FLOW CONTROL SOLUTIONS

Brands you trust. Service you can depend on.

ENE
FLOW CONTROL



SMITH

FORCE

C&C

DIAMOND GEAR

SMITH Valves

The SMITH brand has been in existence since 1956 and has made substantial investments in technology, resulting in improved engineering and manufacturing practices. SMITH has a proven reputation that exemplifies our ongoing commitment to providing the highest quality products in the valve industry.

Forged Steel Valves

SMITH Forged Steel Valves manufacturing facilities are located in Houston, as well as South Korea. Every valve is production tested and inspected in accordance with API 598 and designed in compliance with API 602 and ASTM B16.34. Available materials consist of carbon steel, stainless steel, special alloys, and duplex with available sizes between 1/2" - 3", bolted bonnet or welded bonnet, and ASME Class 150 to 2690. SMITH Forged Steel Valves are compliant to API 624 and API RP 591.

Gate Valves



Threaded / SW End



Flanged End



Extended Body

Globe Valves



Threaded / SW End



Flanged End



Y-Pattern Body

Check Valves



Threaded / SW End



Flanged End



Y-Pattern Body

Speciality Valves



Bellows Seal Valves



Cryogenic Valves



Liquid penetrant inspection performed on SMITH components before assembly



SMITH gate valves for HF acid service

FORCE Valves

CNC Flow Control holds exclusive rights for FORCE in North America and our in-house quality team performs pressure testing before shipments. FORCE valves are manufactured in South Korea with strict accordance to all applicable ASME and API standards. CNC Flow Control maintains a large inventory of carbon steel and stainless steel configurations.

Floating Ball Valves

FORCE Floating Ball Valves are designed to API 6D and offered as highly customizable one piece or two piece bolted body designs. Available materials consist of carbon steel, low temperature carbon steel, stainless steel, special alloys, monel, and inconel with available sizes between 1/2" - 12" and ASME Class 150 to 1500.



Force BF Series

- Two piece bolted body design
- Large carbon & stainless inventory
- Full & reduced port
- Metal seated design available
- Firesafe and API 6D compliant

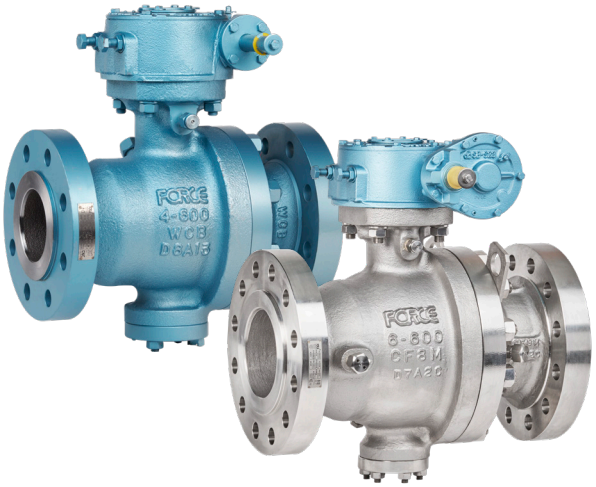


Force BU Series

- One piece unibody design
- Large carbon & stainless inventory
- Reduced port in CL 150 & CL 300
- Metal seated design available
- Firesafe and API 6D compliant

Trunnion Mounted Ball Valves

FORCE Trunnion Mounted Ball Valves are designed to API 6D and offered as highly customizable one piece or two piece bolted body designs. Available materials consist of carbon steel, low temperature carbon steel, stainless steel, special alloys, monel, and inconel with available sizes between 2" - 16" and ASME Class 150 to 2500.



Force BTN Series

- Two piece bolted body design
- Large carbon & stainless inventory
- Metal seated design available
- Firesafe and API 6D compliant
- API 641 low fugitive emissions qualified



Force BFC Series (Cryogenic)

- Integral flanged ends
- Top entry design
- Full & reduced port available
- Firesafe, API 6D, & MSS SP-134 compliant
- Tested per API 598 & BS 6364

C&C Valves

C&C's extensive product portfolio is extremely diverse and can be found in numerous industries in North America. From commodity products to highly engineered products, C&C has provided the market with quality valves and fittings for nearly two decades.

Flanged Valves

C&C Flanged End Valves are designed to exceed industry standards by maintaining certifications such as API 6D, API 607, API 641, and ASTM B16.34. Available materials consist of carbon steel, low temperature carbon steel, and stainless steel, with available sizes between 2" - 48" and ASME Class 150 to 2500.



