

185
YEARS

WALWORTH
Since 1842

More than engineering... innovation.



CORPORATE PROFILE



We are a group specialized in providing services, equipment and parts for the integration of steamwide solutions in the Oil & Gas, power generation, chemical, mining, pulp and paper, cryogenic, and geothermal sectors, drinking water, drainage, wastewater treatment, among others. among others.

MISSION

Contribute to the development of our customers and employees through sustainable growth.

VISION

To be a solid and innovative company, offering our customers integral excellence solutions.

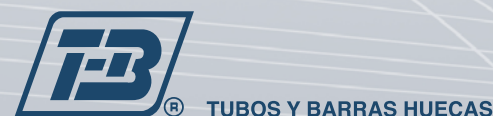


WALWORTH is one of the oldest companies in the world, with experience and reliability in the design, manufacture, automation and customization of valves, with the highest standards of quality and adherence to international, local and final customer regulations. It provides integral solutions, packaging, special designs and modifications, to a wide range of industries and leading companies in their sectors.



GPT Services, is consolidated as the company of Walworth Group Services, available to provide supply chain solutions in the energy sector in Mexico. **The new business lines:**

- Integral solutions in duct intervention
- Consulting
- Specialized Work
- Specialized Procurement
- Engineering and construction
- Administration and execution of infrastructure projects and auxiliary services in the Oil & Gas sector.
- Maintenance



TBH is a leader in the sale of hollow and solid bars, pipes with and without seams, structural profiles and industrial materials, accessories and connections, among others through its network of distribution centers strategically located in different points of the country.



TWC (The Valve Company) is our WALWORTH product distributor in the United States, and can provide valves in the USA and Canada, as a large part of Europe. Our partner in North America covers demand for deliveries in a shorter timeframe.



Specialists in reverse engineering in valve repairs, actuators and field service, offering high quality, profitable, safe and reliable work and performance in new constructions, our ally in North America covering the demand in United States with services, maintenance and reconstruction.

STRATEGIC PARTNERSHIPS

WALWORTH GROUP has strategic alliances for valve accessories, offering a comprehensive service with the highest quality



Lamons is one of the largest joint, bolt and hose manufacturers in the world. We are committed to quality. Its main manufacturing facilities are located in Houston and Denver, USA, to provide customers with the widest selection of materials for gaskets, holders and hose products available.



Modéc pneumatic reduction motors have been used for almost 30 years as an alternative to traditional electric motors in a series of high-stress applications, particularly in the chemical, petrochemical and mechanical industries. Our range of pneumatic motors is complemented by a complete and modular range of portable rotary actuators.



Woodfield Systems International designs, manufactures and traded loading and unloading equipment for the handling of large volumes of fluid for the oil, chemical, petrochemical and aeronautical industries, such as loading arms, security access systems, measurement skids (loading/unloading, dosing, mixing, injection...), all working to create a comprehensive solution.



WALWORTH
Since 1842

WALWORTH

We are one of the most important manufacturers of industrial valves in the world. Since our foundation in the 19th century by James Walworth, we have focused our efforts on innovating and producing different lines of products for fluid control.

The experience accumulated on this long and successful journey and the combination of a spirit of constant innovation allows us to provide satisfactory solutions to a wide range of industries and end users by meeting and exceeding the strictest quality standards. Some of these industries include petrochemical, gas, oil, electric power generation, pulp and paper processing companies related to geothermal and cryogenic technologies.

In our history, we have produced more than 40,000 different products which has placed us as a global corporation serving different markets. WALWORTH has facilities in Mexico, USA, and China for the manufacturing of valve lines in a complete flow of operations.

These include raw material warehouses, different types of machining, welding processes such as SMAW, GMAW, SAW, PAW, assembly, testing, painting process, packaging and shipping. In our facilities in Mexico, we have a testing laboratory for design validation which includes the following: tests for low and high temperature service, cryogenic tests, fire test, fugitive emission and magnet tests.

All this infrastructure allows us to satisfy the market of North America, Central America, South America, Europe and Africa. Our master distributors allow us to reach countries as far away as Indonesia, Singapore or Australia, as well as the Middle and Far East.



MANUFACTURING CAPACITY

The most advanced manufacturing techniques are applied in **WALWORTH**, which consist of the use of numerical control machines (CNC), as well as conventional lathes; including vertical lathes, horizontal lathes, simple and multiple radial drills, tapping machines, horizontal and vertical grinders, milling machines, lapping machines, welding processes such as SMAW, GMAW, PAW, SAW, heat treatment furnaces, cranes with capacity up to 12 tons, facilities for painting standard products, as well as special applications, among others.

PRODUCTION CAPACITY PER LINE

Product line	Size	Class	Units per month	Tons per month
Flanged Bonnet Cast Steel Valve	2" to 72"	150# to 2500#	3,570	380
Flanged Bonnet Forged Steel Valve	1/4" to 2"	150# to 2500#	13,500	34
Welded Bonnet Forged Steel Valve	1/4" to 2"	150# to 2500#	1,500	3
Trunnion Mounted Ball Valve	2" to 60"	150# to 2500#	800	300
Compensator-Type Steel Lubricated Plug Valve (Inverted Plug)	1/2" to 36"	150# to 2500#	700	52
Top Entry-Type Steel Lubricated Plug Valve (Normal Plug)	1/2" to 36"	2000# to 5000# API	80	8
Cast Iron Lubricated Plug Valve	1/2" to 18"	175# to 500# CWP	4,000	90
Pressure Seal Cast Steel Valve	1/2" to 24"	600# to 2500#	200	145
Dual Plate Wafer-Type Cast Steel Check Valve	2" to 36"	150# to 1500#	2,000	78
Through Conduit Slab Gate Valve	2" to 48"	150# to 1500#	450	80
Expanding Gate Valve	2" to 48"	150# to 2500#	50	40
AWWA Butterfly Valve	3" to 72"	75# to 150# B AW-WA	150	65
Floating Ball Valve	1/4" to 8"	150# to 2000#	2,000	60
Steel Safety, Relief, and Safety and Relief Valve	1/2" to 10"	150# to 5000#	120	1.5
Bronze Safety and Relief Valve	1/2" to 3"	150# to 300#	500	1.2
Cast Iron Valve with Rising Stem (OS & Y)	2" to 36"	125#	1,500	90
Cast Iron Valve Non Rising Stem (NRS)	2" to 36"	125#	600	25
Industrial Cast Bronze Valve	1/4" to 2"	125# to 150#	2,000	2

Oilfield and Gas Infrastructure and Auxiliary Services

GRUPO WALWORTH has extensive experience in the management and execution of projects in the Oil & Gas sector, through our areas of expertise in engineering, procurement, construction, maintenance, project management and specialized services.

