thread seal to the male threads only.
4. Provide a clearance for solenoid coil removal.
5. Wire in accordance with applicable local and national electrical codes.

MAINTENANCE

COIL REPLACEMENT
Turn off the electrical power supply to the solenoid before disconnecting the coil lead wires.
Incorrect coil reassembly can cause coil burnout.

It is not necessary to remove the valve from the pipeline. Follow Steps 1, 2 and 3 under **DISASSEMBLY**. Disassemble solenoid, taking care to note the exact order of placement and quantity parts.

Incorrect reassembly can cause coil burnout. At all times take care not to nick, dent or damage plunger tube.

PARTS
The charts which follow cover replaceable coil part numbers, Repair and Rebuild kits for most NS212 valves.

When ordering parts/kits, specify Catalog Number, Serial Number, and Part Name. If your valve's Catalog Number is not listed, consult the factory.

REBUILD KIT
The Rebuild Kit contains a plunger/seat disc assembly, spring, diaphragm assembly, plunger tube assembly and O-rings.

REPAIR KIT
The Repair Kit contains a seat disc, O-rings and diaphragm assembly.

REBUILD & REPAIR KIT CHART

Valve	Rebuild Kits	Repair Kits
NS212----C7FG9	KS212AF02G9-NSF	K212G9-NSF
NS212----C7GJ2	KS212AF02J2-NSF	K212J2-NSF
NS212----C7HJ2	KS212AF02J2-NSF	K212J2-NSF
NS212----C7JJ2	KS212AF02J2-NSF	K212J2-NSF

COIL CHART

Valve	Voltage	DIN Coil	Conduit Coil
NS212GF02C7FG9-JJ2	120V 50/60	HS3YN02	HS3GN02A24
NS212GF15C7FG9-JJ2	12 VDC	HS3YN15	HS3GN15A24
NS212GF16C7FG9-JJ2	24 VDC	HS3YN16	HS3GN16A24
NS212GF24C7FG9-JJ2	24V 50/60	HS3YN24	HS3GN24A24

Cleaning
Cleaning fluid must be compatible with all valve components.
It is recommended that NS212 Series Valves be cleaned on a routine basis by qualified personnel. Valves should be cleaned where flow media or service conditions may determine life of valve. Apply correct voltage. If excessive leakage occurs or if the operation is sluggish, the unit must be cleaned.

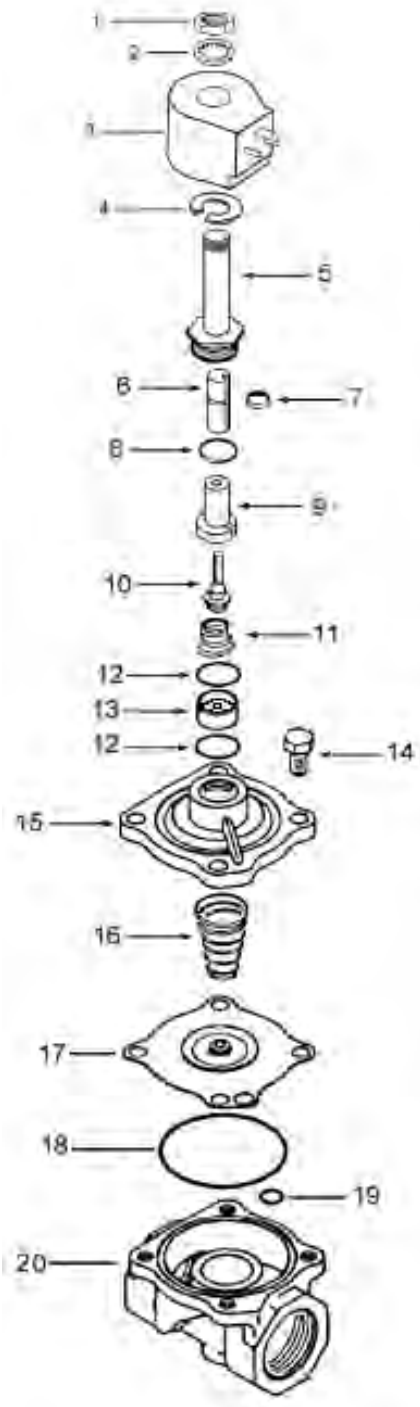
SERVICE
Disassembly

WARNING

Disassembly, reassembly or internal adjustment without factory test may result in hazardous condition. If valve does not operate properly after following the INSTALLATION and MAINTENANCE instructions, complete valve must be replaced by a trained and experienced service-person.

---

1. Disconnect electrical connections and remove the retaining nut (1). Remove with lockwasher (2).
2. Lift off the coil housing (3) and split washer (4) from the plunger tube (7)
3. Do not damage the solenoid assembly.
4. Use a 1” Deep Socket to remove plunger tube (5). Do not nick, dent, or damage plunger tube (5) or valve seating surfaces.
5. Carefully hold plunger tube (5) in position when removing from valve bonnet (15) to prevent loss of internal parts.
6. Remove plunger assembly (6), tube head (9), seat retainer (10), and return spring (11).
7. Remove four bonnet bolts (14) and separate the valve bonnet (15) from the valve body (20).
8. Carefully remove seat insert (13) from the bonnet (15) by pressing the seat insert out from the underside of the bonnet (15). This must be done to replace the seat insert O-rings (12).
9. Check seat retainer seat disc (10) and diaphragm assembly (17) for damage or wear.
10. Replace O-rings (8, 12, 18, & 19), diaphragm assembly (17), plunger seat disc (10) and other parts as necessary.
11. Re-assemble in reverse order from above taking care to properly re-install all items as removed.
12. Tighten plunger tube (5) 24 in/lbs, and bonnet bolts (14) to 40 to 45 in/lbs.
13. Re-connect electrical and test for proper operation.