Trident Series
3 pc Forged Trunnion Mounted Ball Valves



Atlas Series
2 pc Cast Trunnion Mounted Ball Valves



CVA Series
Cast Steel Swing Checks



Guardian Series
Cast Steel Piston Checks



CSTX Series
Cast Steel Gates, Globes & Checks

Threaded & Grooved Valves

C&C Threaded & Grooved End Valves consists of multiple configurations of ball valves, check valves, and butterfly valves. Available materials consist of carbon steel, low temperature carbon steel, stainless steel, brass, and ductile iron, with available sizes between 1/4" - 8" and pressures ranging from 200 psi to 6,000 psi.

Swing Check Valves



Stainless Steel



Carbon Steel



Ductile Iron

Ball Valves

1 Piece Design



2 Piece Design



3 Piece Design



Butterfly Valves



Grooved End



Threaded End

Lug & Wafer Valves

C&C Lug & Wafer End Valves consists of butterfly valves and a thin wafer check valve. Available materials consist of carbon steel, stainless steel, and ductile iron, with available sizes between 2" - 24" and pressures ranging from 150 psi to 1,480 psi. Typical applications include irrigation, cooling water, air service, fire protection, HVAC, oil and gas, slurry services, compressed air & gas, and wastewater.



Lug Style



Wafer Style



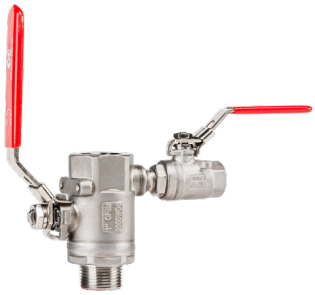
Thin Wafer Check

C&C Valves & Actuation

C&C's extensive product portfolio is extremely diverse and can be found in numerous industries in North America. From commodity products to highly engineered products, C&C has provided the market with quality valves and fittings for nearly two decades.

Instrumentation Valves

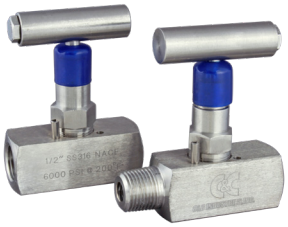
C&C Instrumentation Valves are designed to provide precision and reliability for measurement and flow control applications. Available materials consist of carbon steel and stainless steel, with available sizes between 1/8" - 2" and pressures ranging from 1,500 psi to 10,000 psi.



Isolator Valves



In-Line Check Valves



Needle Valves
*Mini needle valves also available



Angle Needle Valves

Brass Valves

C&C Brass Valves consists of multiple configurations of ball valves, check valves, and gate valves. This material is ideal for a variety of media and are highly resistant to corrosion. Available sizes between 3/8" - 4" and pressures ranging from 200 psi to 600 psi.

Swing Check Valves



O-Ring Style Threaded End

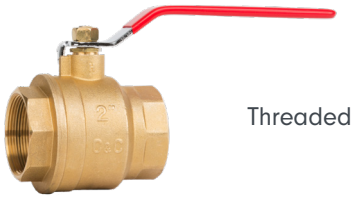


Metal Seated Threaded End



Grooved End

Ball Valves



Threaded End



Heavy Duty Threaded End

Gate Valves



Threaded End



Quick-Open Threaded End

Actuation

C&C Pneumatic Actuators offer a compact, scotch-yoke type design, ideal for actuating butterfly valves, ball valves, and plug valves. They are affordable and easy to install on our C&C valves due to the standard ISO 5211 direct mounting pad. Available sizes between 2" - 12" and larger sizes are made to order.



Pneumatic Double Acting Actuator



Pneumatic Spring Return Actuator

C&C General Products

C&C's extensive product portfolio is extremely diverse and can be found in numerous industries in North America. From commodity products to highly engineered products, C&C has provided the market with quality valves and fittings for nearly two decades.

Flowline (Red Iron)

C&C Flowline (Red Iron) products are designed to accomodate the well servicing segment of the oil & gas industry. Multiple end connection configurations and sizes are available in our Houston warehouse.



Pup Joints



Crossovers



Low Torque Plug Valves



Choke Valves



Swivel Joints



Crosses



Tees



Ells

Connections & Fittings

C&C Connections & Fittings consist of many different product types to serve multiple industries. Each product type is available in a wide range of sizes, pressure classes, and materials.