Business Areas

EPC projects

Our experience in Engineering, Procurement and Construction projects guarantees the fulfillment of goals.

Project Planning, Oversight and Control

Our staff of engineers with great experience and certified technicians, ensure the fulfillment of objectives in terms of Safety, Quality and Cost-Time.

Construction

Participating as allies in the field of construction, we are a solid support in conjunction with our staff of with our highly specialized staff subcontractors.

Management and Legalization

The experience of our group of professionals allows them to contribute, through socio-organizational studies, to an adequate relationship with the community and compliance with the legalization of properties.

Maintenance

A solid team in Maintenance matters, with experience in the development of prevention and control plans.

Procurement and Supplies

Our outstanding purchasing department supports the reduction of project execution times. We have a department specialized in valves of various diameters and materials.

Specialized services

- **Basic maintenance of on-site diagnosis, adjustment and lubrication.**
Aimed at installed valves of any brand.
- **Hydrostatic tests on site (SAT).**
Aimed at any valve brand that requires a hydrostatic test.
- **Maintenance for the rehabilitation of a WALWORTH valve.**
Aimed at WALWORTH brand valves that are stored out of warranty and have not entered into operation.
- **Parts diagnostic, adjustments and manufacturing service.**
Aimed at any valve brand that requires a special service.
- **Maintenance for trim refurbishment.**
Aimed at any valve brand that was in operation and requires replacement of worn internal parts.
- **Non-destructive tests and start-up.**
Aimed at any equipment that requires a non-destructive test, as well as for circuits where valves need to be put into operation to avoid damages.
- **Maintenance to correct faults or change accessories.**
Aimed at any valve brand that may be in operation or out of service.
- **Adaptation of any type of actuators.**
From selection, coupling and testing of metric, pneumatic, hydraulic, gas or oil actuators, etc.
- **Service policy of at least 1 year.**
Aimed at new valves, maintenance 2 and 3.



WALWORTH DESIGN CONTROL

WALWORTH products are manufactured in strict adherence to the most important standards worldwide such as API, ANSI, ASME, ASTM, MSS, NACE, AWWA, BSI, CSA, among others. Our engineering team is always studying the new updates to these standards to incorporate any changes that affect the design, regulations or performance of our products, always being leaders in the new developments obtained.

The engineering department uses the most advanced technology and equipment, such as the use of finite elements, CAD systems, Solidworks, Solid Edge and design programs to ensure the proper assembly and performance of products from conception, calculation and generation of detail drawings for manufacturing, placing WALWORTH as the leader in the development of products according to the needs of the market.

WALWORTH CERTIFICATIONS

Over time, WALWORTH developed its Quality Management System, as the main Administrative System. In this sense, WALWORTH is an API-Q1 and ISO-9001 certified company, and holds the most important certifications worldwide.

The system requires a rigorous Quality Control and selection of raw material from approved suppliers, as well as the control of manufacturing processes. With the serial number, WALWORTH is able to monitor the product in its manufacturing process and provide traceability information for the materials used in each valve. Below are some of the main certifications:

Certification	Description of the certification
API 6D	Issued by the American Petroleum Institute and applicable to Slab Gate, Expanding Gate, Plug, Trunnion Ball and Check valves manufactured according to API-6D specifications.
API 600	Issued by the American Petroleum Institute for gate, globe and Check valves in flanged cast bonnet steel, manufactured in accordance with the API-600 specification.
API 602	Issued by the American Petroleum Institute for gate valves in flanged cast bonnet compact steel, manufactured in accordance with the API-602 specification
API 594	Issued by the American Petroleum Institute for A and B-Type Check valves manufactured in accordance with the API-594 specification.
PED 2014 68 Directive 2014/68	Issued by the European Parliament and council
API Q1 / ISO 9001	Issued by the American Petroleum Institute since April 1999, for compliance by quality management systems
API 624	Type of test on rising stem valves equipped with graphite gaskets for fugitive emissions.
ISO 15848 1/2	Measuring test procedures for industrial valves and qualification procedures for fugitive emissions.
API 6A	Issued by the American Petroleum Institute and applicable to high pressure valves PSL1 and PSL2.
SIL-3	Issued by the TUV and applicable to ball valves (Trunnion).

WALWORTH is a company committed to occupational health and safety at work.



Certificate API-6D
No. 6D-0097



Certificate API-6A
No. 6A-0234



Certificate API-594
No. 594-0007



Certificate API-600
No. 600-0109



Certificate API-602
No. 602-0024



WALWORTH API Q1



Certificate ISO-9001 No. 0038



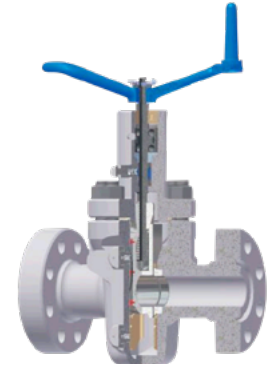
API-6A EXPANDING GATE PRODUCTION VALVES

MANUFACTURING RANGE

Type	Size	Pressure (PSI)	PSL	Material Class	Ends
Expanding Gate	2-1/16" to 7-1/16"	2000 to 5000	1 to 4	AA, BB, CC, DD, EE, FF	RJT – Threaded

DESIGN FEATURES

- Design according to the API-6A standard.
- Uni-directional valve.
- Full and continuous bore.
- Dual soft and metal-to-metal seal with airtight mechanical activation.
- Does not require lubrication in seats.
- Option available in soft and metal-to-metal seal coated in Tungsten Carbide, Chrome Carbide and Stellite-6.
- “V” type gasket system plus plastic gasket, reduces maintenance cost.
- Regasketing of the piston rod under pressure and with the gate in any position.
- Bearing box to reduce operating torque. Pressure tests according to API-6A.