TROUBLE-SHOOTING

If valve fails to open check voltage against rating on nameplate, check voltage at solenoid lead connections, check control circuit and solenoid coil for burnout. If valve fails to close, check condition of synthetic seat insert. Check for damaged spring. Valve must be free of dirt to insure tight shutoff. If dirt is a problem, install a fine mesh strainer to insure proper closing and trouble-free operation

Buzzing or chattering can be caused by low voltage or dirt or chips between top of plunger and tube head. Check voltage--clean plunger and interior of tube and base assembly.

NS301 - Service and Installation -

08/20/2024

DESCRIPTION
The NS301 Series Solenoid Valves are 2-way, normally closed, direct acting, general purpose valves specifically designed for drinking water and other food products. All stainless steel construction with synthetic seating and sealing materials make them suitable for use with a variety of liquids, oils and gases.
Valves may be mounted in any positions. A spring loaded plunger assures positive shutoff. The S4 solenoid coil is rated at 10 watts.

OPERATION
NS301 Valves are normally closed (N.C.) and open when electrically energized.

SPECIFICATIONS
Use NS301 Valves within the specified operating ranges as indicated on the nameplate and in the complete Catalog Number. (min./max. psi, voltage, cycle, maximum media temperature at F ambient, Cv factor, etc.).

OPERATING TEMPERATURES

Ambient 32	° - 125° F	Fluid	32° - 295° F

For other applications, consult the factory.

INSTALLATION
Check valve specifications to make sure of proper application.
1. Clear all lines of foreign matter .
2. Valves are multipoised and may be mounted in any position. Flow must be in direction indicated on the valve body. If sediment is a problem, install a fine mesh strainer having adequate capacity ahead of the valve.
3. Do not use the solenoid housing as a handle. Apply thread seal to the male threads only.
4. Provide a clearance for solenoid removal.
5. Wire in accordance with applicable local and national electrical codes.

MAINTENANCE

Cleaning
Cleaning fluid must be compatible with all valve components.
It is recommended that NS301 Series Valves be cleaned on a routine basis by qualified personnel. Valves should be cleaned where flow media or service conditions may determine life of valve. Apply correct voltage. If excessive leakage occurs or if the operation is sluggish, the unit must be cleaned.

PARTS
The charts which follow cover replaceable coil part numbers, Repair and Rebuild kits for most NS301 valves.

When ordering parts/kits, specify Catalog Number, Serial Number, and Part Name. If your valve's Catalog Number is not listed, obtain the complete Serial Number and consult the factory.

COIL REPLACEMENT
Turn off the electrical power supply to the solenoid before disconnecting the coil lead wires.
Incorrect coil reassembly can cause coil burnout. At all times, take care not to nick, dent, or damage the plunger tube.

It is not necessary to remove the valve from the pipeline.
Follow Steps 1, 2 and 3 under **VALVE DISASSEMBLY**.
Disassemble solenoid, taking care to note the exact order of placement and quantity parts.

Incorrect reassembly can cause coil burnout. At all times take are not to nick, dent or damage plunger tube.

REBUILD KIT
The Rebuild Kit contains a plunger/spring/seat disc assembly, plunger tube assembly, O-rings and adapter ring.

REPAIR KIT
The Repair Kit contains a seat disc, and O-rings.

REBUILD & REPAIR KIT CHART

Valve	Rebuild Kits	Repair K its
NS301YF02C3BE7 K	S301AF02E7-NSF	K301E7-NSF
NS301YF02C3BD5 K	S301AF02C3-NSF	K301C3-NSF
NS301YF02C3BC9 K	S301AF02C3-NSF	K301C3-NSF
NS301YF24C3BE7	KS301AF02E7-NSF	K301E7-NSF
NS301YF24C3BD5	KS301AF02C3-NSF	K301C3-NSF
NS301YF24C3BC9	KS301AF02C3-NSF	K301C3-NSF
NS301YF16C3BE7	KS301AF02E7-NSF	K301E7-NSF
NS301YF16C3BD5	KS301AF02C3-NSF	K301C3-NSF
NS301YF16C3BC9	KS301AF02C3-NSF	K301C3-NSF

COIL CHART

Valve	Voltage	DIN Coil	Conduit Coil
NS301YF02C3BE7	120V 50/60	HS4YN02	HS4GN02A24
NS301YF02C3BD5	120V 50/60	HS4YN02	HS4GN02A24
NS301YF02C3BC9	120V 50/60	HS4YN02	HS4GN02A24
NS301YF24C3BE7	24V 50/60	HS4YN24	HS4GN24A24
NS301YF24C3BD5	24V 50/60	HS4YN24	HS4GN24A24
NS301YF24C3BC9	24V 50/60	HS4YN24	HS4GN24A24
NS301YF16C3BE7	24 VDC	HS4YN16	HS4GN16A24
NS301YF16C3BD5	24 VDC	HS4YN16	HS4GN16A24
NS301YF16C3BC9	24 VDC	HS4YN16	HS4GN16A24

SERVICE

DISASSEMBLY AND REPAIR KIT INSTALLATION

WARNING

Disassembly, reassembly or internal adjustment without factory test may result in hazardous condition. If valve does not operate properly after following the INSTALLATION and MAINTENANCE instructions, complete valve must be replaced by a trained and experienced service-person.