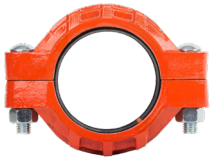
Bull Plugs



Expansion Joints



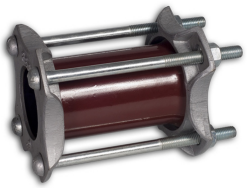
Flange Adapters



Grooved Coupling Bolt Style



Pipe Nipples



Sleeve Couplings



Swage Nipples



Grooved Coupling Hinged Style

Hammer Unions

C&C Hammer Unions are designed as heavy duty flow line connectors. Available sizes between 1" - 10" and pressures ranging from 1,000 psi to 15,000 psi.



Hammer Unions



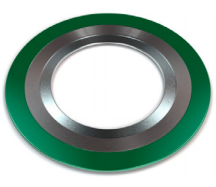
Hammer Unions Sour Gas



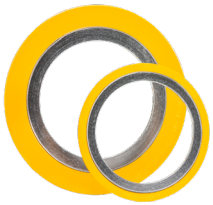
Integral Plugs

Gaskets

Our High Integrity Spiral Wound Gaskets offer high compressibility and recovery, which can be used in a wide variety of media. Available sizes between 1/2" - 24" and ASME Class 150 to 2500.



Spiral Wound Gasket SRI Type



Spiral Wound Gasket SR Type

Diamond Gear Products

Diamond Gear is a provider of high-quality industrial worm gears, bevel gears, declutchable override gears, and gear accessories. With a large inventory and in-house customization capabilities, Diamond Gear is able to service a wide range of industries.

Diamond Gear

Diamond Gear's high quality industrial worm gears, bevel gears, declutchable override gears, and gear accessories available in a wide range of sizes and output torques, all with ISO 5211 interfaces. CNC Flow Control maintains large inventory levels and can customize based on our customers' needs.



Bevel Gears

- Torque Range 183 ft-lbs to 47,753 ft-lbs
- Rising and non-rising stem designs
- Both manual and motorized types are available



Declutchable Gears

- Torque Range 216 ft-lbs to 28,166 ft-lbs
- Manual Override Capabilities
- Works in conjunction with pneumatic actuators



Worm Gears

- Torque Range 237 ft-lbs to 516,293 ft-lbs
- Good Advantages with High Efficiency
- Built-in 90˚, 180˚ and 360˚ Flexibility

In-House Modification Shop

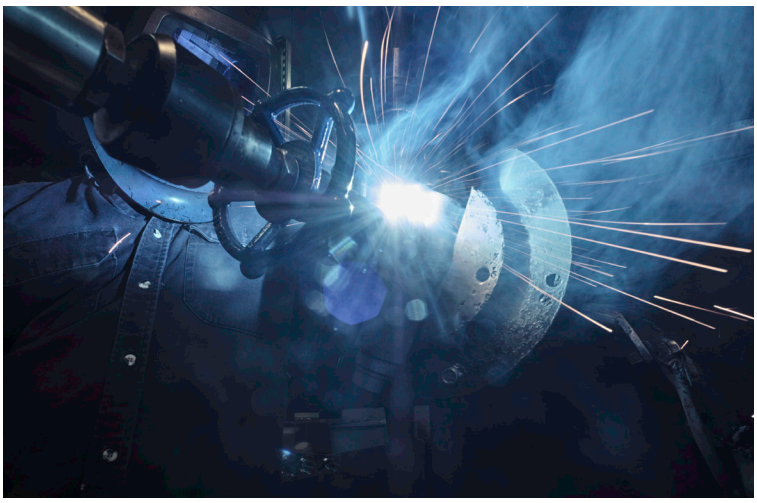
CNC Flow Control's in-house modification shop specializes in precision machining, welding, and industrial valve modification and testing. Located at the manufacturing facility in Houston, TX, the specialized shop includes a team of experienced machinists along with certified welders and valve fitters who use calibrated, state-of-the-art equipment to ensure an outstanding finished product and exceptional service.

Capabilities

Modifications
Trim Changes
Installation
Welding
Inspection & Testing



Splines machined in-house to customize fit to any valve



In-house state of the art welding lathe used on SMITH welded bonnet valves

About Our Company

Brands under the CNC Flow Control umbrella have been delivering quality products since 1956 and consist of SMITH, Force, C&C, and Diamond Gear.

We combined these brands together in 2017 at our headquarters located in Houston, TX, which also houses our engineering team, modification shop, and manufacturing capabilities. This single business entity unifies several trusted valve and flow line brands from across multiple industries, creating a technically experienced, collaborative and diverse team.



Member of API

Quality assurance is critical to CNC Flow Control's process and we hold multiple internationally recognized quality standards certifications and management system. We are dedicated to understanding our customers' needs to ensure exceptional service by offering an extremely large product portfolio and same-day delivery.

SMITH FORCE C&C DIAMOND GEAR

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