TRUNNION BALL VALVES

MANUFACTURING RANGE

Type	Size	Pressure per class according to ASME B16.34	Ends
Trunnion ball valve with 3 piece bolted	2" to 60"	150, 300, 600, 900, 1500 & 2500#	RF, RTJ or BW
Trunnion ball valve with welded body	2" to 60"	150, 300, 600, 900, 1500 & 2500#	RF, RTJ or BW

DESIGN FEATURES

- Side entry design.
- Trunnion ball valves according to API-6D.
- Full and continuous bore.
- Welded body at the customer's request.
- Option available in soft and metal-to-metal seal coated in Tungsten Carbide, Chrome Carbide and Stellite.
- Body made of carbon steel or alloy and internal coating at the customer's request.
- Complies with the fire test according to the API-6FA, API-607 standard.
- Option available in full and continuous bore or reduced bore.
- Flange dimensions according to ASME B16.5 from 2" to 24" in nominal diameter.
- Flange dimensions according to MSS-SP-44, ASME B16.47 Series A or B for 26" and larger valves.
- Operation options: Lever, gear operator, electric, hydraulic or pneumatic, gas on oil actuator at the customer's request.
- Double block and purge.
- Uni-directional or bidirectional seats, SPE vs DPE.
- Antistatic device.
- NACE Service MR-01-75, ISO 15156 or MR-01-03/ISO 17945.
- Pressure tests according to API-6D.



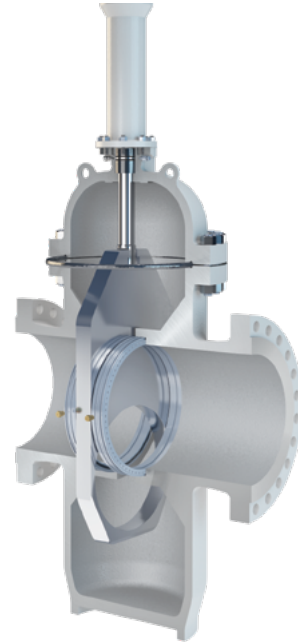
SLAB GATE VALVES

“SLAB GATE THROUGH CONDUIT”

MANUFACTURING RANGE			
Type	Size	Pressure per class according to ASME B16.34	Ends
Solid Gate Valves	2" to 48"	150, 300, 600, 900 & 1500#	RF, RTJ or BW

DESIGN FEATURES

- Design according to the API-6D standard.
- Full and continuous bore for the passage of cleaning tools.
- “Top Entry” design for maintenance on the line.
- Double block and blend.
- Uni-directional or bidirectional seats - self relieving or DPE.
- Emergency seal in seats through sealant injection greasers.
- The operation mode varies according to the customer’s needs, since they can be operated by: Handwheel, chain operators, gear operators or electric, pneumatic or hydraulic actuators.
- Option available in soft and metal-to-metal seal coated in Tungsten Carbide, Chrome Carbide and Stellite-6.
- Flanged or fully weldable ends.
- Flanges conforming to the ASME/ANSI B16.5 standard from 2" to 24".
- Flanges conforming to the ASME/ANSI B16.47 series A or B standard for 26" and larger valves.
- Fireproof according to the API-6FA standard.
- Pressure tests according to API 6D.

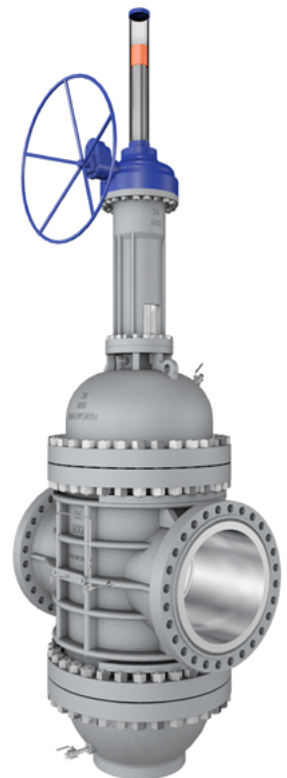
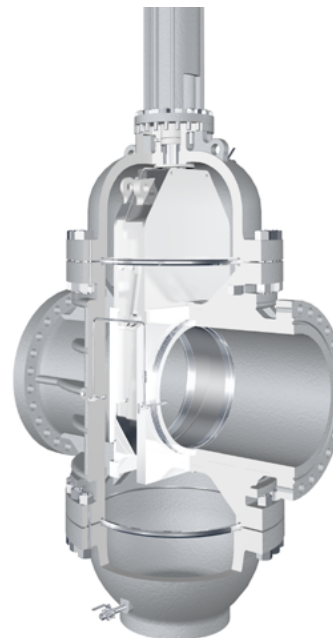


EXPANDING GATE VALVES

MANUFACTURING RANGE			
Type	Size	Pressure per class according to ASME B16.34	Ends
Expanding Gate Valves	2" to 48"	150, 300, 600, 900, 1500 and 2500#	RF, RTJ or BW

DESIGN FEATURES

- Design according to the API-6D standard.
- Full and continuous bore for the passage of cleaning tools.
- “Top Entry” design for maintenance on the line.
- Double Block and Blend in open or closed position.
- Uni-directional and bidirectional seats, not self relieving.
- The operation mode varies according to the customer’s needs, since they can be operated by: Handwheel, impact handwheel, chain operators, gear operators or electric, pneumatic or hydraulic actuators.
- Option available in soft seal and with hard coatings of tungsten carbide or stellite for aggressive services through the HVOF process.
- Flanged or fully weldable ends.
- Flanges conforming to the ASME B16.5 standard from 2" to 24".
- Flanges conforming to the ASME B16.47 series A or B standard for 26" and larger valves.
- Pressure tests according to API 6D.