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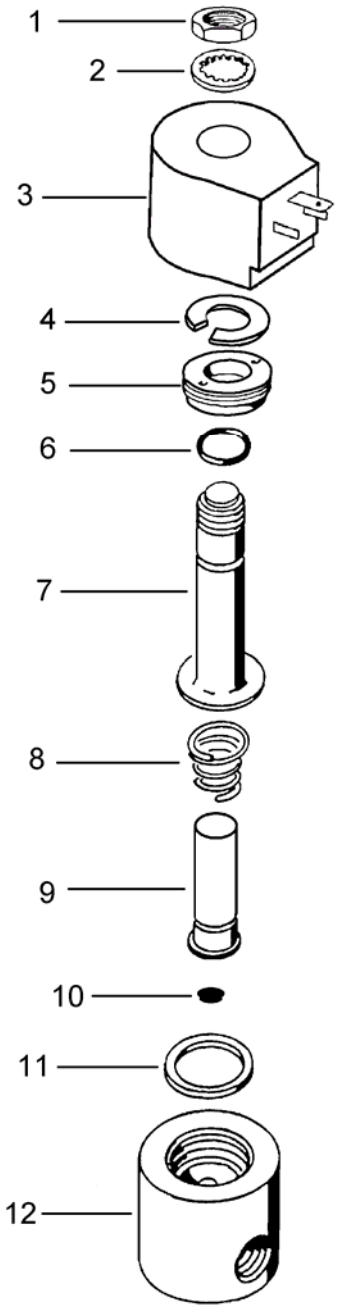
1. Unscrew the hex nut (1). Remove with lockwasher (2).
2. Lift off the coil (3) from the plunger tube.
3. Do not damage the solenoid assembly.
4. Use GC Valves spanner nut (106198E) or similar tool to remove solenoid base nut (5) and plunger tube (7). Do not nick dent or damage plunger tube (7) or valve seating surfaces.
5. Hold plunger tube (7) in position when removing from valve body (12) to prevent loss of internal parts.
6. Carefully remove the plunger/spring/seat disc assembly (8, 9 & 10),
7. Check seating surfaces on the seat disc (10) and valve body (12) for damage or wear.
8. Replace seat disc (10) body O-ring (11) and other parts as necessary.
9. Re-assemble in reverse order from above taking care to properly install the seat disc (10), plunger (9) and plunger tube (7).
10. Tighten solenoid base nut (5) to 25 In/Lbs.
11. Re-connect electrical and test for proper operation.



REBUILD KIT INSTALLATION AND ASSEMBLY

WARNING

Disassembly, reassembly or internal adjustment without factory test may result in hazardous condition. If valve does not operate properly after following the INSTALLATION and MAINTENANCE instructions, complete valve must be replaced by a trained and experienced service-person.

