### S31 Series



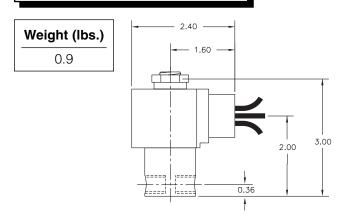
# 1/8" NPTBrass Body2-Way Direct ActingNormally Open

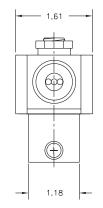


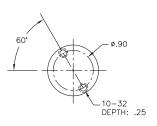
Materials	Seals:	Nitrile, Viton®, Ethylene Propylene, Teflon®, Rulon
	Orifice:	Stainless Steel
Electrical	Standard Housing:	Encapsulated Waterproof Conduit (NEMA 4/4X)
	Optional Housings:	Metallic Conduit, Explosion-proof (NEMA 7), Grommet, Open Frame, Junction Box (single or dual knockouts), DIN; Contact GC Valves Customer Service for others.
	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:	UL Listed, UL Recognized, CSA Approved

<sup>\*</sup> Not available for all variations

### **Dimensions/Weight**







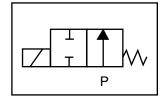
<sup>®</sup> Registered Trademark of DuPont Co.

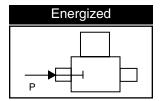


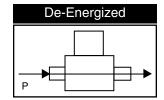
## S312 – 1/8" NPT, Brass Body, Normally Open

### Valve Selection List

Normally Open







Size	Size		(	Opera	ating	Pres	sure Maxi			al (psi	i)	k emp.	ial		wer	Model Code
Pipe Si	Orifice		Minimum	Air/	Gas	Wa	ater		t Oil	Ste	am*	Max Fluid Temp.	Seal Material	Consumption (Watts)		(120V/60HZ — 110V/50HZ) Shown
NPT	in.	C <sub>v</sub>	Min	AC	DC	AC	DC	AC	DC	AC	DC	°F	Se	AC DC		Brass Body
	1/32	.03	0	2000	2000	2000	2000	_	_	150*	150*	295	EPR	AC	AC	S312GF02C8AC1
	3/64	.05	0	350	350	350	350	_	_	150*	150*	295	EPR	8	9	S312GF02C8AC3
	1/16	.10	0	200	200	200	200	_	_	150*	150*	295	EPR	8	9	S312GF02C8AC5
	5/64	.15	0	140	140	140	140	_	_	140*	140*	295	EPR	8	9	S312GF02C8AC7
1/8	3/32	.20	0	105	105	105	105	_	_	105*	105*	295	EPR	8	9	S312GF02C8AC9
	7/64	.25	0	80	80	80	80	_	_	80*	80*	295	EPR	8	9	S312GF02C8AD3
	1/8	.30	0	60	60	60	60	_	_	60*	60*	295	EPR	8	9	S312GF02C8AD5
	5/32	.43	0	45	45	45	45	_	_	45*	45*	295	EPR	8	9	S312GF02C8AD7
	3/16	.65	0	30	30	30	30	_	_	30*	30*	295	EPR	8	9	S312GF02C8AE1
	1/32	.03	0	2000	2000	2000	2000	2000	2000	_		180	Nitrile	8	9	S312GF02N8AC1
	3/64	.05	0	350	350	350	350	350	350	_		180	Nitrile	8	9	S312GF02N8AC3
	1/16		0	200	200	200	200	200	200	_	l	180	Nitrile	8	9	S312GF02N8AC5
	5/64	.15	0	140	140	140	140	140	140	_	l	180	Nitrile	8	9	S312GF02N8AC7
1/8	3/32	.20	0	105	105	105	105	105	105	_	l	180	Nitrile	8	9	S312GF02N8AC9
	7/64	.25	0	80	80	80	80	80	80	_	l	180	Nitrile	8	9	S312GF02N8AD3
	1/8	.30	0	60	60	60	60	60	60	_	l	180	Nitrile	8	9	S312GF02N8AD5
	5/32	.43	0	45	45	45	45	45	45	_		180	Nitrile	8	9	S312GF02N8AD7
	3/16	.65	0	30	30	30	30	30	30	_		180	Nitrile	8	9	S312GF02N8AE1
	1/32	.03	0	2000	2000	2000	2000	2000	2000	_	_	230	Viton	8	9	S312GF02V8AC1
	3/64	.05	0	350	350	350	350	350	350	_		230	Viton	8	9	S312GF02V8AC3
	1/16	.10	0	200	200	200	200	200	200	_	_	230	Viton	8	9	S312GF02V8AC5
	5/64	.15	0	140	140	140	140	140	140	_	_	230	Viton	8	9	S312GF02V8AC7
1/8	3/32	.20	0	105	105	105	105	105	105	_		230	Viton	8	9	S312GF02V8AC9
	7/64	.25	0	80	80	80	80	80	80	_		230	Viton	8	9	S312GF02V8AD3
	1/8	.30	0	60	60	60	60	60	60	_	_	230	Viton	8	9	S312GF02V8AD5
	5/32	.43	0	45	45	45	45	45	45	_	_	230	Viton	8	9	S312GF02V8AD7
	3/16	.65	0	30	30	30	30	30	30	_		230	Viton	8	9	S312GF02V8AE1