STEEL LUBRICATED PLUG VALVES

MANUFACTURING RANGE

Compensator-type steel lubricated Plug valve (inverted plug)	Size	Pressure per class according to ASME B16.34	Ends
Short Model API-6D	2" to 12"	150, 300 & 600#	RF, RTJ or BW
Regular Model API-6D	1/2" to 12"	600, 900, 1500 & 2500#	RF, RTJ or BW
Ventury Model API-6D	6" to 36"	150, 300, 600, 900 & 1500#	RF, RTJ or BW
Compensator-type steel lubricated Plug valve (inverted Plug API-6A)	Size	Pressure per class according to API	Ends
Regular model for platform service	2 1/16" to 4 1/16"	2000, 3000 & 5000	RTJ or BW
Top Entry-type lubricated Plug valve (normal plug)	Size	Pressure per class according to ASME B16.34	Ends
Short Model API-6D	1/2" to 8"	150, 300#	RF, RTJ or BW
Regular Model API-6D	1/2" to 2"	600#	RF, RTJ or BW
Ventury Model API-6D	14" to 36"	150#	RF, RTJ or BW
Steel Plug valve for gas service	Size	Pressure per class according to ASME B16.34	Ends
Short Model API-6D	3/4" to 8"	150# ASME, 200 CWP	SW or BW



DESIGN FEATURES

- Compensator-type steel lubricated Plug valves (Inverted Plug) and Top Entry-type steel lubricated Plug valves (Normal Plug) that meet the specifications according to the API-6D & API-599 standards.
- Dynamic and mechanical balance to avoid Plug clogging in the valve.
- Raised face flanged ends or ring-type joint, threaded or weldable ends.
- Complies with the fire test according to API-6FA and API-607.
- Flanged or fully weldable ends.
- Flanges conforming to the ASME B16.5 standard from 2" to 24".
- Flanges conforming to the ASME B16.47 series A or B standard for 26" and larger valves.
- Operation with lever, gear operator, electric, hydraulic or pneumatic actuator, according to the customer's requirements.
- Bidirectional valve.
- Pressure tests according to API 6D.
- WALSEAL sealant for different applications.

TWIN STEEL LUBRICATED PLUG VALVES FOR DOUBLE BLOCK AND BLEED SERVICE

MANUFACTURING RANGE

Type	Size	Pressure per class according to ASME B16.34	Ends
6D Inverted Plug Compensator Plug Valve	2" to 20"	150# and 300#	FR & BW
6D Inverted Plug Compensator Plug Valve	2" to 26"	600#	RF & RTJ & BW
6D Inverted Plug Compensator Plug Valve	2" to 16"	900# , 1500# and 2500#	RF & RTJ & BW



DESIGN FEATURES

- Compensator-type inverted-Plug steel lubricated Plug valves that meet the specifications according to API 6D standards.
- Dynamic balance to avoid Plug clogging in the valve.
- Raised face flanged ends, threaded or weldable ends.
- Flanged or fully weldable ends.
- Flanges conforming to the ASME B16.5 standard from 2" to 24".
- Flanges conforming to the ASME B16.47 series A or B standard for 26" and larger valves.
- Option with lever, gear operator or electric, hydraulic and pneumatic actuator, according to the customer's requirements.
- Pressure tests according to API 6D
- WALSEAL sealant for different applications.
- Bidirectional valve.



CAST STEEL GATE, GLOBE AND CHECK VALVES

MANUFACTURING RANGE

Type	Size	Pressure by class according to ASME B16.34	Ends
Gate	2" to 72"	150, 300, 600, 900, 1500 & 2500#	RF, RTJ or BW
Globe	2" to 20"	150, 300, 600, 900, 1500 & 2500#	RF, RTJ or BW
Swing-type Check	2" to 48"	150, 300, 600, 900, 1500 & 2500#	RF, RTJ or BW

DESIGN FEATURES

- Gate valves according to API-600, with solid, flexible, or parallel-disc gate.
- Gate and globe valves for cryogenic services with gas column according to BS-6364 at the customer's request.
- Flange dimensions according to ASME B16.5 from 2" to 24".
- Flange dimensions according to MSS-SP.44, ASME B16.47 Series A or B for valves with a nominal diameter of 26" and larger.
- Globe valves according to API-623.
- Check valves according to API-6D and API-594 Type B.
- Operation according to customer needs, which can be handwheel, impact-type handwheel, chain handwheel, gearbox, electric, pneumatic or hydraulic actuator.
- Control of fugitive emissions (ISO 15848-1 and API-624).
- Damper and counterweight for Check valves at the customer's request.
- Hydrostatic and pneumatic tests according to API-598.



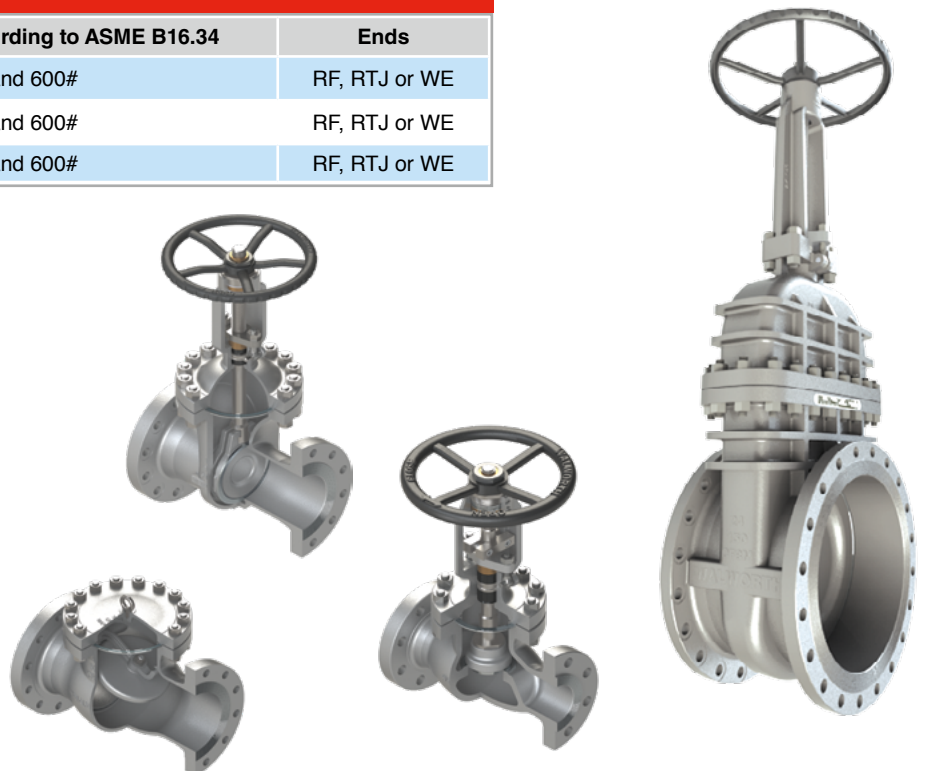
VALVES MADE OF STAINLESS CAST STEEL AND SPECIAL ALLOYS; API 603 FOR GATE VALVE AND ASME B16.34 FOR GLOBE AND CHECK VALVES