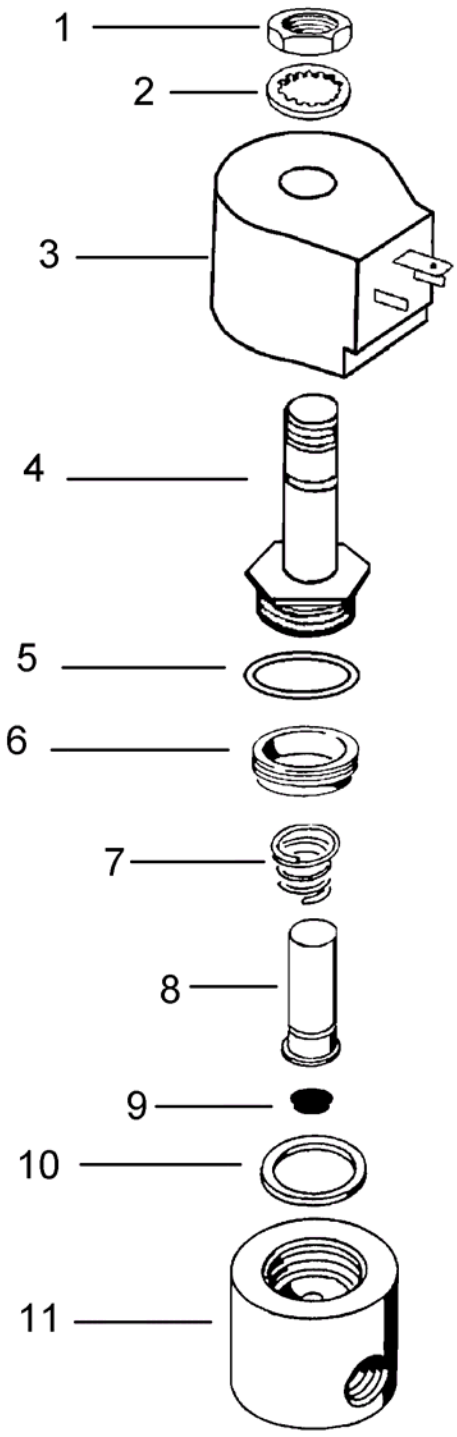
---

1. Carefully install seat disc (9) and spring (7) on the plunger (8).
2. Place body O-ring (10) in valve body (11) operator cavity..
3. Place tube O-ring (5) on plunger tube (4) base.
4. Thread adapter ring (6) on plunger tube (4) base.
5. Place plunger assembly (7, 8 & 9) in valve body (11) cavity.
6. Carefully thread plunger tube assembly (4, 5 & 6) into valve body (11).
7. Use a 1" spanner to tighten solenoid base nut and plunger tube (4). Do not nick, dent, or damage plunger tube (4) or valve seating surfaces.
8. Tighten plunger tube base nut (4) to 24 In/Lbs.
9. Replace coil (3), lockwasher (2) and top nut (1). Tighten to approximately 25 In/Lbs.
11. Re-connect electrical and test for proper operation.

TROUBLE-SHOOTING

If valve fails to open check voltage against rating on nameplate, check voltage at solenoid lead connections, check control circuit and solenoid coil for burnout. If valve fails to close, check condition of synthetic seat insert. Check for damaged spring. Valve must be free of dirt to insure tight shutoff. If dirt is a problem, install a fine mesh strainer to insure proper closing and trouble-free operation

Buzzing or chattering can be caused by low voltage or dirt or chips between top of plunger and tube head. Check voltage--clean plunger and interior of tube and base assembly.



NS311 - Service and Installation -

08/20/2024

DESCRIPTION
The NS311 Series Solenoid Valves are 2-way, normally closed, direct acting, general purpose valves specifically designed for drinking water and other food products. All stainless steel construction with synthetic seating and sealing materials make them suitable for use with a variety of liquids, oils and gases.
Valves may be mounted in any positions. A spring loaded plunger assures positive shutoff. The S3 solenoid coil is rated at 8 watts.

OPERATION
NS311 Valves are normally closed (N.C.) and open when electrically energized.

SPECIFICATIONS
Use NS311 Valves within the specified operating ranges as indicated on the nameplate (Adhere Label Products, MM2005 TC329, Ribbon/Ink – Dainippon R510HF, Adhere UL File – MH62109) and in the complete Catalog Number. (max. psi, voltage, cycle, max. media temperature at F ambient, Cv factor, etc.).

OPERATING TEMPERATURES

Ambient	32° - 125° F	Fluid (EPR)	32° - 295° F

For other applications, consult the factory.

INSTALLATION
Check valve specifications to make sure of proper application.
1. Clear all lines of foreign matter.
2. Valves are multi-poised and may be mounted in any position. Flow must be in direction indicated on the valve body. If sediment is a problem, install a fine mesh strainer having adequate capacity ahead of the valve.
3. Do not use the solenoid housing as a handle. Apply thread seal to the male threads only.
4. Provide a clearance for solenoid removal.
5. Wire in accordance with applicable local and national electrical codes.

MAINTENANCE

Cleaning
Cleaning fluid must be compatible with all valve components.
It is recommended that NS311 Series Valves be cleaned on a routine basis by qualified personnel. Valves should be cleaned where flow media or service conditions may determine life of valve. Apply correct voltage. If excessive leakage occurs or if the operation is sluggish, the unit must be cleaned.

PARTS
The charts which follow cover replaceable coil part numbers, Repair and Rebuild kits for most NS311 valves.

When ordering parts/kits, specify Catalog Number, Serial Number, and Part Name. If your valve's Catalog Number is not listed, obtain the complete Serial Number and consult the factory.

COIL REPLACEMENT
Turn off the electrical power supply to the solenoid before disconnecting the coil lead wires.

It is not necessary to remove the valve from the pipeline. Follow Steps 1, 2 and 3 under **VALVE DISASSEMBLY**. Disassemble solenoid, taking care to note the exact order of placement and quantity parts.

Incorrect reassembly can cause coil burnout. At all times take care not to nick, dent or damage plunger tube.

REBUILD KIT
The Rebuild Kit contains a plunger/spring/seat disc assembly, plunger tube assembly, O-rings and adapter ring.

REPAIR KIT
The Repair Kit contains a seat disc, and O-rings.

