











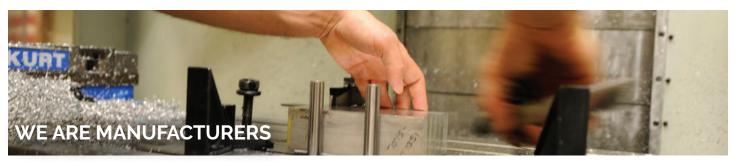




TOP THREE REASONS LEADING MANUFACTURERS CHOOSE GC VALVES



We partner with our customers in a variety of ways to provide a customized solution where one is needed. If you have a problem application, we take it on to solve the issue at hand. Our staff engineers work with our distributors and OEMs to supply the solution they need to control the fluids in their system.



We understand the importance of having all the parts you need in working order to ensure your customer's quality products are delivered in a timely manner. Providing high quality fluid control products on time is essential to our customer's success. We take partnerships with OEMs seriously because we know that our customer's brands and image depend on the equipment they make.



We utilize innovative materials in order to solve different problems experienced in the field. Whether we start from scratch on a design or utilize our large portfolio of products, we make short work of any problem. We are constantly evolving our processes to make the products we supply that much better.





APPLICATIONS & MARKETS

We Have Solenoid Valves That Are Used For...



Soap and wax metering, low pressure function controls such as foam brush, tire cleaner, and presoak.



UV, ozone, DI, RO systems. NSF-61 and "No Lead" Products from 1/8" to 2" NPT.



High pressure system components along with feed and dump valves.

Health Care



Food & Beverage



Fuels, gases and liquids for prime and back-up generation systems.



Gas management, water filtration, steam, and other line fluids for sterilization and vacuum applications.



Processing, preparation, dispensing: from high temperature oils and steam to blast chillers.



Oil, steam, hot water, glycol and CO2. We offer valves that can handle fluids from cryogenics to 400 °F.



Liquid and gaseous CO2, liquid nitrogen, argon, oxygen for cleaning operations, bakery, food processing, and special FX.



Air, water, gases, high pressure, CO2. combustibles. We have the control valves to ensure the show goes on.

...And Much More!

GC VALVES PRODUCT LINE

Series	Media	Connection	Function	Orifice Range	Pressure Range	Max Fluid Temp	Cv Range	Approvals	Valve Body	Seal Materials
\$20		3/8"-1 1/2" NPT	NC, NO	5/8"-1 1/4"	0-200 PSI	295°F	4.3-23	⊕ ⑤	316	Nitrile, FKM, GFLT, EPDM
S21		3/8"-2" NPT	NC, NO	5/8"-1 1/2"	4-250 PSI	366°F	4.3-29	() (§).	316	Nitrile, FKM, GFLT, EPDM
\$27	¶β ₹	1"-2" NPT	NC, NO	1"-1 1/4"	0-125 PSI	295°F	13-27	⊕ €	316	Nitrile, FKM, GFLT, EPDM
SC91		10/32"-1/4" NPT	NC, NO	0.8mm-3.0mm	0-580 PSI	266°F	0.035-0.280	c FM us (€	304	Nitrile, FKM, EPDM, PTFE, FFKM
SC31		1/8"-1/4" NPT	NC, NO	0.8mm-3.0mm	0-580 PSI	122°F	0.035-0.280	c 911 us C E		Nitrile, FKM, EPDM, PTFE, FFKM
SC41		1/4"-3/8" NPT	NC, NO	0.8mm-6.0mm	0-2030 PSI	284°F	0.035-0.350	c ¶1 us (€	304	Nitrile, FKM, EPDM, PTFE, FFKM
\$30		1/8"-3/8" NPT	NC, NO, 3-way	1/32"-3/8"	0-2400 PSI	366°F	.03-1.3	(5)	304	Nitrile, FKM, GFLT, EPDM, PTFE, FFKM, Rulon
S31		1/8"-3/8" NPT	NC, NO, 3-way	1/32"-3/8"	0-2000 PSI	366°F	.03-1.3	(() ()	304	Nitrile, FKM, GFLT, EPDM, PTFE, FFKM, Rulon
S33		1/8"-1/4" NPT	3-way	1/16"-11/64"	0-200 PSI	295°F	.0938	(304	Nitrile, FKM, EPDM
S40		1/4"-1 1/4" NPT	NC, NO	3/8"-1 1/8"	0 -300 PSI	366°F	1.1-18.8	(I) (S) ∘	304	Nitrile, FKM, EPDM, PTFE