MANUFACTURING RANGE

Type	Size	Pressure per class according to ASME B16.34	Ends
Gate	2" to 24"	150, 300 and 600#	RF, RTJ or WE
Globe	2" to 24"	150, 300 and 600#	RF, RTJ or WE
Check	2" to 24"	150, 300 and 600#	RF, RTJ or WE

DESIGN FEATURES

- Gate Valve designed according to API-603.
- Solid gate.
- Globe and Check Valves designed according to ASME B16.34
- Flange dimensions according to ASME B16.5.
- Gate and globe valves for cryogenic services, with gas column according to the BS-6364 standard.
- Handwheel, chain operator, electric actuator, pneumatic and hydraulic actuator at the customer's request.
- By-Pass, flashlight bushing, condensate chamber, grease injectors, special connections, etc.
- Control for low fugitive emissions.
- NACE Service MR0175 / ISO 15756 and MR0103 / ISO 17945
- Pressure tests according to API 598.



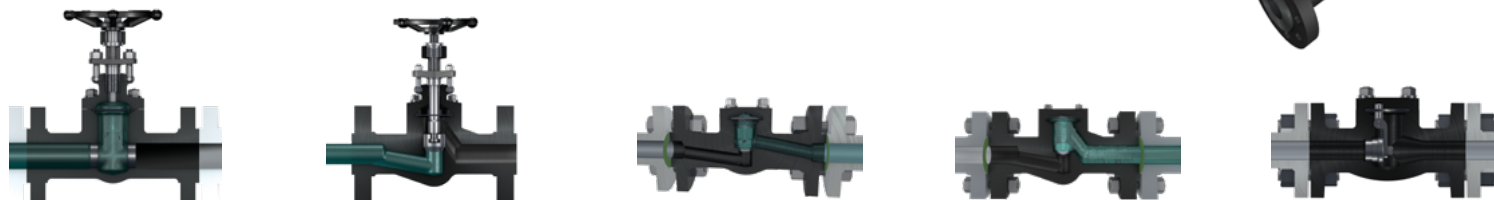
FORGED STEEL GATE, GLOBE AND CHECK VALVES

MANUFACTURING RANGE

Type	Size	Pressure per class according to ASME B16.34 for SW or NPT ends	Pressure per class according to ASME B16.34 for RF or RTJ flanged ends
Gate	1/4" to 2"	800, 1500 & 2500#	150, 300, 600, 900, 1500 & 2500#
Globe	1/4" to 2"	800, 1500 & 2500#	150, 300, 600, 900, 1500 & 2500#
Piston-type Check	1/4" to 2"	800, 1500 & 2500#	150, 300, 600, 900, 1500 & 2500#
Ball-type Check	1/4" to 2"	800, 1500 & 2500#	150, 300, 600, 900, 1500 & 2500#
Swing-type Check	1/4" to 2"	800, 1500 & 2500#	150, 300, 600, 900, 1500 & 2500#

DESIGN FEATURES

- Gate, Globe, Swing-type Check, Piston-type Check, "T" and "Y" design for Globe and Ball-type Check valves according to API-602.
- Fully weldable ends, threaded, combined ends, RF or RTJ flanges (flanges integrated into the body).
- Welded or flanged bonnet option.
- Integral or renewable seats.
- Control of fugitive emissions (ISO 15848-1 and API 624)
- NACE Service MR-0175, ISO 15156 or MR-01-03/ISO 17945.
- Pressure tests according to API 598.
- Option with gas column for cryogenic service.



CAST STEEL PRESSURE SEAL VALVES

MANUFACTURING RANGE

Type	Size	Pressure per class according to ASME B16.34	Ends
Gate	2" to 24"	600, 900, 1500 & 2500#	RF, RTJ or BW
Globe	2" to 24"	600, 900, 1500 & 2500#	RF, RTJ or BW
Stop Check	2" to 24"	600, 900, 1500 & 2500#	RF, RTJ or BW
"Y" model globe	2" to 24"	600, 900, 1500 & 2500#	RF, RTJ or BW
"Y" model Stop Check	2" to 24"	600, 900, 1500 & 2500#	RF, RTJ or BW
Swing-type Check	2" to 24"	600, 900, 1500 & 2500#	RF, RTJ or BW
Tilting Disc Check	2" to 24"	600, 900, 1500 & 2500#	RF, RTJ or BW
Lift Check	2" to 24"	600, 900, 1500 & 2500#	RF, RTJ or BW

DESIGN FEATURES

- Gate, globe, stop check, "Y" design globe, "Y" model stop check, swing-type Check, tilting disc check and lift check pressure seal valves according to ASME B16.34.
- Flexible gate or sliding parallel disc for gate valve.
- The operation mode varies according to the customer's needs, since it can be operated by handwheel, impact-type handwheel, chain handwheel, gearbox, electric, pneumatic or hydraulic actuator.
- Damper and counterweight for Check valves.
- Bypass, bushings, condensate chamber, grease injectors, connections, etc.
- Extra deep gasket box available at the customer's request.
- Pressure tests according to API 598.