REBUILD & REPAIR KIT CHART

Valve	Rebuild Kits	Repair Kits
NS311____C3BC3-E1	KS311AF02C3-NSF	K311C3-NSF
NS311____C3BE7-F1	KS311AF02E7-NSF	K311E7-NSF

COIL CHART

Valve	Voltage	DIN Coil	Conduit Coil
NS311GF02_____	120V 50/60	HS3YN02	HS3GN02A24
NS311GF24_____	24V 50/60	HS3YN24	HS3GN24A24
NS311GF15_____	12 VDC	HS3YN15	HS3GN15A24
NS311GF16_____	24 VDC	HS3YN16	HS3GN16A24

SERVICE

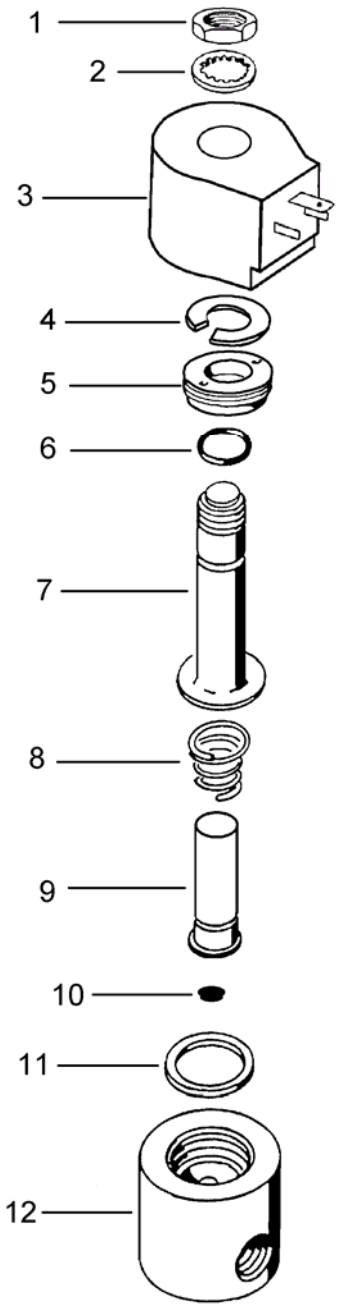
DISASSEMBLY AND REPAIR KIT INSTALLATION

WARNING

Disassembly, reassembly or internal adjustment without factory test may result in hazardous condition. If valve does not operate properly after following the INSTALLATION and MAINTENANCE instructions, complete valve must be replaced by a trained and experienced service-person.

---

1. Unscrew the hex nut (1). Remove with lockwasher (2).
2. Lift off the coil (3) from the plunger tube.
3. Do not damage the solenoid assembly.
4. Remove split washer (4).
5. Use GC Valves spanner nut (106198E) or similar tool to remove solenoid base nut (5) and plunger tube (7). Do not nick dent or damage plunger tube (7) or valve seating surfaces.
6. Hold plunger tube (7) in position when removing from valve body (12) to prevent loss of internal parts.
7. Carefully remove the plunger/spring/seat disc assembly (8, 9 & 10),
8. Check seating surfaces on the seat disc (10) and valve body (12) for damage or wear.
9. Replace seat disc (10) body O-ring (11) and other parts as necessary.
10. Re-assemble in reverse order from above taking care to properly install the seat disc (10), plunger (9) and plunger tube (7).
11. Tighten solenoid base nut (5) to 25 In/Lbs.
12. Re-connect electrical and test for proper operation.



REBUILD KIT INSTALLATION AND ASSEMBLY

WARNING

Disassembly, reassembly or internal adjustment without factory test may result in hazardous condition. If valve does not operate properly after following the INSTALLATION and MAINTENANCE instructions, complete valve must be replaced by a trained and experienced service-person.