KEY

MEDIA FUNCTION

Water

Light Oil

Slightly Aggressive media NC – 2-way Normally Closed

式 Air & neutral gases 🏽 😞 Aggressive media

Steam

NO - 2-way Normally Open

3-way - Normally Closed, Normally

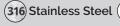
Open, Diverting, Universal, or Free Exhaust

VALVE BODY



Brass









304 Stainless Steel Lead-Free Brass





Series	Media	Connection	Function	Orifice Range	Pressure Range	Max Fluid Temp	Cv Range	Approvals	Valve Body	Seal Materials
\$71	♦	3/8"-2" NPT	NC, NO	3/8"-2"	7-225 PSI	295°F	4.5-48	c 711 us (€		Nitrile, FKM, EPDM
\$80	\$	1/4"-1/2" NPT	NC, NO	3/8"	0-290 PSI	230°F	1.6	CE		Nitrile, FKM
\$P31	♦ ಕ್	3/8"-2" NPT	NC, NO	12mm-55mm	5-150 PSI	122°F	2.4 - 41	c ¶∆ us (€		Nitrile, FKM, EPDM
SP91	\$	1/2"-1" NPT	NC, NO	4.0mm-25mm	8-200 PSI	266°F	4.5 - 12	c 91 us (€	304	Nitrile, FKM, EPDM
H40	1	1/4"-1/2" NPT	NC, NO	3/8"	0-2200 PSI	230°F	1 - 1.5	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	304	FKM, PTFE
H90		1/2"-1" NPT	NC	15mm-25mm	0-1200 PSI	230°F	4.2-7	CE	304	FKM, PTFE
NS20	•	3/8"-1 1/2" NPT	NC, NO	5/8"-1 1/4"	0-100 PSI	295°F	4.3-18	c Fl us (€	316	EPDM, Santoprene
NS21	•	3/8"- 2" NPT	NC, NO	5/8"-1 1/4"	4-200 PSI	295°F	4.3-13	c Fl us (€	316	EPDM, Santoprene
NS30	•	1/8"-3/8" NPT	NC, NO	1/32"-9/32"	0-150 PSI	295°F	.03-1	c Sl us (€	304	EPDM
NS31	•	1/8"-3/8" NPT	NC, NO	1/32"-9/32"	0-150 PSI	366°F	.0365	c ¶l us (€	304	EPDM
NS71	•	3/8"- 2" NPT	NC, NO	3/8"-2"	7-225 PSI	295°F	4.5-48	c ¶∆ us (€		EPDM

























MANIFOLDS

GC Valves offers solenoid valve manifolds and assemblies for dispensing and sampling industrial and scientific gases and liquids.



Industrial Solenoid Valve Manifolds

- · Standard body material: Brass, Stainless Steel
- Optional materials: Aluminum, PVC, other thermoplastics, plating available
- Uses proven S₃0 and S₄0 operators and valve components
- Typical pipe sizes include 1/8" to 3/4" NPT
- Reverse manifolds and normally open operator options available



High Performance Solenoid Valve Manifolds

- Standard body material: Brass, Stainless Steel
- Optional materials: Aluminum, PVC, other thermoplastics, plating available
- Uses proven SC4 and SC9 operators and valve components
- Typical pipe sizes include 1/8" to 3/8" NPT
- Reverse manifolds and metering options available

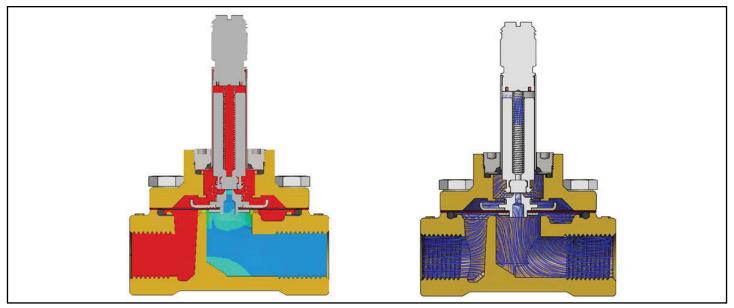
A complete line of general purpose solenoid manifolds intended for a wide variety of applications at standard pressures and flow rates. Our manifold valves can be rated up to 2400 PSI and can be made to withstand the harshest fluid media. Our world class designs are proven to cycle up to 5 million cycles.