FLOATING BALL VALVES

MANUFACTURING RANGE					
Type	Material	Size	Class	Ends	Design standard
3-pcs Floating Ball Valve	Brass	1/4" to 2"	600# WOG	Threaded	MSS SP-72
3-pcs Floating Ball Valve	WCB	1/4" to 4"	1000 WOG	Threaded or Socket Weld	MSS SP-72
3-pcs Floating Ball Valve	WCB	1/4" to 2"	2000 WOG	Threaded or Socket Weld	MSS SP-72
3-pcs Floating Ball Valve	CF8M	1/4" to 4"	1000 WOG	Threaded or Socket Weld	MSS SP-72
3-pcs Floating Ball Valve	CF8M	1/4" to 2"	2000 WOG	Threaded or Socket Weld	MSS SP-72
2-pcs Floating Ball Valve	WCB	1/4" to 8"	150#	Raised Face Flanged RF	MSS SP-110, API 608
2-pcs Floating Ball Valve	WCB	1/2" to 4"	300#	Raised Face Flanged RF	MSS SP-110, API 608
2-pcs Floating Ball Valve	WCB	1/2" to 4"	600#	Raised Face Flanged RF	MSS SP-110, API 608
2-pcs Floating Ball Valve	CF8M	1/2" to 8"	150#	Raised Face Flanged RF	MSS SP-110, API 608
2-pcs Floating Ball Valve	CF8M	1/2" to 4"	300#	Raised Face Flanged RF	MSS SP-110, API 608
2-pcs Floating Ball Valve	CF8M	1/2" to 4"	600#	Raised Face Flanged RF	MSS SP-110, API 608



DESIGN FEATURES

- Floating Ball valves are designed according to the MSS SP72, MSS SP110, API-608, API-6D standards.
- The design can be made up of two or three pieces.
- Full or Reduced Bore according to the customer's requirement.
- The ends can be flanged, threaded or in a welding box.
- The operation can be manual with lever or with gear operator according to the customer's requirements.
- Firesafe design per API 607.
- Padlock device available at the customer's request.
- Pressure tests according to API 598, API 6D and MSS SP 110.
- NACE per MR-01-75

FLOATING BALL VALVES FOR SEVERE SERVICE (OIL VALVE)

MANUFACTURING RANGE				
Type	Material	Size	Class	Ends
3-pcs Floating Ball Valve	A-105N, LF2 or SS-316	1/4" to 2"	2000 WOG	Socket Weld, Threaded, Mixed
3-pcs Floating Ball Valve	A-105N, LF2 or SS-316	1/4" to 2"	3000 WOG	Socket Weld, Threaded, Mixed
3-pcs Floating Ball Valve	A-105N, LF2 or SS-316	1/4" to 2"	6000 WOG	Socket Weld, Threaded, Mixed
3-pcs Floating Ball Valve	A-105N, LF2 or SS-316	1/4" to 2"	600 ASME	Socket Weld, Threaded, Mixed
3-pcs Floating Ball Valve	A-105N, LF2 or SS-316	1/4" to 2"	800 ASME	Socket Weld, Threaded, Mixed
3-pcs Floating Ball Valve	A-105N, LF2 or SS-316	1/4" to 2"	900/1500 ASME	Socket Weld, Threaded, Mixed



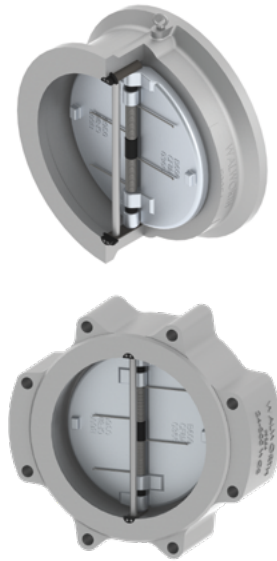
DESIGN FEATURES

- The floating ball valves for service are designed for use on platforms or in oil facilities where more robust design features are required.
- These are designed according to ASME B16.34.
- Screwed or welded body at the request of the customer.
- Design option with heat diffuser plates to avoid damage to the seats during the welding process.
- Interiors in materials of high mechanical strength and suitable for NACE service.
- Supplied with lever and with mounting plate to install mechanical or automated operator.
- Fireproof valve according to API-607.
- Pressure tests according to API 598.
- NACE per MR-01-75

DUAL PLATE WAFER-TYPE CHECK VALVES

MANUFACTURING RANGE

Type	Size	Pressure per class according to ASME B16.34	Ends
Wafer-Type Dual Plate Valve	2" to 36"	150, 300, 600, 900 & 1500#	FF, RF, RTJ
LUG-Type Dual Plate Valve	2" to 36"	150, 300, 600, 900 & 1500#	FF, RF, RTS



DESIGN FEATURES

- Design according to API-594.
- Compact one-piece dual plate wafer-type or LUG (or slotted) type design.
- Patented spring that allows the soft closing of the disc, in order to prevent rupture and premature wear.
- It has a shaft, which is heavy duty and corrosion resistant.
- Two plates offer maximum resistance with maximum time in open position.
- Total contact with metal-to-metal seats that allow an airtight seal at a minimum working pressure.
- It has thrust sheaves to reduce the friction and wear of the forks.
- Pressure tests according to API 598.

RELIEF AND SAFETY VALVES

MANUFACTURING RANGE

Type	Size	Pressure per class according to ASME B16.34	Ends
Bronze Safety Valves	1/2" to 2 1/2"	15 a 300 PSIG (steam), 350 (air or gas)	Threaded
Bronze Relief Valves	1/2" to 3"	300 PSIG except 3", which is 150 PSIG.	Threaded
Steel Safety and Relief Valves	1/2" x 1", 1" x 1"	15 to 2000 PSI	Threaded, Socket Weld or Flanged RF
	3/4" x 1", 2" x 2"	15 to 5000 PSI	
Type	Size	Class of inlet and outlet flange	Ends
Steel Safety and Relief Valves	1" x 2" to 8" x 10"	150 x 150, 300 x 150, 600 x 150	Flanged RF



DESIGN FEATURES

For safety valves (Gas and Steam Service).

- Lateral discharge (according to the pipe).
- Threaded ends according to ANSI B1.20.1.
- Minimum calibration pressure 1.05Kg/cm² (15 psig); for calibrations of less than 15 PSI, consult your nearest WALWORTH dealer.
- Maximum operating pressure with steam from 15 psig to 300 psig.
- Maximum operating pressure with air or gas from 300 psig to 350 psig.