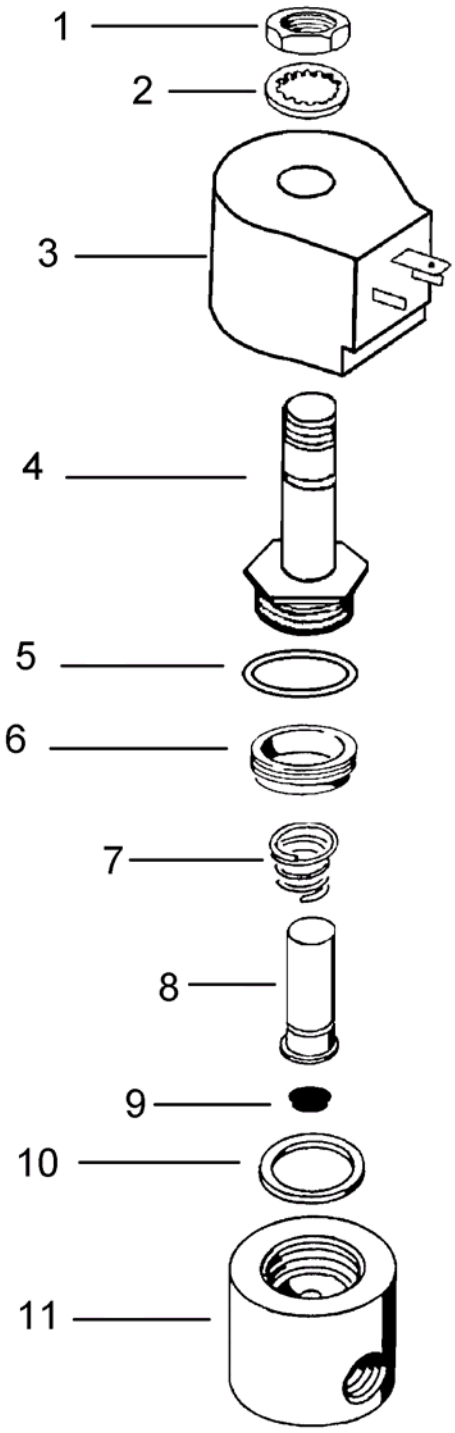
---

1. Carefully install seat disc (9) and spring (7) on the plunger (8).
2. Place body O-ring (10) in valve body (11) operator cavity..
3. Place tube O-ring (5) on plunger tube (4) base.
4. Thread adapter ring (6) on plunger tube (4) base.
5. Place plunger assembly (7, 8 & 9) in valve body (11) cavity.
6. Carefully thread plunger tube assembly (4, 5 & 6) into valve body (11).
7. Use a 1” spanner to tighten solenoid base nut and plunger tube (4). Do not nick, dent, or damage plunger tube (4) or valve seating surfaces.
8. Tighten plunger tube base nut (4) to 24 In/Lbs.
9. Replace coil (3), lockwasher (2) and top nut (1). Tighten to approximately 25 In/Lbs.
11. Re-connect electrical and test for proper operation.

TROUBLE-SHOOTING

If valve fails to open check voltage against rating on nameplate, check voltage at solenoid lead connections, check control circuit and solenoid coil for burnout. If valve fails to close, check condition of synthetic seat insert. Check for damaged spring. Valve must be free of dirt to insure tight shutoff. If dirt is a problem, install a fine mesh strainer to insure proper closing and trouble-free operation

Buzzing or chattering can be caused by low voltage or dirt or chips between top of plunger and tube head. Check voltage--clean plunger and interior of tube and base assembly.



NS711 -- Service and Installation --

08/20/2024

DESCRIPTION
The NS711 Series Solenoid Valves are 2-way, normally closed, piloted, general purpose valves specifically designed for drinking water and other food products. All lead-free brass construction with synthetic seating and sealing materials make them suitable for use with a variety of liquids, and gases.
Valves may be mounted in any positions. A spring loaded plunger assures positive shutoff. The S3 solenoid coil is rated at 8 watts.

OPERATION
NS711 Valves are normally closed (N.C.) and open when electrically energized.

SPECIFICATIONS
Use NS711 Valves within the specified operating ranges as indicated on the nameplate and in the complete Catalog Number. (min./max. psi, voltage, hz, maximum media temperature at F ambient, Cv factor, etc.).

OPERATING TEMPERATURES

Ambient	32° - 125° F	Fluid	32° - 295° F

For other applications, consult the factory.

INSTALLATION
Check valve specifications to make sure of proper application.
1. Clear all lines of foreign matter.
2. Valves are multi-poised and may be mounted in any position. Flow must be in direction indicated on the valve body. If sediment is a problem, install a fine mesh strainer having adequate capacity ahead of the valve.
3. Do not use the solenoid housing as a handle. Apply thread seal to the male threads only.
4. Provide a clearance for solenoid removal.
5. Wire in accordance with applicable local and national electrical codes.

MAINTENANCE

COIL REPLACEMENT
Turn off the electrical power supply to the solenoid before disconnecting the coil lead wires.
Incorrect coil reassembly can cause coil burnout. At all times, take care not to nick, dent, or damage the plunger tube.

It is not necessary to remove the valve from the pipeline. Follow Steps 1, 2 and 3 under **VALVE DISASSEMBLY**. Disassemble solenoid, taking care to note the exact order of placement and quantity parts.

Incorrect reassembly can cause coil burnout. At all times take care not to nick, dent or damage plunger tube.

PARTS
The charts which follow cover replaceable coil part numbers, Repair and Rebuild kits for most NS711 valves.

When ordering parts/kits, specify Catalog Number, Serial Number, and Part Name. If your valve's Catalog Number is not listed, obtain the complete Serial Number and consult the factory.

REBUILD KIT
The Rebuild Kit contains a plunger/spring/seat disc assembly, plunger tube assembly, diaphragm assembly, O-rings and adapter ring.

REPAIR KIT
The Repair Kit contains a seat disc, diaphragm assembly and O-rings.

REBUILD & REPAIR KIT CHART

Valve	Rebuild Kits	Repair Kits
NS711----C9CG1	KS711AF02G1-NSF	K711G1-NSF
NS711----C9DG1	KS711AF02G1-NSF	K711G1-NSF
NS711----C9EG5	KS711AF02G5-NSF	K711G5-NSF
NS711----C9FG9	KS711AF02G9-NSF	K711G9-NSF
NS711----C9GJ2	KS711AF02J2-NSF	K711J2-NSF
NS711----C9HJ5	KS711AF02J5-NSF	K711J5-NSF
NS711----C9JJ7	KS711AF02J7-NSF	K711J7-NSF

COIL CHART

Valve	Voltage	DIN Coil	Conduit Coil
NS711GF02C9G1-J7	120V 50/60	HS3YN02	HS3GN02A24
NS711GF15C9G1-J7	12 VDC	HS3YN15	HS3GN15A24
NS711GF16C9G1-J7	24 VDC	HS3YN16	HS3GN16A24
NS711GF24C9G1-J7	24V 50/60	HS3YN24	HS3GN24A24

Cleaning
Cleaning fluid must be compatible with all valve components.
It is recommended that NS711 Series Valves be cleaned on a routine basis by qualified personnel. Valves should be cleaned where flow media or service conditions may determine life of valve. Apply correct voltage. If excessive leakage occurs or if the operation is sluggish, the unit must be cleaned.