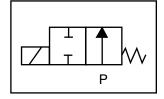
<sup>\*</sup> Class H Coil Recommended for Steam and Other High Temperature Applications

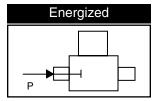
### S312 – 1/8" NPT, Brass Body, Normally Open

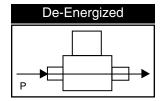


## Valve Selection List

Normally Open







	Size		Operating Pressure Differential (psi)								i)	ъ.	_	Power		Model Code								
Size	e Si		_				Maxi	mum				ax Tem	erial	Consu	(120V/60HZ — 110V/50HZ)									
Pipe	Orifice		Minimum	Air/	Gas	Wa	ater	Ligh	t Oil	Ste	am*	Fluid Tem		Max Fluid Temp.	al Mai	al Mat	ıl Mat	Fluid al Mat		ıl Mat	al Mat	(Wa	atts)	Shown
NPT	in.	C <sub>v</sub>	Min	AC	DC	AC	DC	AC	DC	AC	DC	°F	Se	AC	DC	Brass Body								
	1/32	.03	0	2000	2000	2000	2000	2000	2000	150*	150*	366	Rulon	8	9	S312GF02R8AC1								
	3/64	.05	0	350	350	350	350	350	350	150*	150*	366	Rulon	8	9	S312GF02R8AC3								
	1/16	.10	0	200	200	200	200	200	200	150*	150*	366	Rulon	8	9	S312GF02R8AC5								
4 /0	5/64	.15	0	140	140	140	140	140	140	140*	140*	366	Rulon	8	9	S312GF02R8AC7								
1/8	3/32	.20	0	105	105	105	105	105	105	105*	105*	366	Rulon	8	9	S312GF02R8AC9								
	7/64	.25	0	80	80	80	80	80	80	80*	80*	366	Rulon	8	9	S312GF02R8AD3								
	1/8	.30	0	60	60	60	60	60	60	60*	60*	366	Rulon	8	9	S312GF02R8AD5								
	5/32	.43	0	45	45	45	45	45	45	45*	45*	366	Rulon	8	9	S312GF02R8AD7								
	3/16	.65	0	30	30	30	30	30	30	30*	30*	366	Rulon	8	9	S312GF02R8AE1								
	1/32	.03	0	2000	2000	2000	2000	2000	2000	150*	150*	366	Teflon	8	9	S312GF02T8AC1								
	3/64	.05	0	350	350	350	350	350	350	150*	150*	366	Teflon	8	9	S312GF02T8AC3								
	1/16	.10	0	200	200	200	200	200	200	150*	150*	366	Teflon	8	9	S312GF02T8AC5								
4 /0	5/64	.15	0	140	140	140	140	140	140	140*	140*	366	Teflon	8	9	S312GF02T8AC7								
1/8	3/32	.22	0	105	105	105	105	105	105	105*	105*	366	Teflon	8	9	S312GF02T8AC9								
	7/64	.25	0	80	80	80	80	80	80	80*	80*	366	Teflon	8	9	S312GF02T8AD3								
	1/8	.30	0	60	60	60	60	60	60	60*	60*	366	Teflon	8	9	S312GF02T8AD5								
	5/32	.43	0	45	45	45	45	45	45	45*	45*	366	Teflon	8	9	S312GF02T8AD7								
	3/16	.65	0	30	30	30	30	30	30	30*	30*	366	Teflon	8	9	S312GF02T8AE1								

<sup>\*</sup> Class H Coil Recommended for Steam and Other High Temperature Applications



# S312 – 1/8" NPT, Brass Body, Normally Open

### Part Numbering

1	2	3	4	5	6	7 8	9	10	11	12 13		
S	3	1	2	G	F	02	C	8	A	<b>C</b> 1		
	Series		Operating Mode	Housing*	Coil Class*	Voltage*	Seal Material	Body Material	Pipe Connection	Orifice Size		
	S31		2: Normally Open	G: Conduit	F: Class F H: Class H	02: 120/60 110/50	C: EPR N: Nitrile V: Viton R: Rulon T: Teflon	8: Brass	A: 1/8" NPT	C1: 1/32" C3: 3/64" C5: 1/16" C9: 3/32" D5: 1/8" E1: 3/16"		
			* See the "Engineering Guide" for additional voltages, variations and options.									

### **Coil Data**

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Туре	Size
All	S3

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