For relief valves (WALWORTH standard)

(Services of non-corrosive liquids for bronze).

- Lateral discharge (according to the pipe).
- Threaded ends according to ASME B1.20.1.
- Minimum calibration pressure 0.35Kg/cm² (5 psig).
- Maximum operating temperature 406 °F (208 °C).

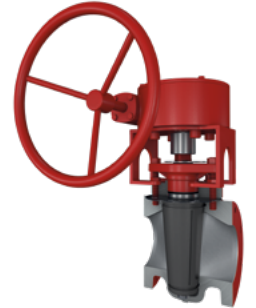
For Safety and Relief valves (Services of air, gases or liquids, depending on the application required).

- Designs: Conventional, bonded, soft seals, open bonnet, closed bonnet, at the request of the customer.
- Soft seats or metal-to-metal seals according to the customer's requirements.
- High capacity for pressure release.
- Stainless steel interiors.
- Flanged ends according to ASME B16.5, or threaded according to ASME B1.1.
- Types of hole from D to T.

IRON LUBRICATED PLUG VALVES

MANUFACTURING RANGE

Design	Size	Pressure per class according to API	Ends
Short Model	1/2" to 12"	200 CWP	Threaded or RF
Regular Model	2" to 18"	200 CWP	Threaded or RF
Ventury Model	6" to 18"	175 CWP	Threaded or RF
Ventury Model	6" to 8"	500 CWP	Threaded or RF



DESIGN FEATURES

- Design according to API-599 and MSS-SP-78.
- Spring mechanical balancing to avoid clogging of the plug.
- Threaded ends according to ASME B1.20.1.
- Flanged ends according to ASME B16.5.
- Operation with lever or gear operation.
- Bidirectional valve.
- Locking device with padlock at the customer's request.
- Extensions and elevations in the valves for their operation.
- WALSEAL sealant for different applications.
- Pressure tests according to API 598 & MSS SP-78.

IRON GATE, GLOBE AND CHECK VALVES

MANUFACTURING RANGE OF VALVES FOR DRINKING WATER SERVICE

Type	Manufacturing design	Size	Material	Trim	CWP	Ends
OS&Y gate-type metal-to-metal seals with interior epoxy	MSS-SP-70	2" to 24"	A536 65-45-12	Bronze; SS-420	125	FF
OS&Y gate-type metal-to-metal seals with interior epoxy	MSS-SP-70	2" to 12"	A536 65-45-12	Bronze; SS-420	250	Slotted
NRS gate-type metal-to-metal seals with interior epoxy	MSS-SP-70	2" to 24"	A536 65-45-12	Bronze; SS-420	125	FF
OS&Y gate-type resilient seals with interior epoxy	AWWA C515	2" to 24"	A536 65-45-12	EPDM; SS-420	125	FF
NRS gate-type resilient seals with interior epoxy	AWWA C515	2" to 24"	A536 65-45-12	EPDM; SS-420	125	FF
OS&Y globe-type metal-to-metal seals with interior epoxy	MSS-SP-85	2" to 12"	A126 Clase B	Bronze	125	FF
Check type resilient seal with internal epoxy	AWWA C515	2" to 24"	A536 65-45-12	EPDM; SS-420	125	FF

MANUFACTURING RANGE OF VALVES FOR FIREPROOF SERVICE UL/FM

Type	Manufacturing design	Size	Material	Trim	CWP	Ends
OS&Y gate-type resilient seals with interior epoxy	AWWA C515	2" to 12"	A536 65-45-12	EPDM; SS-420	300	FF, Slotted
NRS gate-type resilient seals with interior epoxy	AWWA C515	2 1/2" to 12"	A536 65-45-12	EPDM; SS-420	300	FF, Slotted
Check type resilient seal with internal epoxy	AWWA C508	2" to 24"	A536 65-45-12	DI/EPDM; BRONCE	300	FF, Slotted

MANUFACTURING RANGE OF VALVES FOR GENERAL SERVICES

Type	Manufacturing design	Size	Material	Trim	CWP	Ends
OS&Y gate-type metal-to-metal seal	MSS-SP-70	2" to 36"	A126 Class B	Bronze/Brass B16	125	FF,
OS&Y gate-type metal-to-metal seal	MSS-SP-70	2" to 36"	A126 Class B	Bronze/Brass B16	250	FF,
NRS gate-type metal-to-metal seal	MSS-SP-70	2" to 36"	A126 Class B	Bronze/Brass B16	125	FF,
OS&Y globe-type metal-to-metal seal	MSS-SP-85	2" to 12"	A126 Class B	Bronze/Brass B16	125	FF,
OS&Y globe-type metal-to-metal seal	MSS-SP-85	2" to 12"	A126 Class B	Bronze/Brass B16	250	FF,
Check-type metal-to-metal seal	MSS-SP-71	2" to 24"	A126 Class B	Bronze/Brass B16	125	FF,
Check-type metal-to-metal seal	MSS-SP-71	2" to 24"	A126 Class B	Bronze/Brass B16	250	FF,



DESIGN FEATURES

- Design according to the characteristics of the service.
- Rising stem (OS&Y) or fixed stem (NRS) style.
- Operation with handwheel or gear operator in gate and globe types.
- Accessories such as stems with extensions or floor mounts.
- In Check, there is an option with lever and counterweight.
- Pressure tests according to API-598.