SERVICE
Disassembly

WARNING

Disassembly, reassembly or internal adjustment without factory test may result in hazardous condition. If valve does not operate properly after following the INSTALLATION and MAINTENANCE instructions, complete valve must be replaced by a trained and experienced service-person.

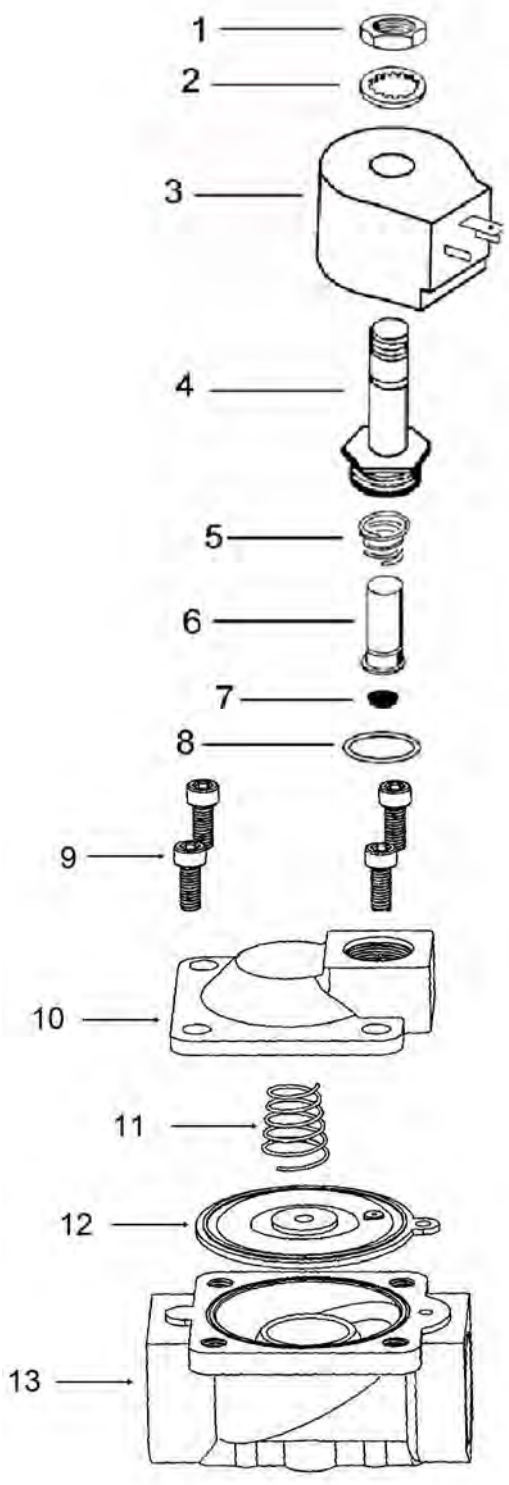
---

1. Unscrew the hex nut (1). Remove with lockwasher (2).
2. Lift off the coil (3) from the plunger tube.
3. Do not damage the solenoid assembly.
4. Use a 1" spanner to remove solenoid base nut and plunger tube (4). Do not nick, dent, or damage plunger tube (4) or valve seating surfaces.
5. Carefully hold plunger tube (4) in position when removing from valve bonnet (10) to prevent loss of internal parts.
6. Remove plunger/spring assembly (5, 6, & 7),
7. Remove four bonnet bolts (9) and separate the valve bonnet (10) from the valve body (13).
8. Check seat disc (7) and diaphragm assembly (12) for damage or wear.
9. Replace O-ring (8), diaphragm assembly (12), seat disc (7) and other parts as necessary.
10. Re-assemble in reverse order from above taking care to properly re-install the seat disc (7).
11. Tighten tube base nut (4) to 18 to 24 in/lbs and bonnet bolts (9) to 40 to 45 in/lbs.
12. Re-connect electrical and test for proper operation.

TROUBLE-SHOOTING

If valve fails to open check voltage against rating on nameplate, check voltage at solenoid lead connections, check control circuit and solenoid coil for burnout. If valve fails to close, check condition of synthetic seat insert. Check for damaged spring. Valve must be free of dirt to insure tight shutoff. If dirt is a problem, install a fine mesh strainer to insure proper closing and trouble-free operation

Buzzing or chattering can be caused by low voltage or dirt or chips between top of plunger and tube head. Check voltage--clean plunger and interior of tube and base assembly.



NS712 -- Service and Installation --

08/20/2024

DESCRIPTION
The NS712 Series Solenoid Valves are 2-way, normally open, piloted, general purpose valves specifically designed for drinking water and other food products. All lead-free brass construction with synthetic seating and sealing materials make them suitable for use with a variety of liquids, and gases.
Valves may be mounted in any positions. A spring loaded plunger assures positive shutoff. The S3 solenoid coil is rated at 8 watts.

OPERATION
NS712 Valves are normally open (N.O.) and close when electrically energized.