Series	Media	Connection	Function	Orifice Range	Pressure Range	Max Fluid Temp	Cv Range	Approvals	Valve Body	Seal Materials
SC9M		1/8"- 1/4" NPT	NC, NO, 3-WAY	1/32"-3/32"	0-580 PSI	366°F	0.035-0.280	c 91 us (304	Nitrile, FKM, EPDM, PTFE, FFKM
SC4M		1/4"- 3/8" NPT	NC, NO, 3-WAY	1/32"-1/8"	0-2030 PSI	366°F	0.035-0.315	c 911 us (304	Nitrile, FKM, EPDM, PTFE, FFKM
M30		1/8"-3/8" NPT	NC, NO, 3-WAY	1/32"-3/8"	0-2400 PSI	366°F	.03-1.3	⊕ c ¶1 us (€	304	Nitrile, FKM, EPDM,PTFE, FFKM, Rulon
M31		1/8"-3/8" NPT	NC, NO, 3-WAY	1/32"-3/8"	0-2000 PSI	366°F	.03-1.3	⊕ c ¶1 ∪s (€	304	Nitrile, FKM, EPDM,PTFE, FFKM, Rulon
M40		1/4"-1/2" NPT	NC, NO	3/8"	0-2400 PSI	366°F	1.1	⑤ . c ¶1 us (€	304	Nitrile, FKM, EPDM,PTFE
M20		3/8"-3/4" NPT	NC, NO, 3-WAY	3/4"	0-200 PSI	295°F	6.7	⊕ c ¶1 ∪s (€	316	Nitrile, FKM, EPDM
M21		3/8"-3/4" NPT	NC, NO, 3-WAY	3/4"	4-200 PSI	295°F	6.7	⊕ c ¶1 us (€	316	Nitrile, FKM, EPDM



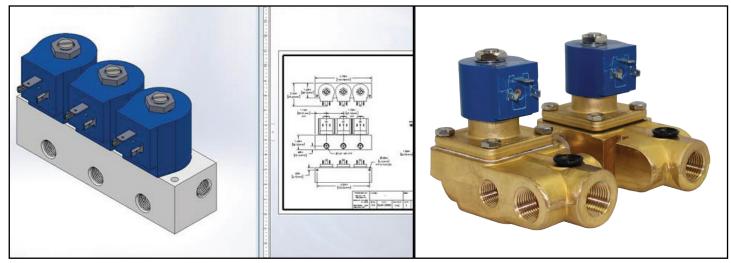
CUSTOM SOLUTIONS

Our engineering and manufacturing team produces over 1.5 million solenoid valves annually. We have a history of tailoring solutions for OEMs with demanding applications. Whether you need to design around temperature, pressure, chemical compatibility, flow, or reliability, GC Valves can provide a fluid control solution to meet your needs.



Software generated fluid flow analysis showing internal pressures throughout the valve to help meet OEM design specifications

Our world-class engineering team and product portfolio allow for custom solutions in a wide variety of applications. The valves shown here are a small portion of our offering and just a hint of what we can provide with regards to custom valves. Our long history of collaborating with OEMs gives us the experience and comfort level needed to solve difficult design challenges. We pride ourselves at making cost-effective custom solutions, understanding the demands of manufacturers, and providing our products on time, tested, and of the highest quality.



We use 3-D modeling software to bring our concepts to reality and cut down on development time. Two custom pieces are shown above, one 3-D modeled the other in production form.

DECADES OF INNOVATION & EXCELLENCE

1940s

1950s



General Controls expands production to support the World War II manufacturing effort.



ITT acquires General Controls.



Konan Electric becomes North American ITT-licensee for General Purpose Solenoid Valve product line. Components For Automation, Inc. (CFA) is formed to design and manufacture miniature solenoid valves and solenoid valve manifolds.





DEMA acquires GC Valves and Components For Automation in 2016. Manufacturing is consolidated in Charlotte, NC and the united companies become GC Valves, LLC.



General Controls is founded in Glendale, California by combustion controls pioneers Jack and Bill Ray.



General Controls sees sustained growth in General Purpose Solenoid Valve product lines.







ITT-General Controls leads solenoid valve product evolution and innovation.









GC Valves.

custom designs; CFA growth is fueled by



DEMA Engineering Company is a leading supplier of chemical dispensing systems, fluid control devices and solenoid valves, strainers, pumps and injectors for virtually any industrial, institutional and agricultural markets. Our systems address the housekeeping, food service, food processing, warewash and laundry markets plus many other industries where precise metering of fluids is critical. DEMA industrial products answer the needs of the car wash, food & beverage, dairy, agriculture, and irrigation marketplaces. DEMA uses state of the art venturi technology, peristaltic pumps and water driven proportional pumps for superior dilution control in chemical and fluid metering.