AWWA-TYPE BUTTERFLY VALVES

MANUFACTURING RANGE OF VALVES FOR DRINKING WATER SERVICE

Type	Manufacturing design	Size	Material	Trim	CWP	Ends
Butterfly-type resilient seal with internal epoxy	AWWA C504	3" to 24"	A126 Class B	Shaft: SS-420; Seat: rubber; Disc: ductile iron/seal 316.	150 with flanges 125	FF
Butterfly-type resilient seal with internal epoxy	AWWA C504	3" to 24"	A126 Class B	Shaft: SS-420; Seat: rubber; Disc: ductile iron/seal 316.	150 with flanges 125	MJ
Butterfly-type Wafer-style resilient seal with internal epoxy; lever up to 12"; 16" to 24" gear operator	MSS-SP-67	1 1/2" to 24"	A126 Class B	Shaft: SS-420; Seat: EPDM; Disc: ductile iron/chromed.	232 (16bar)	Wafer
Butterfly-type Wafer-style resilient seal with internal epoxy; lever up to 12"; 16" to 24" gear operator	MSS-SP-67	1 1/2" to 24"	A126 Class B	Shaft: SS-420; Seat: EPDM; Disc: ductile iron/chromed.	362 (25bar)	Wafer
Lug-type Wafer-style resilient seal with internal epoxy; lever up to 12"; 16" to 24" gear operator	MSS-SP-67	1 1/2" to 24"	A126 Class B	Shaft: SS-420; Seat: EPDM; Disc: ductile iron/chromed.	232 (16bar)	Lug
Lug-type Wafer-style resilient seal with internal epoxy; lever up to 12"; 16" to 24" gear operator	MSS-SP-67	1 1/2" to 24"	A126 Class B	Shaft: SS-420; Seat: EPDM; Disc: ductile iron/chromed.	362 (25bar)	Lug
Butterfly-type Slotted-style resilient seal with internal epoxy; lever up to 12"; 16" to 24" gear operator	MSS-SP-67	2" to 12"	A126 Class B	Shaft: SS-420; O-ring: EPDM; Disc: ductile iron/EPDM.	232 (16bar)	Slotted

MANUFACTURING RANGE OF VALVES FOR FIREPROOF SERVICE UL/FM

Type	Manufacturing design	Size	Material	Trim	CWP	Ends
Butterfly-type Wafer-style resilient seal with internal and external epoxy A550; gear operator.	Standard	2" to 24"	A536 65-45-12	Flecha: SS-431; Asiento: EPDM; Disco: hierro ductil/EPDM.	300 psi	Wafer
Butterfly-type Slotted-style resilient seal with internal and external epoxy A550; gear operator.	Standard	2" to 24"	A536 65-45-12	Flecha: SS-431; OE: hierro ductil/Bronce; Disco: hierro ductil/EPDM.	300 psi	Slotted AWWA C606

DESIGN FEATURES

- Uninterrupted seal along the 360° of the disc.
- Wafer, Lug or Slotted ends style.
- Manual operation by lever, gear operator or automated.
- Other interiors available at the request of the client.
- Soft seals can be EPDM, neoprene or NBR.
- Pressure tests according to API-598.



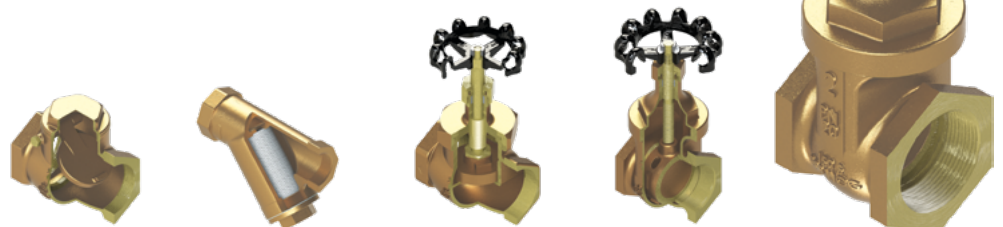
INDUSTRIAL BRONZE GATE, GLOBE AND CHECK VALVES

MANUFACTURING RANGE

Type	Size	Pressure per class according to ASME B16.34	Ends
Gate Valve	1/4" to 2"	125, 150#	Threaded, welded
Globe Valve	1/4" to 2"	125, 150#	Threaded, welded
Horizontal Swing-Type Check Valve	1/4" to 2"	125, 150#	Threaded, welded
"Y" Swing-Type Check Valve	1/4" to 2"	125, 150#	Threaded, welded

DESIGN FEATURES

- Design according to MSS-SP-80 standard.
- Threaded bonnet or union nut design.
- Rising or fixed stem option.
- Threaded or weldable ends.
- Operated by handwheel.
- Integral seats.



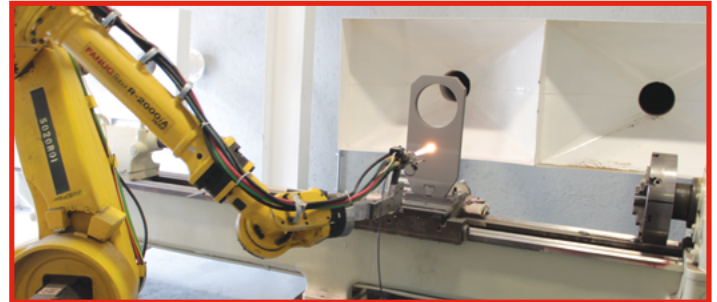


COMMITTED TO SERVICE

WALWORTH is committed to meeting delivery times and addressing customer needs consistently with the goal of making a difference for both the quality of our valves and the service we offer.

HVOF PROCESS

WALWORTH has automated equipment for the application of chromium carbide or stellite 6 coatings through the HVOF (High Velocity Oxygen Fuel) process. This method projects particles of the hard coating at speeds faster than sound, achieving high quality and uniform coatings in internal components of Trunnion Ball, Double Expanding Gate and Flat Slab Gate valves, among others.



QUALITY CONTROL EQUIPMENT

To ensure that WALWORTH products comply with internationally recognized design and manufacturing standards, we have professional equipment for quality monitoring, such as:

- ✓ Equipment for radiographic testing (RT).
- ✓ Positive Material Identification (PMI).
- ✓ Magnetic particle testing (MT).
- ✓ Liquid Penetrant Test (PT).
- ✓ Pressure transient test circuit.
- ✓ Boiler for steam tests.
- ✓ Fireproof testing.
- ✓ Cold chamber.
- ✓ Measurement test for fugitive emissions for both helium and methane.
- ✓ Cryogenic tests up to -196°C .
- ✓ Table of coordinates with an accuracy of 4 Angstrom.
- ✓ Laboratory equipment for stress, bending, impact, hardness and other tests.
- ✓ Metrology Laboratory for verification of calibration of all equipment and measuring instruments used in manufacturing and testing.



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