SPECIFICATIONS
Use NS712 Valves within the specified operating ranges as indicated on the nameplate and in the complete Catalog Number. (min./max. psi, voltage, hz, maximum media temperature at F ambient, Cv factor, etc.).

OPERATING TEMPERATURES

Ambient	32° - 125° F	Fluid	32° - 295° F

For other applications, consult the factory.

INSTALLATION
Check valve specifications to make sure of proper application.
1. Clear all lines of foreign matter.
2. Valves are multi-poised and may be mounted in any position. Flow must be in direction indicated on the valve body. If sediment is a problem, install a fine mesh strainer having adequate capacity ahead of the valve.
3. Do not use the solenoid housing as a handle. Apply thread seal to the male threads only.
4. Provide a clearance for solenoid removal.
5. Wire in accordance with applicable local and national electrical codes.

MAINTENANCE

COIL REPLACEMENT
Turn off the electrical power supply to the solenoid before disconnecting the coil lead wires.
Incorrect coil reassembly can cause coil burnout. At all times, take care not to nick, dent, or damage the plunger tube.

It is not necessary to remove the valve from the pipeline. Follow Steps 1, 2 and 3 under **VALVE DISASSEMBLY**. Disassemble solenoid, taking care to note the exact order of placement and quantity parts.

Incorrect reassembly can cause coil burnout. At all times take care not to nick, dent or damage plunger tube.

PARTS
The charts which follow cover replaceable coil part numbers, Repair and Rebuild kits for most NS712 valves.

When ordering parts/kits, specify Catalog Number, Serial Number, and Part Name. If your valve's Catalog Number is not listed, obtain the complete Serial Number and consult the factory.

REBUILD KIT
The Rebuild Kit contains a plunger/spring/seat disc assembly, plunger tube assembly, diaphragm assembly, O-rings and adapter ring.

REPAIR KIT
The Repair Kit contains a seat disc, diaphragm assembly and O-rings.

REBUILD & REPAIR KIT CHART

Valve	Rebuild Kits	Repair Kits
NS712----C9CG1	KS712AF02G1-NSF	K712G1-NSF
NS712----C9DG1	KS712AF02G1-NSF	K712G1-NSF
NS712----C9EG5	KS712AF02G5-NSF	K712G5-NSF
NS712----C9FG9	KS712AF02G9-NSF	K712G9-NSF
NS712----C9GJ2	KS712AF02J2-NSF	K712J2-NSF
NS712----C9HJ5	KS712AF02J5-NSF	K712J5-NSF
NS712----C9JJ7	KS712AF02J7-NSF	K712J7-NSF

COIL CHART

Valve	Voltage	DIN Coil	Conduit Coil
NS712GF02C9G1-J7	120V 50/60	HS3YN02	HS3GN02A24
NS712GF15C9G1-J7	12 VDC	HS3YN15	HS3GN15A24
NS712GF16C9G1-J7	24 VDC	HS3YN16	HS3GN16A24
NS712GF24C9G1-J7	24V 50/60	HS3YN24	HS3GN24A24

Cleaning
Cleaning fluid must be compatible with all valve components.
It is recommended that NS712 Series Valves be cleaned on a routine basis by qualified personnel. Valves should be cleaned where flow media or service conditions may determine life of valve. Apply correct voltage. If excessive leakage occurs or if the operation is sluggish, the unit must be cleaned.

SERVICE
Disassembly

WARNING

Disassembly, reassembly or internal adjustment without factory test may result in hazardous condition. If valve does not operate properly after following the INSTALLATION and MAINTENANCE instructions, complete valve must be replaced by a trained and experienced service-person.

---

1. Unscrew the hex nut (1). Remove with lockwasher (2) and spacer (3).
2. Lift off the coil (4) from the plunger tube (5).
3. Do not damage the solenoid assembly.
4. Use a 1" wrench to remove plunger tube and base assembly (5). Do not nick, dent, or damage plunger tube (5) or valve seating surfaces.
5. Carefully hold plunger tube (5) in position when removing from valve bonnet (15) to prevent loss of internal parts.
6. Remove plunger (6), PTFE glide strip (7), tube head (9), seat retainer assembly (10 &11) and return spring (12).
7. Remove four bonnet bolts (14) and separate the valve bonnet (15) from the valve body (18).
8. Check seat disc (11) and diaphragm assembly (17) for damage or wear.
9. Replace O-rings (8, & 13), diaphragm assembly (17), seat disc (11) and other parts as necessary.
10. Re-assemble in reverse order from above taking care to properly re-install the seat disc (11).
11. Tighten plunger tube and base nut assembly (5) to 18 to 24 in/lbs. and bonnet bolts (14) to 40 to 45 in/lbs.
12. Re-connect electrical and test for proper operation.

TROUBLE-SHOOTING

If valve fails to close check voltage against rating on nameplate, check voltage at solenoid lead connections, check control circuit and solenoid coil for burnout. If valve fails to open, check condition of synthetic seat insert. Check for damaged spring. Valve must be free of dirt to insure tight shutoff. If dirt is a problem, install a fine mesh strainer to insure proper closing and trouble-free operation

Buzzing or chattering can be caused by low voltage or dirt or chips between the plunger and tube head. Check voltage--clean plunger and interior of tube and base assembly.